Eggers Industries

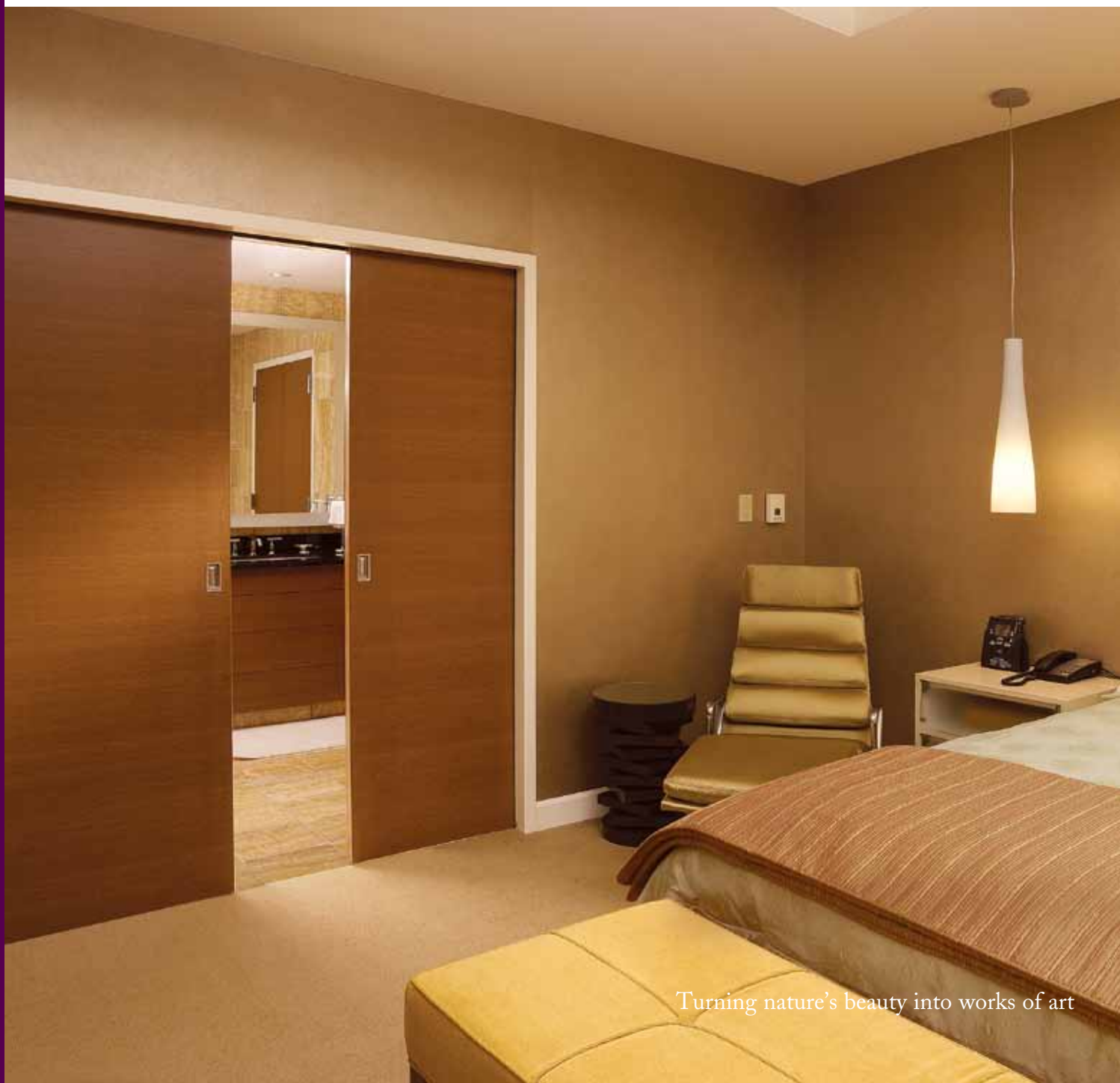
Technical data
Master Index

Eggers Industries

FLUSH DOORS

Eggers' 5-ply flush doors are the very embodiment of form marrying function - extraordinary beauty and exceptional durability. We are able to produce a variety of custom architectural designs to suit all styles and needs.

Eggers Industries



Turning nature's beauty into works of art

5-PLY FLUSH DOORS

Eggers employs the highest level of artistic craftsmanship alongside hot press technology and bonded cores to produce the most elegant, high-performing doors. Our 5-ply flush doors can be specified to your needs – lead-lined, bullet-resistant, acoustical, impact-resistant, non-rated and fire-rated through 90-minute.

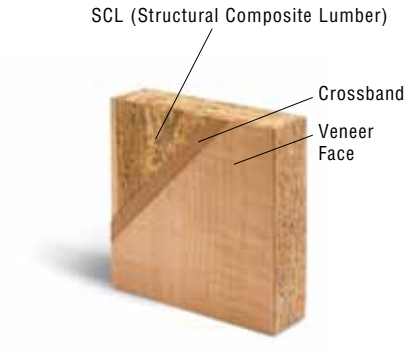
Let Eggers' unique offerings set your project apart. Create a stunning first impression by utilizing our precise sketch face capabilities; add to the beauty of your project by using our striking Vinterio veneer face option; or create a streamlined modern design by specifying our beadless lite flush door on your next project.

Whatever the impression you want to make, the combination of your creativity and Eggers' craftsmanship will bring your vision to reality.



SPECIALTY DOOR OFFERINGS

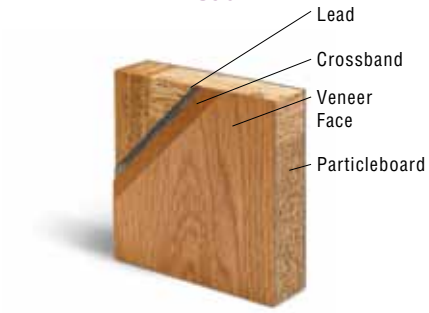
5-Ply SCL



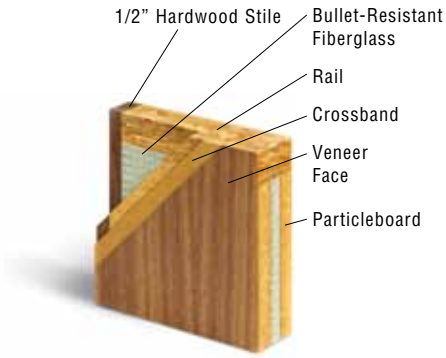
Specially Designed Acoustic Doors
(except STC 29-32)



Lead



Bullet-Resistant



Soundwood Acoustical Capabilities

Eggers' acoustical doors have the highest STC ratings in the industry. Our capabilities allow you to combine the privacy of acoustical performance with other special functionality to meet the design requirements and building codes for your project. Eggers' offerings include, but are not limited to:

- Acoustical designs with fire ratings up to 90-minute.
- STC ratings up to 52 for flush doors.
- STC ratings up to 40 for stile & rail doors.
- Veneer, MDO, vinyl or plastic laminate faces.
- A variety of gasket system options with or without raised thresholds and automatic door bottoms.
- Complete gasket system and installation instructions provided with STC doors.
- Combined STC and LEED®/FSC® certified offerings.
- Some STC ratings also provide x-ray shielding.

Lead-Shielded Doors

Our lead-shielded doors are ideal for use in x-ray rooms and radiation treatment facilities. Manufactured under strict quality control, Eggers' lead-shielded doors provide the highest radiation protection.

- Standard offerings in 1/32", 1/16" or 1/8" total lead thickness. Higher thicknesses per engineering review.
- Balanced at one half total thickness per side.
- Available in 20-, 45- and 60-minute fire ratings.
- Lite cutouts and factory glazing available.
- Singles available up to 4' x 10' and pairs available up to 8' x 10', with a maximum individual door weight of 500 lbs.

Bullet-Resistant Doors

Eggers' bullet-resistant doors offer the aesthetic quality of wood while providing the highest rated protection available. Bullet-resistant doors help ensure safety from direct arm fire in government and other public facilities.

- Available in resistance levels 1-8, per UL 752.
- All protection ratings are eligible for a UL 20-minute fire label.
- Glazing available in doors, up to the required ballistics rating.
- Veneer, MDO or plastic laminate faces.

For our complete Soundwood Acoustical Capabilities, please visit www.eggersindustries.com and click on technical data.

ENGINEERING SPECIFICATIONS	20-MINUTE FIRE DOOR DATA		
	20-Minute Single	**20-Minute Pairs**	**Non-Rated**
Max. Size	4' x 10'	8' x 10' parallel and dbl. egress	4' x 10' (per leaf)
Thickness	1-3/4" - 2-1/4"		
Core	Particleboard, UF-free particleboard, FSC certified particleboard, stave, FSC certified stave, structural composite lumber (SCL), FSC certified structural composite lumber and agrifiber		
Max. Door & Transom Non-Rabbetted	4' x 14' (with transom bar)	4' x 14' (with transom bar)	4' x 14' with or without a transom bar or rabbetted
Stiles	Veneered structural composite lumber, solid lumber edges available upon request		
Rails	No-Rail construction is standard for SCL; 1-1/8" for all other core types (multiple-ply optional)		
Reinforcements	Blocking for screw attached surface hardware required for agrifiber; not required for extra heavy duty applications for SCL and stave core or heavy duty applications with particleboard		
Faces	All available domestic and foreign veneers, medium density overlay (MDO), and high pressure laminates and vinyl		
Crossbands	1/11" high density fiberboard		
Lites	Up to 1296 sq. in. standard, SCL, and stave core available with 2868 sq. in. Beadless lite construction available -- requires maximum 6" top rail and factory glazing. Factory glazing recommended to comply with new NFPA standards		Size restricted only by min. margins Beadless lite construction available- requires maximum 6" top rail and factory glazing
Louvers	Metal louvers up to 576 sq. in. where allowed by code		Wood or metal
Latching Hardware	Cylinders, mortised, unit, or card locks; 5" backset and deadbolts available		Most available latching hardware
Hinges	Per NFPA 80 - butts, pocket pivots, continuous hinges, pivots (electrical options available)		
Flushbolts	N/A	Automatic corner or extension bolts up to 36"	Corner or extension bolts up to 48"
Fire Exit Hardware	Rim, surface and concealed vertical rod (full or top rod only), and fire exit hardware		
Closers, Stops, Holders	Listed surface hardware or concealed hardware having mortise up to 23-3/4" x 1-1/2" x 1-3/8"		Listed surface hardware or concealed hardware having mortise 1-3/8" wide
Drop Seals	Listed and approved surface, semi-mortised or mortised		
Special Details	Machining for hardware; installation of lites and louvers; sketch faces; applied moulding; beadless lite construction; kickplates; solid wood grillwork and divided lites; reveals; raceways		
Finish	UV-cured, primed, painted (MDO only), sealer, full sealer, catalyzed polyurethane, and opaque varnish		
Warranty	Life of installation (interior); 3 years (SCL exterior)		
Standards	WDMA I.S. 1A, AWS Section 9 Edition 1, NFPA 252, UL 10B, UL 10C, NFPA 80		

ENGINEERING SPECIFICATIONS	45-, 60- & 90-MINUTE FIRE DOOR DATA					
	45-Minute C Single	**45-Minute C Pairs[1,2]**	**60-Minute B Single**	**60-Minute B Pairs[1,2]**	**90-Minute B Single**	**90-Minute B Pairs[1,2]**
Max. Size	4' x 10'	Dbl. egress: 8'x 8' 1 or 2 lvs. active: 8'x 9'	4' x 9'	Dbl. egress: 8'x 8' 1 or 2 lvs. active: 8'x 9'	4' x 9'	8'x 8' SVR's: 8'x 9'
Thickness	1-3/4" - 2-1/4"					
Max. Door & Transom Non-Rabbetted[3]	4' x 11' (max. transom size 4' x 4')[3] - doors and transoms must be separated by horizontal transom bar Transoms over pairs must be separated by vertical and horizontal transom bars					
Max. Door & Transom Rabbetted[4]	3'6" x 10'	N/A	3'6" x 10'	N/A	3'6" x 10'	N/A
Stiles	Veneered laminated edges, solid lumber outerply edges available upon request; category A, B or neutral pressure					
Rails	Typical rails are 1/2" to 3/4" on top and 1-1/2" on bottom, construction may include lumber, treated lumber or laminated construction as required by fire door procedures for the application and options					
Reinforcements	Optional 5" x full core width top and bottom reinforcing, 5" x 10" standard latchcase and bolt reinforcing, or blocking as specified					
Faces	All available domestic and foreign veneers - medium density overlays (MDO), and high pressure laminate and vinyl.					
Crossbands	Min. 1/16" high density fiberboard					
Vision Panels[6,7] Veneered Wood Bead	Up to 1296 sq. in./max. 36" wide, max. 54" high[5] - special construction glass can be up to 1714 sq. in./max. 36" wide, max. 86-1/2" high. Factory glazing recommended to comply with new NFPA 80 standards.	Up to 1296 sq. in./max. 36" wide, max. 54" high[5]. Factory glazing recommended to comply with new NFPA 80 standards.				
Louvers	Up to 24" x 24"[9] (not available in doors used as means of egress)					
Latching Hardware	Cylinders, mortised, unit, or card locks; 5" backset and deadbolts available					
Hinges	Per NFPA 80 - butts, continuous hinges, pivots (electrical options available)					
Top & Bottom Bolts	N/A	Listed surface, manual extension (max. 24") & automatic bolts	N/A	Listed surface, manual extension (max. 24") & automatic bolts	N/A	Listed surface, extension (max. 24") & automatic bolts
Fire Exit Hardware	Listed and approved fire exit hardware, reinforced blocking options available for screw mounting (min. #10 x 1-1/2" sheet metal screws). No prep for surface mounted. LBR available.					
Closers, Stops, Holders	Listed surface mounted closers, concealed closers, and stops not exceeding 23-3/4" x 1-1/2" deep x 1-3/8" wide					
Drop Seals	Listed and approved					
Special Details	Cut for lite and louver openings[5]; install glazing and metal louvers[9]; applied moldings per approvals; stile & rail sketch faces for applied mouldings; wood veneer wrapped metal edges and rabbets; kickplates up to 48"; solid wood grillwork; reveals up to 3/8" wide and 3/8" deep					
Finish	UV-cured, primed, painted (MDO only), sealer, full sealer, catalyzed polyurethane, and opaque varnish					
Warranty	Life of installation - not suitable for exterior installations					
Standards	WDMA I.S. 1A, AWS Section 9 Edition 1, NFPA 252, UL 10B, UL 10C, NFPA 80					

1 Metal edges not required. **2** Full or partial height metal edges and/or astragals are optional with surface hardware or locks & flushbolts, but are not allowed with CVR hardware. **3** Spring bolts or metal stops required to secure the transom. **4** The bottom rail of rabbetted transoms will be edge banded. **5** Minimum margins from lite opening: 5-1/2" to door edge or adjacent lite openings, 3-1/2" to lock prep **6** Lites over 100 sq. in. require Fire-Resistive glazing to maintain temperature rise rating. **7** Veneer wrap available for metal vision panels. **8** Doors will be manufactured and labeled in accordance with procedures and product approvals established by and between Eggers Industries and Warnock Hersey or Underwriters Laboratories. **9** Minimum 10" margins from edge of louver opening to bottom of door recommended to comply with ADA **10** Divided lite bars for plastic laminate face doors will be painted.

SUGGESTED SPECIFICATIONS FOR DOORS WITH LITE OPENINGS

Note Regarding ADA

The minimum bottom rail dimensions below are based on fire and/or warranty requirements. It is the specifier's responsibility to determine the code requirements of his/her application. Where ADA compliance is required, doors must be ordered with 10" bottom rails.

Removable True-Divided Lite Grillwork

Removable true-divided lite grillwork is an innovative offering from Eggers Industries. It's a cost effective and practical alternative to traditional true-divided lites. The grillwork provides a high-end appearance without the need for high maintenance. It easily snaps in and out of door lite openings for effortless cleaning.

- Glass is held permanently in place with our standard lite bead.
- Minimum visible glass in each lite opening is 100 sq. in. with minimum dimension of 10" x 10".
- Grillwork is not available in curved profile or layout.
- Grillwork is suitable only with 1/4" glass.
- Interior use only, not available for exterior doors.
- Not available in fire-rated doors.
- Grillwork will be the same specie as the lite beads.
- Maximum lite size 80" high x 40" wide.

Non-Rated Full-Lite Doors

- 1-1/2" minimum between lock and lite cutout.
- 3" minimum between multiple lite cutouts
- True-divided lites available.
- Grillwork available to achieve aesthetics of a French door.
- 5-ply construction, SCL or stave core.
- Stiles bonded to core and sanded as a single unit.
- Standard edge strip is minimum 1" veneered SCL, solid lumber outerply edge available upon request
- Glass can be factory glazed or field glazed with glass type specified.
- 5" minimum stiles and rails to meet warranty requirement.
- Beadless lite construction available

20-Minute Full-Lite Doors

- 20-minute door utilizes clear glass that is fire- and safety-rated.
- 20-minute fire rating with visible lite up to 2,868 sq. in. (87-9/16" maximum height x 36" maximum width).
- 1-1/2" minimum between lock and lite cutout.
- 3" minimum between multiple lite cutouts.
- Factory glazing recommended on fire rated doors to comply with new NFPA standards.
- True-divided lites available - maximum cutout of 35-7/8" wide by 89-5/8" high (various layouts available/maximum dimension of a single pane of glass is 54").
- Solid wood grillwork available to achieve aesthetics of a French door.
- 5" minimum stiles and rails.
- 5-ply construction, SCL or stave core.
- Stiles bonded to core and sanded as a single unit.
- Standard edge strip is minimum 1" veneered SCL, solid lumber outerply edge available upon request
- Glass to be safety- and fire-rated.
- Beadless lite construction available

45-Minute Full-Lite Doors

- 45-minute fire rating with visible lite up to 1,714 sq. in. using Firelite Plus (86-1/2" maximum height x 36" maximum width).
- 3" minimum between lock and lite cutout.
- 6" minimum between multiple lite cutouts.
- Solid wood grillwork available to achieve aesthetics of a French door.
- 6" minimum top rails and side stiles. 10" minimum bottom rail.
- Reinforced face construction.
- Stiles bonded to mineral core and sanded as a single unit.





MATCHING FACES



Balance Match

- Each panel face is assembled from veneer leaves of uniform width before edge trimming.
- Panels may contain an even or odd number of leaves and distribution may change from panel to panel within a sequence set.



Center Match

- Each panel face is assembled of an even number of veneer leaves of uniform width before edge trimming.
- There is a veneer joint in the center of the panel producing horizontal symmetry.



Running Match

- Each panel face is assembled from as many veneer leaves as necessary.
- Results in a non-symmetrical appearance with some veneer leaves of unequal width.
- Often the most economical method at the expense of aesthetics.



Book Match

- Veneer joints match, creating a symmetrical pattern. Yields maximum continuity of grain.
- Prominent characteristics will ascend or descend across the match.
- Because tight side and loose side faces alternate in adjacent leaves, they reflect light and accept stain differently and this may yield a noticeable color variation, termed "Barber Pole." Barber Pole is not considered a defect.
- This effect may be minimized through the use of proper finishing techniques.



Slip Match

- Adjoining leaves are slipped out in sequence with all the same-face sides being exposed.
- The joint may not be noticeable if grain is straight.
- Figure repeats but grain does not match at joints.
- Produces a uniform color because all faces have a similar light reflection.
- A leaning effect may occur if the specie used does not demonstrate a straight grain.



Diamond Match



Sunburst

For additional information, please refer to AWS Quality Standards Edition 1, Section 4.









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Stile & Rail Doors, Door Frames, Plywood, Veneered Components

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Phone: 920.793.1351
Fax: 920.793.2958

Flush

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces, Custom Wood Products, Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.849.0444

Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supersede those in print.

The FSC® certification ensures responsible use of forest products. 202-08-14
Look for FSC certified products.







Eggers Industries

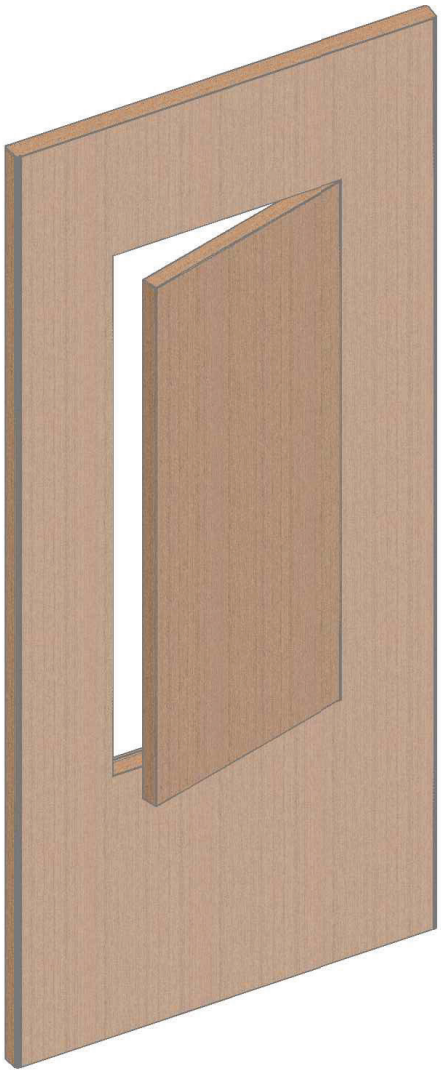
Introducing FLUSH DOORS for Behavioral Healthcare Facilities

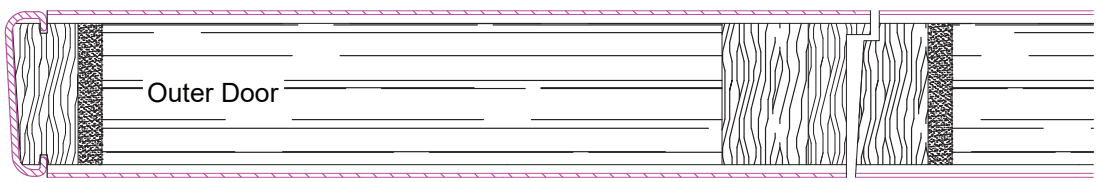
Doors in all healthcare environments are put to the test on a daily basis and behavioral healthcare facilities are no different. These doors must be designed with security, dependability and safety in mind.

Eggers' eiDoor® provides a beautiful, yet functional impact-resistant answer for these facilities. The addition of a wicket or *"Door within a Door"*, can provide healthcare professionals access to the patient's room in case of an emergency.

With patient safety being a primary benefit to this new offering, this door is an excellent choice for:

- Behavioral Healthcare Units
- Hospitals & Surgery Centers
- Rehabilitation Centers
- Senior Living Residences
- Correctional Institutions





ENGINEERING SPECIFICATIONS	FLUSH DOORS with a Wicket for Behavorial Healthcare Facilities	
	Non-Rated	**20-Minute**
Max. Size	4' x 8'	
Thickness	1-3/4"	
Core	Structural composite lumber (SCL), FSC® certified structural composite lumber	
Transoms	N/A	
Stiles	Solid lumber edges for removable edge construction; veneered structural composite lumber for fixed vinyl or veneer-banded edges	
Rails	No-rail construction is standard for SCL	
Faces	Inpro IPC® Rigid Sheet (PVC) and G2 BioBlend® (non-PVC) - 0.40" (1mm) standard thickness All domestic and foreign veneers, medium density overlay (MDO), and high pressure laminates are also available.	
Crossbands	1/11" high density fiberboard	
Wicket Specifications	• Wicket size determined by hardware, lites and edge margins • Location will be centered in the door • 10" minimum bottom rail required • 1/4" by 1/4" rabbet • Inside edges of cutouts will be painted/stained to match	
Lites	• Lites allowed based on minimum cutout dimensions between lite and wicket • 6" required between lite and wicket • 6" minimum stiles - 1-1/2" required between lock and lite cutout • 10" bottom rail required • Inside edges of cutouts will be painted/stained to match	
Louvers	N/A	
Latching Hardware	Cylinders, mortised, unit or card	
Hinges	Per NFPA 80 - butts, continuous hinges, pivots (electrical options available)	
Flushbolts	N/A	
Fire Exit Hardware	N/A	
Closers, Stops, Holders	Listed surface hardware or concealed hardware having mortise up to 23-3/4" x 1-1/2" x 1-3/8"	
Drop Seals	Listed and approved surface, semi-mortised or mortised	
Finish	Veneered and Paint Grade Doors: UV-cured, primed, painted (MDO only), sealer, full sealer, catalyzed polyurethane and opaque varnish	
Warranty	Life of installation (interior)	
Standards	WDMA I.S. 1A, AWS Section 9 Edition 2, NFPA 252, UL 10B, UL 10C, NFPA 80	

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Fax: 502.845.0615

SOUNDWOOD ACOUSTICAL PRODUCTS

Eggers Industries melds technology with style to produce beautiful, high-performing acoustical doors and frames.

Eggers Industries

Soundwood™
ACOUSTICAL WOOD PRODUCTS BY EGGERS



Turning nature's beauty into works of art



SOUNDWOOD ACOUSTICAL PRODUCTS

Eggers' sound control openings have the highest STC ratings in the industry, made of solid wood and wood composite based materials. Our capabilities allow combinations of acoustical performance and other special functionalities to meet design requirements and building codes. Eggers' STC doors and frames are found in airports, healthcare, and hospitality facilities, government and municipal buildings as well as educational institutions. Typical applications of our acoustical doors and frames include performance venues, conference rooms, lecture halls, auditoriums, and classrooms.

Our acoustical products include doors and frames that have been evaluated for sound transmission at a qualified testing laboratory using ASTM standard test method E-90-XX (where XX refers to the year). To ensure applicable data, make certain the products you are specifying reference an acceptable revision date of the test method. Products tested with old standards may not provide the same level of performance as those tested with newer versions.

Acoustical Performance Testing Methods

There are two ways to test and report the acoustical performance of doors. The first is as a fixed panel. This is done by fully sealing the door to frame perimeter and eliminating any sound leaks around the door perimeter. This type of test is helpful in determining the performance of the basic construction, but does not represent an operational application.

The second method is to test an operable assembly. In this case, the door is installed in a frame, including hinging and latching hardware as well as a gasketing system. In addition to including all of the required components of an operable assembly, the test method requires the door be operated normally through five open/close cycles, without subsequent adjustments, prior to running the acoustic test. This test method provides more useful performance values than an inoperable test. When comparing STC ratings, be sure that the ratings represent operable doors. While Eggers conducts research and development tests of many of our constructions as sealed panels, the advertised STC numbers are always for operable assemblies.

Eggers has generally limited the variables tested to the door construction, application and the gasketing system. With a few notable exceptions shown on our product matrix, we have limited our testing to readily available hardware and gasketing materials, ADA approved thresholds (where applicable), and steel frames. A special note regarding frames is appropriate here. Where steel frames are used in testing, they are normally fully grouted with cement. This is a standard method of installation at testing laboratories and is done to insure the resulting STC rating represents only the doors and gasketing system. This is not meant to restrict the openings in which acoustic doors are used. In many circumstances, existing frames or installation conditions may prevent the use of a solid filled frame. Where other types of fill are used, an acoustic consultant should be employed to determine if the alternate fill will maintain the desired acoustic performance for the opening. As long as the framing provides an acoustic performance equal or greater than the door rating, the advertised STC will be maintained.

The relevance chart below is given as a general guideline of the effect various STC ratings have on speech being heard through the door.

Advantages of Eggers Acoustic Doors

Eggers has conducted acoustic tests on all of our standard door constructions. In many cases where the acoustics properties need to be known, but are not the primary objective, gasketing a standard door construction may be all that is required. When the project design requires acoustic performance above and beyond the standard doors, Eggers has designed and tested a full line of specialty constructions. Benefits offered by this broad range of products include:

STC Rating	Speech heard through the door
30	Loud speech can be understood fairly well
35	Loud speech audible but not understandable
40	Loud speech audible as a murmur
45	Loud speech barely audible
50	Loud speech not audible

- STC ratings ranging from 38 through 52
- Applications that include single swing, standard swing pairs, doors and transoms and dutch doors
- Acoustic rating for both flush doors and stile and rail doors.
- Applications without lites, with small lites (100 sq. in.), medium sized lites (400 sq. in.), large lites (1296 sq. in.) and even full lites
- Applications with 20-minute, 45-minute, 60-minute, and 90-minute fire ratings
- Applications that provide x-ray protection as well as acoustical performance
- Applications tested in wood frames
- Applications for airport housing noise abatement programs

Specialized Constructions

A variety of components are used to provide the performance range of our acoustic products, alone or in combination with applicable fire, bullet-resistance, and X-ray protection. These components make 4' x 8' the practical maximum door dimension. Contact the technical department for applications requiring larger doors.

Guaranteed STC Ratings

The STC rating of acoustic doors depends on two things: the components used (doors and gasketing) and their installation. While Eggers does not perform installation, we are still able to guarantee our doors meet the advertised STC ratings when properly installed using the door construction, hardware, seals, and where applicable, the lites described in our STC Product Offering Matrix. This guarantee is given with confidence because of the stringent tests we conduct on all acoustic assemblies. The Eggers name alone is your assurance of the highest standards possible.

While we encourage use of these tested assemblies, we also recognize the need for substitutions such as a different type of glazing or alternate gasketing. In such cases where there is no test report for the final assembly, Eggers will provide the same door construction used for the tested assembly, but without a “guaranteed” STC rating. This allows for increased design flexibility starting with a proven door construction. We recommend the use of an acoustic consultant to review the final assembly whenever substitutions are made.

As stated above, the final performance depends heavily on the installation. The best acoustic doors will fail to meet expectations if they are improperly installed. Acoustic applications are special, they generally involve close tolerances that require square and plumb openings. The acoustic assemblies have been designed such that the seals are uniform between the door and the fixed elements of the opening. Do not expect an acoustic door to compensate for poor frame installation. It is better to fix the opening before installing the door. Likewise, insuring properly installed and adjusted gasketing will avoid remedial work. Extra time spent ensuring a good installation will pay off in superior quality sound control.

When gasketing an acoustic opening, a good analogy is to think about sealing out sound like you would seal out light in a dark room. Wherever light can leak through the opening, so will sound. A simple field test after the assembly is fully installed is to close the door, turn out the lights on one side of the door and, after allowing your eyes to adjust to the darkness, inspect the seals for light leaking through the assembly. To further aid in this test, have someone shine a bright light around the perimeter on the opposite side as you inspect for leaks. Preventing or solving installation issues will address over 95% of unsatisfactory acoustic assemblies.

STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Single Swing	52	1-3/4"	NR	S or T	NA	---	---	12.0	C5765.03	SG14
	51	1-3/4"	NR	S, T, or U	NA	---	---	12.0	C5765.03	SG14
	51	2 1/4"	20	A	NA	---	---	15.8	TL94-37	SG6
	50	1-3/4"	NR	S, T, or U	NA	---	---	12.0	C5765.03	SG14
	50	1-3/4"	NR	S or T	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C5765.04	SG14
	49	1-3/4"	NR	U	NA	---	---	12.0	C5765.03	SG14
	49	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	49	1-3/4"	NR	S or T	NA	---	---	10.5	"E1460.03-113-11-R0 C7672.03A"	SG16A
	48	1-3/4"	NR	S, T, or U	NA	---	---	10.5	"E1460.03-113-11-R0 C7672.03B"	SG16A
	48	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	48	1-3/4"	20	A	NA	---	---	13.7	TL97-320	SG5
	48	2-1/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	15.8	TL95-350	SG6
	47	1-3/4"	NR	S, T, or U	NA	---	---	10.5	"E1460.03-113-11-R0 C7672.03A"	SG16
	47	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	47	2 1/4"	20	A	VP:110-D2	Pyroswiss / 1/2" Laminated	400 (max)	15.8	TL95-351	SG6
	47	1-3/4"	60-45	A	NA	NA	NA	15.7	TL03-023	SG8
	47	1-3/4"	60-45	S, T, or U	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	15.4	"E1460.05-113-11-R0 C7672.02K-113-17-R0"	SG8
	46	1-3/4"	NR	S, T, or U	NA	---	---	10.5	"1460.03-113-11-R0 C7672.03A"	SG16
	46	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	45	1-3/4"	20	A	NA	---	---	7.7	TL94-220	SG4
	44	1-3/4"	20	I	NA	---	---	7.7	TL10-134	SG4 (4)
	43	1-3/4"	NR	P	NA	---	---	7.9	100534284CRT-001k	SG4
	43	1-3/4"	20	A	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	100 (max)	7.7	TL03-020	SG4
	43	1-3/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	7.7	TL03-019	SG4
	43	1-3/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	13.6	TL03-022	SG5
	42	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	42	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	42	1-3/4"	NR	A	Bead: 107	1/2" Laminated	400 (max)	7.7	TL03-021	SG4
	42	1-3/4"	60-45	S	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	13.6	"E1460.06-113-11-R0 C7672.02M-113-17-R0"	SG13
	42	1-3/4"	60-45	T	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	13.6	"E1460.06-113-11-R0 C7672.02M-113-17-R0"	SG13

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STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Single Swing	41	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	41	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	41	1-3/4"	NR	B	Bead: 107	1/2" Laminated	400 (max)	6.5	TL03-012	SG3
	41	1-3/4"	NR	B	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	6.5	TL03-013	SG3
	41	1-3/4"	20	A	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	400 (max)	7.7	TL95-348	SG4
	41	1-3/4"	60-45	S or T	NA	---	---	13.6	"E1460.06-113-11-R0 C7672.02O-113-17-R0"	SG13
	41	1-3/4"	60-45	U	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	13.6	"E1460.06-113-11-R0 C7672.02N-113-17-R0"	SG13
	40	1-3/4"	45	S or T	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	7.6	"E1460.04-113-11-R0 C7672.02G-113-17-R0"	SG7
	40	1-3/4"	60-45	U	NA	---	---	13.6	"E1460.06-113-11-R0 C7672.02P-113-17-R0"	SG13
	40	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	40	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	40	1-3/4"	NR	M	Bead: 110	1-1/8" Non-Rated IGU	1296 (max)	6.7	TL10-141	SG3
	40	1-3/4"	20	B	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	400 (max)	7.7	TL95-347	SG4
	40	1-3/4"	90-60-45	C	NA	---	---	7.6	TL06-051	SG9
	39	1-3/4"	45	S	NA	---	---	7.6	"E1460.04-113-11-R0 C7672.02I-113-17-R0"	SG7
	39	1-3/4"	45	T	NA	---	---	7.6	"E1460.04-113-11-R0 C7672.02I-113-17-R0"	SG7
	39	1-3/4"	45	U	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	7.6	"E1460.04-113-11-R0 C7672.02H-113-17-R0"	SG7
	39	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	39	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	39	1-3/4"	90-60-45	I	NA	---	---	7.7	TL06-053	SG9
	38	1-3/4"	45	U	NA	---	---	7.6	"E1460.04-113-11-R0 C7672.02J-113-17-R0"	SG7
	38	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	38	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	38	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (max)	6.7	C7672.01B	SG3
	37	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (max)	6.7	C7672.01B	SG3
	37	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	37	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	37	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	Full Lite (min 47% of area)	5.9	TL05-052	SCL
	37	1-3/4"	60-45	I	VP: 115-L1	Firelite Plus / Leaded	100 (max)	10.3	TL05-126	SG13
	37	1-3/4"	20	I	Bead: 100	Firelite Plus	400 (max)	6.0	TL05-051	SG3
	36	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (max)	6.7	C7672.01B	SG3
	36	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	36	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	36	1-3/4"	20	P	NA	---	---	6.3	100534284CRT-001l	SG11

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STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Single Swing	36	1-3/4"	60-45	I	NA	---	---	10.2	TL05-125	SG13
	36	1-3/4"	20	N	NA	---	---	7.1	100534284CRT-001f	SG3
	35	1-3/4"	20	M	NA	---	---	10.0	TL10-142	BR3
	35	1-3/4"	90-60-45	U	NA	---	---	7.2	A5305.02-113-11	GC
	35	1-3/4"	NR	I	Bead: 107	1/2" Laminated	1296 (min)	6.2	TL10-138	PC
	35	1-3/4"	NR	O	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	7.3	TL10-144	SG11
	35	1-3/4"	20	I	NA	---	---	7.3	TL10-136	SG11
	35	1-3/4"	NR	I	NA	---	---	7.3	TL10-136	SG11
	35	1-3/4"	20	U	NA	---	---	7.3	TL10-136	SG11
	35	1-3/4"	NR	U	NA	---	---	7.3	TL10-136	SG11
	34	1-3/4"	NA	B	Bead: 107	1/2" Laminated	1296 (min)	6.2	TL10-138	PC
	34	1-3/4"	NA	I	LoPro IS	1/2" Laminated	400 (min)	6.1	TL10-135	PC
	33	1-3/4"	NA	I	Bead: 107	1/2" Laminated	400 (min)	6.1	TL10-133	PC
	33	1-3/4"	20	Q	NA	---	---	6.9	100534284CRT-001n	SCL
	32	1-3/4"	20	Q	NA	---	---	5.5	100534284CRT-001o 100534284CRT-001p	PC
	32	1-3/4"	20	I	NA	---	---	6.9	TL06-059	SCL
	32	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	6.9	TL06-059 & TL97-313	SCL
	32	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	6.9	TL06-059 & TL03-013	SCL
	32	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	6.9	TL06-059 & TL03-012	SCL
	32	1-3/4"	20	N	NA	---	---	6.9	100534284CRT-001b	SCL
	31	1-3/4"	20	I	NA	---	---	5.8	TL06-058, TL10-129	PC
	31	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	5.8	TL06-058 & TL97-313	PC
	31	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	5.8	TL06-058 & TL03-013	PC
	31	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	5.8	TL06-058 & TL03-012	PC
	31	1-3/4"	NR	N	NA	---	---	5.5	100534284CRT-001a	PC
	30	1-3/4"	20	I	NA	---	---	4.6	TL06-056	SLC
	30	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	4.6	TL06-056 & TL97-313	SLC
	30	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	4.6	TL06-056 & TL03-013	SLC
	30	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	4.6	TL06-056 & TL03-012	SLC
	29	1-3/4"	90-60-45	I	NA	---	---	4.4	TL06-057	MC
	27	1-3/4"	20	I	NA	---	---	4.9	TL07-035	AGR
	27	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	4.9	TL07-035 & TL97-313	AGR
	27	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	4.9	TL07-035 & TL03-013	AGR
	27	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	4.9	TL07-035 & TL03-012	AGR
Stylus	33	1-3/4"	20	I	NA	---	---	5.5	TL07-057	PC
	32	1-3/4"	20	I	NA	---	---	6.2	TL07-058	SCL
	31	1-3/4"	90-60-45	I	NA	---	---	4.3	TL07-059	MC

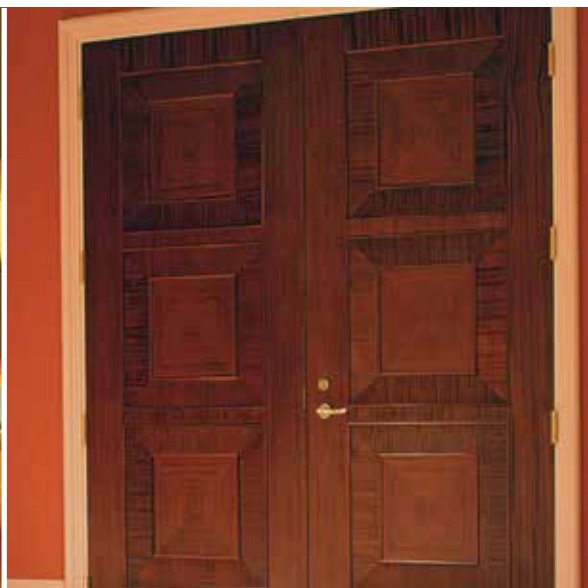
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STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Active-Inactive Pairs[1]	49	1-3/4"	20	A	NA	---	---	13.7	TL98-238	SG5
	44	1-3/4"	20	A	NA	---	---	7.7	TL98-236	SG4
	41	1-3/4"	20	B	NA	---	---	7.7	TL98-233	SG4
Flush Active-Active Pairs [2]	41	1-3/4"	20	K	NA	---	---	6.2	TL08-007	SG3
	40	1-3/4"	NR	K	Bead: 100	1/2" Laminated	400 (max)	6.3	TL08-009	SG3
	34	1-3/4"	45	K	VP: Lo-Pro IS	Superlite II-XL-45	Full Lite (min 47% of area)	6.5	TL11-111	MC
	31	1-3/4"	90-60-45	K	NA	---	---	7.2	TL11-110	GC
	31	1-3/4"	20	K	NA	---	---	6.4	TL11-112 TL11-113	SCL
Dutch Door	44	1-3/4"	20	A	NA	---	---	7.7	TL98-237	SG4
Door & Transom	44	1-3/4"	20	A	NA	---	---	7.7	TL98-237	SG4
Communicating	53	1-3/4"	20	B	NA	---	---	7.7	TL93-219	SG4
Stile & Rail Single Swing	40	1-3/4" (1-11/16")	NR	B	NA	---	---	8.3	TL99-120	SG12
	40	1-3/4" (1-11/16")	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	8.3	TL99-122	SG12
	39	1-3/4" (1-11/16")	NR	I	Bead: 110	1-1/8" Non-Rated IGU	1296 (max)	7.0	TL05-123	SG12
	38	1-3/4" (1-11/16")	NR	S or T	NA	---	---	7.6	"E1460.07-113-11-R0 C7672.02Q-113-17-R0"	SG12
	38	2 ¼" (1-7/8")	90-60-45	A	NA	---	---	12.5	TL97-321	MC
	37	1-3/4" (1-11/16")	NR	U	NA	---	---	7.6	"E1460.07-113-11-R0 C7672.02R-113-17-R0"	SG12
	37	2 ¼" (1-7/8")	90-60-45	B	NA	---	---	12.5	TL97-312	MC
	36	1-3/4" (1-3/4")	60-45	B	NA	---	---	9.7	TL97-317	MC
	33	1-3/4" (1-1/2")	20	B	NA	---	---	5.9	TL94-41	SCL
	33	2 ¼" (1-1/2")	20	B	NA	---	---	6.9	TL97-311	SCL
Stile & Rail Active-Active Pairs	37	1-3/4" (1-11/16")	NR	K	NA	---	---	7.9	TL11-109	SG12
	35	1-3/4" (1-3/4")	60-45	K	NA	---	---	10.2	TL11-108	MC
	32	1-3/4" (1-1/2")	20	K	NA	---	---	5.9	TL11-107	SCL

[1] Test was conducted as an active/inactive pair installation and requires Eggers' overlapping wood astragal.
[2] Test was conducted as an active/active pair with top latching surface hardware.







ACOUSTICAL GASKETING AND UNDERCUTTING		
Gasket System	**Components**	**Required Undercut**
A	Double row Pemko S-88 gasket, Pemko 434_ARL door bottom, Pemko 2005_AT threshold	1/2"
B	Double row Pemko S-88 gasket, Pemko 434_ARL door bottom	1/4"
C	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 2005_AT threshold	3/8"
I	Double row Pemko S-88 gasket, Pemko PDB411_AE door bottom	3/8" (1/4"-1/2")
K	Double row Pemko S-88 gasket and pad on frame, Pemko PDB411_AE door bottom, one row of Pemko S-1125 on each meeting edge	3/8" (1/4"-1/2")
M	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 151 flat threshold	3/8"
N	DHSI 105, DHSI AMDB3-3, & DP*	1/4"
O	Pemko 773, Pemko 234 door shoe, Flat smooth threshold	3/8"
P	DHSI 105, SA, CS, DP	3/8"
Q	DHSI 105, Pemko 2005_AT	3/8"
S	2008_APK Threshold, S44 and 312R	3/8"
T	2008_APK Threshold, S773 and S44	3/8"
U	Pemko PDB411_AE, S773, S44 and ACP112	3/8" (1/4"-1/2")

**DP375 is used for the Solid Wood Edge Option (SWE); DP250 is used for full width mortise or CS*





SOUNDWOOD ACOUSTICAL WOOD FRAMES

Eggers' acoustical wood jambs allow the beauty of our doors to be accented with matching wood frames designed to create a cohesive look metal frames cannot match. Create a masterpiece, knowing Eggers will work diligently to make your acoustical door and frame a perfect match. Available with an STC sound test report up to an STC 45, Eggers' two piece acoustical frame is sold exclusively in combination with Eggers' acoustical doors.

Elegant

Eggers' acoustical frames are available in virtually any veneer and finish color and offers quality control unparalleled in the acoustical wood door market. No longer is a metal frame with wood casing necessary for aesthetic appeal. Perfect for the grand entrance to a concert hall or the distinction of a boardroom, Eggers' acoustical wood frames complement our acoustical doors perfectly.

Functional

Eggers' STC doors and frames are found in healthcare and hospitality facilities, government and municipal buildings as well as educational institutions. Typical applications include performance venues, conference rooms, lecture halls, auditoriums, and classrooms.

Two Piece Acoustical Jamb Installation Instructions

Maximum Overall Opening	50-11/16" wide x 121-11/32" high (frame buck opening)
Maximum Door Opening	Single–4-0 x 10-0
Wall Depth	Minimum–4-7/8"
Wall Type	Wall must be constructed to meet the STC rating and lined with a wood stud for jamb attachment
Gasketing	Refer to gasketing installation instructions for the specific STC door rating selected from the STC Product Offerings chart

Note: Soundwood Acoustical Frames are veneer-wrapped and will maintain the opening rating with doors rated up to STC 45.

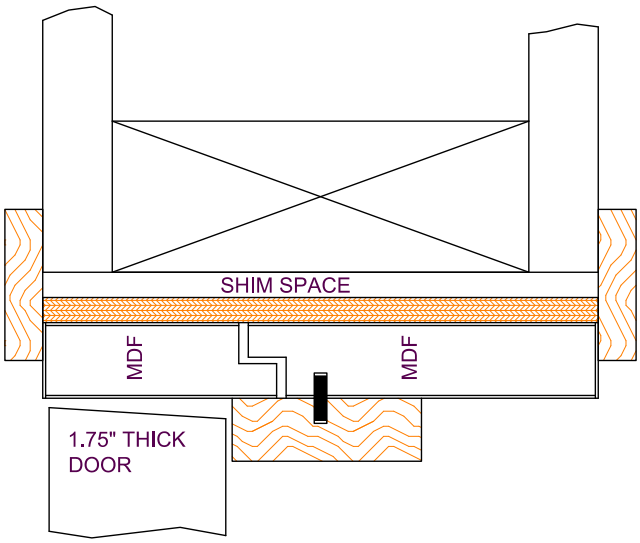
Door side of jamb is shimmed and installed first with #8 x 1-1/2" screws spaced a maximum of 4" from each end and 24" on center.

Stop side of jamb is then installed flush with the wall. Space in between the two jamb components is okay.

Attach stop side of jamb with #8 x 2" screws or 8d finishing nails spaced a maximum of 6" from the end and 24" on center. Fasteners can be located underneath the stop.

One #8 x 2" screw or 8d finish nail should be located at each hinge pocket and strike pocket on the door side of jamb before the hardware is installed.

Shim space is a maximum of 1/4" and must be tightly filled with fiberglass insulation



Flat Stop

Minimum 5/8" thick x 1-1/2" wide. Flat stops are installed with a 1/8" x 7/16" HDF spline and #4 finish nails or 18 gage x 1-1/2" long brads spaced maximum 4" from each end and 16" on center.

Casing

Minimum 3/8" thick x 1-1/2" wide. Casing is installed with minimum #4 finish nails spaced maximum 4" from each end and 16" on center and staggered.

ECOUSTICS

Acoustical Architectural Plywood



Plywood that looks beautiful and creates an environment that sounds great too. Eggers' acoustical plywood helps to reduce reverberation and noise pollution overall. Functionality and high-quality performance are matched with the beauty of an Eggers' plywood product.

SOUNDWOOD ACOUSTICAL PLYWOOD PANELS

Acoustical Performance Testing Methods

The Soundwood Ecoustics line of architectural plywood is tested differently from our acoustical door line. Two different values are captured:

- NRC–Noise Reduction Coefficient: a measure of how effective a material is at absorbing sound.
- SAA–Sound Absorption Average: the amount of sound absorbed by a surface finish.

There are two common mounting methods for plywood paneling, known as “A” mounting and “E” mounting. The “A” mounting is used to test wall panels. The “E” mounting is used to test ceiling panels and is typically given a three digit suffix, e.g. “E-400.” This represents the depth (in millimeters) of the sealed airspace behind the acoustical material tested. The “E” mounting method is typically used for acoustical ceiling tiles.

The ASTM C423 test standard is the standard test method for sound absorption and sound absorption coefficients by the reverberation room method.

All building materials have some acoustical properties that they will absorb, reflect, or transmit sound striking them. Conventionally speaking, acoustical materials are those materials designed and used for the purpose of absorbing sound that might otherwise be reflected. Sound absorption is defined as the incident sound that strikes a material and is not reflected back.

For the vast majority of conventional acoustical materials, the material thickness has the greatest impact on the material’s sound absorbing qualities. While the inherent composition of the acoustical material determines the material’s acoustical performance, other factors can improve or influence the acoustical performance. Incorporating an air space behind an acoustical ceiling or wall panel often serves to improve low frequency performance.





Installation Instructions

The manufacturers of the gasketing, door bottom, thresholds will generally provide a set of installation instructions with their components. In addition, Eggers has developed a set of installation instructions for each of the gasketing systems indicated in the product offering chart. This information is meant to augment those instructions.

Perimeter gasketing is intended to form a seal between the door leaf and the frame. Most of the systems used with Eggers doors include a double row of frame applied seals to accomplish this. If necessary due to installation clearances the seals allow a limited amount of re-positioning to assure adequate contact with the closed door.

Where used, raised thresholds should be adjusted and secured based on the position of the closed door. The threshold seal should make uniform contact with the door surface. Avoid excessive force between the door and threshold as this can hold the door away from the frame seals.

Auto door bottoms should be properly sized to the door width. Avoid undersizing them as this will prevent a good seal and allow sound to “leak” past.

There are several glazing options within Eggers approvals. Eggers recommends factory glazing of acoustic doors, where our controlled environment and installers familiar with the process can ensure proper sealing.

Where doors are to be field glazed, a good seal must be made between all of the components, regardless of the glazing system used. The best way to do this is with a small bead of 100% pure silicone. The seal does not have to be thick, but it must be continuous.

Eggers Industries
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Stile and Rail Doors, Door Frames, Plywood, Veneered Components

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Fax: 920.793.2958

Flush Doors, eiDoor®

Neenah Division
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Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces, Custom Wood Products, Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
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The FSC certification ensures responsible use of forest products. 301-08-15

Look for FSC certified products.

R08.17

FSC www.fsc.org FSC® C019991 The mark of responsible forestry

RAINFOREST ALLIANCE CERTIFIED

CERTIFIED QUALITY WOODWORK

Soundwood™

ACOUSTICAL WOOD PRODUCTS BY EGGERS

STC 49-52

The Highest Acoustical Ratings in the Architectural Wood Door Industry



Eggers Industries

High-Performance Acoustical Doors with Lites

Eggers is proud to offer the highest acoustical ratings in the industry but we are also thrilled to be able to provide you with options. The STC 49 and 50 are available with a 100 sq. in. lite opening with standard lip wood bead.

This is a special construction 1-1/8" insulated glass unit that must be supplied and factory glazed by Eggers.

ENGINEERING SPECIFICATIONS	STC 49 and STC 50	
	STC 49	**STC 50**
Sizes	Min. 2'-0" x 6'-0" Max. 4'-0" x 8'0"	
Thickness	1-3/4"	
Frame	Grouted 16 gauge welded steel	
Stiles	Veneered stile meets Extra Heavy Duty WDMA I.S. 1A Performance Level	
Rails	Structural Composite Lumber Core (SCL)	
Faces	Wood Veneers	
Fire-Rating	N/A	
Lites	100 sq. in. - standard lip wood bead - 1-1/8" IGU	
Latching Hardware	Single point latch - cylindrical or mortise lock	
Hinges	Level swing - butt hinges	
Gasket System	U	S or T
Undercut	3/8"	3/8"
Test Report	C7672.01A	C5765.04
Weight Per. Square Foot	12.0	
LEED® Contributions	LEED® MR4 - Recycled Content, EQ4.4 No Added Urea-Formaldehyde	
Standards	ASTM E90, E413	





Principle Benefits and Features of these Constructions

- Highest STC-rated 1-3/4” wood doors available
- Available with automatic door bottom or raised threshold
- Fixed or adjustable frame seals available
- Includes 1/8” total lead thickness which provides x-ray protection
- Meets LEED® EQ 4.4 - Low-Emitting Materials, No Added Urea Formaldehyde
- True wood composite construction - U.S. Patent No. 8,573,357
- The standard constructions for these doors include a full width top block for screw attachment of surface mounted closers

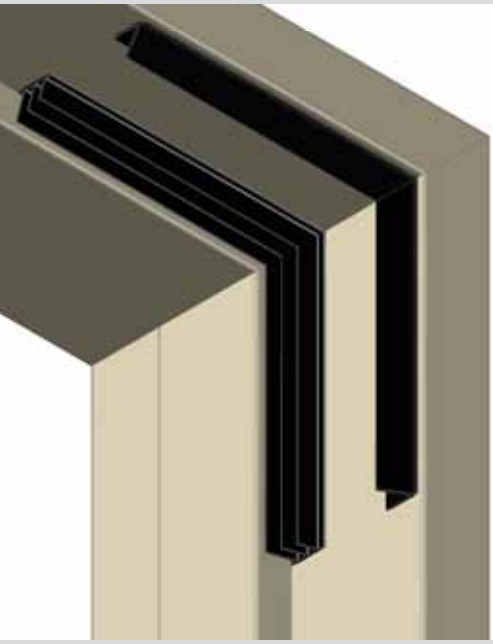
ENGINEERING SPECIFICATIONS	STC 51 AND STC 52	
	STC 51	**STC 52**
Sizes	Min. 2’-0” x 6’-0” Max. 4’-0” x 8’0”	
Thickness	1-3/4”	
Frame	Grouted 16 gauge welded steel	
Stiles	Veneered stile meets Extra Heavy Duty WDMA I.S. 1A Performance Level	
Rails	Structural Composite Lumber Core (SCL)	
Faces	Wood Veneers	
Fire-Rating	N/A	
Lites	N/A	
Latching Hardware	Single point latch - cylindrical or mortise lock	
Hinges	Level swing - butt hinges	
Gasket System	U	S or T
Undercut	3/8”	3/8”
Test Report	C5765.03	
Weight Per. Square Foot	12.0	
LEED® Contributions	LEED® MR4 - Recycled Content, EQ4.4 No Added Urea-Formaldehyde	
Standards	ASTM E90, E413	

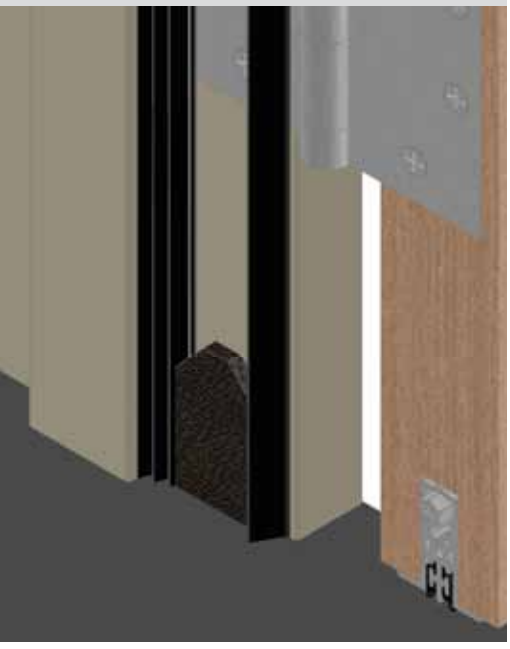




GASKET SYSTEM U

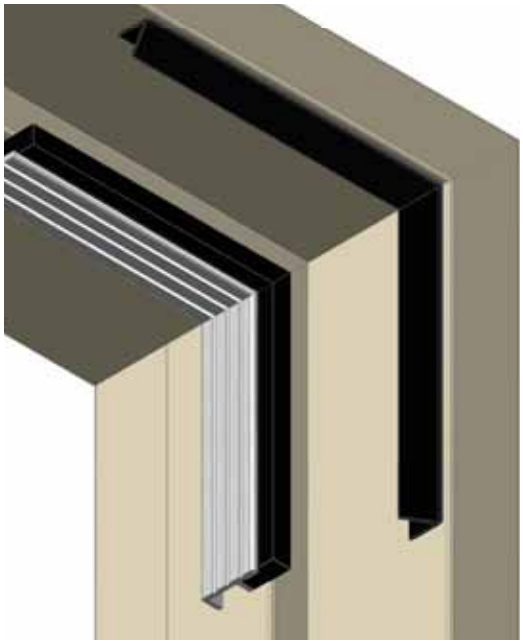
Pemko S44, Pemko S773, Pemko ACP112 and Pemko 411 auto door bottom





GASKET SYSTEM S

Pemko S44, Pemko 312CR with ER9, and Pemko 2008 STCxQ380 raised threshold

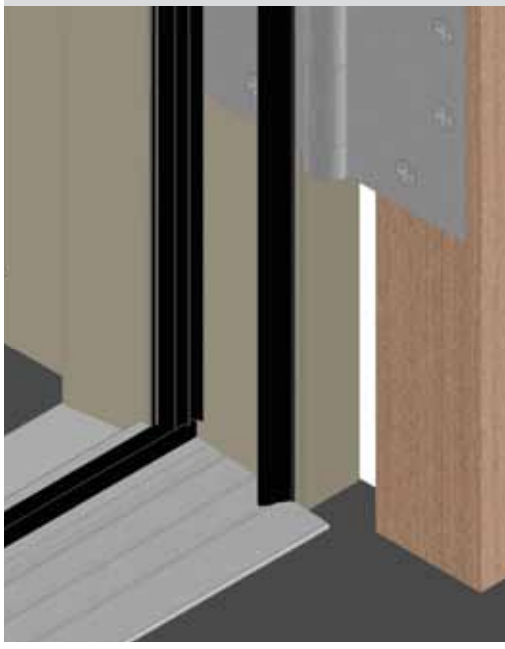




GASKET SYSTEM T

Pemko S44, Pemko S773 and Pemko 2008STCxQ380 raised threshold





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BEADLESS LITE FLUSH DOOR

Resulting from a dedication to artistic craftsmanship, state-of-the-art technology, and a passion for innovation, Eggers' beadless lite flush door offers clean lines, a streamlined design and a modern touch to any project.

Eggers Industries







ENGINEERING SPECIFICATIONS	BEADLESS LITE FLUSH DOOR		
	20-Minute Single	20-Minute Pairs	Non-Rated
Max. Size	4’ x 10’	8’ x 10’ parallel and dbl. egress	4’ x 10’ (per leaf)
Thickness	1-3/4” - 2-1/4”		
Core	Particleboard, UF-free particleboard, FSC® certified particleboard, Stave, FSC certified stave, or structural composite lumber (SCL)		
Stiles	Veneered structural composite lumber, solid lumber edges available upon request		
Rails	No-Rail construction is standard for SCL; 1-1/8” for all other core types (multiple-ply optional)		
Reinforcements	Not required for extra heavy duty applications for SCL and stave core		
Faces	All available domestic and foreign veneers, medium density overlay (MDO) and vinyl		
Crossbands	1/11” high density fiberboard		
Lites	Up to 1296 sq. in. standard, SCL, and stave core available with 2868 sq. in. Maximum 6” top rail; factory glazing required.		Size restricted only by min. margins Maximum 6” top rail; factory glazing required
Latching Hardware	Cylinders, mortised, unit, or card locks; 5” backset and deadbolts available		Most available latching hardware
Hinges	Per NFPA 80 - butts, pocket pivots, continuous hinges, pivots (electrical options available)		
Flushbolts	N/A	Automatic corner or extension bolts up to 36”	Corner or extension bolts up to 48”
Exit Hardware	Rim, surface vertical rod (full or top rod only), and fire exit hardware		
Closers, Stops, Holders	Listed surface hardware		
Drop Seals	Listed and approved surface, semi-mortised or mortised		
Special Details	Machining for hardware; installation of lites; sketch faces; applied moulding; kickplates; reveals; solid grillwork and divided lites		
Finish	UV-cured, primed, sealer, full sealer, catalyzed polyurethane and opaque varnish		
Warranty	Life of installation - not suitable for exterior installation		
Standards	WDMA I.S. 1A, AWI Section 1300 8th Edition, NFPA 252, UL 10C, NFPA 80		

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The FSC® certification ensures responsible use of forest products. 04-12
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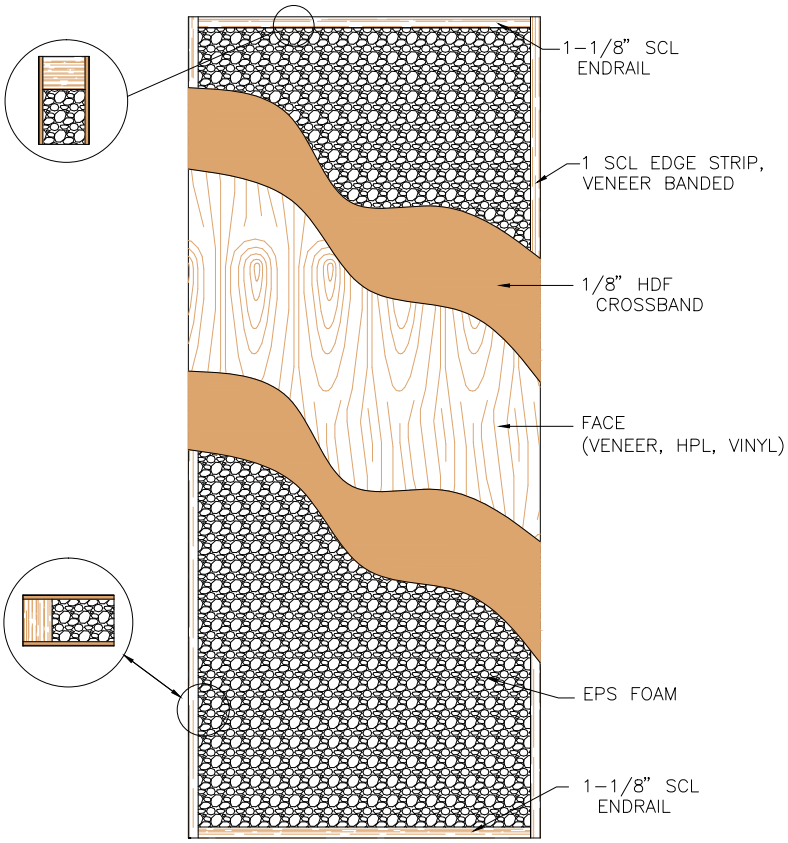
The Classic Beauty of an Eggers' Door in a Lightweight Construction...

Foam Core Doors

Eggers Industries



Eggers' Foam Core door is everything you would expect from an Eggers door...high-quality, innovative, and stunning. What you might not expect is its lightweight construction, creating an ease of use and flexibility standard weight doors cannot match.



Perfect for office systems, assisted living centers, sliding doors, or unique applications such as yachts. Eggers' Foam Core doors put less stress on the frame opening, are easier to move and install, and contribute towards LEED credits, all while offering the same beauty and style of Eggers' traditional wood core doors.

For more information or pricing on our Foam Core door offerings, please contact us at 920.722.6444 or visit www.eggersindustries.com.

ENGINEERING SPECIFICATIONS	NON-RATED FOAM CORE DOORS	
Max. Size[1]	3' x 7' at 1-3/8" thickness	4' x 10' at 1-3/4" or 2-1/4" thickness
Core	Modified EPS Foam Core	
Weight	2.7 lbs. per square foot	
Stiles	1" structural composite lumber with matching or compatible veneered edges; solid lumber edges available	
Rails	1-1/8" structural composite lumber	
Reinforcements	Wide stiles, rails and blocking as requested or required	
Faces	All available domestic and foreign veneers; HPDL, MDO and Vinyl	
Crossbands	1/8" HDF	
Lites	Max. height 36"; one cutout per door; requires special liner built into core; 6" lite-lock margins from lite or lock cutout	
Latching Hardware	Most latching hardware allowed	
Hinges	Butt hinges; pocket pivots, continuous hinges	
Flushbolts	Automatic corner or extension bolts up to 36"	
Exit Hardware	Rim, surface vertical rod (full or top rod only), and concealed vertical rod exit hardware	
Closers, Stops, Holders	Concealed and surface hardware	
Drop Seals	Surface, semi-mortised or mortised	
Special Details	Machining for hardware; installation of lites; sketch faces (same both faces); solid wood grillwork and divided lites, shallow (3/64") reveals	
Finish	UV-cured, primed, sealer, full sealer, catalyzed polyurethane and opaque varnish	
Warranty	One year from date of original installation - not suitable for exterior installations	
LEED Contributions	MR 4: Recycled Content; EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde	

[1]Other sizes and thicknesses may be available with additional engineering and lead time

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FSC® Mix 100% Certified Wood Doors

Eggers Industries

Maximize your FSC Certified Wood Contributions with Eggers' FSC Certified Flush Wood Doors



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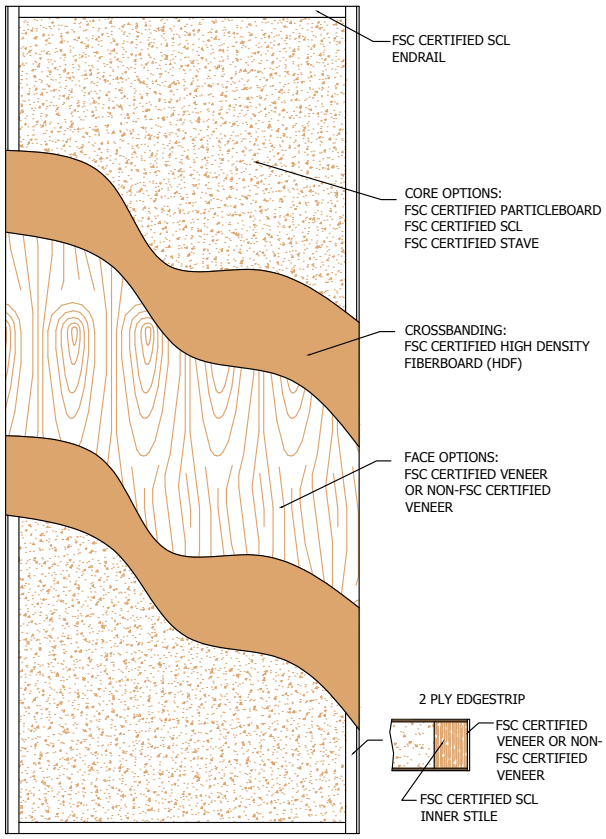
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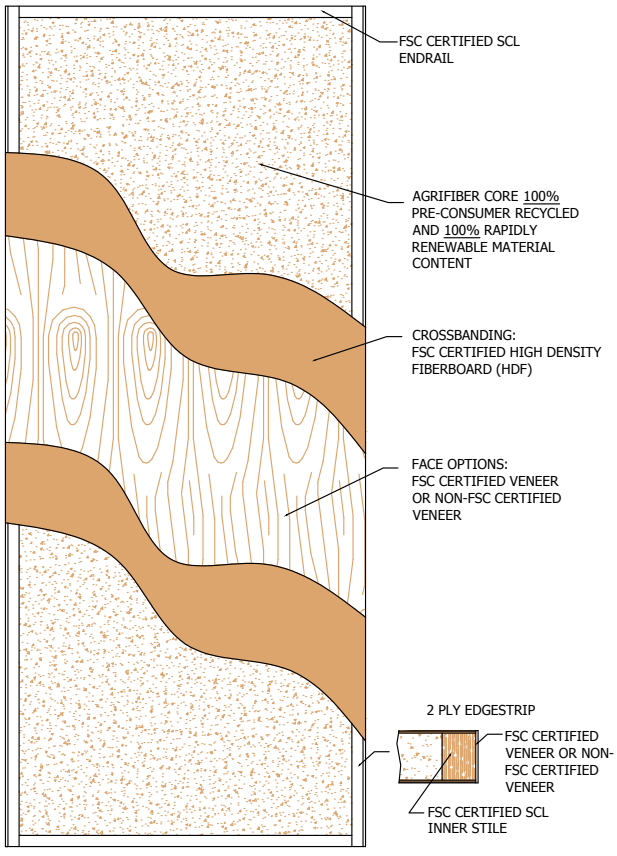
FSC CERTIFIED CORE DOOR WITH FSC CERTIFIED COMPONENTS

- FSC MIX 100% CERTIFIED NEW WOOD W/ FSC CERTIFIED VENEER
- FSC MIX 97% CERTIFIED NEW WOOD W/ NON-FSC CERTIFIED VENEER
- COMPLIES WITH LEED EQ 4.4 LOW-EMITTING MATERIALS (NAUF) AND CARB PHASE 2



AGRIFIBER CORE DOOR WITH FSC CERTIFIED COMPONENTS

- FSC MIX 100% CERTIFIED NEW WOOD W/ FSC CERTIFIED VENEER
- FSC MIX 85% CERTIFIED NEW WOOD W/ NON-FSC CERTIFIED VENEER
- 70% PRE-CONSUMER RECYCLED CONTENT
- 70% RAPIDLY RENEWABLE MATERIAL CONTENT
- COMPLIES WITH LEED EQ 4.4 LOW-EMITTING MATERIALS (NAUF) AND CARB PHASE 2



- **Particleboard, SCL and stave lumber cores, wood components and crossbanding are all available as FSC certified.**
  - ◇ **Eggers' FSC certified core with FSC certified face veneer results in a FSC Mix 100% certified flush door.**
  - ◇ **Eggers' FSC certified core with non-FSC certified face veneers results in a FSC Mix 97% certified flush door.**
- **Eggers' Agrifiber core door manufactured with FSC certified wood components and FSC crossbanding are now available.**
  - ◇ **This construction with FSC certified face veneer results in a FSC Mix 100% certified flush door.**
  - ◇ **This construction with non-FSC certified face veneer results in a FSC Mix 85% certified flush door.**

Please Note:

- FSC certified percentages are based on veneered edge construction only.
- 97% FSC certified new wood based on 3'0" x 7'0" door size. Other sizes may vary slightly.
- FSC certified SCL core option does not require endrails. The FSC certified new wood percentage is the same as the other FSC certified core options.
- FSC certified core constructions do not contain recycled materials and no longer contribute to LEED MR credits.

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Eggers Industries

Eggers Industries

Soundwood™
ACOUSTICAL WOOD PRODUCTS BY EGGERS

FSC® Certified Acoustical Doors

LEED® MR7–Eggers offers FSC Certified wood with acoustical doors. The chart below indicates our STC 33-42 are available with FSC certification and can be ordered as non-rated or with a 20-minute fire-rating.

Benefits in choosing FSC certified acoustical doors are:

- Lead-free construction
- Lite capability
- Less than 8# per square foot in weight
- LEED EQ4.4–no added urea-formaldehyde available
- Meets SCS Indoor Advantage Gold certification

STC PRODUCT OFFERINGS				STC RATING BY DOOR TYPE AND ATTRIBUTES					
STC Rating	Door Thickness	Max. Fire Rating	Gasket System	Glazing System	Glazing Type	Glazing Area Sq. In.	Weight Per Sq. Ft.	Test Report	Product
42	1-3/4"	20	U	N/A	-	-	7.1	C5765.01	SG3
42	1-3/4"	20	P	N/A	-	-	7.1	100534284CRT-001j	SG3
41	1-3/4"	NR	B	Bead: 107	1/2" Laminated	400 sq. in. (max.)	6.5	TL03-012	SG3
41	1-3/4"	NR	B	Bead: 110	1-1/8" Non-Rated IGU	400 sq. in. (max.)	6.5	TL03-013	SG3
40	1-3/4"	NR	M	Bead: 110	1-1/8" Non-Rated IGU	1296 sq. in. (min.)	6.7	TL10-141	SG3
38	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 sq. in. (min.)	6.7	C7672.01B	SG3
37	1-3/4"	20	I	Bead: 100	Firelite Plus	400 sq. in. (max.)	6.0	TL05-051	SG3
36	1-3/4"	20	N	N/A	-	-	7.1	100534284CRT-001f	SG3
36	1-3/4"	20	P	N/A	-	-	6.3	100534284CRT-001l	SG11
35	1-3/4"	20	O	Bead: 110	1-1/8" NR IGU	400 sq. in. (min.)	7.3	TL10-136	SG11
35	1-3/4"	20	I	N/A	-	-	7.3	TL10-142	SG11
34	1-3/4"	20	Q	N/A	-	-	6.3	100534284CRT-001m	SG11
33	1-3/4"	20	N	N/A	-	-	6.3	100534284CRT-001d 100534284CRT-001e	SG11

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FSC www.fsc.org FSC® C019991 The mark of responsible forestry

Rainforest Alliance Certified

Certified Architectural Woodwork Institute Quality Woodwork

EGGERS' GREEN CAPABILITIES

Eggers' expertise in sustainable practices can help contribute towards green building credits for nationally recognized environmental building programs.

Eggers Industries



Turning nature's beauty into works of art

ARCHITECTURAL DOORS, PANELING AND VENEER MATCHING

Conserving our natural resources is as much an honor as it is a responsibility at Eggers Industries. It's a philosophy and a practice that echoes throughout Eggers.



We are certified by the Rainforest Alliance to manufacture products in accordance with the Forest Stewardship Council™(FSC®) standards. Our commitment to our customers and the environment is not only a guarantee of high-quality, custom wood products, but also a promise of credits toward the Leadership in Energy and Environmental Design (LEED®) program.

- Eggers offers agricultural fiber based particleboard as well as FSC certified structural composite lumber core, stave, and particleboard core types for flush doors.
- As an FSC Chain of Custody Certified Supplier by the Rainforest Alliance, all FSC certified materials meet or exceed requirements set by the FSC. These products come from managed forests that exercise selective harvesting.
- Eggers can provide you with FSC certified wood doors, frames and architectural plywood panels within one facility. Custom applications also include ceiling tiles and office components.
- Eggers' UV cured finishing system consists of water-based stains and 100 percent solid clear coats that are free of Volatile Organic Compounds (VOC).

In addition to providing sustainable manufacturing, Eggers follows environmentally-conscious practices as a company. Recycling is a primary focus at Eggers, both in our offices and our plants. We also harness energy from waste materials to heat our facilities.

LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED®)

The United States Green Building Council (USGBC) developed LEED as a set of guidelines to provide a national standard for green building design. It's the most recognized rating system for evaluating environmental performance of commercial, institutional, governmental and high-rise residential buildings. The information provided here is based on LEED 2009-NC. You can learn more about LEED by visiting their website at usgbc.org.

Green Design incorporates design and construction practices to greatly reduce or eliminate the negative impact of buildings on the environment and occupants through:

- Sustainable site planning
- Safeguarding water and water efficiency
- Energy efficiency
- Conservation of materials and resources
- Indoor environmental quality

The LEED program is a certification process to provide a sustainability rating system. Eggers' architectural wood doors, panels and other products can assist building owners and design teams toward certification by contributing to points in the **Materials & Resources** category, as well as **Indoor Environmental Quality.** Depending on the number of points earned, the buildings can achieve Certified (40-49 points), Silver (50-59 points), Gold (60-79 points) or Platinum (80+ points) status.

LEED-2009-NC Rating System

Credits		Points
17	Sustainable Sites	**26**
4	Water Efficiency	**10**
8	Energy and Atmosphere	**35**
8	Materials and Resources	**14**
22	Indoor Environmental Quality	**15**
4	Design Process and Innovation	**10**
	Total Points Possible	**110**

Due to recent changes in FSC regulations, your company may be required to complete certification through an FSC agency. Please contact USGBC for additional information.

LEED® OPPORTUNITIES AVAILABLE WITH EGGERS' PRODUCTS

EGGERS' FLUSH DOORS[1]		MR 4: Recycled Content[3]	MR 6: Rapidly Renewable Materials	MR 7: Certified Wood[3]	EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]	Total Point Contribution with Eggers' Flush Doors
Particleboard Core		2				**2**
No UF Particleboard		2			1	**3**
FSC Certified Particleboard				1	1	**2**
Agrifiber		2	1		1	**4**
Agrifiber with FSC Certified Components		2	1	1	1	**5**
Stave Lumber		2			1	**3**
FSC Certified Stave Lumber				1	1	**2**
SCL		2			1	**3**
FSC Certified SCL				1	1	**2**
45-90 Minute Mineral Core		2			1	**3**
EGGERS' STILE & RAIL DOORS[1]		**MR 4: Recycled Content[3]**	**MR 6: Rapidly Renewable Materials**	**MR 7: Certified Wood[3]**	**EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]**	**Total Point Contribution with Eggers' S & R Doors**
SCL Core - Lite Door		2			1	**3**
SCL Core- Panel Options	Particleboard	2				**2**
	MDF	2				**2**
	No UF MDF	2			1	**3**
FSC Certified Stave Core - Lite Door		2		1	1	**4**
FSC Certified Stave Core - Panel Options	FSC Certified/No UF MDF	2		1	1	**4**
45-90 Minute - Lite Door		2			1	**3**
45-90 Minute Panel Options	Membrane	2			1	**3**
	Rim	2			1	**3**
EGGERS' DOOR FRAMES[1]		**MR 4: Recycled Content[3]**	**MR 6: Rapidly Renewable Materials**	**MR 7: Certified Wood[3]**	**EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]**	**Total Point Contribution with Eggers' Door Frames**
Lumber				1	1	**2**
MDF		2				**2**
No UF MDF		2			1	**3**
FSC Certified		2		1	1	**4**
90-Minute					1	**1**
EGGERS' PANELS[1]		**MR 4: Recycled Content[3]**	**MR 6: Rapidly Renewable Materials**	**MR 7: Certified Wood[3]**	**EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]**	**Total Point Contribution with Eggers' Panels**
Particleboard or MDF*		2				**2**
No UF Particleboard or MDF*		2			1	**3**
FSC Certified Particleboard or MDF		2		1	1	**4**
Veneer Core					1	**1**

[1] Additional point contributions may be available for MR #5.1 and MR #5.2 if the materials are extracted, harvested, recovered and manufactured within 500 miles of the jobsite and Eggers' manufacturing facilities. Contributions are contingent on the design and layout of the product in question. [2] The product construction is only urea-formaldehyde free if it is ordered as urea-formaldehyde free. The core is urea-formaldehyde free, but the doors need to be constructed urea-formaldehyde free to contribute to this credit. [3] Per USGBC guidelines, the value of any content that contributes to MR #4 cannot be attributed to MR #7.0 calculation.* Only particleboard is available as UL Class A Label.

LEED® QUICK REFERENCE CHART FOR DOORS

Credit	Criteria	Intent
MATERIALS & RESOURCES		
4.0	**Recycled Content** 10 percent (post-consumer + 1/2 pre-consumer)	Increase demand for building products that incorporate recycled content materials, thereby reducing impact resulting from extraction and processing of virgin material
	Recycled Content 20 percent (post-consumer + 1/2 pre-consumer)	
5.0	**Regional Materials** 10 percent extracted, processed and manufactured regionally	Increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting indigenous resources and reducing environmental impact from transportation
	Regional Materials 20 percent extracted, processed and manufactured regionally	
6.0	**Rapidly Renewable Materials**	Reduce the use and depletion of finite raw materials and long-cycle renewable materials by replacing them with rapidly renewable materials
7.0	**Certified Wood**	Encourage environmentally responsible forest management
INDOOR ENVIRONMENTAL QUALITY		
4.4	**Low-Emitting Materials** Composite wood and agrifiber contains no added urea-formaldehyde	Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants





Eggers Industries

www.eggersindustries.com
sales@eggersindustries.com

Stile & Rail Doors, Door Frames, Plywood, Veneered Components

Two Rivers Division
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Phone: 920.793.1351
Fax: 920.793.2958

Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces, Custom Wood Products, Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.849.0444

Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supersede those in print.

The FSC certification ensures responsible use of forest products. 501-09-14
Look for FSC certified products.

FSC www.fsc.org FSC® C019991
The mark of responsible forestry

RAINFOREST ALLIANCE CERTIFIED

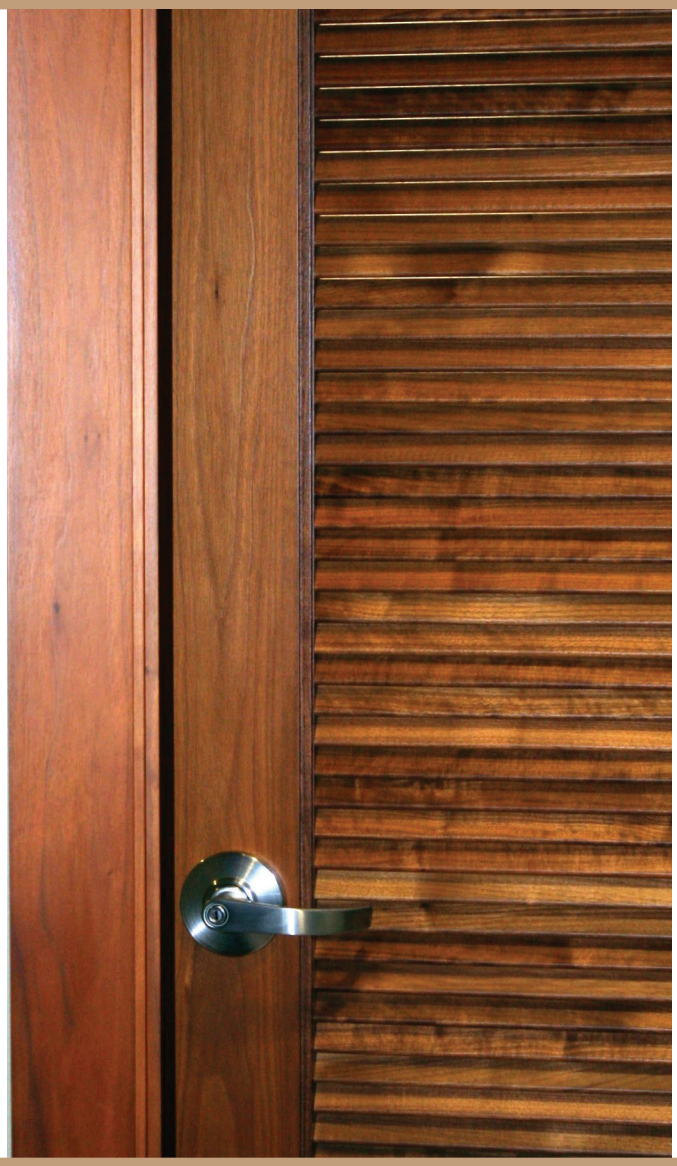
CERTIFIED ARCHITECTURAL WOODWORK INSTITUTE QUALITY WOODWORK

CERTIFIED INDOOR AIR QUALITY SCS GLOBAL SERVICES
INDOOR ADVANTAGE GOLD BUILDING MATERIALS

Eggers Industries

Louver OFFERINGS

Whether you call it a Louver or a Louvre, these architectural blinds or shutters are designed with horizontal slats to serve many purposes. They are angled to keep out light, preserve privacy or improve ventilation, all while creating an aesthetic effect to any architectural wood door.





Eggers' New Plantation Louver

Eggers Industries
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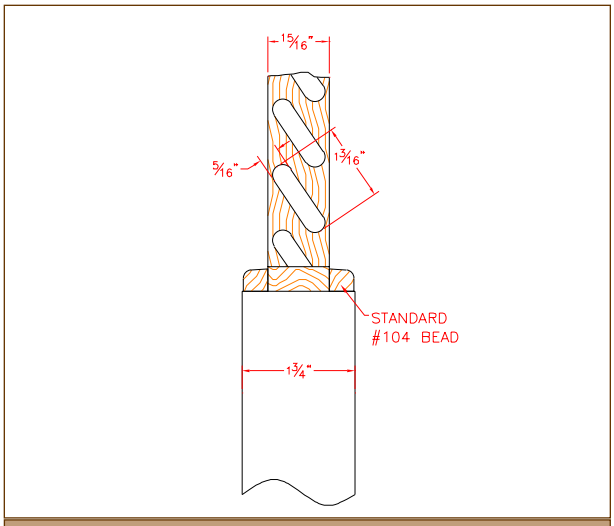
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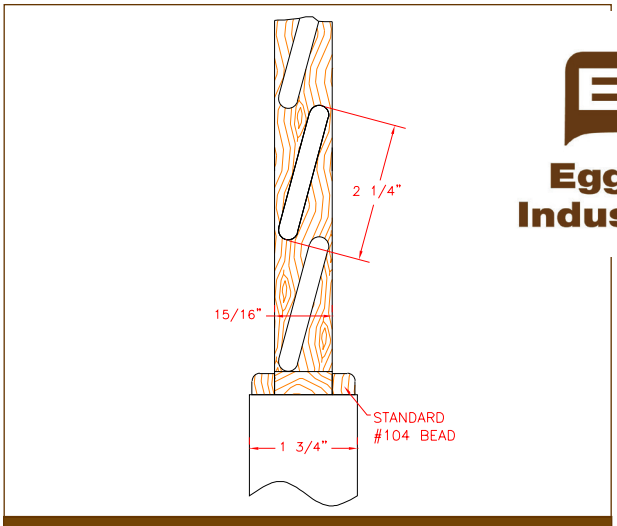
Kentucky Division
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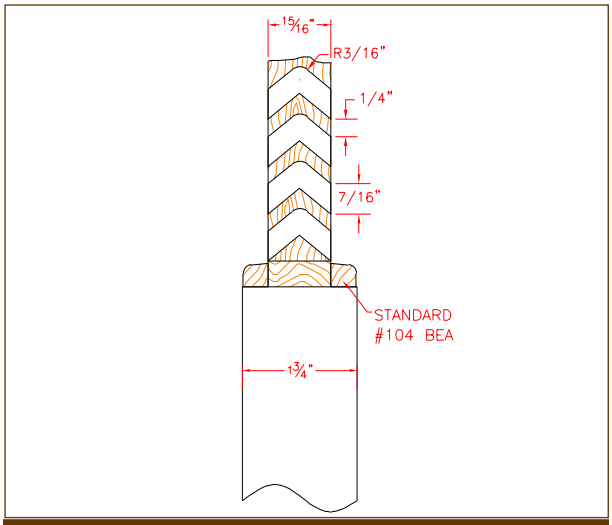
#109 Oval Slat[1,4]

24% Free Area



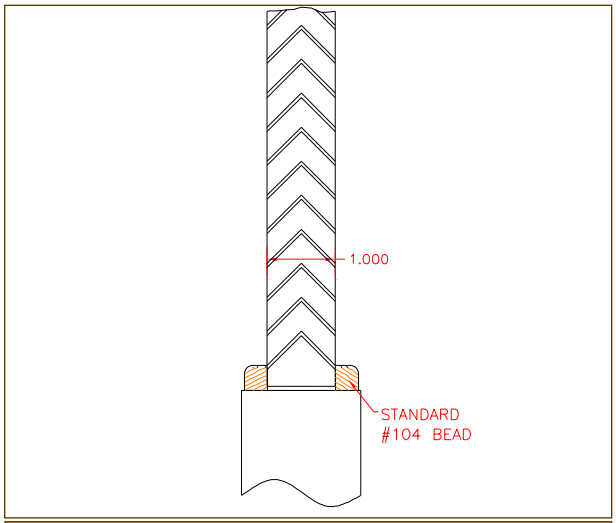
#110 Plantation Slat[1,4]

12% Free Area



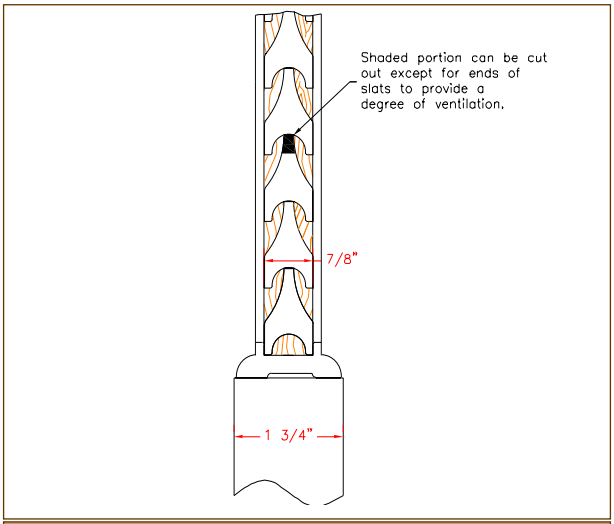
#111 Chevron Slat[2,3,4]

28% Free Area



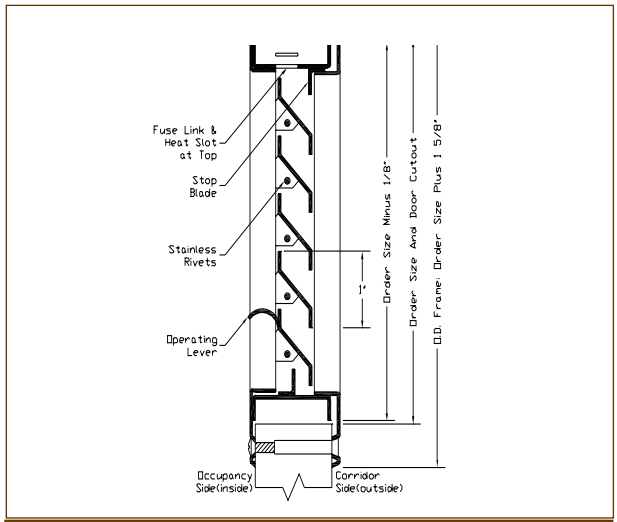
#112 Metal Louver with 104 Wood Beads

60% Free Area



#114 Wood Louver[4]

15% Free Area



Fusible Link Louver

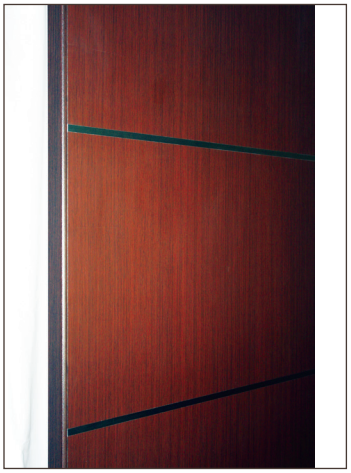
Please Note: [1]Wood louvers over 22" in width will have a center mullion. [2]Wood louvers over 19-15/16" in width will have a center mullion. [3]Eggers' standard is not to provide bead that covers up the center mullion unless requested. [4]Minimum width and length for wood louver openings is 6". Door thickness 1-3/4" or 2-1/4."

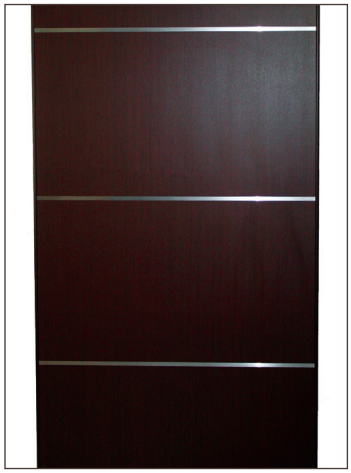
Eggers Industries

Mix the Old with the New

FLUSH DOORS WITH Metal Laminate Inlays







Veneered Faces
eiDoors®
Plastic Laminate
Paint Grade

you choose

ENGINEERING SPECIFICATIONS	FLUSH DOORS WITH METAL LAMINATE INLAYS		
	20-Minute Single	**20-Minute Pairs**	**Non-Rated**
Max. Size	4' x 10'	8' x 10' parallel and dbl. egress	4' x 10' (per leaf)
Thickness	1-3/4" - 2-1/4"		
Core	Particleboard, UF-free particleboard, FSC certified particleboard, stave, FSC certified stave, structural composite lumber (SCL), FSC certified structural composite lumber and agrifiber		
Max. Door & Transom Non-Rabbetted	4' x 14' (w/transom bar)	4' x 14' (w/transom bar)	4' x 14' with or without a transom bar or rabbeted
Stiles	Veneered structural composite lumber, solid lumber edges available upon request		
Rails	No-rail construction is standard for SCL; 1-1/8" for all other core types (multiple-ply optional)		
Reinforcements	Blocking for screw attached surface hardware required for agrifiber; not required for extra heavy duty applications for SCL and stave core or heavy duty applications with particleboard		
Faces	All available domestic and foreign veneers, medium density overlay (MDO), and high pressure laminates and vinyl.		
Inlay Options	Wilson Art #6284 Satin Brushed Copper Aluminum or #6277 Alumasteel™ Aluminum • Reveals widths of 1/4" to 3/4" wide available. • Rectangles or any combination of straight lines available. • Curved reveals or designs are not available. • Inlay will be installed flush with the door face.		
Crossbands	1/11" high density fiberboard		
Lites	Up to 1296 sq. in. standard, SCL, and stave core available with 2868 sq. in. Beadless lite construction available -- requires maximum 6" top rail and factory glazing. Factory glazing recommended to comply with new NFPA standards		Size restricted only by min. margins Beadless lite construction available-requires maximum 6" top rail and factory glazing
Louvers	Metal louvers up to 576 sq. in. where allowed by code		Wood or metal
Latching Hardware	Cylinders, mortised, unit, or card locks; 5" backset and deadbolts available		Most available latching hardware
Hinges	Per NFPA 80 - butts, pocket pivots, continuous hinges, pivots (electrical options available)		
Flushbolts	N/A	Automatic corner or extension bolts up to 36"	Corner or extension bolts up to 48"
Fire Exit Hardware	Rim, surface and concealed vertical rod (full or top rod only), and fire exit hardware		
Closers, Stops, Holders	Listed surface hardware or concealed hardware having mortise up to 23-3/4" x 1-1/2" x 1-3/8"		Listed surface hardware or concealed hardware having mortise 1-3/8" wide
Drop Seals	Listed and approved surface, semi-mortised or mortised		
Special Details	Machining for hardware; installation of lites and louvers; sketch faces; applied moulding; beadless lite construction; kickplates; solid wood grillwork and divided lites; raceways		
Finish	UV-cured, primed, painted (MDO only), sealer, full sealer, catalyzed polyurethane, and opaque varnish		
Warranty	Life of installation (interior)		
Standards	WDMA I.S. 1A, AWS Section 9 Edition 2, NFPA 252, UL 10B, UL 10C, NFPA 80		

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www.eggersindustries.com

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Architectural Veneer Faces, Custom Wood Products, Plywood

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Smithfield, KY 40068
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Fax: 502.845.0615

Eggers Industries

INTRODUCING MIRRORED FLUSH DOORS



REFLECT EXCELLENCE



FOUR OPTIONS TO CHOOSE FROM

Mirrored Flat Panel - Offering a similar appearance as other flat panel flush doors, the mirrored panel is secured into a cutout with beads. One or both surfaces can be mirrors.

Flush Mirror - The clean and modern appearance of this design has the mirror bonded into a mortise within the face. Available on one or both faces of the door.

Recessed Mirror - If you are looking for a flat panel design on one face and a mirror on the other - this option is for you. The mirror will be installed in a deeper face mortise and secured with mastic and/or glazing bead. Available on one face.

Surface-Applied Mirror - This option has the mirror bonded to the face of the door and then secured around its perimeter with overlapping applied molding. It is the most cost-effective option we offer. Please note that the mirror and molding will project from the face of the door. Available on one or both faces.

** All mirrored flush doors are non-rated and require structural composite lumber (SCL) core construction.

ENGINEERING SPECIFICATIONS	**MIRRORED Flush Doors**
	Non-Rated
Max. Size	4’ x 10’ (per leaf)
Thickness	1-3/4” - 2-1/4”
Core	Structural Composite Lumber (SCL)
Max. Door & Transom Non-Rabbetted	4’ x 14’ with or without a transom bar or rabbeted
Stiles	Veneered structural composite lumber, solid lumber edges available upon request
Rails	No-rail construction is standard for SCL
Faces	All available domestic and foreign veneers, medium density overlay (MDO), and high pressure laminates and vinyl.
Crossbands	1/11” high density fiberboard
Mirror Specifications	Mirrors are 1/4” with safety film
Latching Hardware	Most available latching hardware
Hinges	Per NFPA 80 - butts, pocket pivots, continuous hinges, pivots (electrical options available)
Flushbolts	Corner or extension bolts up to 48”
Fire Exit Hardware	Rim, surface and concealed vertical rod (full or top rod only)
Closers, Stops, Holders	Listed surface hardware or concealed hardware having mortise 1-3/8” wide
Drop Seals	Listed and approved surface, semi-mortised or mortised
Special Details	Machining for hardware; applied moulding; ; kickplates; raceways
Finish	UV-cured, primed, painted (MDO only), sealer, full sealer, catalyzed polyurethane, and opaque varnish
Warranty	Life of installation (interior)
Standards	WDMA I.S. 1A, AWS Section 9 Edition 2, NFPA 252, UL 10B, UL 10C, NFPA 80



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Eggers Industries

NO Auxiliary Fire Latch Construction

It is our goal at Eggers Industries to continue to provide you with new options for fire door construction. Our 60-90 minute fire doors no longer require auxiliary fire latches due to our new reinforced construction. This option is ideal for applications where a strike cannot be used in the floor.

ENGINEERING SPECIFICATIONS	No Auxiliary Fire Latches for 60- / 90- Minute Fire Door Pairs
Fire-Rating	60 and 90-minute only; Positive Pressure - Category A required (WHI Label Only)
Max. Size	Dbl. egress: 8’ x 8’ 1 or 2 lvs. active 8’ x 9’
Reinforcements	Optional 5” full core width top and bottom reinforcing, 5” x 10” standard latchcase and bolt reinforcing, or blocking as specified
Hinges	Per NFPA #80 - butts, continuous hinges, invisible hinges and pivots
Exit Hardware	SVR-LBR only
Closers, Stops, Holders	Listed surface mounted closers and stops only
Drop Seals	Listed and approved
Lites	N/A
Electric Hardware	N/A
Acoustical Capabilities	STC 31 (Active/Active Pairs) *
Warranty	Life of installation - not suitable for exterior installations

* STC 31 rating is available only when the door is ordered as acoustical.

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sales@eggersindustries.com
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Eggers Industries



Ordering your fire-rated doors with no auxillary fire latch can be done with ease by checking the "No Auxiliary Fire Latch (60/90)" checkbox on the 5-Ply Flush Quote Request Form.

Fire Rated Doors	
☐ Neutral Pressure	☐ Hollow Metal Frames
☐ Positive Pressure Category A	☐ Rated Aluminum Frames
☐ Positive Pressure Category B	☐ No Auxiliary Fire Latch (60/90)

Eggers Industries

Stile & Rail Doors, Door Frames, Veneered Components, Plywood

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PB (Particleboard)
SCLC (Structural Composit Lumber Core)
SLC (Stave Lumber Core)

SHC (Std. Hollow Core)
STC (Acoustical - Specify Rating)
LL (Lead Lined - Specify Thickness

M45 (mineral 3/4 Hour C)
M60 (mineral 1 Hour B)
M90 (mineral 1 1/2 Hour B)

Save Form & Submit Later | Submit Flush Request | Print Form

FLUSH DOOR - REQUEST FOR QUOTATION

Distributor Name:
Requested By:
Phone:
Fax#:
E-Mail:
To:
Quote Needed By: (Date/Time)
Job Name:
Job Location:
Delivery Date

Note:
All doors are 1-3/4" thick unless otherwise stated under 'Other Information/ Special Construction.'

Wood Veneer Faced Doors

Veneer Species or Specified Flitch Number

Face Veneer Grade	Face Veneer Cut	Match	Assembly
☐ A ☐ AA ☐ Paint	☐ Plain ☐ Quartered ☐ Rift ☐ Rotary	☐ Book ☐ Slip ☐ Random	☐ Run ☐ Balance ☐ Center Balance

Environmental Requirements	Fire Rated Doors	
☐ Certified Door	☐ Neutral Pressure	☐ Hollow Metal Frames
☐ Certified Veneer	☐ Positive Pressure Category A	☐ Rated Aluminum Frames
☐ LEED	☐ Positive Pressure Category B	☐ No Auxiliary Fire Latch (60/90)
AWI Quality Certification Program	**Vertical Edges**	**No Metal Edge Construction**
☐ Custom	☐ Compatible	☐ Yes
☐ Premium	☐ Matching	☐ No

WDMA Performance Standard
☐ Standard Duty
☐ Heavy Duty
☐ Extra Heavy Duty

Note: Eggers Industries uses only LD-2 board for particle core doors. This core meets the performance requirements of WDMA I.S. 1A-04 Heavy Duty, including screw withdrawal through the face.
Blocking is no longer required for screw-attached surface mounted hardware.

Light Openings
Non-Rated
☐ C/O Only ☐ Std. Flush Wood Bead
☐ MVP ☐ Std. Lip Wood Bead
Rated
☐ C/O Only ☐ Veneer Wrapped Bead
☐ MVP

Glass Type
N/R Type
20 Min Type
45-90 Min Type

Coordination By
☐ Distributor
☐ Eggers

Prefinish
☐ Gardall Clear TR-6
☐ Gardall Stain TR-6
☐ Opaque OP-6
☐ Primed
☐ Unfinished
☐ Other

Packaging
☐ Polybag ☐ Cardboard
☐ Sort by Floor

Louvers
Non-Rated Door:
☐ C/O Only
☐ Oval Slat
☐ V-Slat
☐ Non-Vented
Rated Door:
☐ C/O Only
☐ Metal Fusible Link

Glazing
☐ By Eggers
☐ By Others

Item #	Total Door Qty.	Pair Match	Double Egress	Core/ Rating	SIZE Width x Height (list in feet)	Lite/Louver Cut Out Size or Pattern	Hinge	Cylinder/ Mortised Lock	Strike & Flush Bolts	Rim Panic	SVR	Mortised Exit Device	CVR	Top Blocking	1 or 2 Lockblock	Bottom Blocking	Miscellaneous
1					X												
2					X												
3					X												
4					X												
5					X												
6					X												
7					X												
8					X												
9					X												
10					X												

continued on page 2

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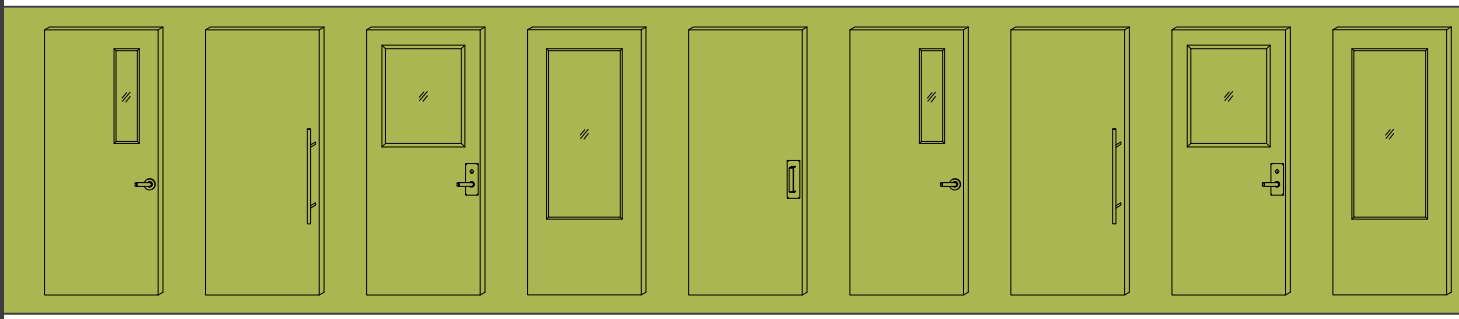
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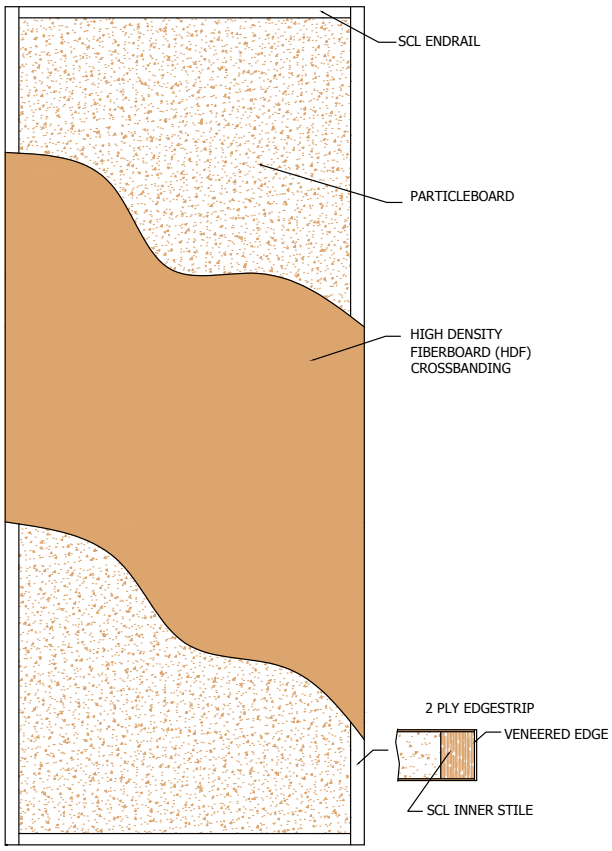
Eggers' Paintable Surface

Beautiful and Budget-Friendly



Simple. Effective. Affordable | A cost-effective, yet quality-driven paint grade flush door. Available with a primed or painted finish, the Paintable Surface Flush door can be ordered non-rated or with a 20-minute fire label. LEED® credit contribution and lightweight core capabilities are also options.





ENGINEERING SPECIFICATIONS	20-MINUTE FIRE DOOR DATA		
	20-Minute Single	**20-Minute Pairs**	**Non-Rated**
Max. Size	4' x 10'	8' x 10' parallel and dbl. egress	4' x 10' (per leaf)
Thickness	1-3/4" or 1-3/8"		
Core	Particleboard, UF-free particleboard, FSC® certified particleboard, stave, FSC certified stave, structural composite lumber (SCL), FSC certified structural composite lumber and agrifiber		
Max. Door & Transom Non-Rabbetted	4' x 14' (with transom bar)	4' x 14' (with transom bar)	4' x 14' with or without a transom bar or rabbetted
Stiles	MDO over 1" structural composite lumber		
Rails	1-1/8" structural composite lumber		
Reinforcements	Blocking for screw attached surface hardware required for agrifiber; not required for extra heavy duty applications for SCL and stave core or heavy duty applications with particleboard		
Faces	1/11" HDF crossband		
Lites	Up to 1296 sq. in. standard, SCL, and stave core available with 2868 sq. in. Beadless lite construction available -- requires maximum 6" top rail and factory glazing. Factory glazing recommended to comply with new NFPA standards		Size restricted only by min. margins Beadless lite construction available- requires maximum 6" top rail and factory glazing
Louvers	Metal louvers up to 576 sq. in. where allowed by code		Wood or metal
Latching Hardware	Cylinders, mortised, unit, or card locks; 5" backset and deadbolts available		Most available latching hardware
Hinges	Per NFPA 80 - butts, pocket pivots, continuous hinges, pivots (electrical options available)		
Flushbolts	N/A	Automatic corner or extension bolts up to 36"	Corner or extension bolts up to 48"
Fire Exit Hardware	Rim, surface and concealed vertical rod (full or top rod only), and fire exit hardware		
Closers, Stops, Holders	Listed surface hardware or most concealed hardware having a mortise not exceeding 1-3/8" in width		
Drop Seals	Listed and approved surface, semi-mortised or mortised		
Special Details	Machining for hardware; installation of lites and louvers; applied moulding; beadless lite construction; kickplates; solid wood grillwork and divided lites; raceways		
Finish	Primed or opaque varnish only		
Warranty	Life of installation (interior)		
Standards	WDMA I.S. 1A, AWS Section 9 Edition 2, NFPA 252, UL 10B, UL 10C, NFPA 80		

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20-Minute Positive Pressure FIRE DOORS THE FACTS

- Eggers' 20-minute fire door approvals include single swing installations in steel frames without intumescent.
- This approval is the result of the use of a gasketing material that are listed as both a Category H (smoke and draft control) as well as a Category G (edge seal system) for 20-minute doors, such as Pemko S-88.
- Under the International Building Code - 20-minute doors are considered smoke and draft control assemblies. To meet the air leakage rate requirements, the doors must be gasketed with a smoke seal regardless of whether or not the door contains an intumescent seal.
- Although a door does not require a field-applied intumescent, it is by definition a Category B door because it requires field application of an edge seal system to meet the fire rating. This edge seal system is required to meet fire rating regardless of the air leakage requirement.
- This approval also applies to the perimeter of 20-minute pairs installed in steel frames. For this application, it is Eggers' standard to provide concealed intumescent meeting edges.



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Eggers Industries

KEEPING KIDS SAFE

Protecting children while they are learning is everyone's responsibility and Eggers takes great pride in our capabilities to provide a wide-range of products to exceed the security and safety standards required in our nation's schools.



Extensive Capabilities to Ensure that Every Child Learns in a Safe Environment

Bullet-Resistant Doors

At Eggers Industries, we fully understand and appreciate that the safety and well-being of your students and staff is the top priority. Bullet-resistant doors are a major step toward enhancing safety. Our doors are designed to protect life and property from direct arm fire.

- Available in resistance levels 1-8, per UL 752 and levels IIA through III (per N.I.J. 0108.01)
- The fiberglass core material meets the bullet resistance requirements of test standard UL 752.
- 20-minute fire rating available
- Glazing is an option for most ballistic ratings and up to Level 3 with 20-minute fire-rated doors
- Bullet-resistant metal vision panels are required for all doors with lites and bullet-resistant doors must be hung in bullet-resistant frames
- Available in 1-3/4" or 2-1/4" thicknesses
- Pair applications are available in ratings up to Level 4 with an overlapping bullet-resistant astragal

Fire-Rated Doors and Frames

Eggers' fire-rated doors offer unbeatable functionality and visual appeal. Our flush doors, true stile & rail doors and veneered door frames are fire-rated up to 90-minute. Solid lumber frames are rated up to 45-minute. True-divided lite doors have 20-minute ratings while full-lite doors are 20- and 45-minute rated.

eiDOOR® for High Impact Applications

Pair the strength and protection of InPro Corporation's IPC Rigid Vinyl Sheet and the quality and performance of Eggers' Doors and you have the eiDOOR® - a supremely durable door that withstands high amounts of traffic and abuse while maintaining an attractive appearance. eiDOORS® are available with removable edges on both the hinge and lock edges for convenient, on-site replacement - offering a convenient, high quality, and cost effective solution for maximum protection against door damage.

Acoustical Doors

Our acoustical doors provide superior sound control for a variety of uses: vocal rooms, band rooms, gymnasiums, audio-visual labs, performance halls and theaters. They allow students to practice music, rehearse plays, discuss and debate issues at full volume and potential. Eggers' doors have the highest STC ratings in the industry – STC 40 for true stile & rail doors and STC 53 for flush doors.

Eggers also adheres to programs such as LEED® for Schools and the Collaborative for High Performance Schools (CHPS) which require a minimum STC 30 for classroom entry doors. These programs ensure that the learning environment has fewer distractions.

Environmental Capabilities

Eggers is certified by the Rainforest Alliance to manufacture products in accordance with the Forest Stewardship Council™ (FSC®) standards. Our commitment to our customers and the environment is not only a guarantee of high-quality, custom wood products, but also a promise of credits toward the Leadership in Energy and Environmental Design (LEED®) program. LEED® certification points can be earned with Agrifiber, Particleboard and SCL core constructions and FSC-certified lumber, cores and veneers.

When choosing FSC certified core and FSC certified veneer, we are able to offer an FSC Mix 100% certified flush wood door. Non-certified veneer and FSC certified core results in an FSC Mix 97% certified flush wood door.

With the use of UV cured finishes, Eggers has been able to achieve Indoor Advantage™ Gold certification through SCS Global Services (SCS). This certification qualifies for LEED low-emitting materials credits and also meets CA 01350. Certifying with SCS demonstrates our commitment to providing a safer and healthier indoor environment for our children.

What do those ballistic levels really mean?



Door Model	Protection Rating per UL 752	Ammunition	Comparable N.I.J. 0108.01 Rating	Door Weight (psf)
Level 1	UL 1	9mm Full Metal Copper Jacket with Lead Core	III-A	8.4
Level 2	UL 2	.357 Magnum Jacketed Lead Soft Point	II	8.8
Level 3	UL 3	.44 Magnum Lead Semi-Wadcutter Gas Checked	III-A	9.6
Level 4	UL 4	.30 Caliber Rifle Lead Core Soft Point (.30-06 Caliber)	III	15.6
Level 5	UL 5	7.62mm Rifle Lead Core Full Metal Copper Jacket Millitary Ball (.308 Caliber)	III	15.9
Level 6	UL 6	9mm Full Metal Copper Jacket with Lead Core	III-A	9.6
Level 7	UL 7	5.56mm Rifle Full Metal Copper Jacket with Lead Core (.223 Caliber)	III-A	14.3
Level 8	UL 8	7.62mm Rifle Lead Core Full Metal Copper Jacket Military Ball (.308 Caliber)	III	15.9

FSC www.fsc.org FSC® C019991
The mark of responsible forestry

FSC® certified by the Rainforest Alliance

SCScertified™
INDOOR AIR QUALITY
Indoor Advantage | Building Materials
GOLD

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Stile and Rail Doors, Door Frames Veneered Components, Plywood

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Flush Doors

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Architectural Veneer Faces, Custom Wood Products, Plywood

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Silhouettes™

SPECIALTY GLASS COLLECTION

Eggers Industries

The *Silhouettes*™ Specialty Glass Collection from Eggers enhances the richness and beauty of wood entryways through the sublime interplay of glass and light.



Turning nature's beauty into works of art

NATURAL BEAUTY. NATURAL FUNCTIONALITY.

The *Silhouettes*™ Specialty Glass Collection features a variety of glass styles, thicknesses and translucency levels. Whichever option you choose, you can rest assured that your *Silhouettes* Specialty Glass is as arresting in beauty as it is in functionality.

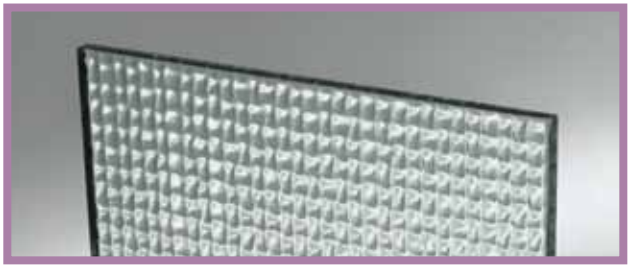
In addition to the Specialty Glass selection featured here, Eggers offers a wide variety of unique style options to make your doors as distinctive as possible.



Glue Chip



Spraylite



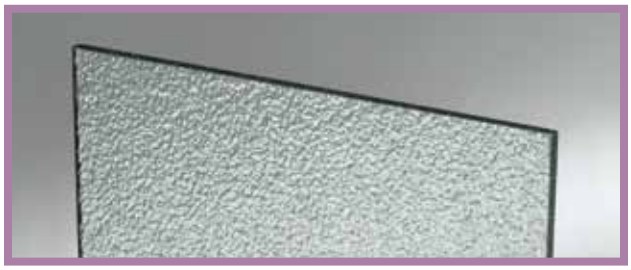
Flax



Niagara



White Laminated



Pattern 516



Skytex



Matelux



English Reeded

SPECIALTY GLASS

Glass Type	Pattern 516	Niagra	Spraylite	Flax	Skytex	White Laminated	Matelux	English Reeded	Glue Chip
Thickness	3/16"	3/16"	3/16"	3/16"	3/16"	1/4"	1/4"	1/4"	1/4"
Tempered	YES	YES	YES	YES	YES	NO	YES	YES	YES
ANSI Z97.1	YES	YES	YES	YES	YES	NO	YES	YES	YES
CPSC 16 CFR 1201 Category I	YES	YES	YES	YES	YES	NO	YES	YES	YES
CPSC 16 CFR 1201 Category II	YES	YES	YES	YES	YES	NO	YES	YES	YES



MINI-BLIND GLASS UNITS

Eggers' mini-blind glass units are the perfect solution for privacy. These blinds are placed between 2 pieces of 1/8" tempered glass. They come in several sizes with options for tilting and raising the blinds. With the tilt and raise controllers available on one side only, the customer must specify which side of the door receives the controller.

The units can only be installed in non-rated doors and must be factory glazed. Due to the bead size, the visible lite will be approximately 1" less in width and height than the glass unit size.

Mini-blind units have not been evaluated for use on acoustic doors, and are not approved for use on fire-rated , x-ray or bullet-resistant doors.

- Thickness of Unit - 1-1/16"
- Wood Bead - #115
- Slat Material - Aluminum
- Alternate Glazing - Not Available

Glass Size	Cut-Out Size	Visible Lite	Tilt/Raise
7" x 64"	7-1/8" x 64-1/8"	6" x 63"	Tilt and Lift
8" x 36"	8-1/8" x 36-1/8"	7" x 35"	Tilt and Lift
8" x 64" *	8-1/8" x 64-1/8"	7" x 63"	Tilt and Lift
14" x 64"	14-1/8" x 64-1/8"	13" x 63"	Tilt and Lift
20" x 64" *	20-1/8" x 64-1/8"	19" x 63"	Tilt and Lift
20" x 80"	20-1/8" x 80-1/8"	19" x 79"	Tilt and Lift
22" x 36" *	22-1/8" x 36-1/8"	21" x 35"	Tilt and Lift
22" x 48"	22-1/8" x 48-1/8"	21" x 47"	Tilt and Lift
22" x 64" *	22-1/8" x 64-1/8"	21" x 63"	Tilt and Lift
22" x 80"	22-1/8" x 80-1/8"	21" x 79"	Tilt and Lift

*Tan slats are options for these sizes. All sizes available with bright white slats.

THE BEAUTY OF SAFETY – GENERAL GLAZING INSTRUCTIONS

Eggers' specialty glass glazing options currently include: Textured, Tinted and Laminated, with or without colored film. These are in addition to our standard glazing options, which are wired, tempered, bullet-resistant, acoustical and fire-rated. Specialty glass is not meant for use in bullet-resistant, acoustical or fire-rated doors.

Glazing options for fire-rated doors continue to increase. There are now options for ceramic glazing materials, high tempered clear glazing, laminated glazing, clear composite glazing panels as well as traditional wired glass. There are also approvals gained by the manufacturers of metal vision frames, intumescent producers and door manufacturers. As the number of options increases, so does the complexity of installations.

Many of these approvals require very specific glazing parameters. These include limitations to the type and rating of the doors they may be installed in, stop heights, clearances between glazing and door cutout and use of setting blocks to support and center the glazing within the frame. The complexity of specific requirements increases exponentially with the use of different types of caulk, glazing tape, intumescent tapes and combinations to ensure that the final installation will meet fire labeling requirements.

Eggers recommends factory glazing for proper glass installation, especially special purpose doors such as fire and acoustics. Check with applicable codes as the current version of NFPA-80 requires new wood fire doors to be glazed under third party labeling service.

Eggers has developed a set of glazing instructions to address these installation issues, as well as meet the market demand for field glazing options. These instructions are shipped with each door order. They detail the four most commonly ordered bead installations:

- 20-minute lites with 3/16" to 5/16" glazing in wood beads (also applicable for non fire-rated installations).
- 20-minute full-lites with Pyroedge glazing and wood beads.
- 45-minute full-lites with Firelite Plus glazing in wood beads.
- 45- through 90-minute lites with wired glass or ceramic glazing in veneer wrapped lite beads.

Additional instructions may be added to this set as warranted by the market. Glazing instructions are also available on our website at www.eggersindustries.com.

It is the glass installer's responsibility to ensure installation instructions used are correct for the specific application. For metal vision panel applications, please refer to the manufacturers' instructions provided with their frame. You can also call 920.722.6444 for technical assistance and guidance for other applications.

Eggers will continue to develop additional tools to effectively correct specification and installation of fire-rated doors. As they become available, we will post them on our website for your immediate benefit.

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The FSC® certification ensures responsible use of forest products. 204-08-14

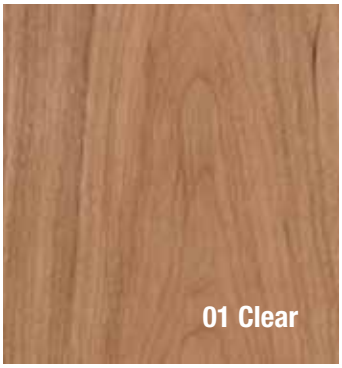
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RAINFOREST ALLIANCE CERTIFIED

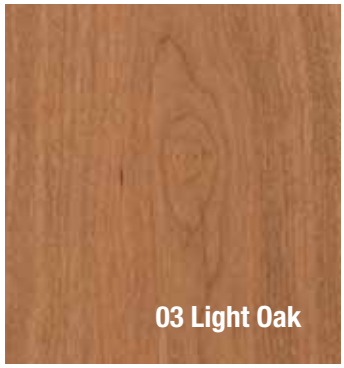
CERTIFIED QUALITY WOODWORK

STANDARD FINISH SELECTOR GUIDE

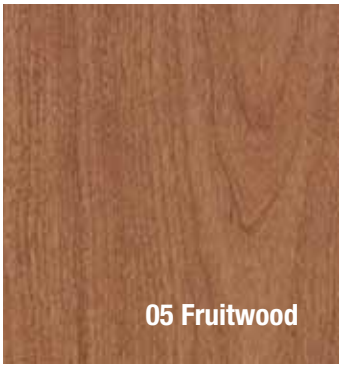
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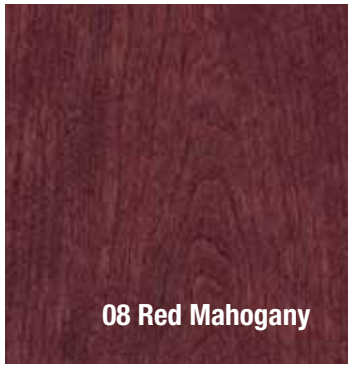












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for cherry doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



Eggers Industries

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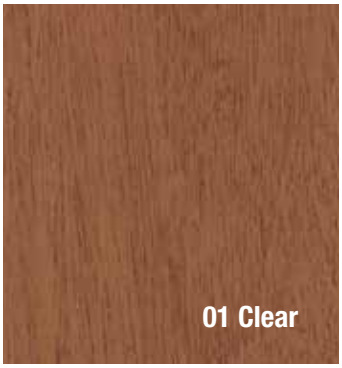
Flush Doors

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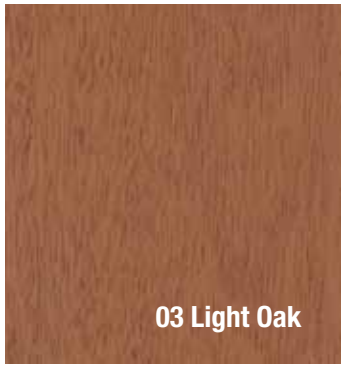
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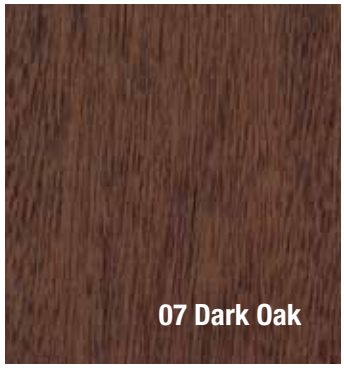


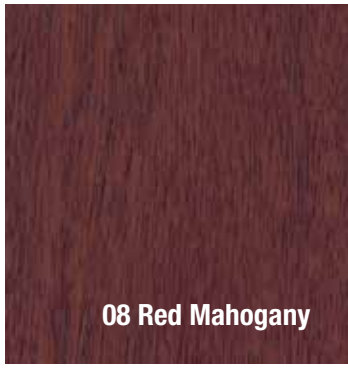












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for mahogany doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



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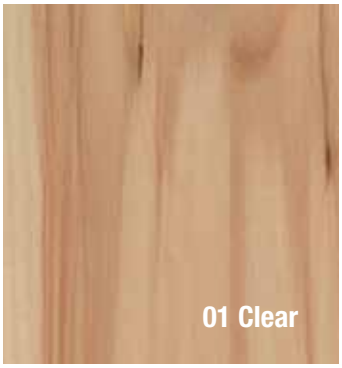
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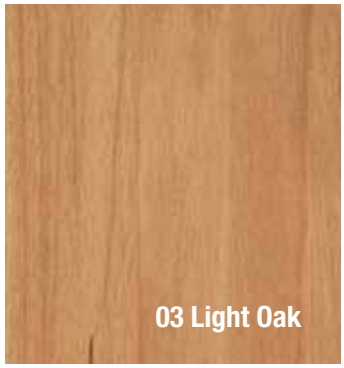
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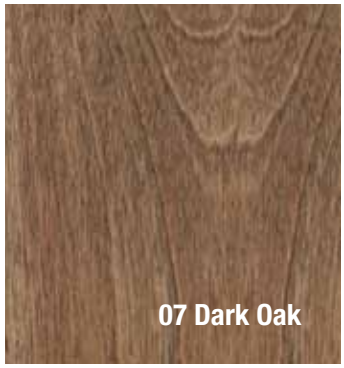


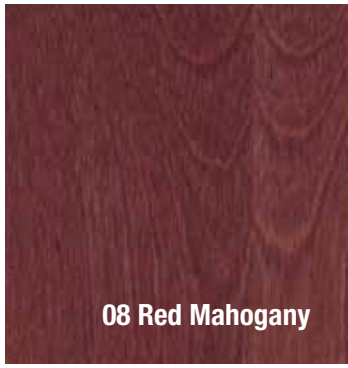












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for natural birch doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



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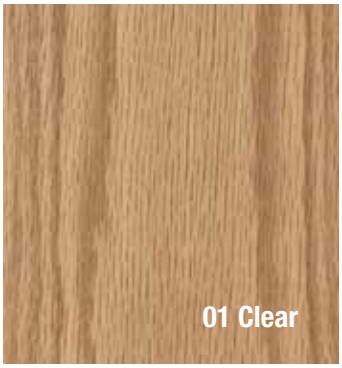
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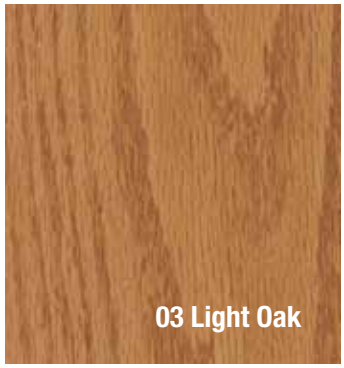
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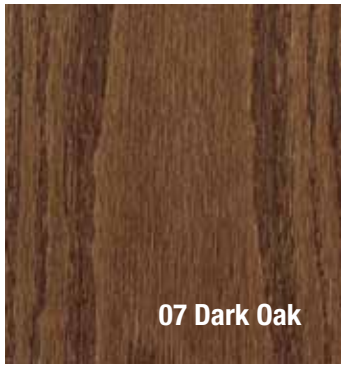


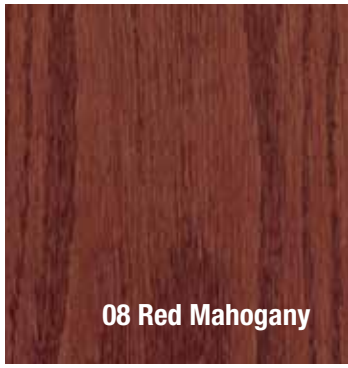












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for red oak doors that are unfinished, finished clear, or finished with stains.

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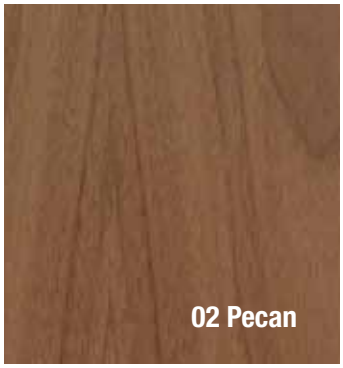
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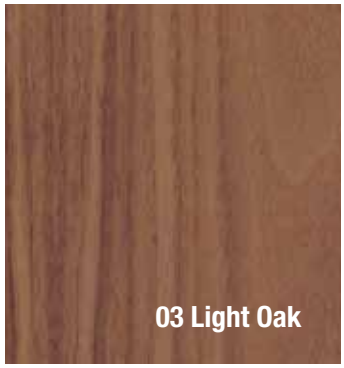
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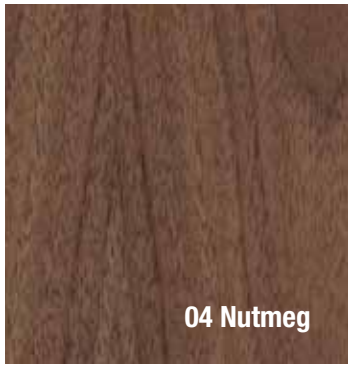
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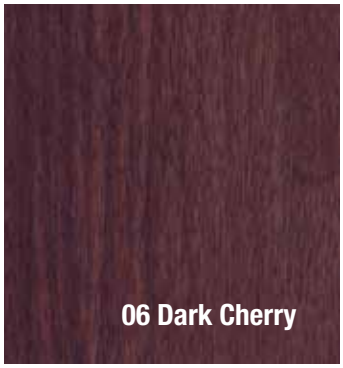


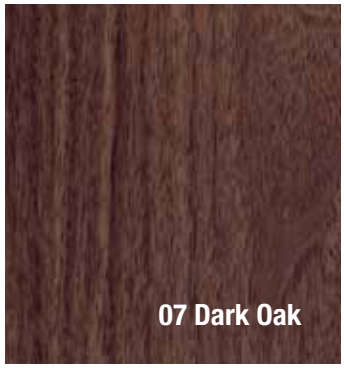














Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for walnut doors that are unfinished, finished clear, or finished with stains.

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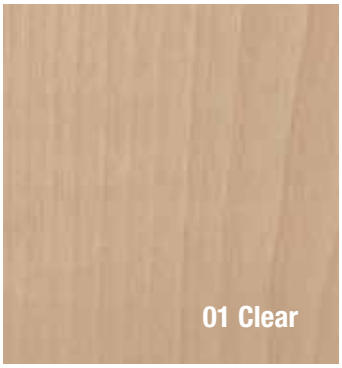
Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357
email: sales@eggersindustries.com

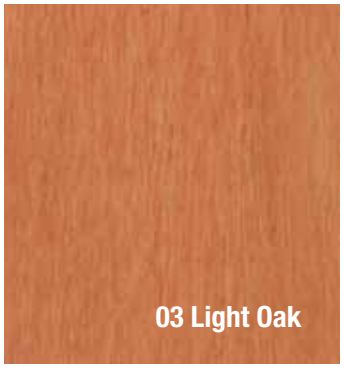
Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supercede those in print. 714-05-12

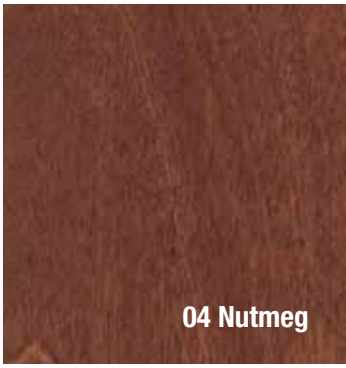
STANDARD FINISH SELECTOR GUIDE

These samples represent Eggers' standard finish colors. They should be used only as a guideline for selecting your finish. Please contact Eggers for samples for final color approval.



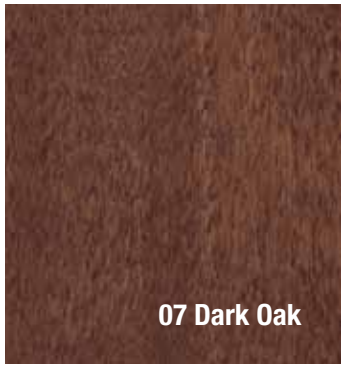














Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for white birch doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



Eggers Industries

Stile & Rail Doors,
Door Frames, Plywood

Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958
www.eggersindustries.com

Flush Doors

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STANDARD FINISH SELECTOR GUIDE

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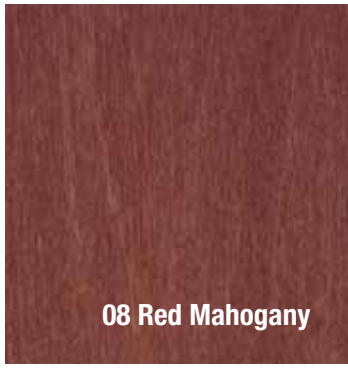












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for white maple doors that are unfinished, finished clear, or finished with stains.

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Door Frames, Plywood

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Two Rivers, WI 54241
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www.eggersindustries.com

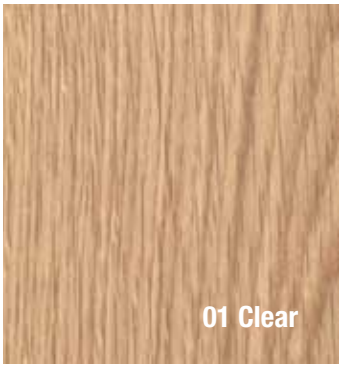
Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357
email: sales@eggersindustries.com

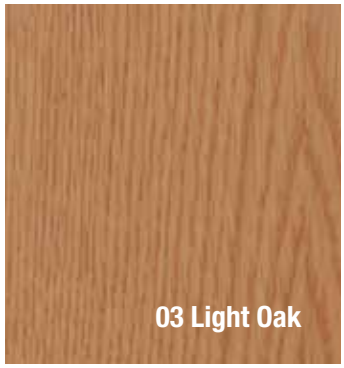
Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supercede those in print. 716-05-12

STANDARD FINISH SELECTOR GUIDE

These samples represent Eggers' standard finish colors. They should be used only as a guideline for selecting your finish. Please contact Eggers for samples for final color approval.



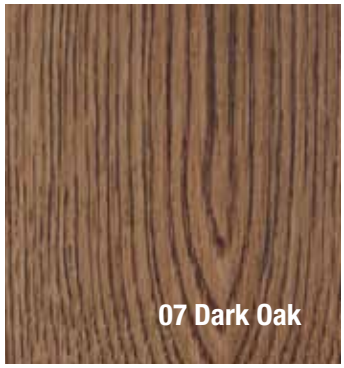


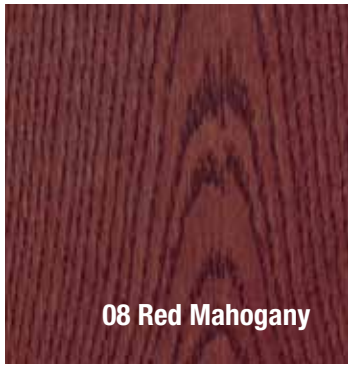












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for white oak doors that are unfinished, finished clear, or finished with stains.

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Eggers Industries

Stile & Rail Doors,
Door Frames, Plywood

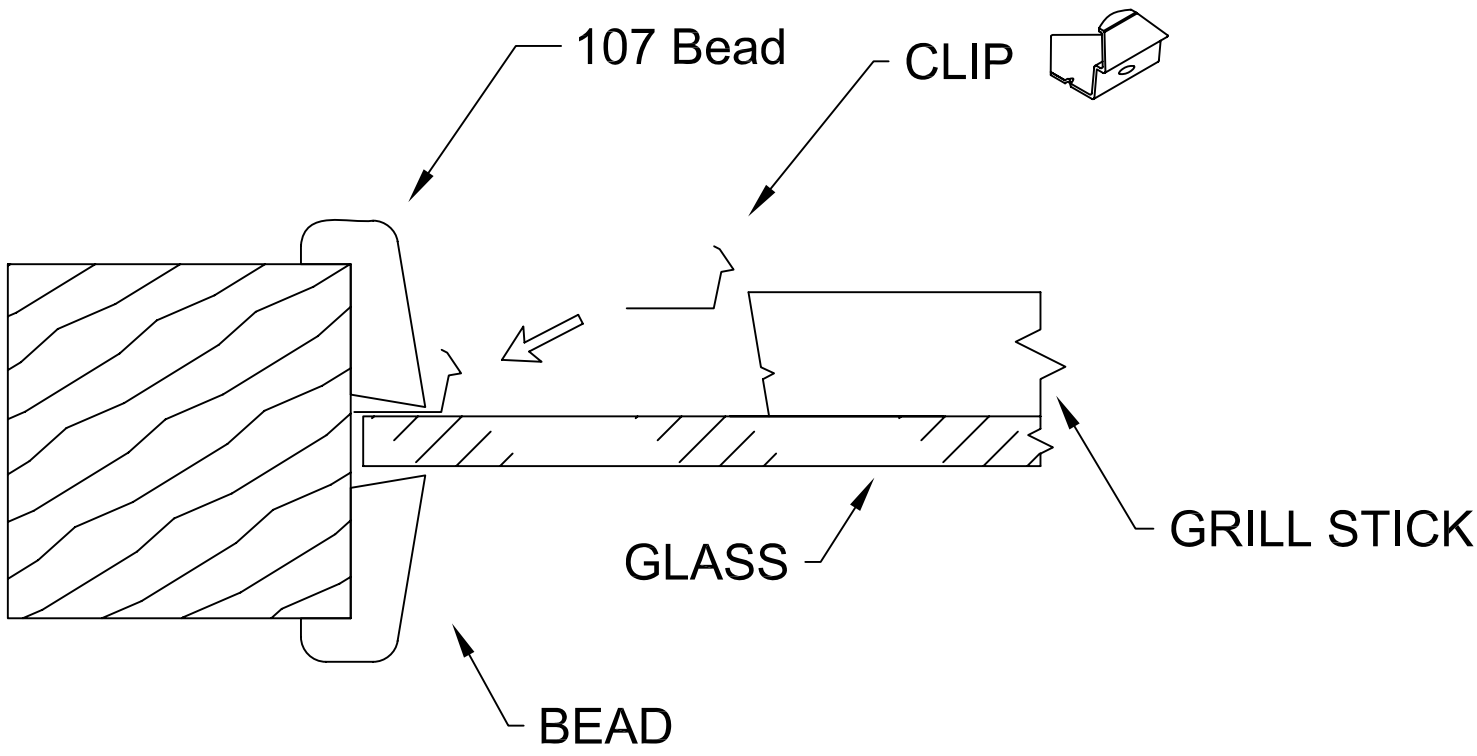
Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958
www.eggersindustries.com

Flush Doors

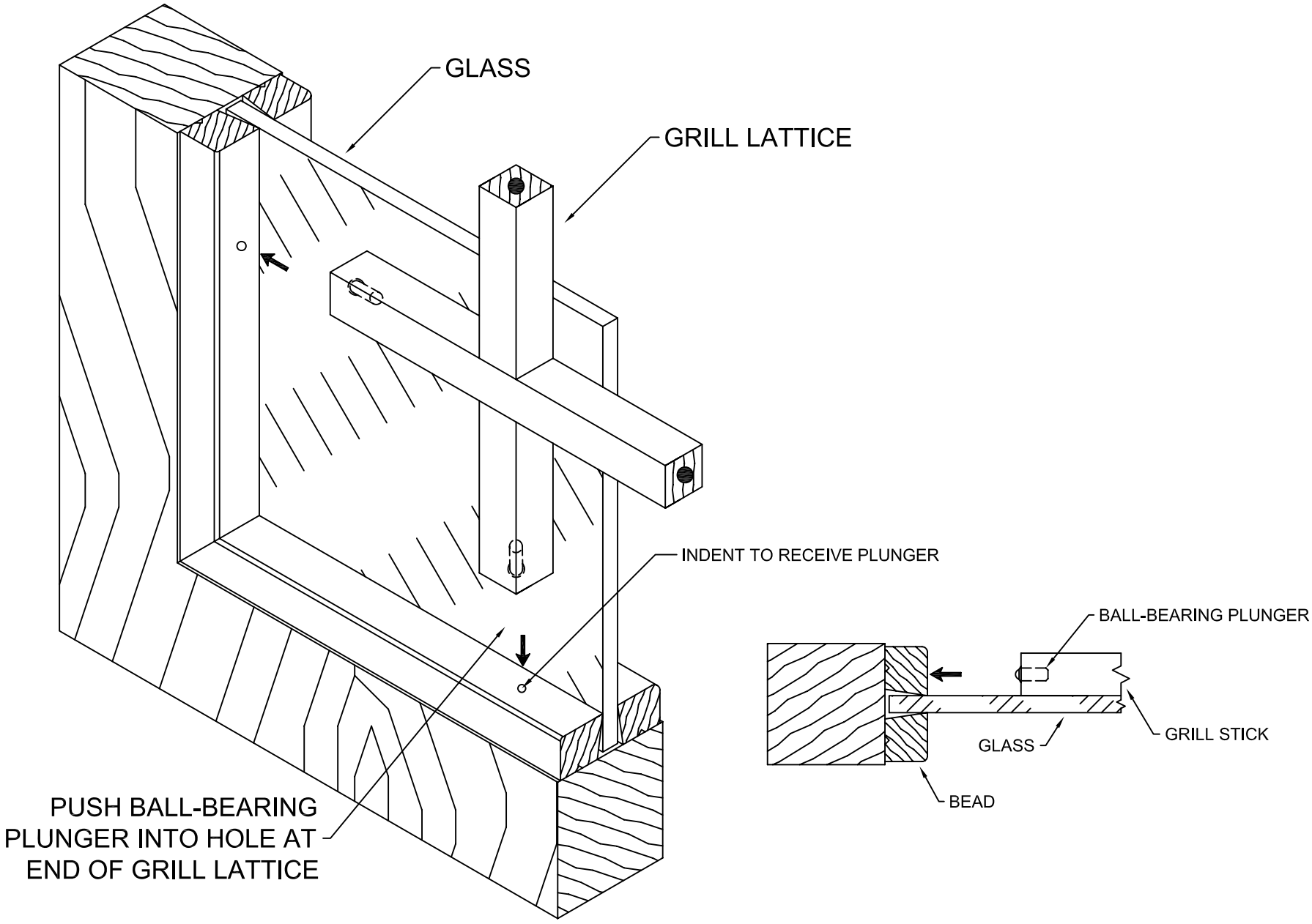
Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357
email: sales@eggersindustries.com

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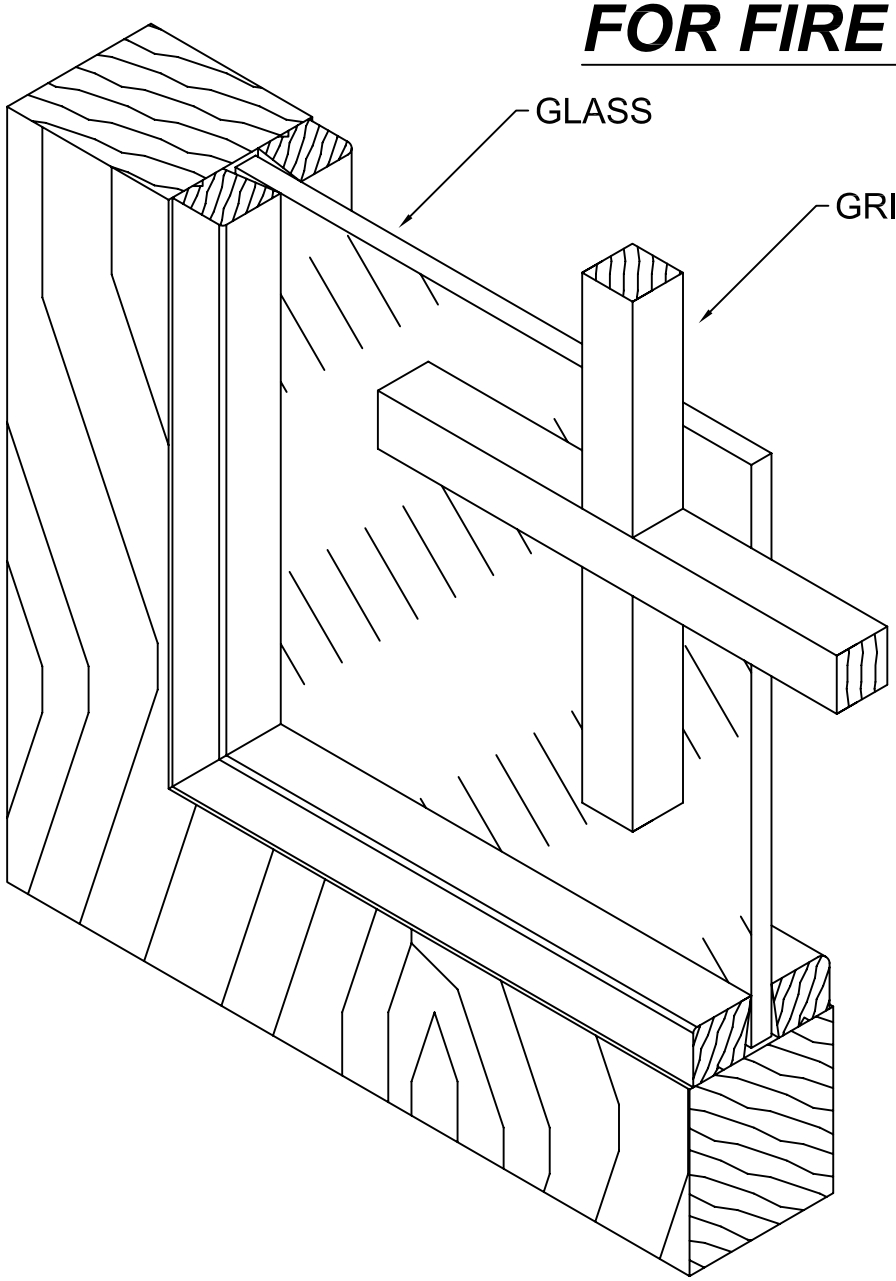
Eggers *CLIP-IN GRILLWORK*

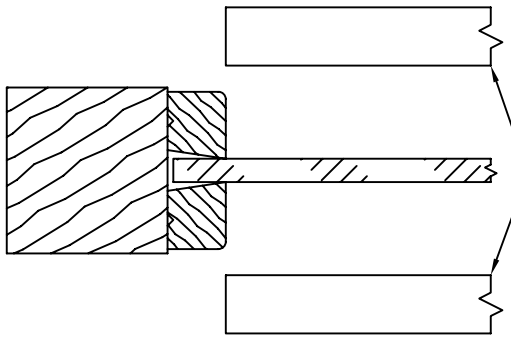


Eggers *SNAP-IN GRILLWORK*



Eggers *TAPE-ON GRILLWORK FOR FIRE RATED DOORS*





GRILL STICK WITH
2-SIDED TAPE ON BACK
(FOR AESTHETIC GRILLWORK
IS ONLY AVAILABLE BOTH SIDES
OF GLASS)

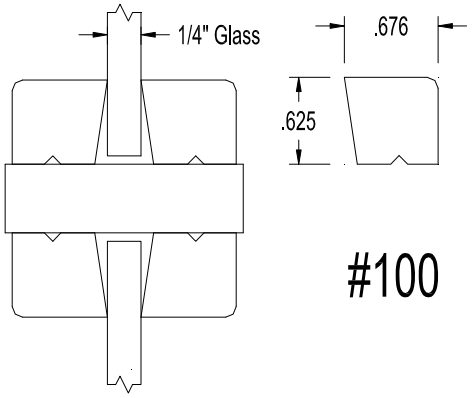
5-Ply Flush True Divided Lite Details

Construction Details

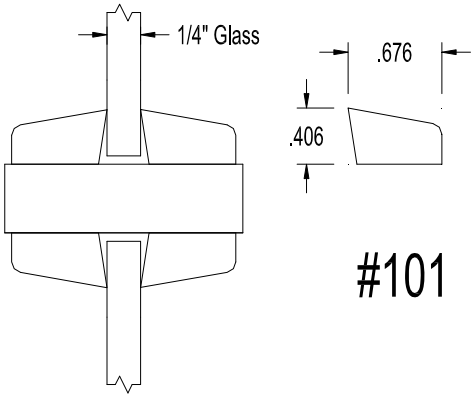
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Eggers Industries

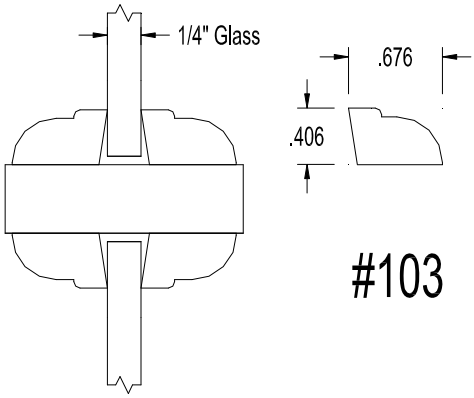
FLUSH DIVIDED LITE DETAIL
(NON-LABEL STD 1/2" BARS SHOWN, 20 MIN REQUIRES 3/4" BARS)



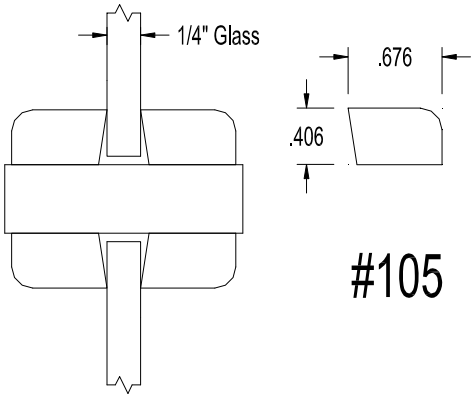
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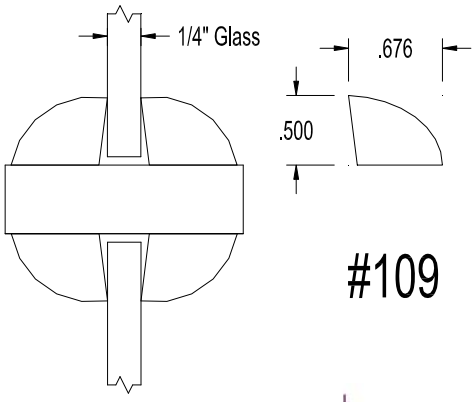
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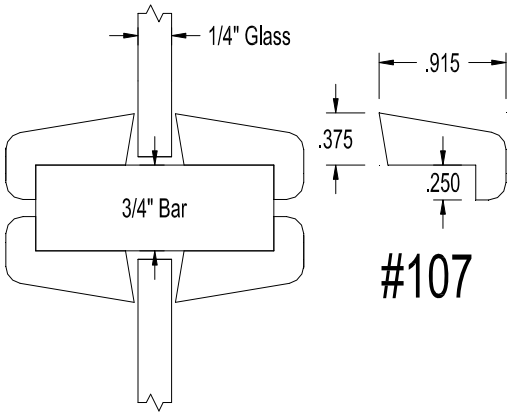
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#105



#109



#107

Eggers Industries

Stile & Rail Doors, Door Frames, Plywood

East Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

www.eggersindustries.com email: sales@eggersindustries.com

45-Minute Non-Mineral Core Door

Flush Doors

No. 235-01-08

Eggers Industries







Agrifiber 45-Minute Rated Fire Door

- Fire-rated for 45-minute with Warnock Hersey label
- 4' x 10' single swing and 8' x 8' standard and double egress pair applications
- Lites up to 1296 sq. inches with metal vision frames
- Available with standard door hardware including:
  - butt hinges
  - surface applied or concealed overhead closers
  - cylindrical or mortised locks, SVRs, rim and mortised exit hardware
  - viewers
  - applied molding
  - kickplates
- Raceways for electrified hardware
- Available in virtually all obtainable species

Particleboard Core 45-Minute Rated Fire Door

- Fire-rated for 45-minute with Warnock Hersey label
- 4' x 8' single swing and 6' x 7' standard and pair applications
- Lites up to 1296 sq. inches with metal vision frames
- Available with standard door hardware including:
  - butt or continuous hinges
  - surface mounted closers
  - cylindrical or mortised locks, SVRs, rim and mortised exit hardware
  - viewers
  - applied molding
  - kickplates
- Available in virtually all obtainable species as well as plastic laminates

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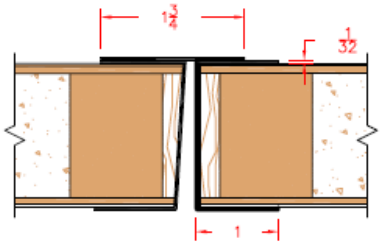
The FSC Trademark identifies products which contain wood from well-managed forests certified in accordance with the rules of the Forest Stewardship Council.
© 1996 Forest Stewardship Council A.C. SW-COC-728 SW-COC-729

Astragals and Edge Sets
Construction Details

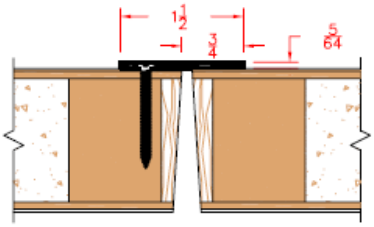
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Eggers Industries

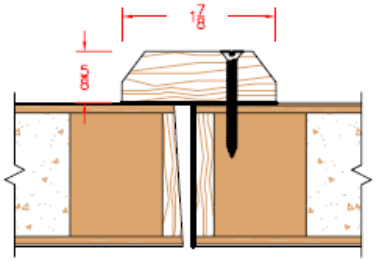
ASTRAGAL AND EDGE SET
SET 218 BY ALL METAL STAMPING



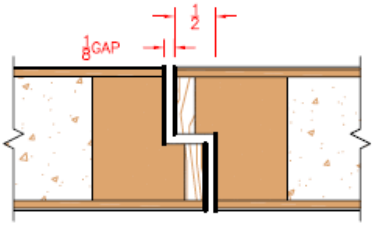
FLAT ASTRAGAL
SET 215 BY ALL METAL STAMPING



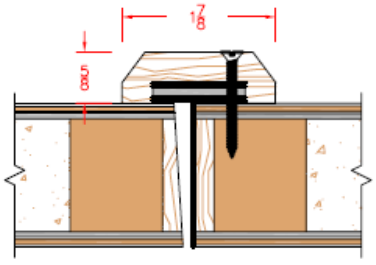
WOOD ASTRAGAL



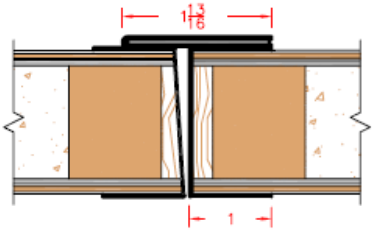
1/2" RABBETTED MEETING EDGE



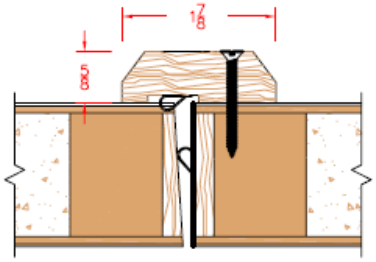
LEAD LINED ASTRAGAL (NON-LABEL FLUSH DOORS ONLY)



LEAD LINED ASTRAGAL AND EDGE SET
LABEL DOORS (FLUSH DOORS ONLY)
SET 212 BY ALL METAL STAMPING



ACOUSTICAL ASTRAGAL



NOTE: THESE DRAWINGS ARE TO SHOW COMMON TREATMENTS OF MEETING EDGES, AND NOT MEANT TO IMPLY THE SAME DOOR CONSTRUCTION IS APPLICABLE FOR ALL OPTIONS.

Eggers Industries

Stile & Rail Doors, Door Frames, Plywood, Veneered Components

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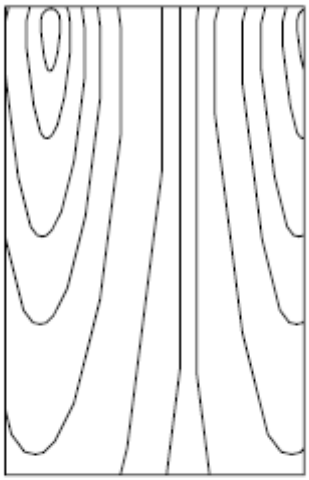
email: sales@eggersindustries.com

Edge Band vs. Lumber

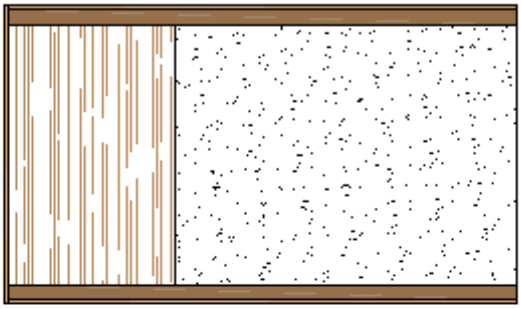
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Eggers Industries

Side View

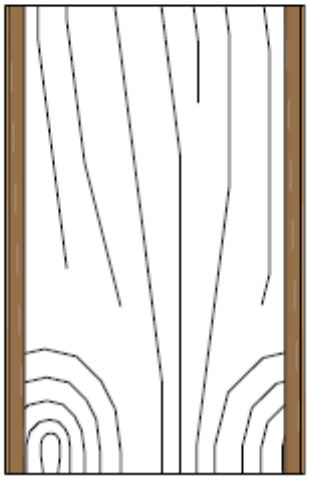


Veneer-Banded Edge Strip

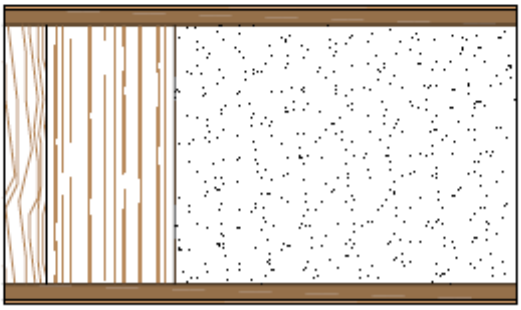


Cross-Section

Side View



Lumber-Outer Edge Strip



Cross-Section

Eggers Industries

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Neenah, WI 54956
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Fax: 920.722.0357

email: sales@eggersindustries.com

Standard Applied Moulding Constructions

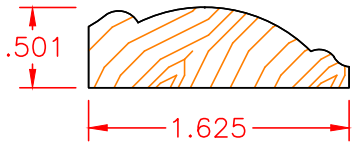
5-Ply Flush Doors

(Left side of the drawing represents outside of moulding panel)

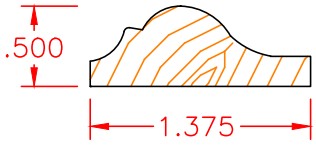
Construction Details 522

Date: February, 2016

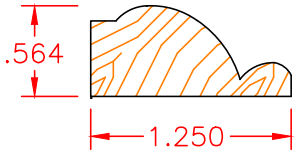
Eggers Industries



E2



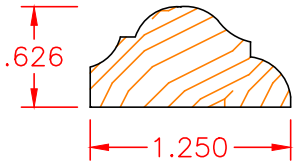
E9



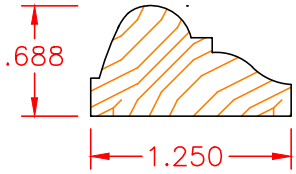
E15



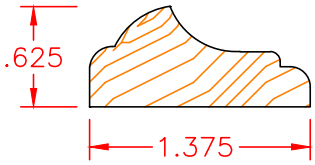
E3



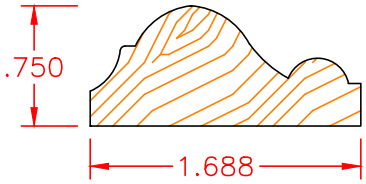
E10



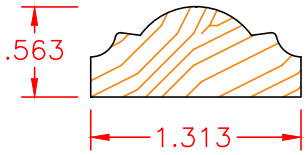
E16



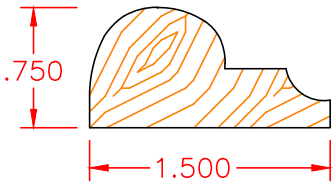
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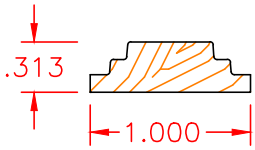
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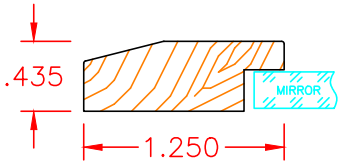
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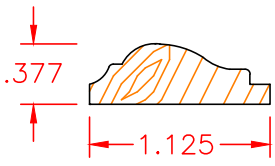
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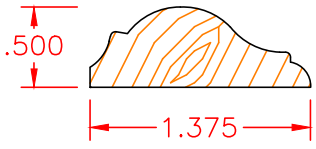
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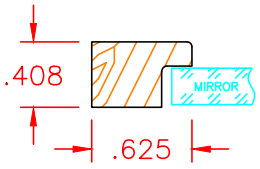
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E7



E14



E19

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Kentucky Division
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5-Ply Flush Doors - Stock Bead Details

(Contact Sales for Use in Stile & Rail)

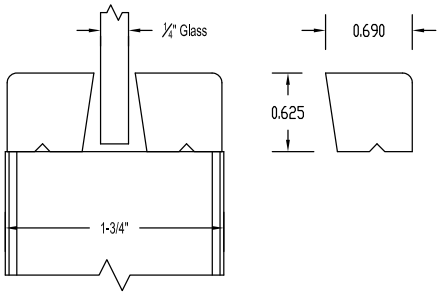
(Pricing May Vary - Please Contact Your Project Coordinator for Pricing Information)

Construction Details 296

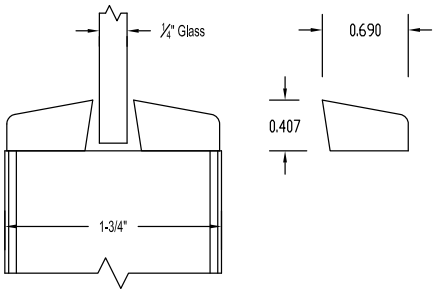
Date: April, 2013

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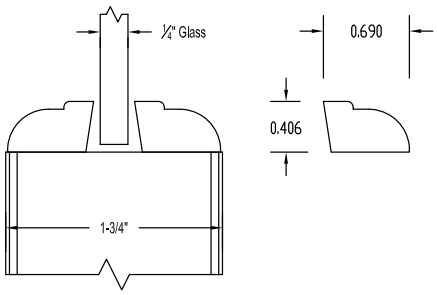
Please note: The standard downset for flush beads without reveals is 1/64”.



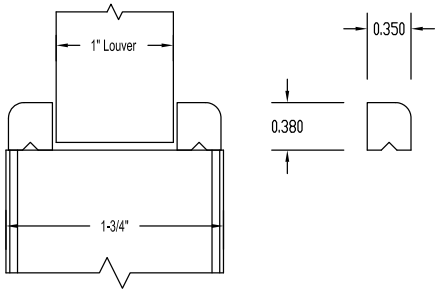
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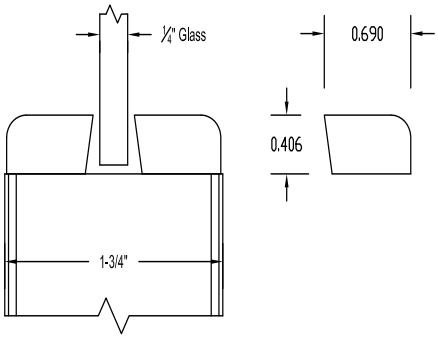
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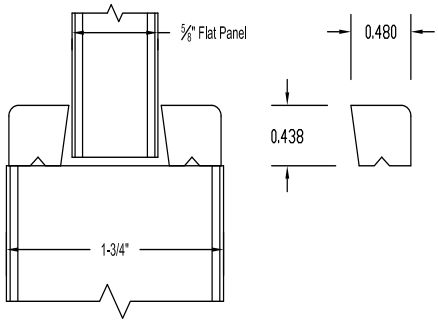
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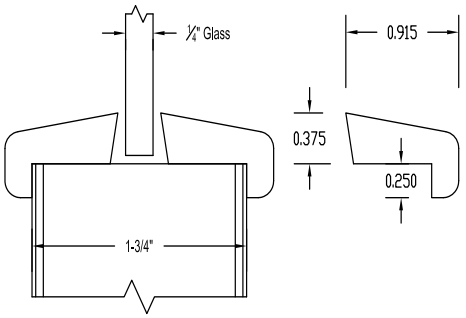
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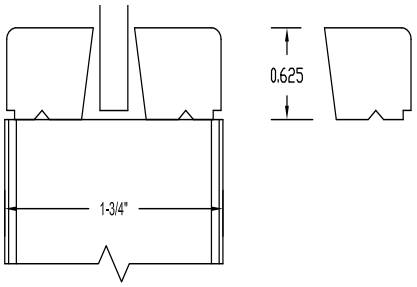
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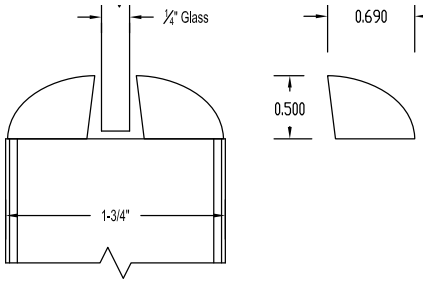
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#108



#109

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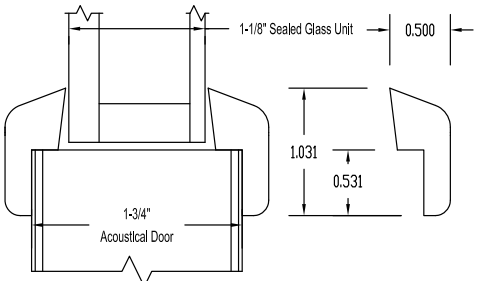
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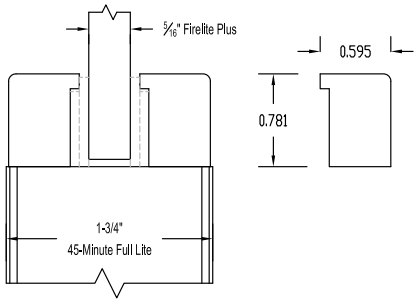
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Plywood

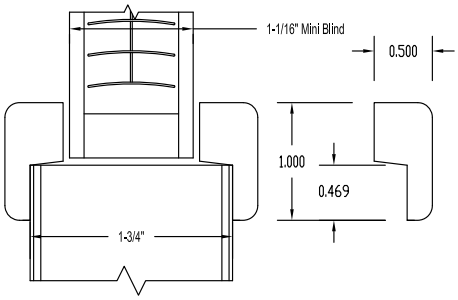
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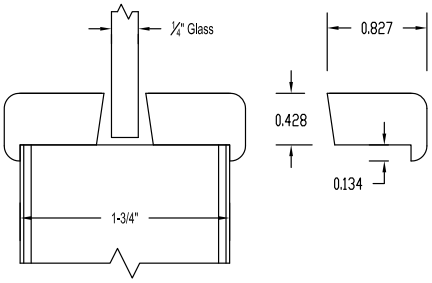
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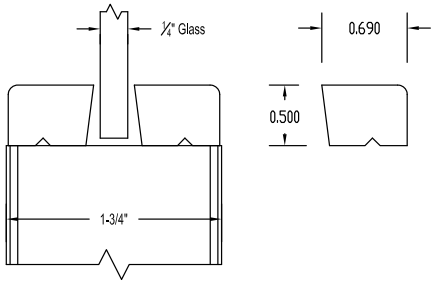
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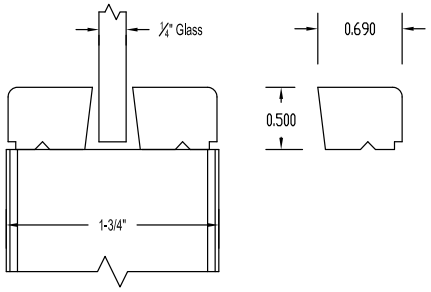
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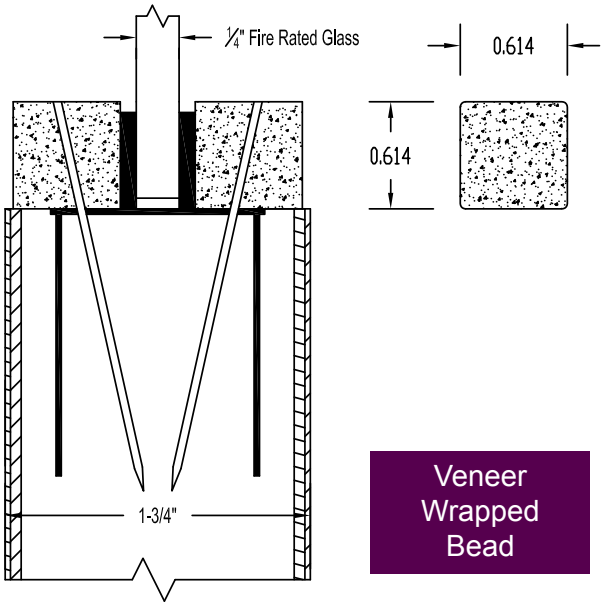
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#200



#208



Veneer Wrapped Bead

Calculating Visible Lite Dimension

Profile	Visible Lite = Cutout - Dimension Listed Below
100	1-1/4”
101	13/16”
103	13/16”
104	3/4”
105	13/16”
106	7/8”
107	3/4”
108	1-1/4”
109	1”
110	1”
114	1-9/16”
115	1-1/16”
120	55/64”
200	1”
208	1”
Veneer Wrapped Bead	1-1/4”

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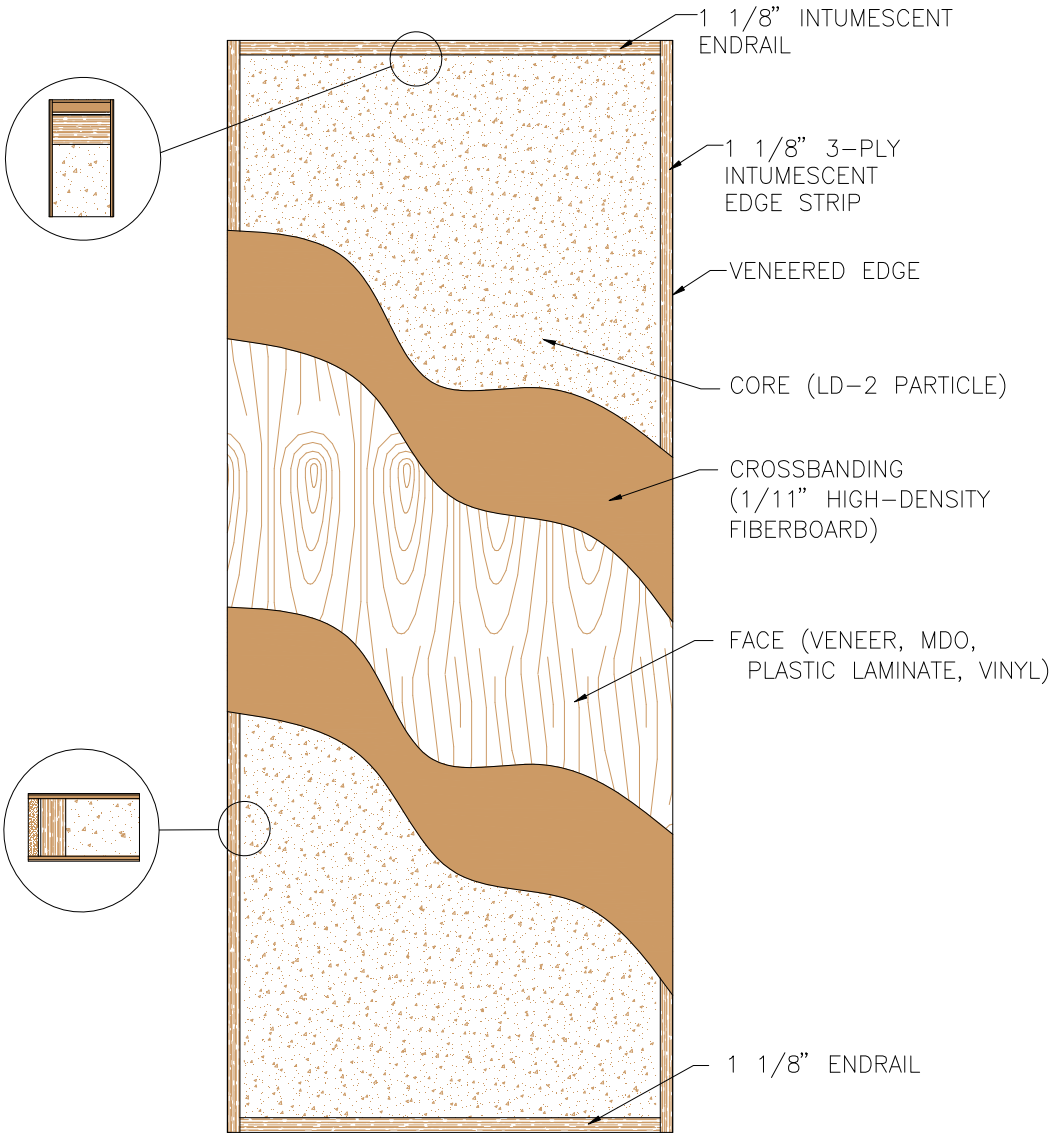
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20-Minute Category A Particle Core
Door Elevation

Date: February, 2013

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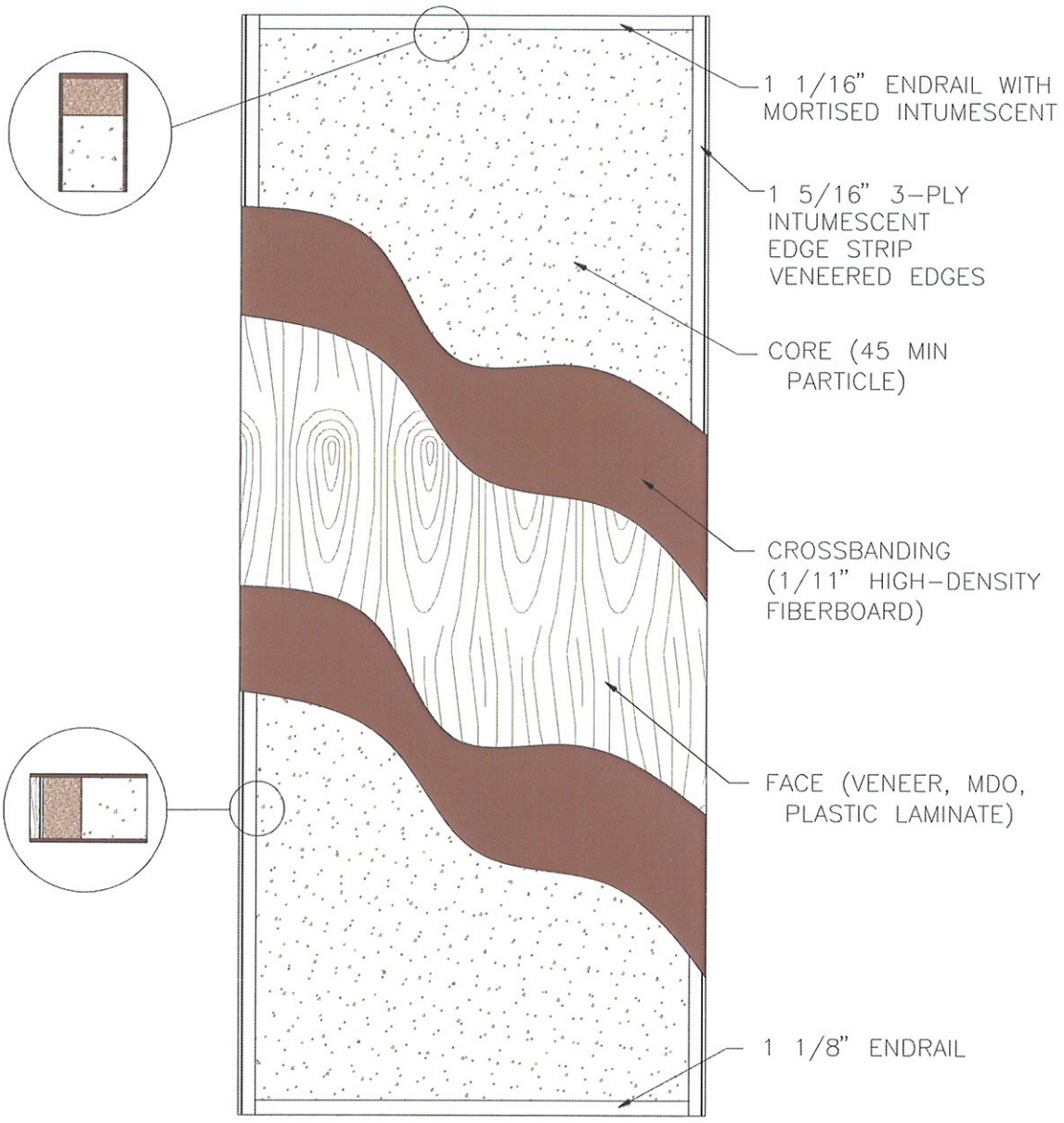
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45-Minute Particle Core-Category A-Veneered Edge
Door Construction

No. 380V-01-10

Eggers Industries



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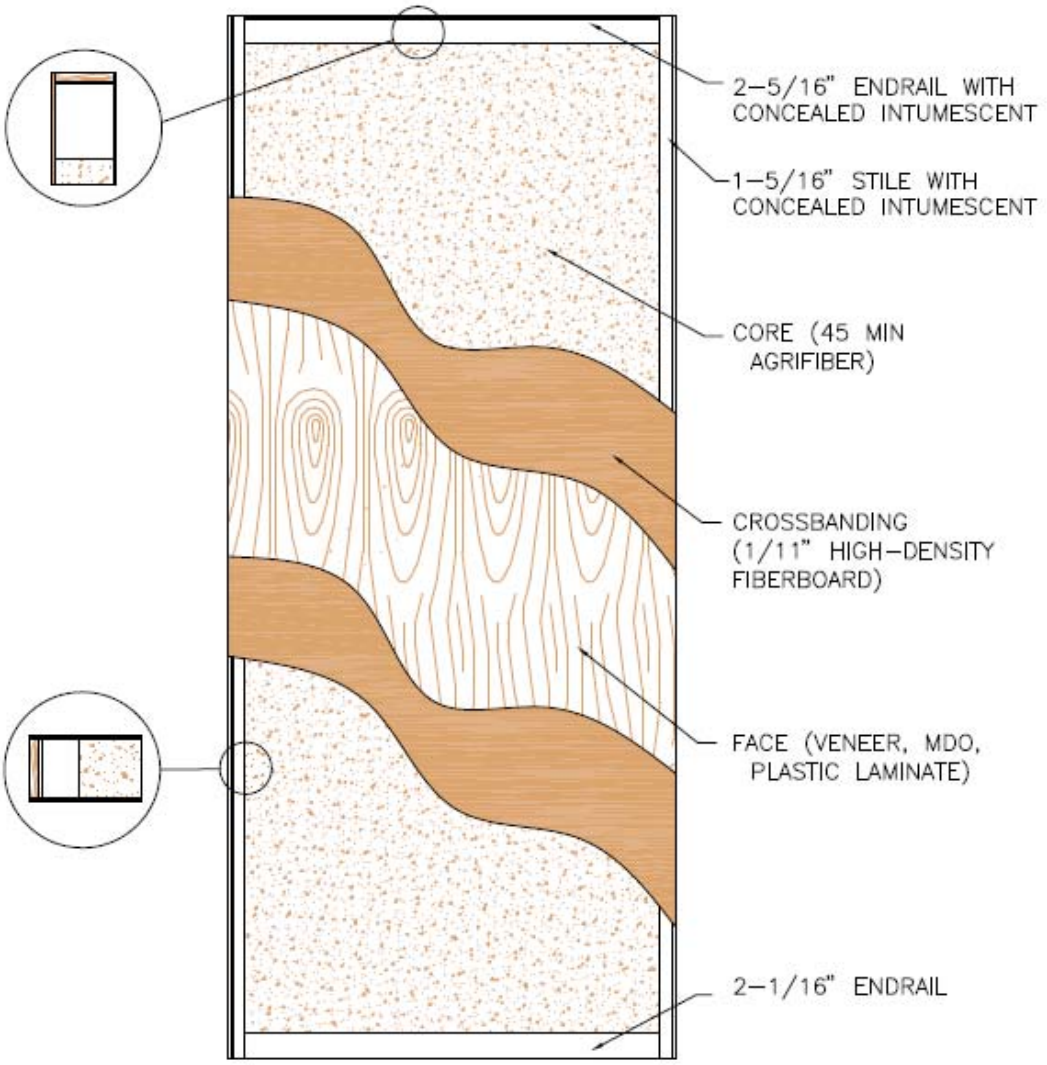
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45-Minute Category A Agrifiber
Door Elevation

Date: May, 2014

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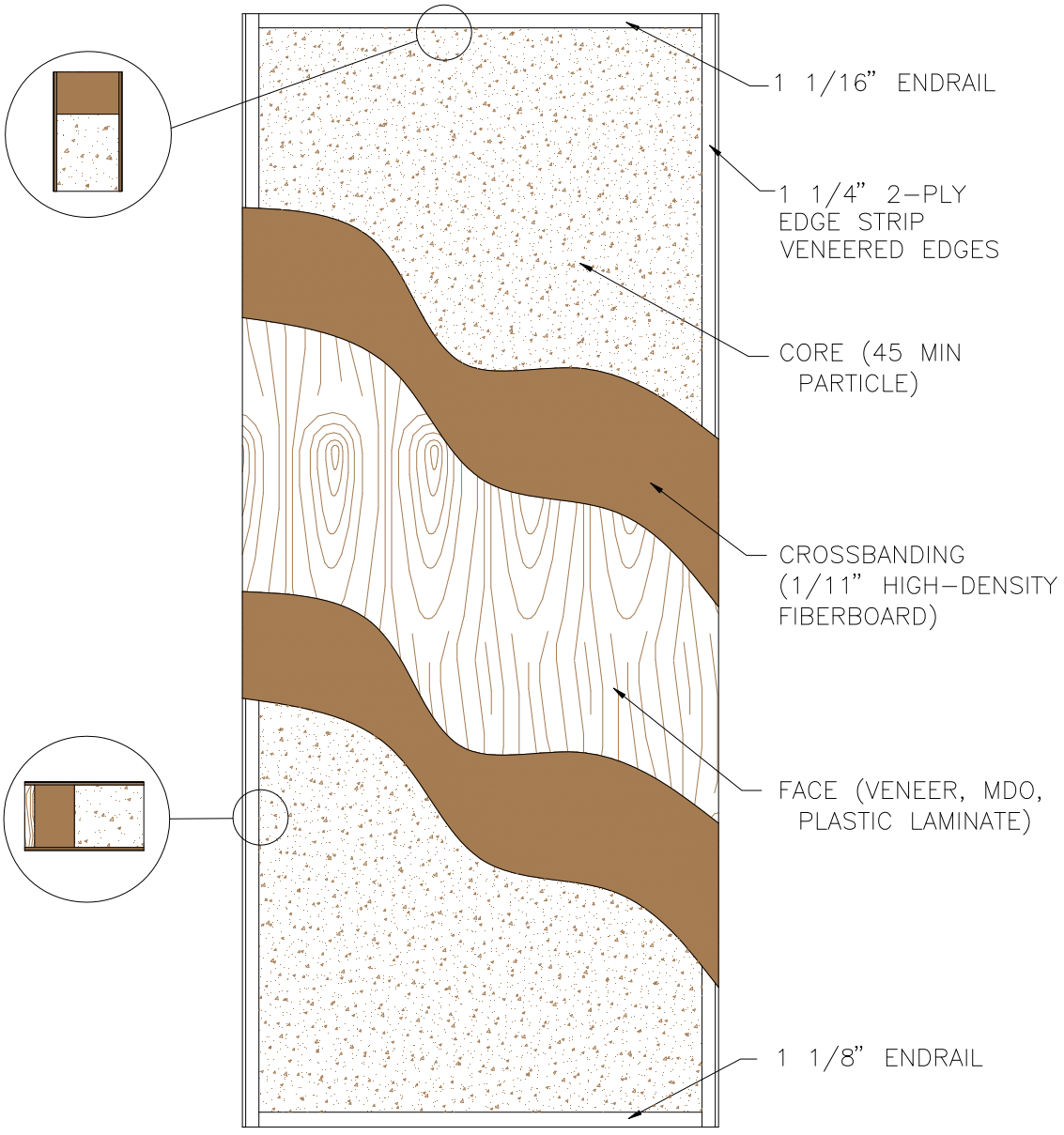
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45-Minute Particle Core-Category B-Veneered Edge
Door Construction

No. 381V-01-10

Eggers Industries



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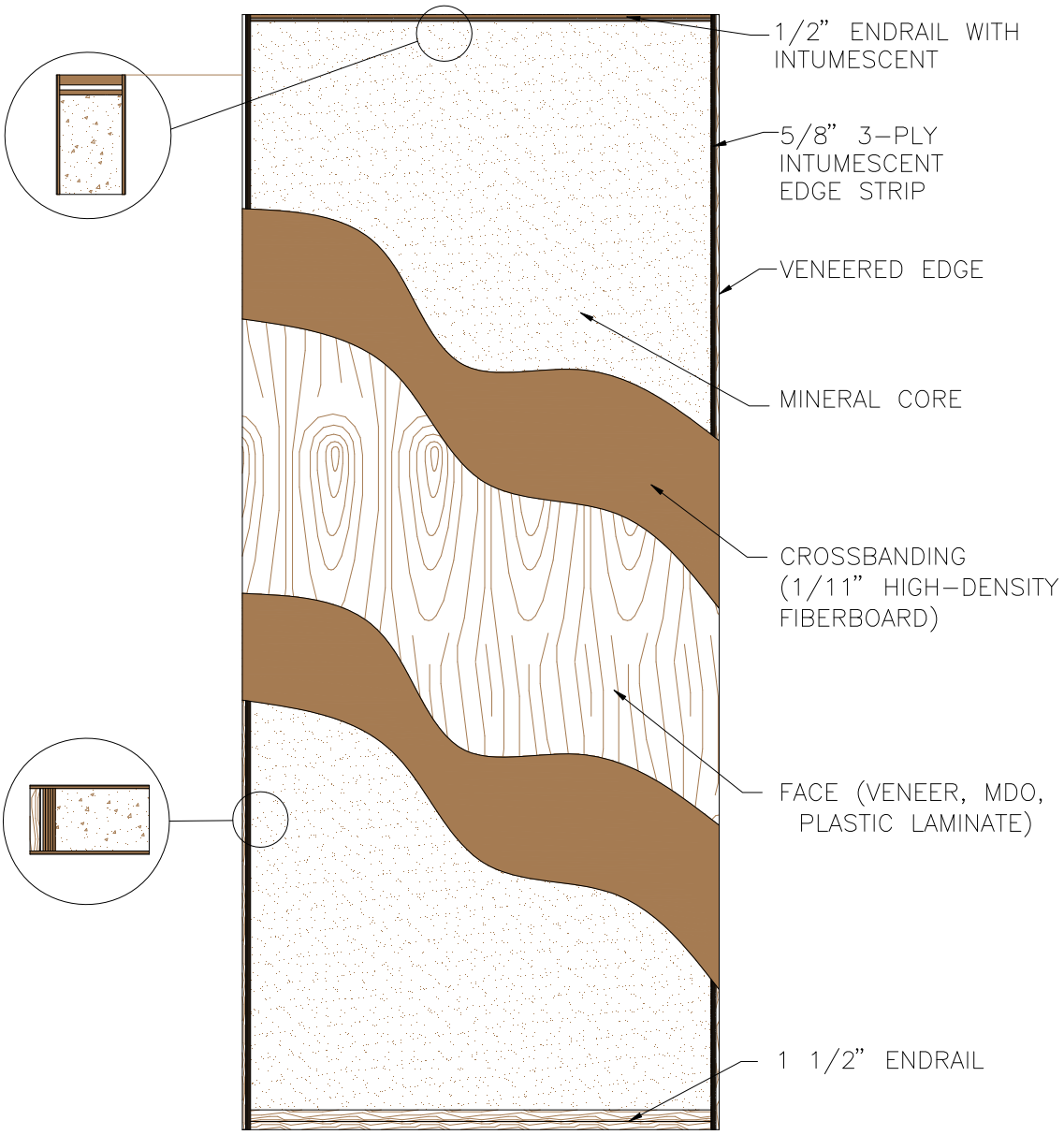
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45-90 Minute Mineral Core-Category A – Veneered Edge

Door Construction

No. 344-01-10

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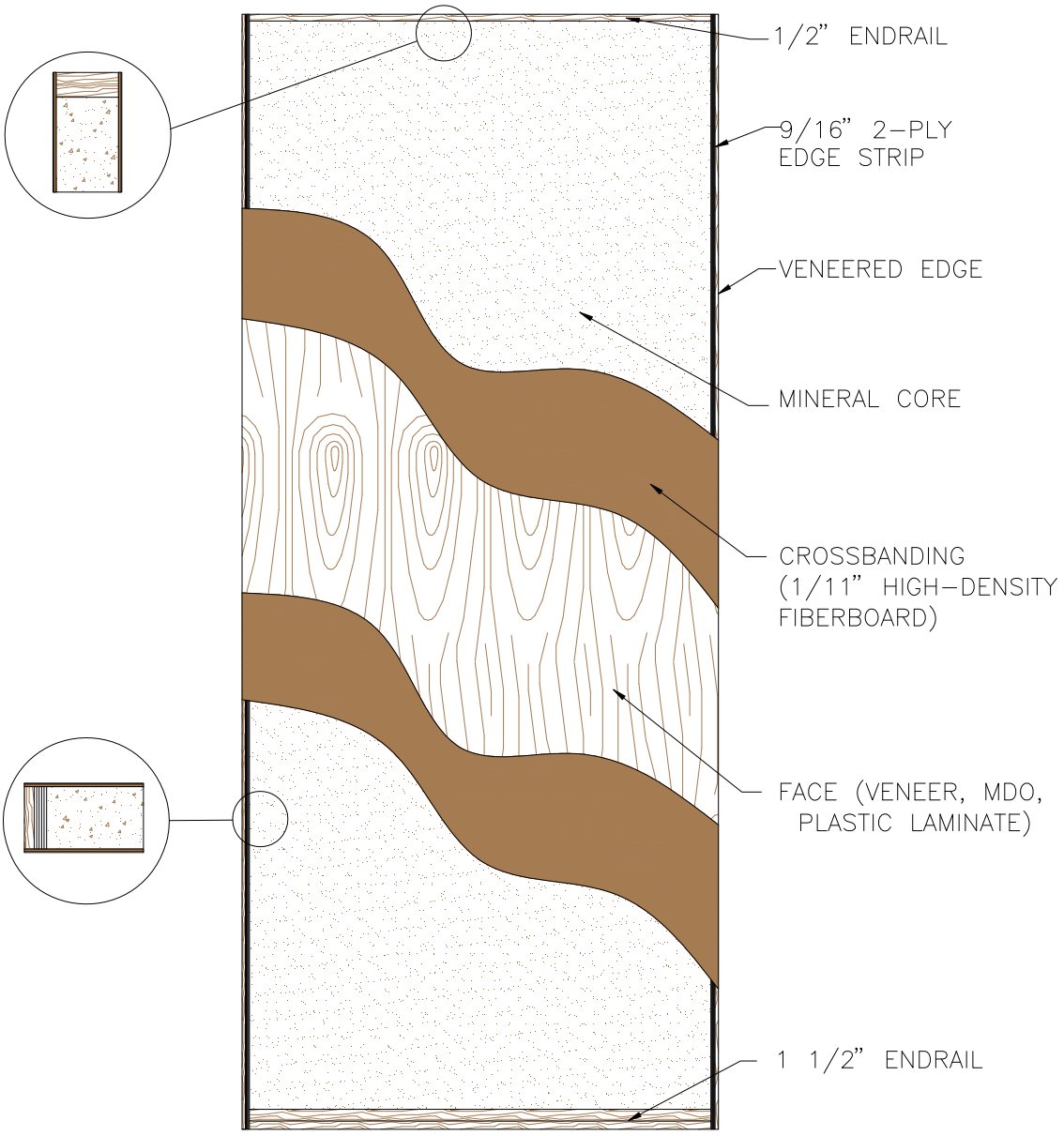
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45-90 Minute Mineral Core-Category B – Veneered Edge

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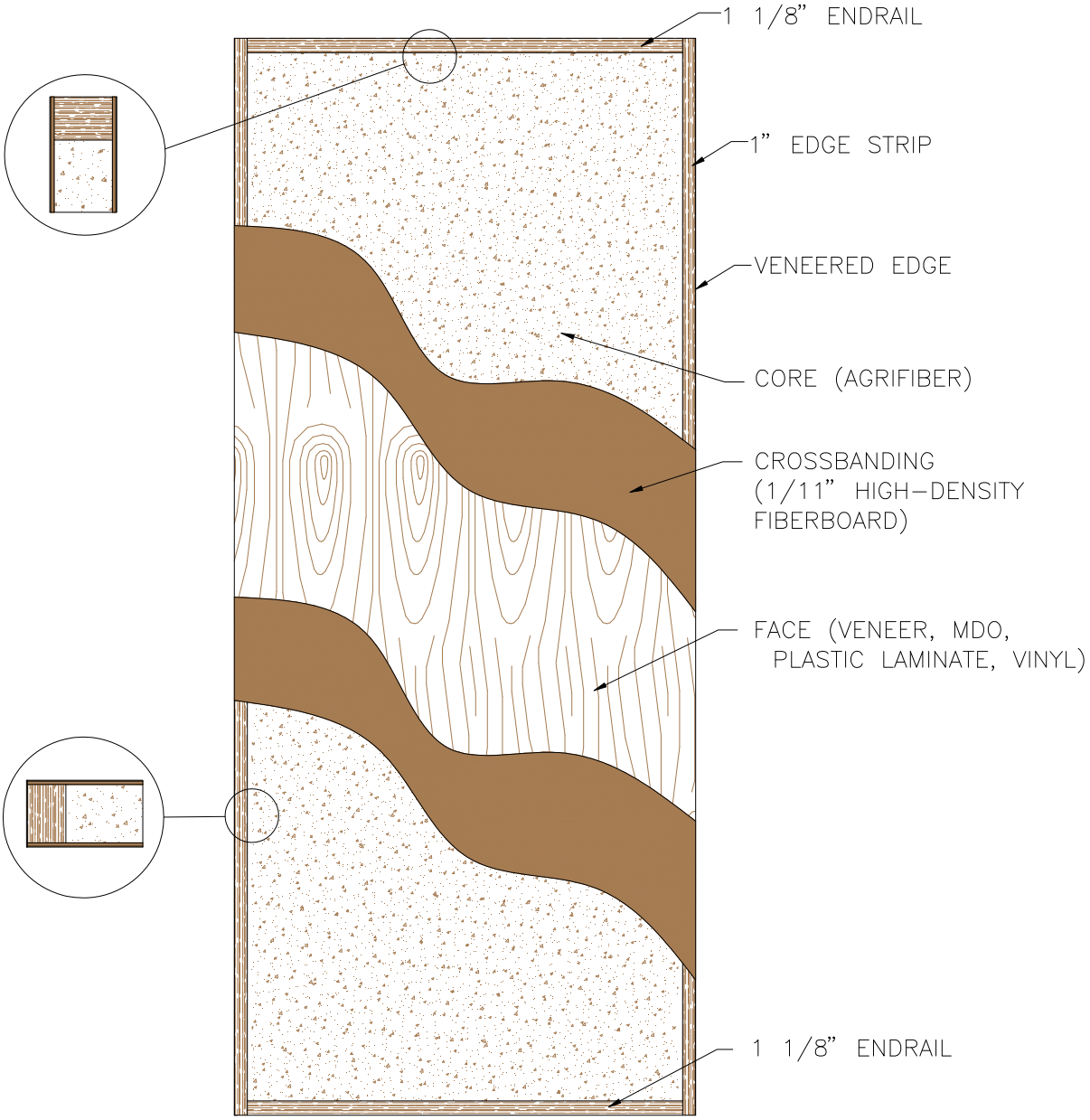
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Agrifiber Core – Veneered Edge
Door Construction

No. 205V-01-10

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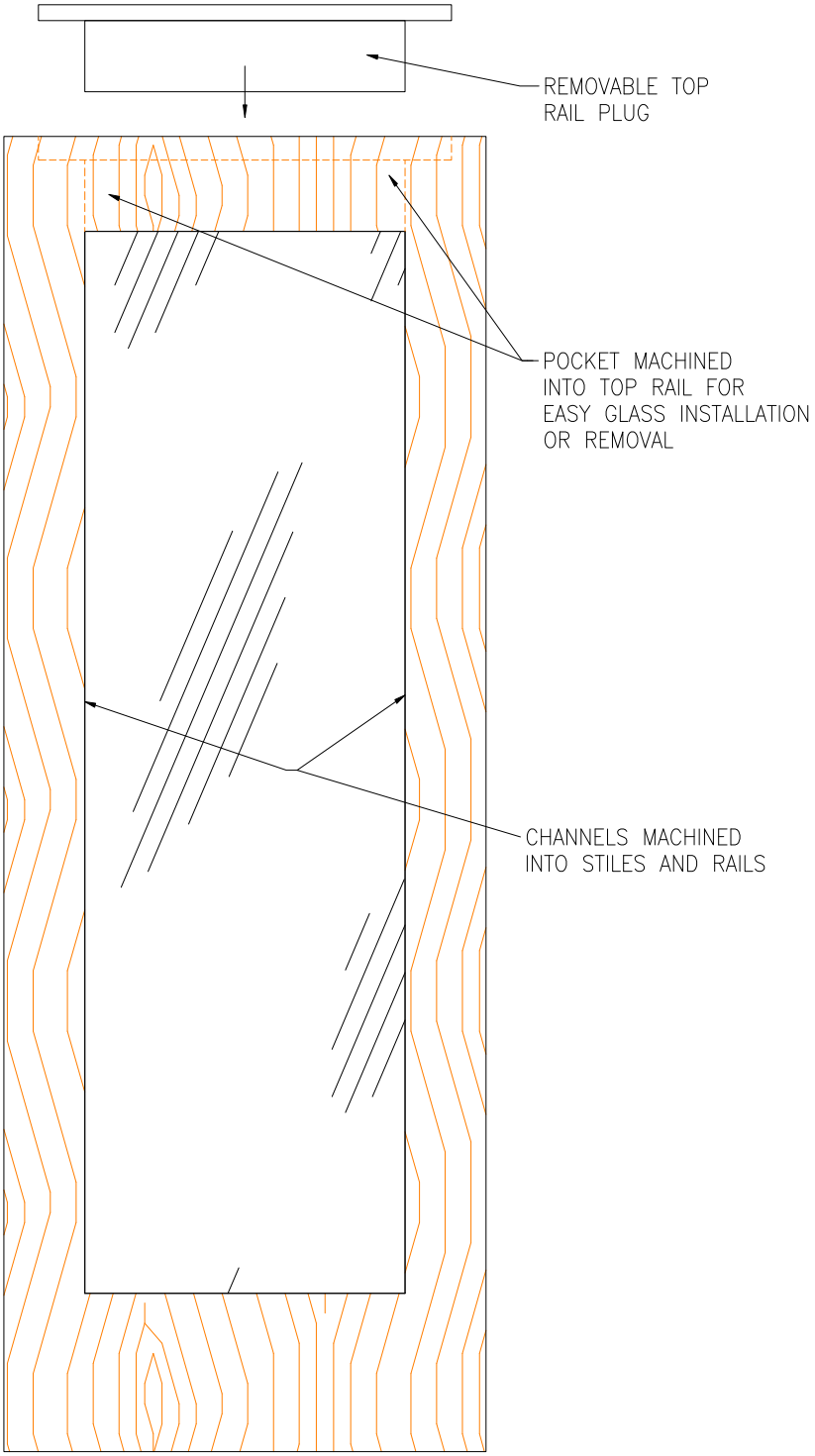
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email: sales@eggersindustries.com

Beadless Lite
Door Construction

No. 609-01-10

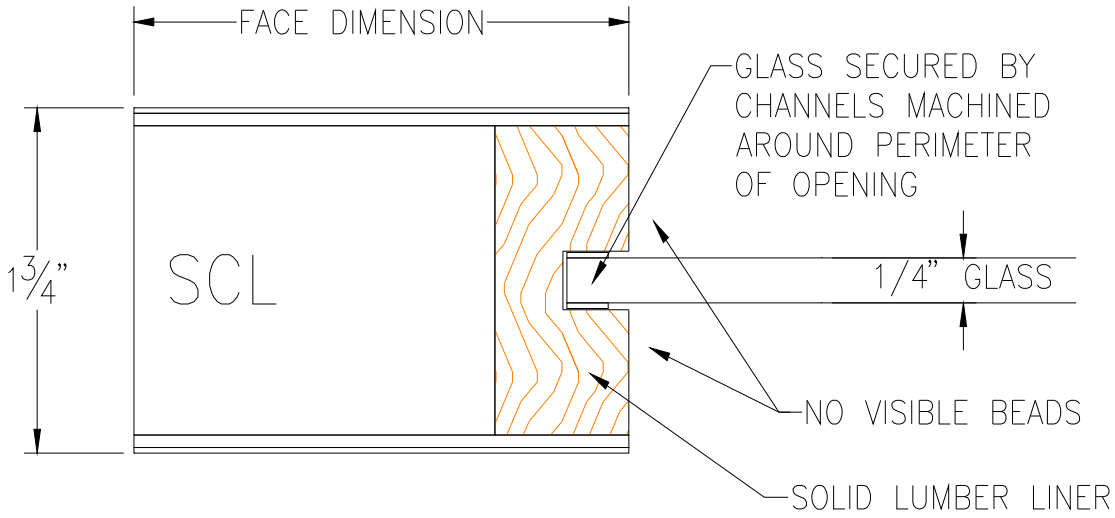
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Beadless Lite
Door Construction

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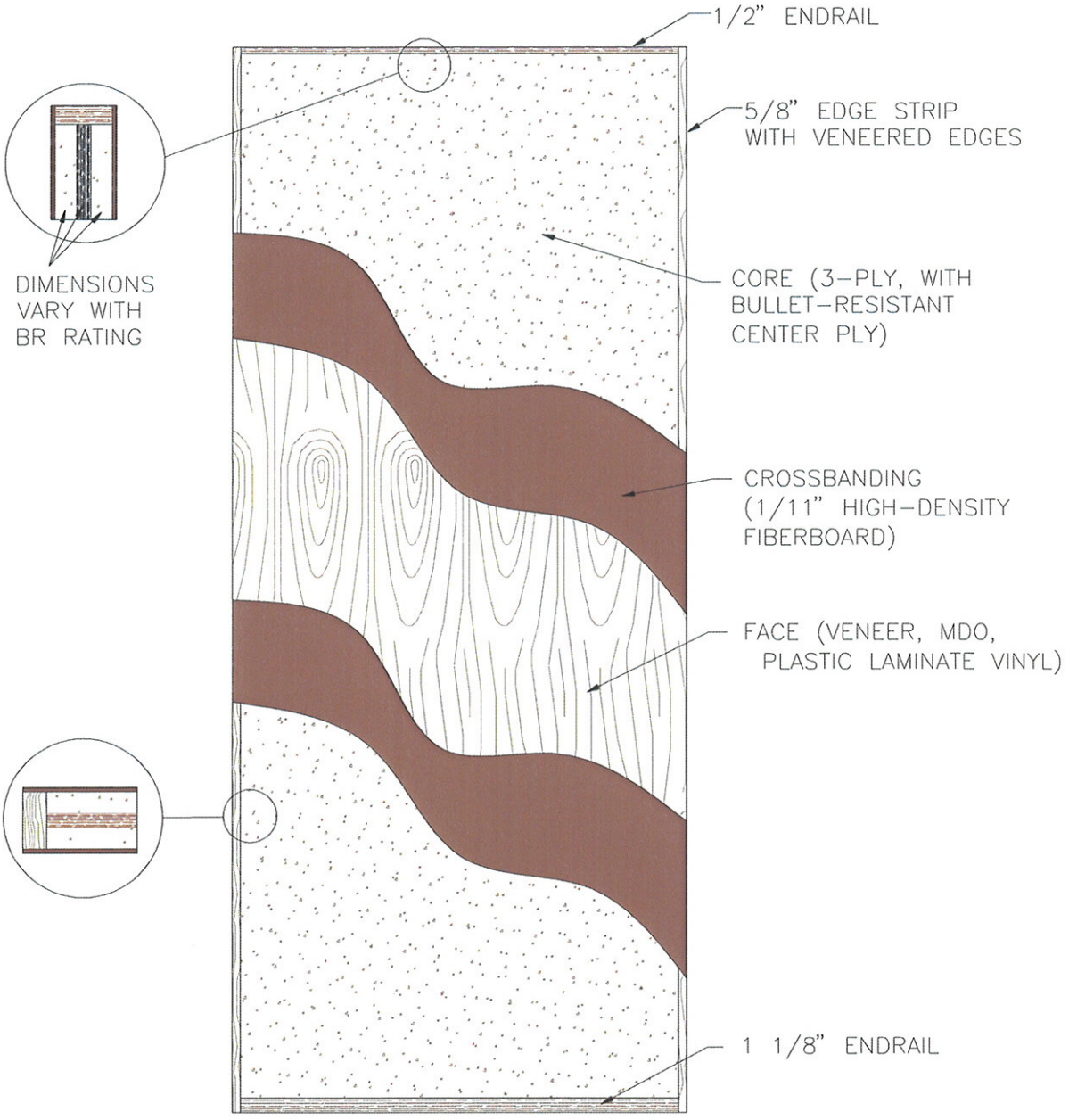
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Bullet Resistant Core - Veneered Edge
Door Construction

No. 385V-01-10

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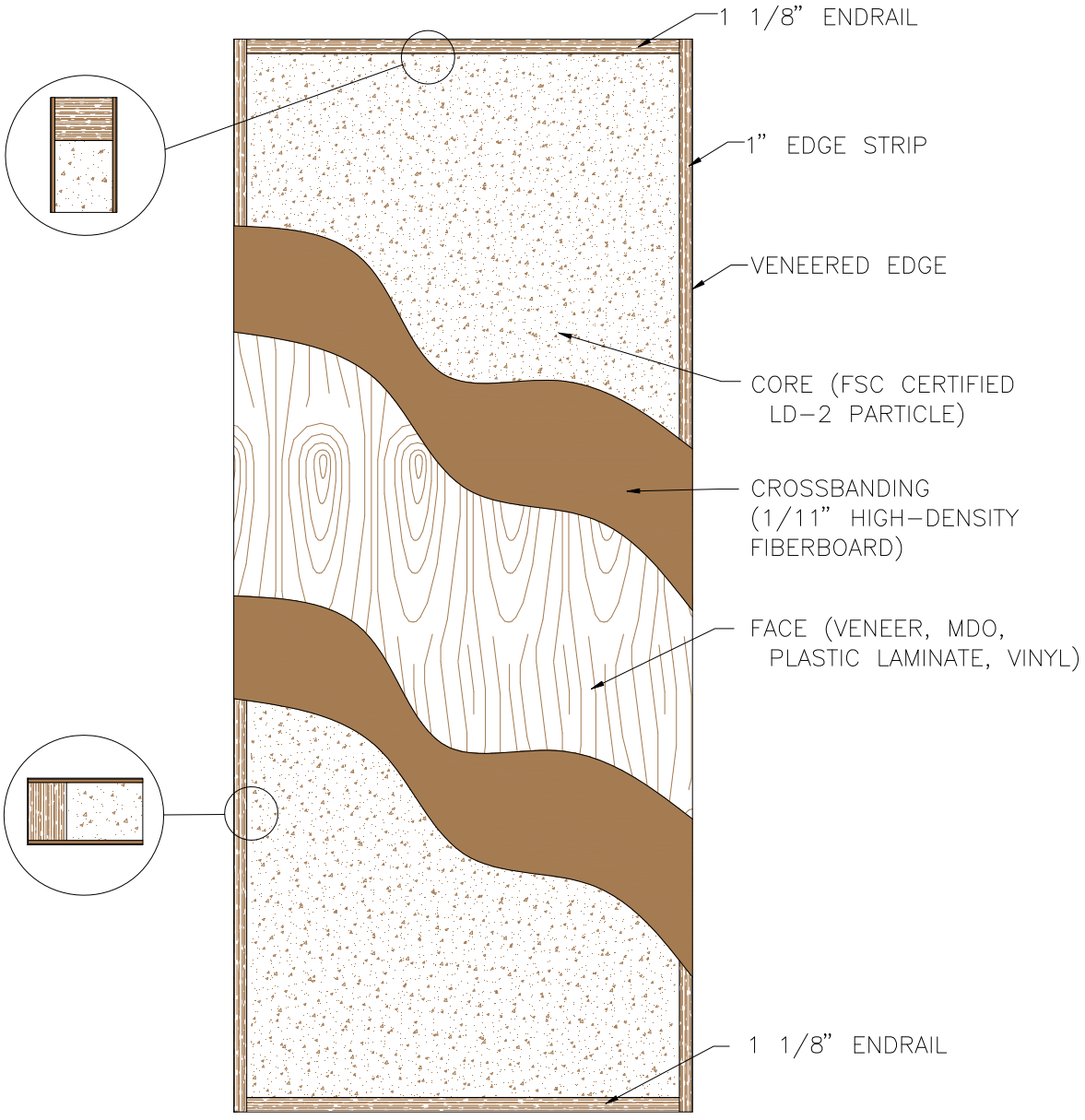
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FSC Certified Particle Core – Veneered Edge
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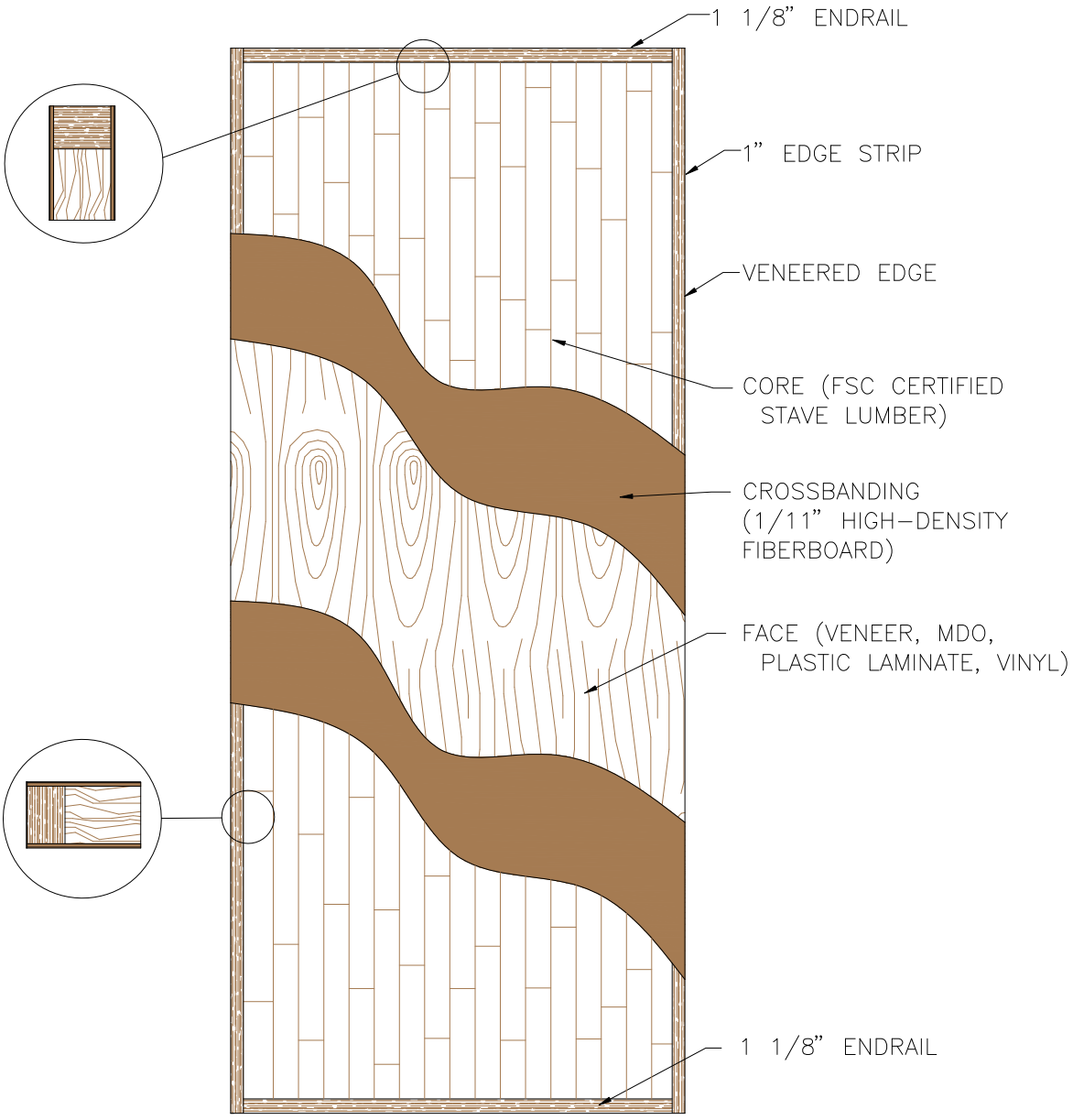
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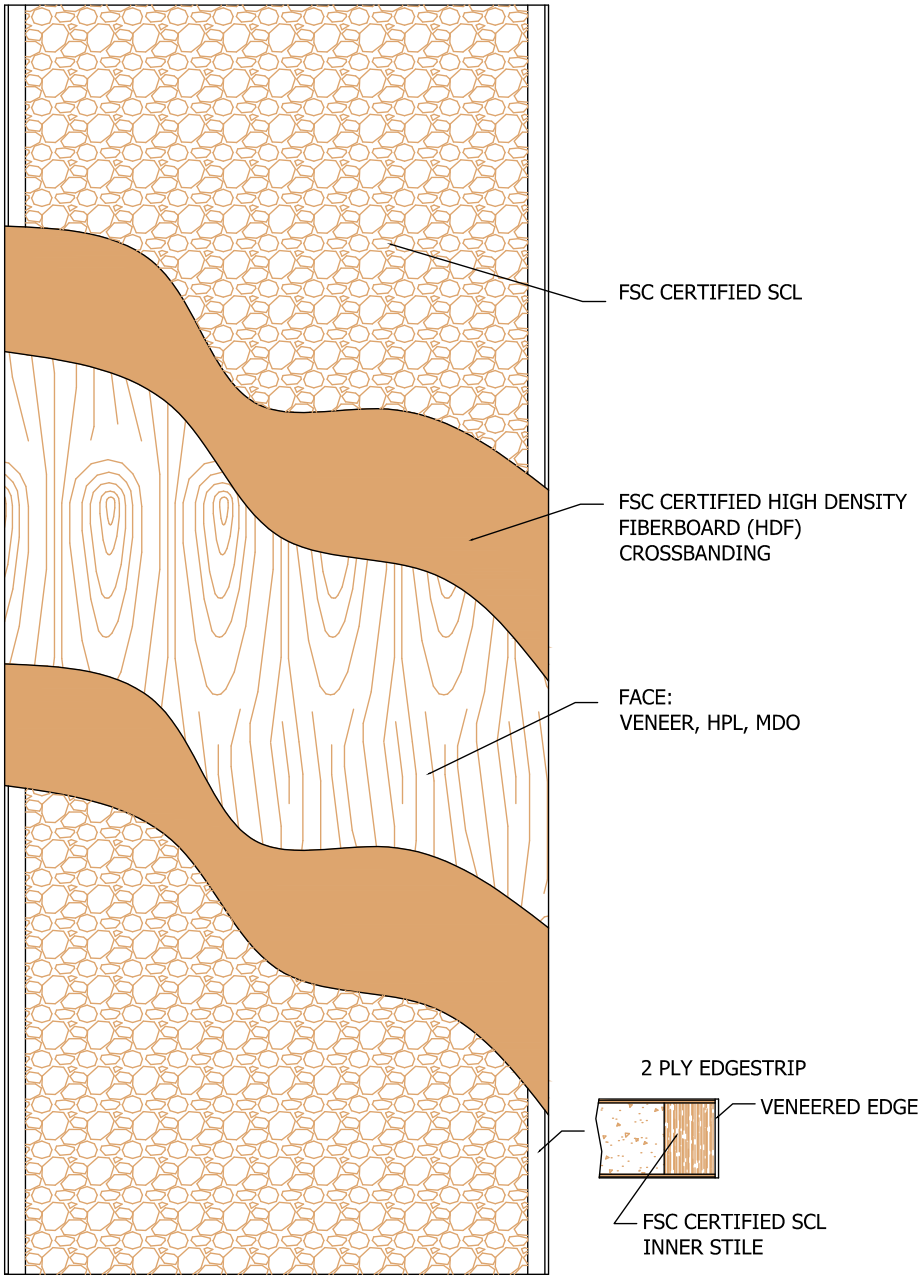
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Door Elevation

Date: May, 2015

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Custom Wood Products,
Plywood

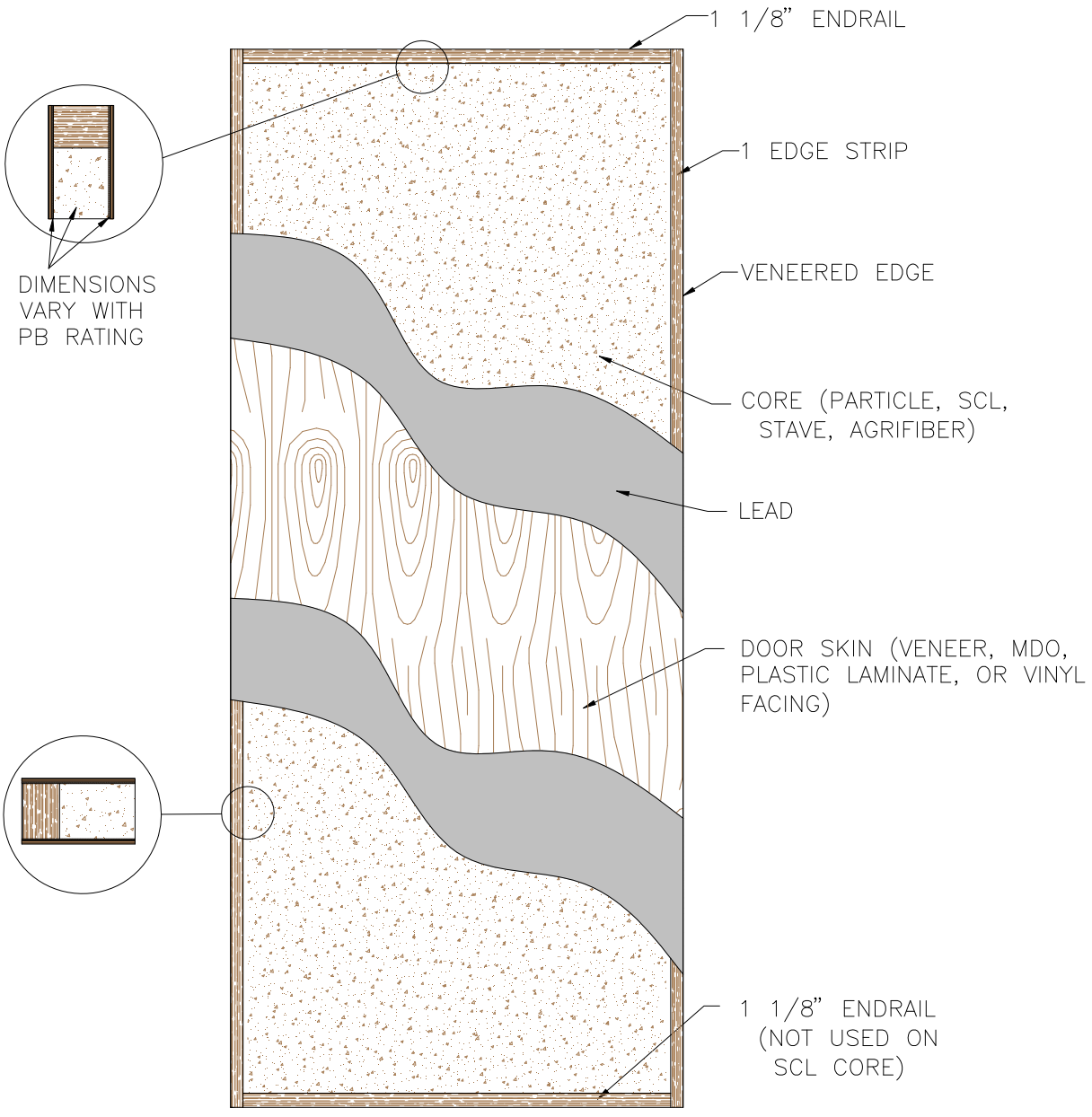
Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.849.0444

Lead Lined Door – Veneered Edge

Door Construction

No. 341V-01-10

Eggers Industries



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Two Rivers Division
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Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

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Flush Doors

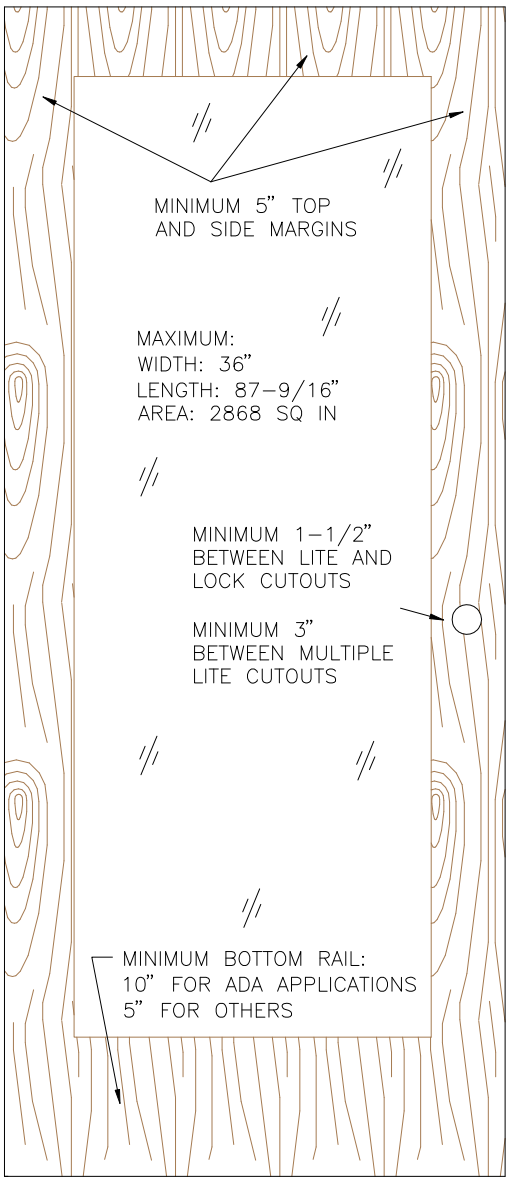
Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

email: sales@eggersindustries.com

Full Lite – 20 Minute
Door Construction

No. 386-01-10

Eggers Industries



SCL OR
STAVE CORE
CONSTRUCTION

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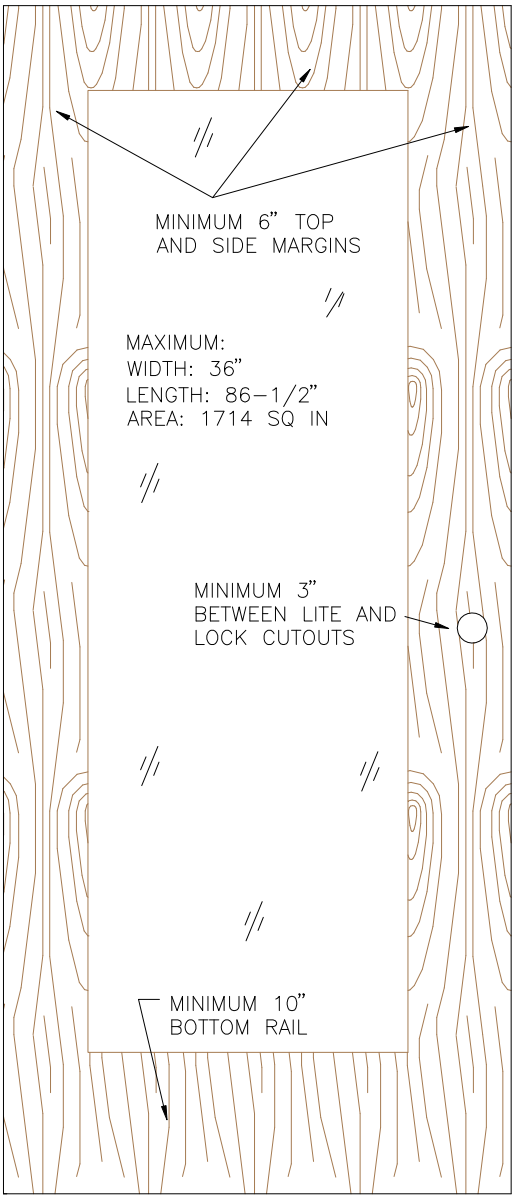
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164 North Lake Street
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Fax: 920.722.0357

email: sales@eggersindustries.com

Full Lite – 45 Minute
Door Construction

No. 370-01-10

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SPECIAL MINERAL
CORE DOOR
CONSTRUCTION

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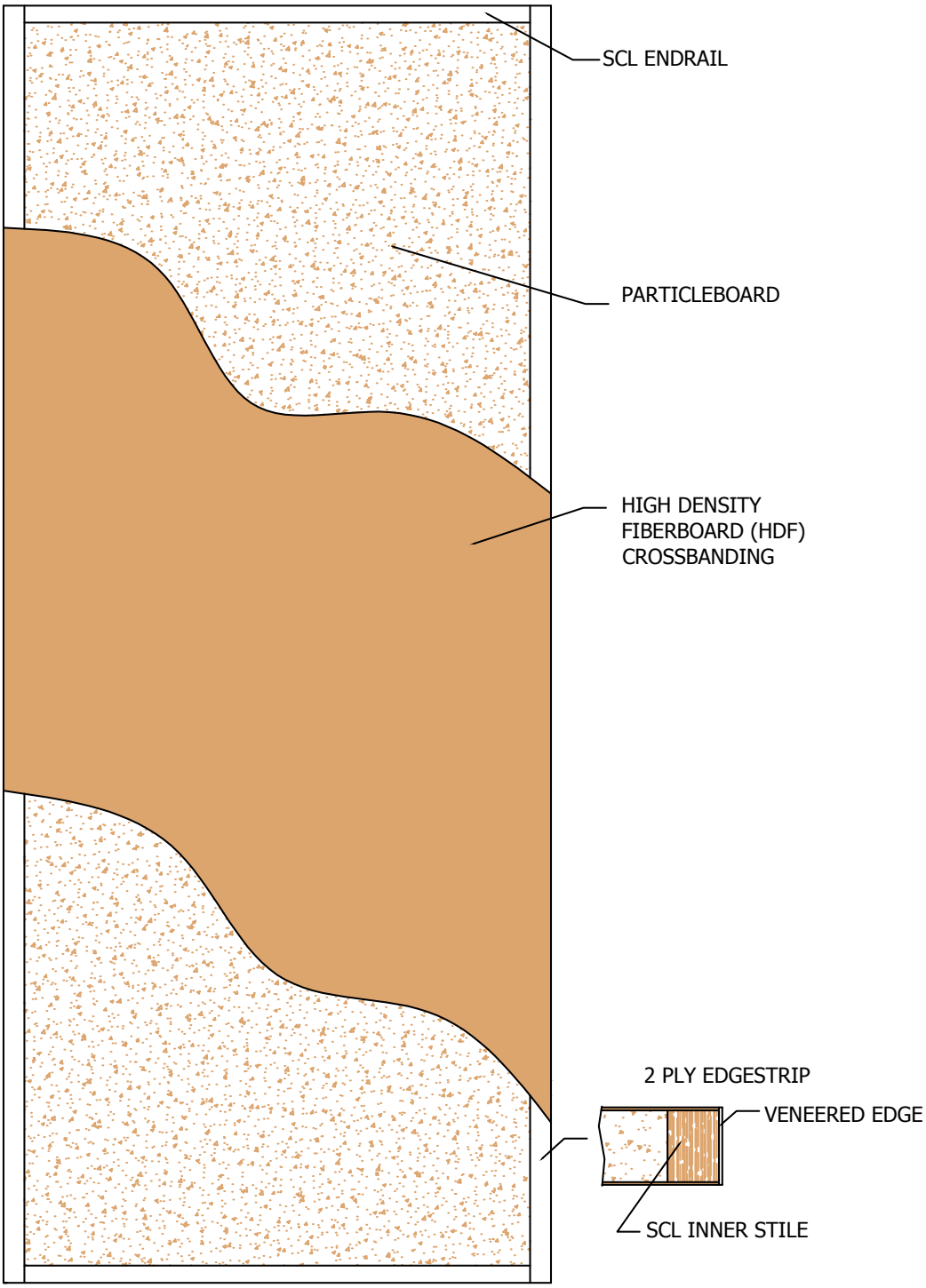
Neenah Division
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Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

email: sales@eggersindustries.com

Paintable Surface - Particle Core
Door Elevation

Date: August, 2015

Eggers Industries



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Veneered Components

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Fax: 920.793.2958

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Neenah, WI 54956
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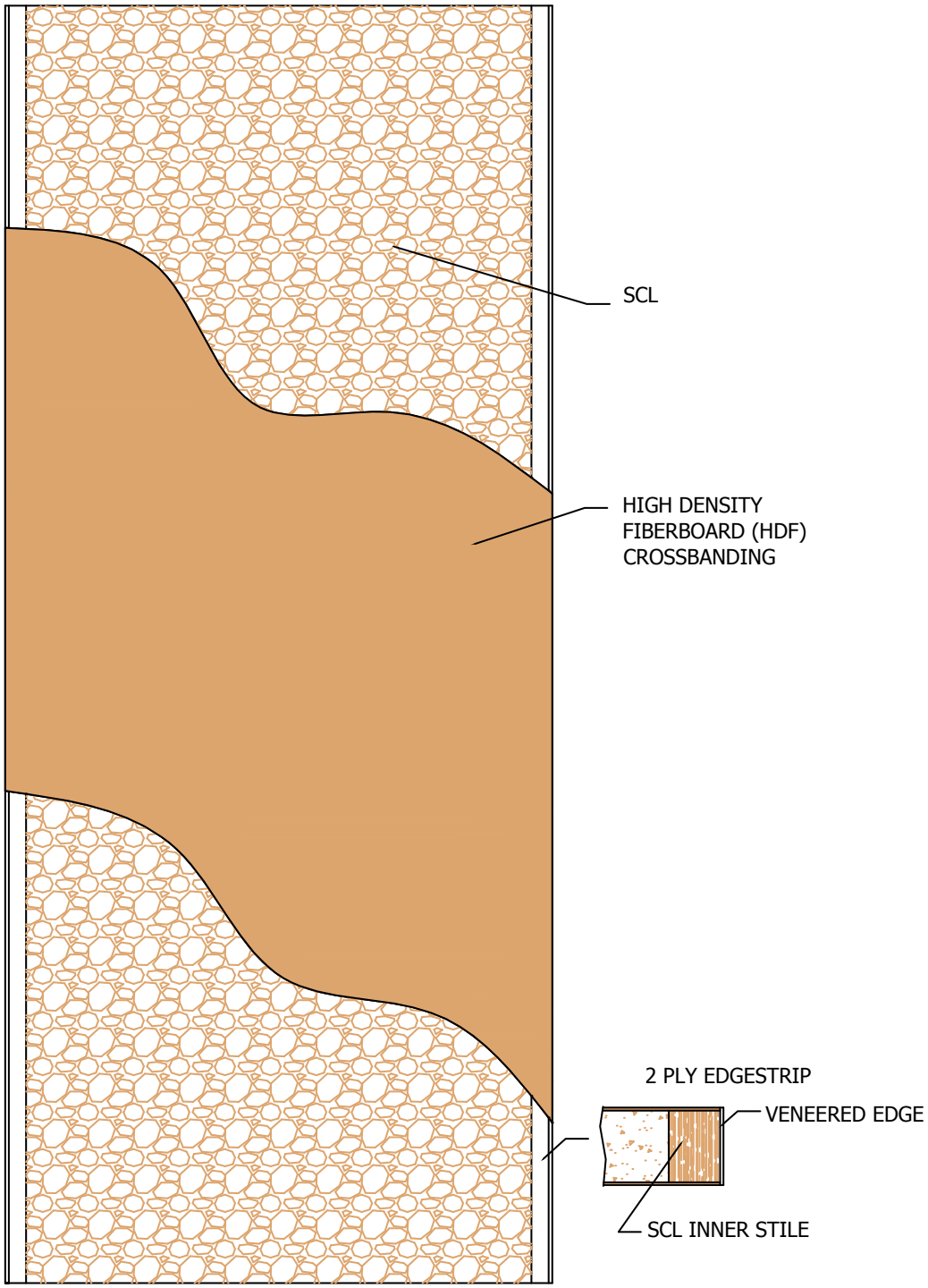
Architectural Veneer Faces,
Custom Wood Products,
Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.845.0615

Paintable Surface - SCL
Door Elevation

Date: August, 2015

Eggers Industries



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email: sales@eggersindustries.com

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Door Frames, Plywood,
Veneered Components

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Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

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164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
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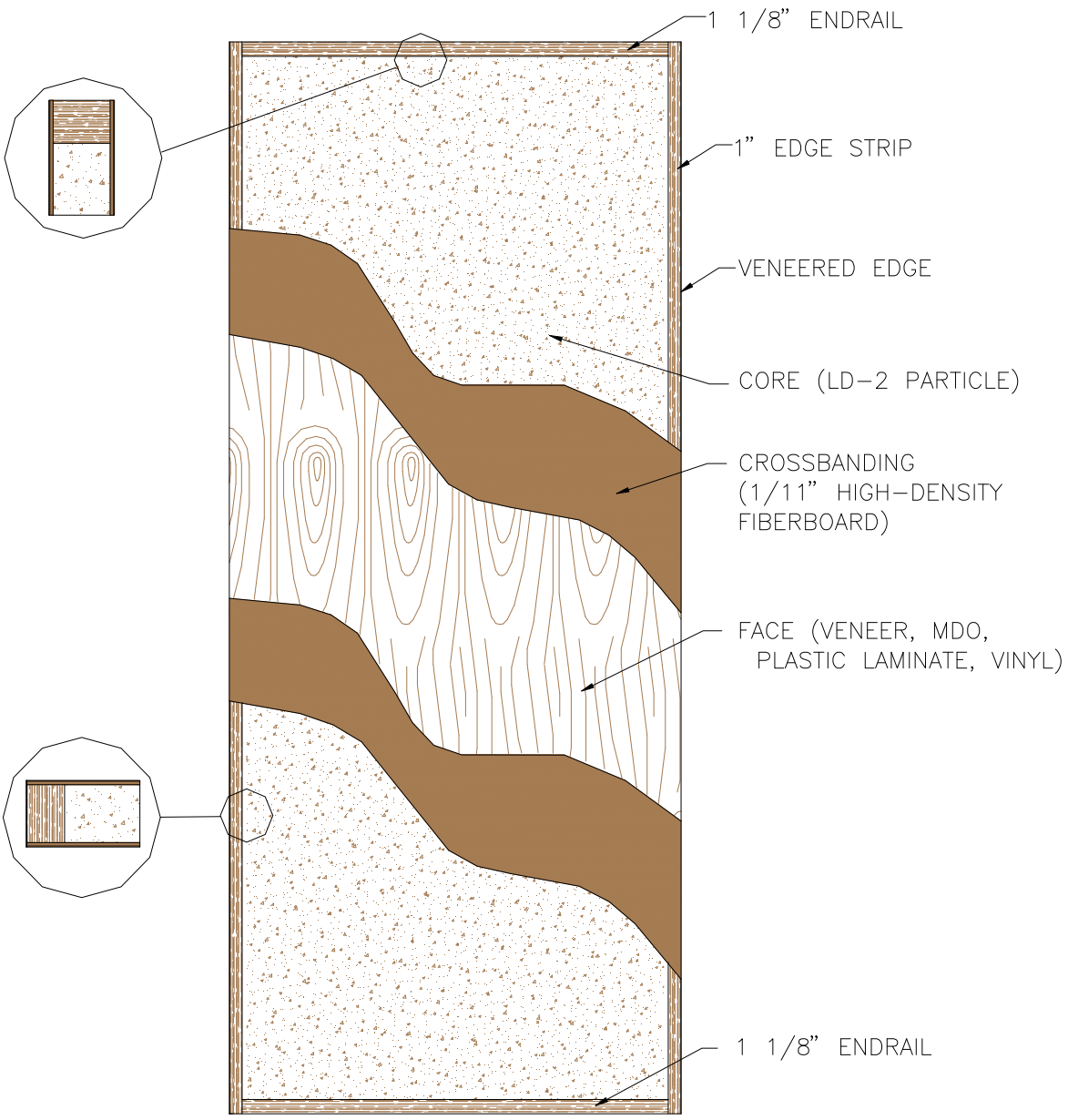
Architectural Veneer Faces,
Custom Wood Products,
Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.845.0615

Particle Core - Veneered Edge
Door Construction

No. 337V-01-10

Eggers Industries



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Fax: 920.722.0357

email: sales@eggersindustries.com



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Door Frames, Plywood

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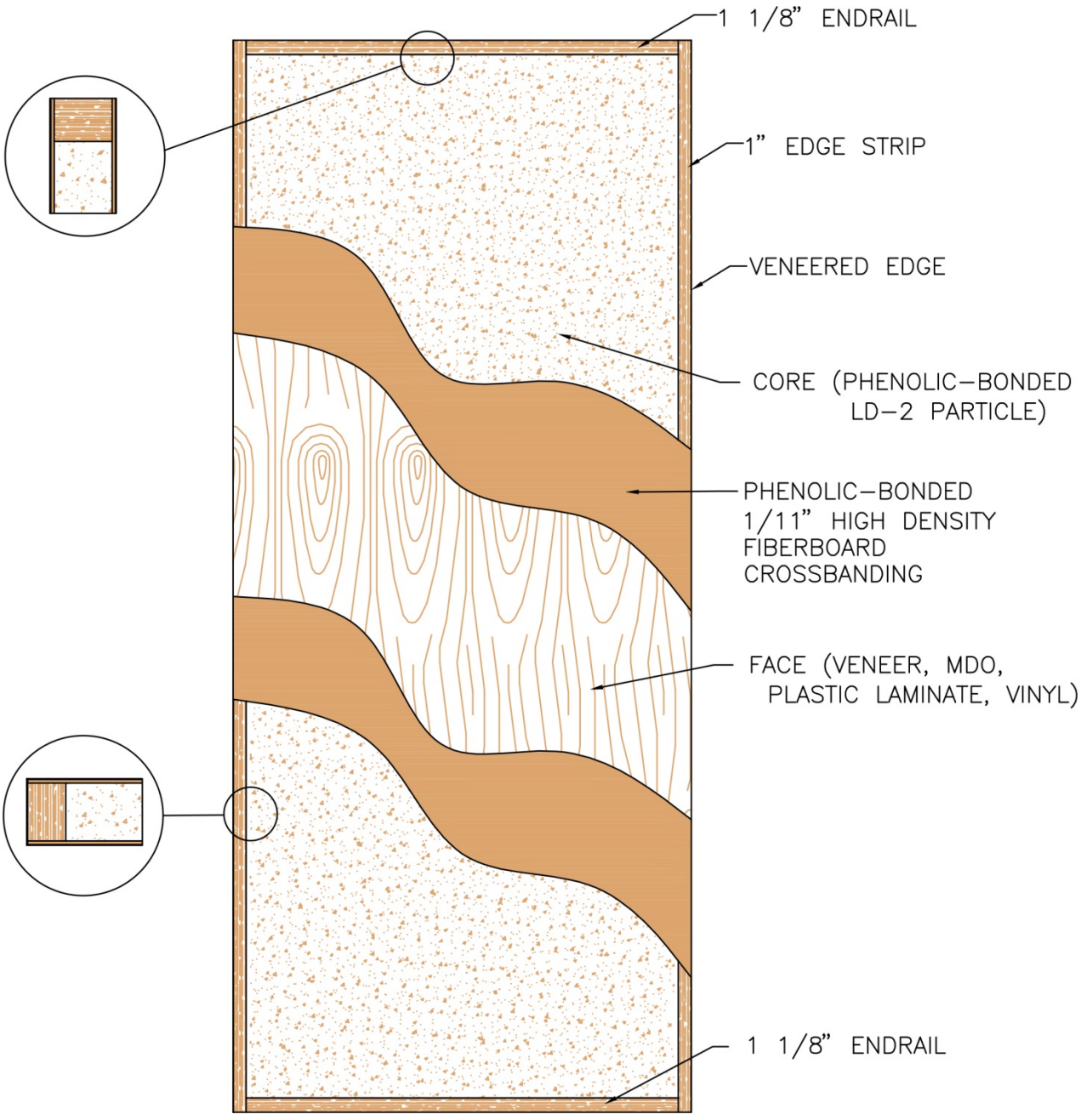
email: sales@eggersindustries.com

NAUF PARTICLE BOARD – Veneered Edge

Door Elevation

Date: July, 2016

Eggers Industries



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sales@eggersindustries.com

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Veneered Components, Plywood

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Two Rivers, WI 54241
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Fax: 920.793.2958

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Neenah, WI 54956
Phone: 920.722.6444
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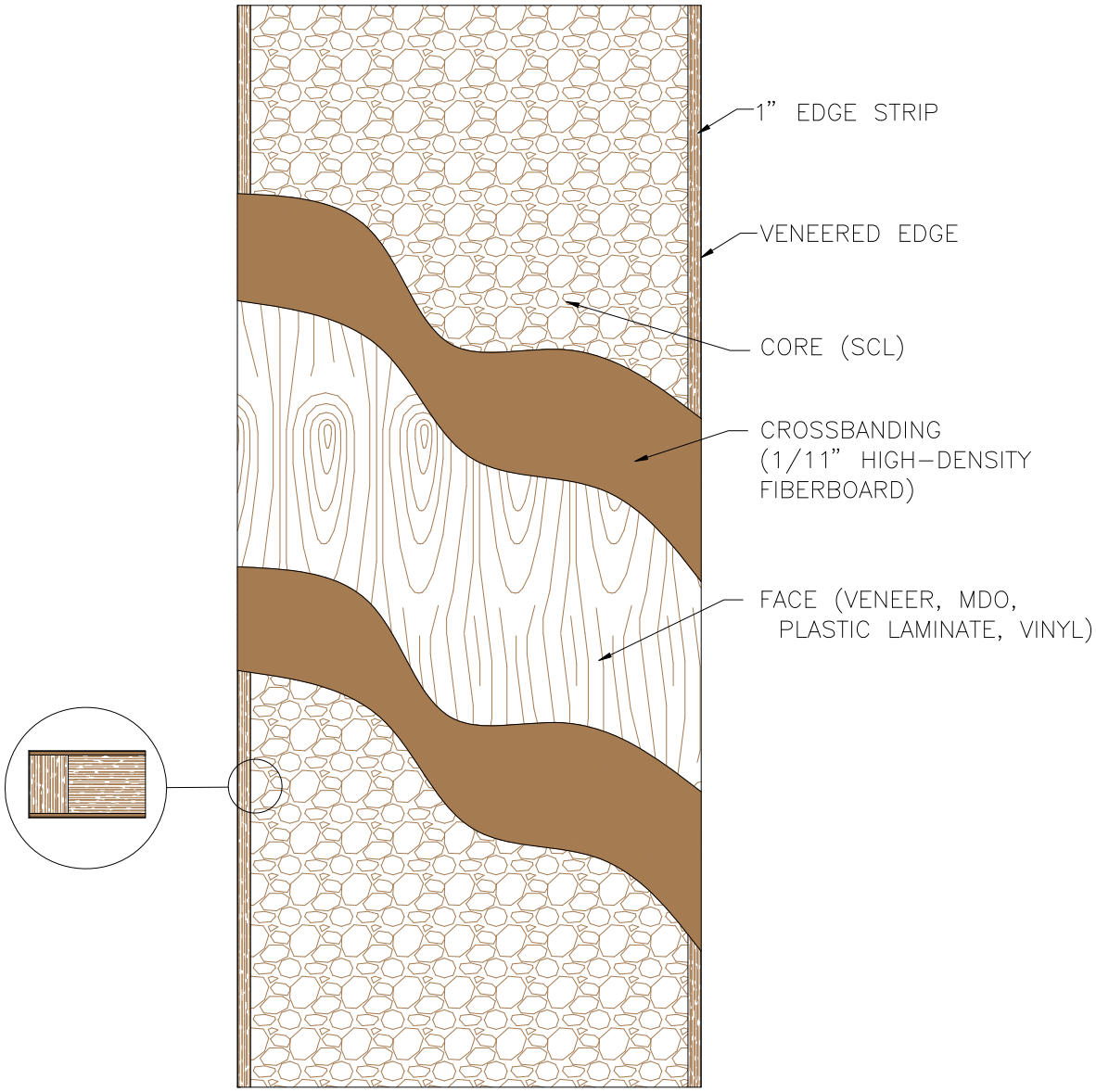
Architectural Veneer Faces,
Custom Wood Products, Plywood

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Fax: 502.667.1051

SCL Core - Veneered Edge
Door Construction

No. 382V-01-10

Eggers Industries



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Flush Doors

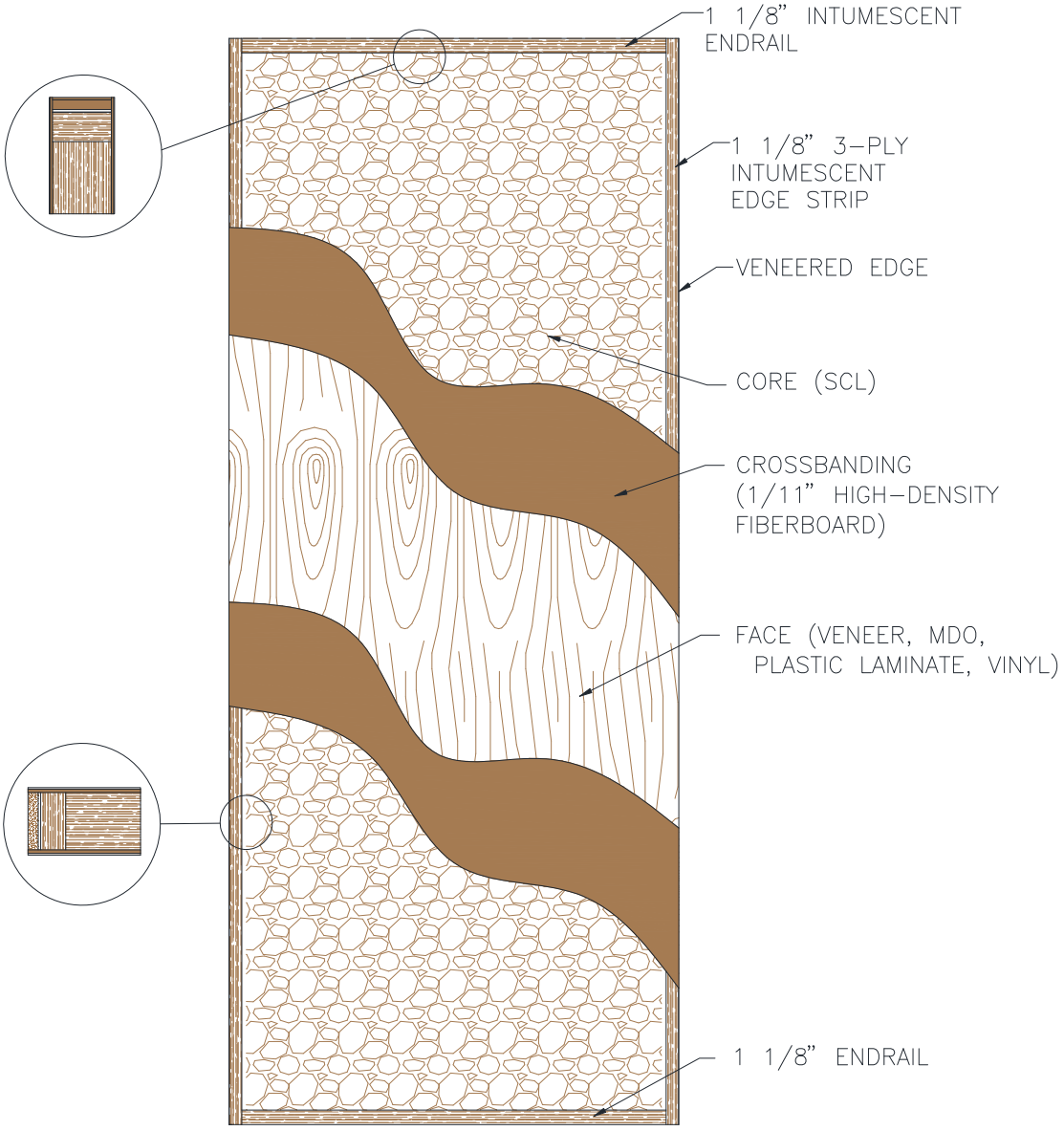
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Neenah, WI 54956
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Fax: 920.722.0357

email: sales@eggersindustries.com

20-Minute, Category A, SCL Core
Door Construction

Date: November, 2013

Eggers Industries



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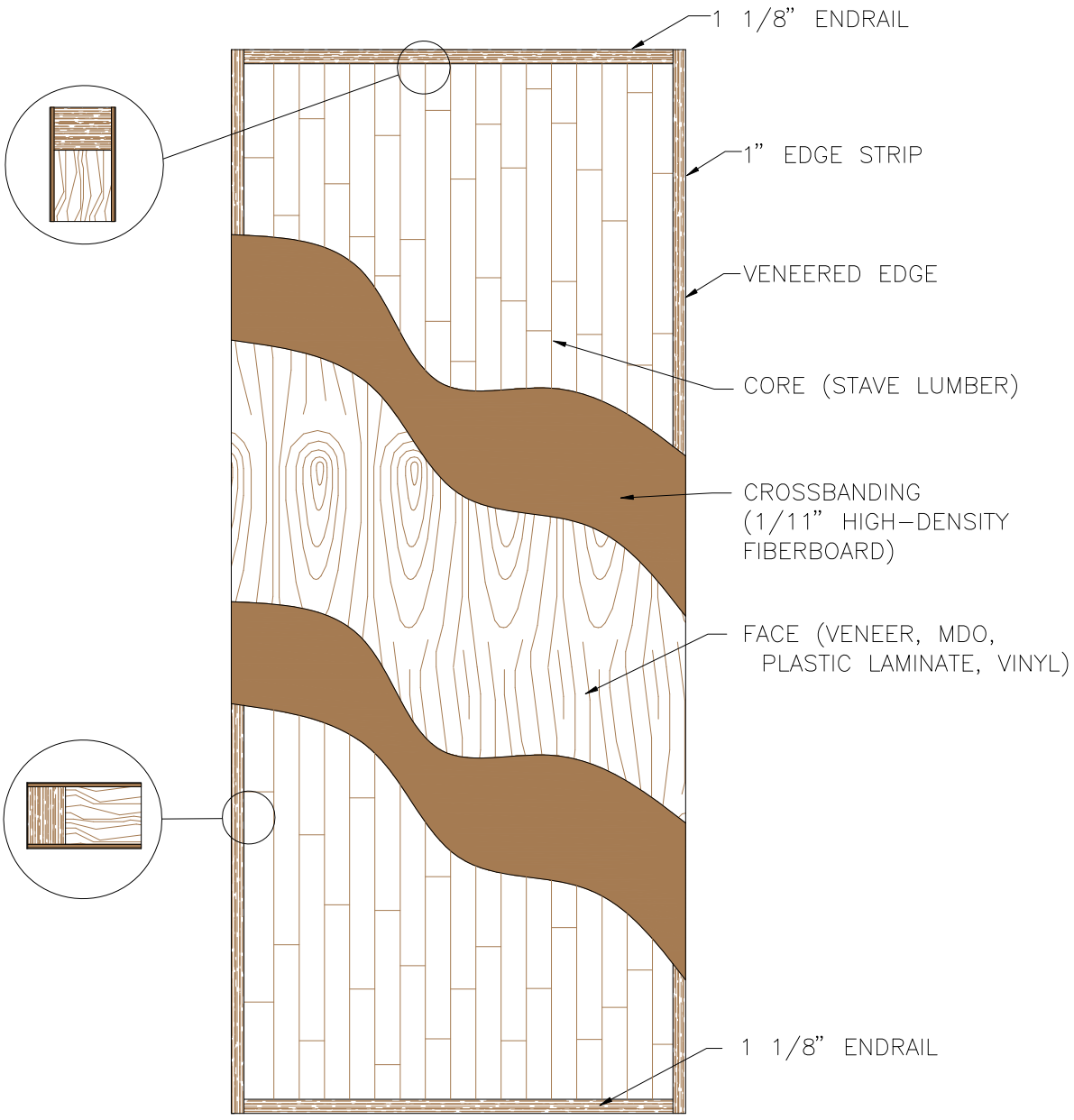
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Smithfield, KY 40068
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Stave Core - Veneered Edge
Door Construction

No. 511V-01-10

Eggers Industries



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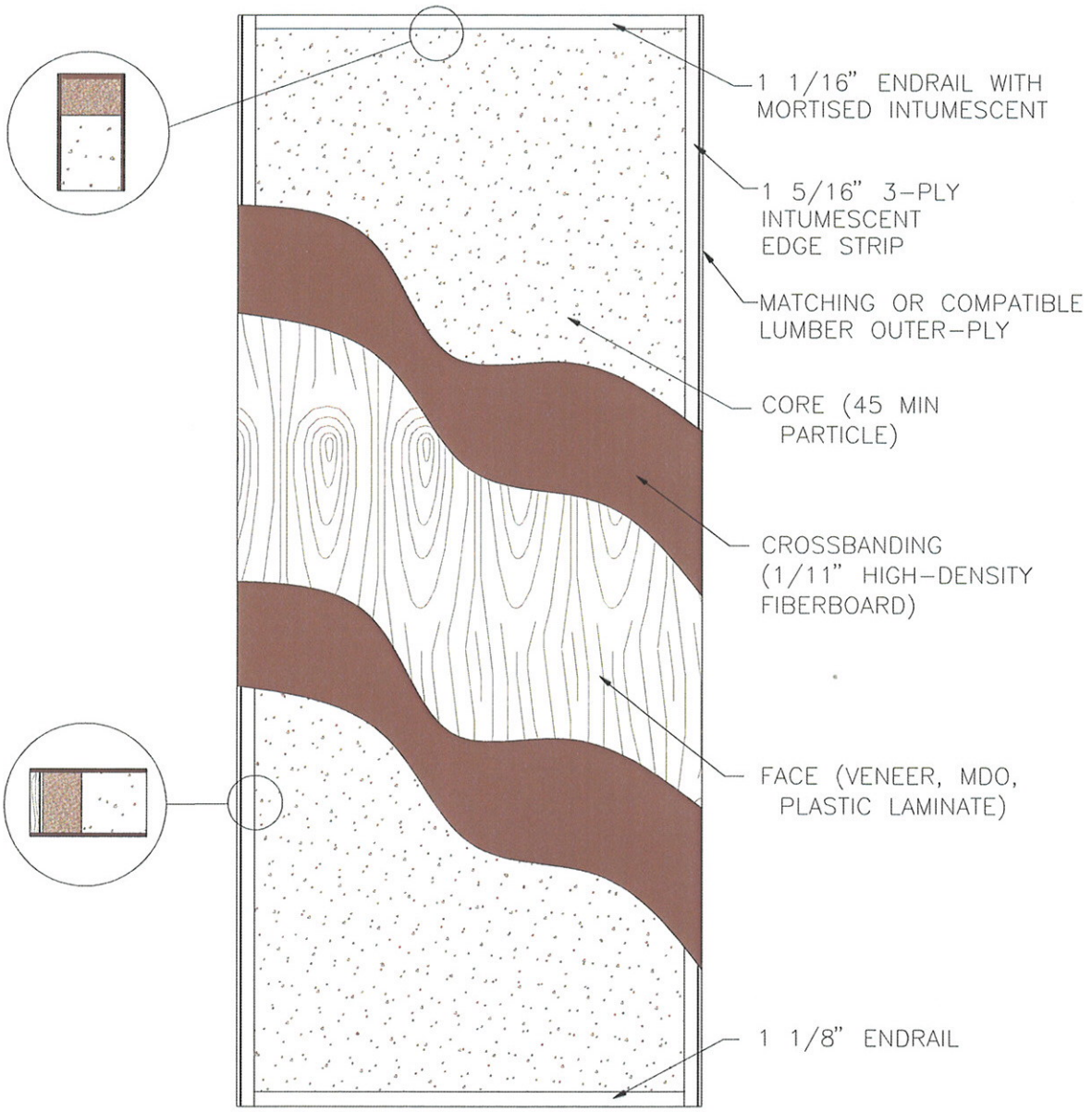
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Fax: 920.722.0357

email: sales@eggersindustries.com

45 Minute Particle Core – Category A
Door Construction

No. 380-01-10

Eggers Industries



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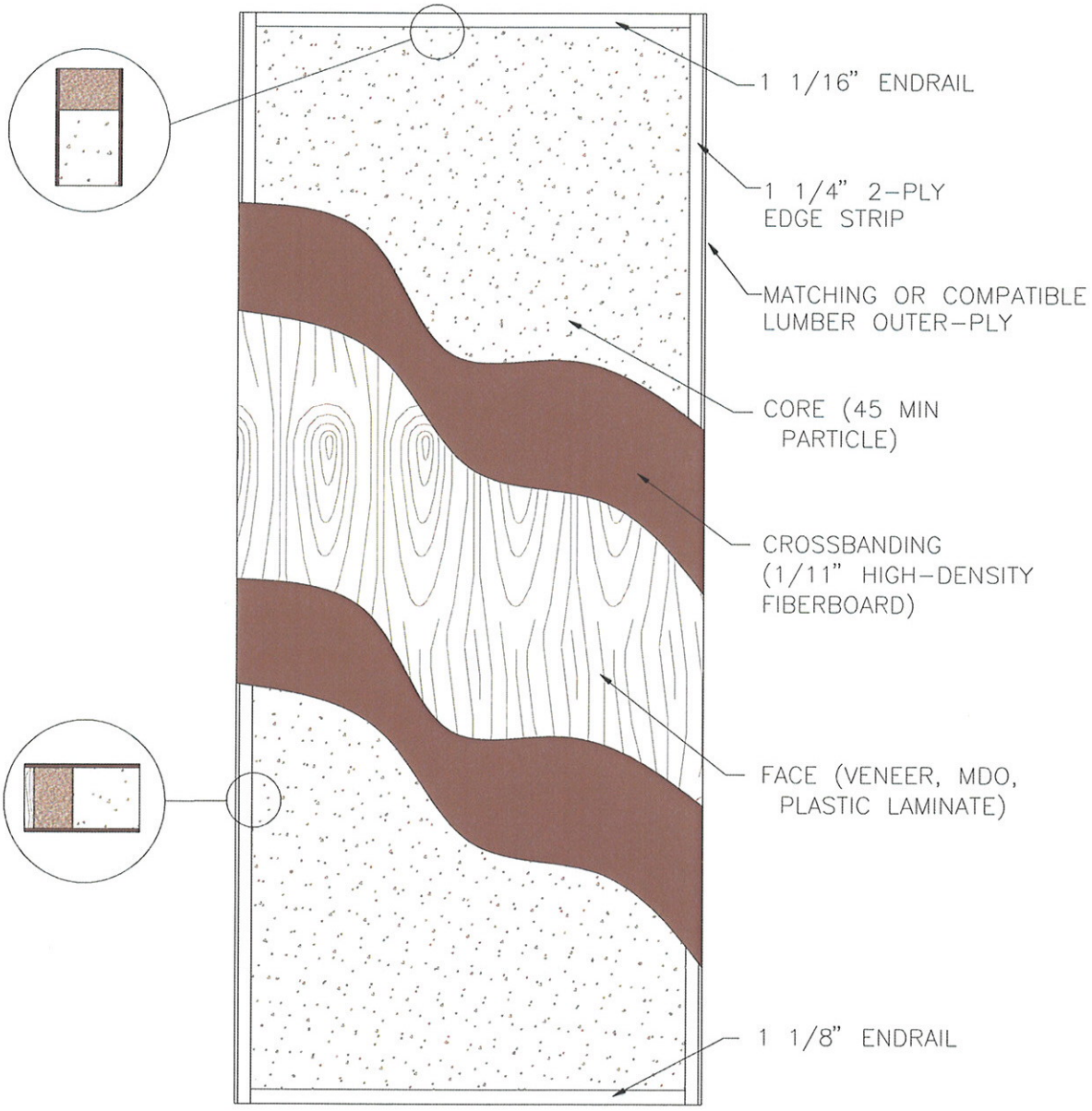
email: sales@eggersindustries.com

45 Minute Particle Core – Category B

Door Construction

No. 381-01-10

Eggers Industries



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Flush Doors

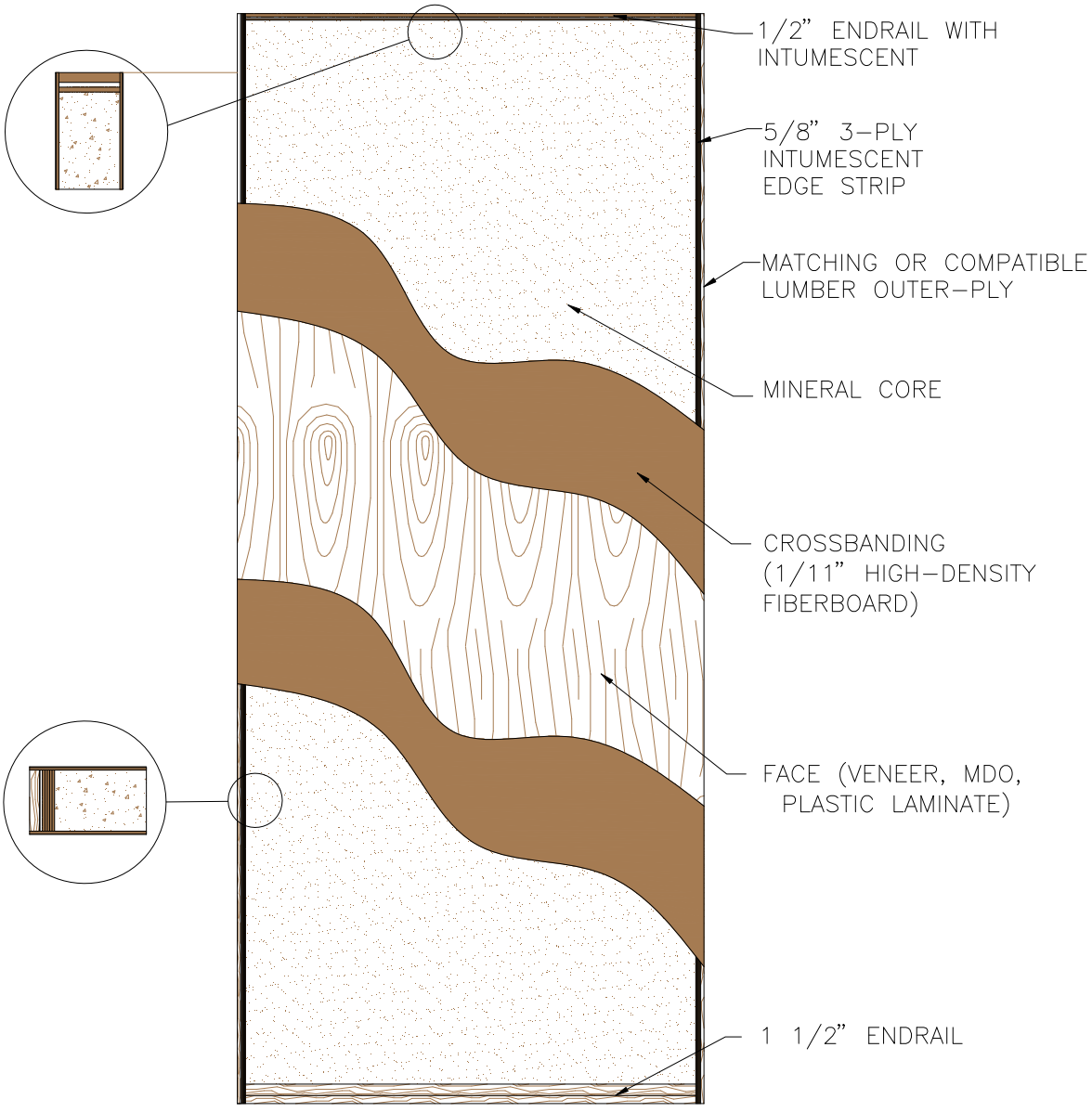
Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

email: sales@eggersindustries.com

45-90 Minute Mineral Core – Category A
Door Construction

No. 340-01-10

Eggers Industries



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Flush Doors

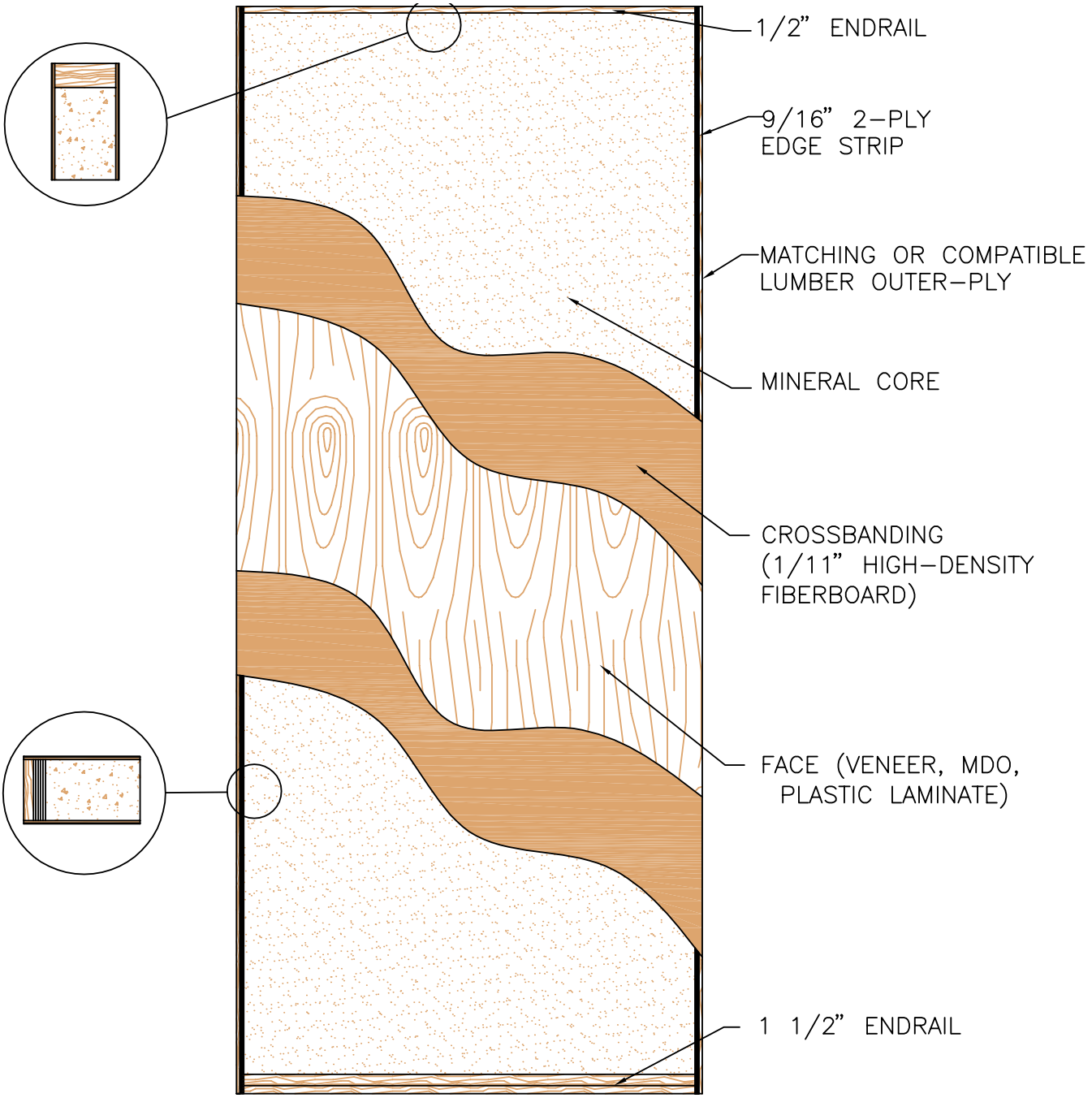
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45-90-MINUTE MINERAL CORE - CATEGORY B

Door Elevation

Date: January, 2016

Eggers Industries



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Fax: 920.793.2958

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Fax: 920.722.0357

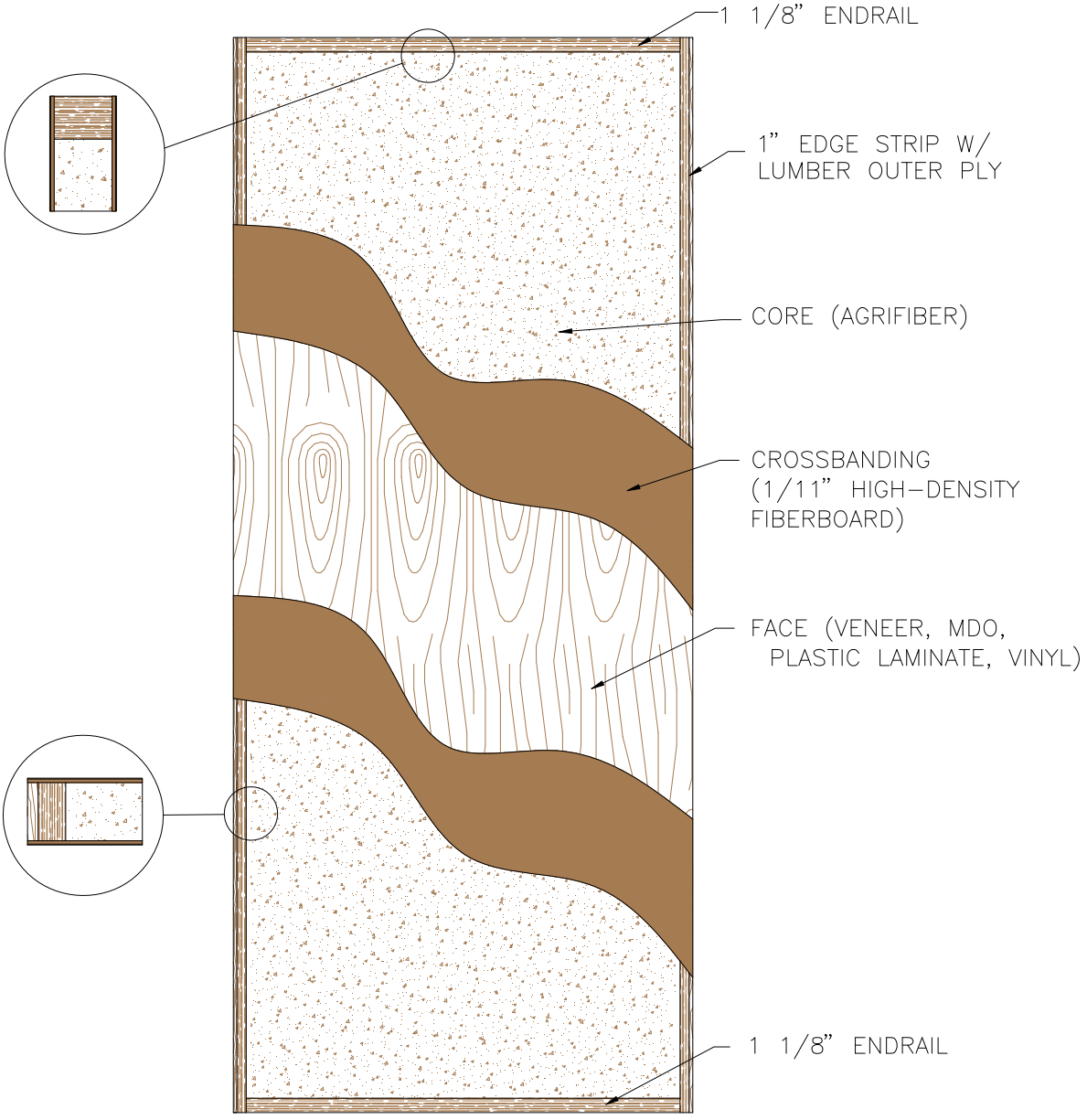
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Plywood

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Agrifiber Core – Lumber Edge
Door Construction

No. 205-01-10

Eggers Industries



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Flush Doors

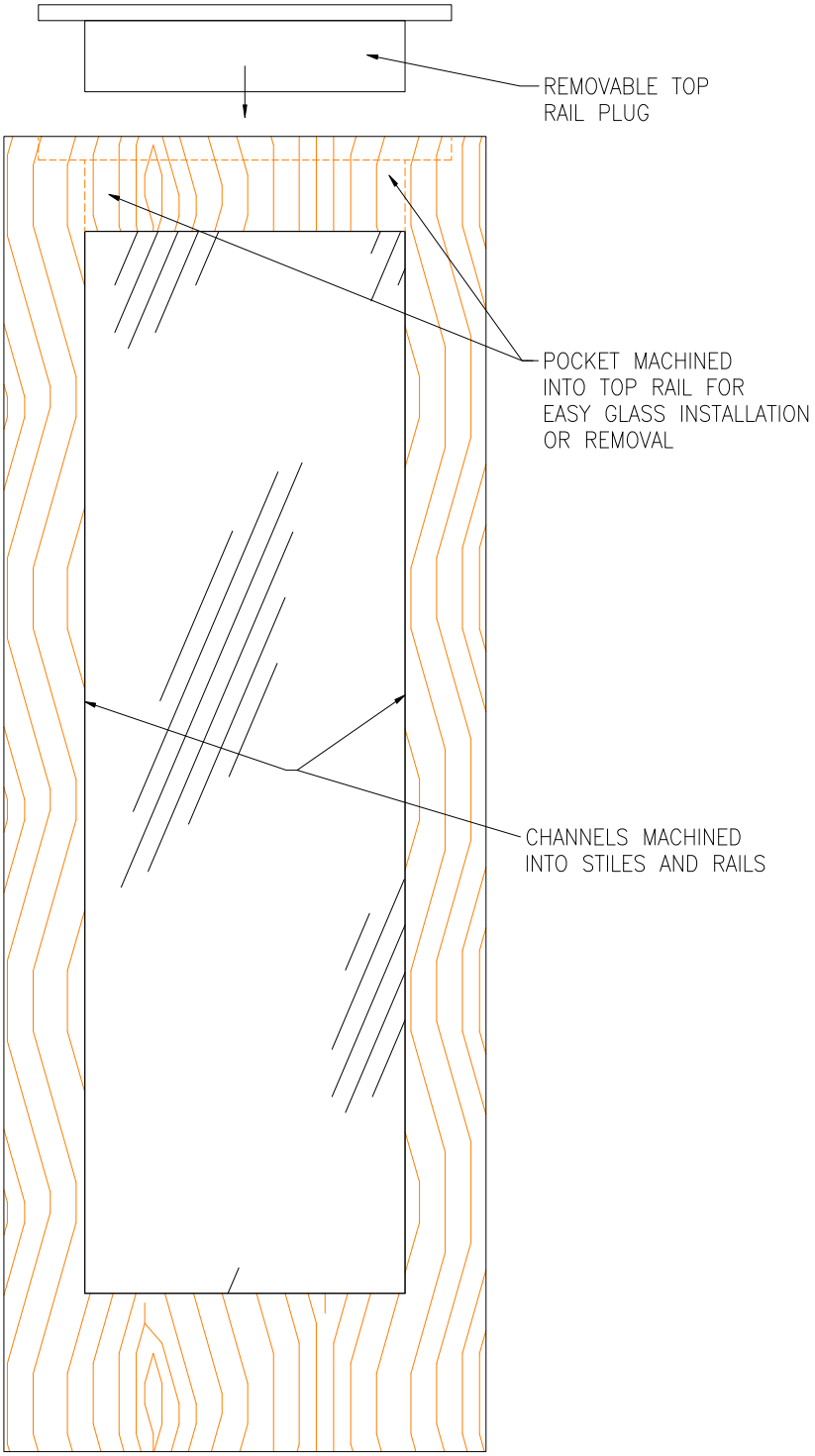
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Fax: 920.722.0357

email: sales@eggersindustries.com

Beadless Lite
Door Construction

No. 609-01-10

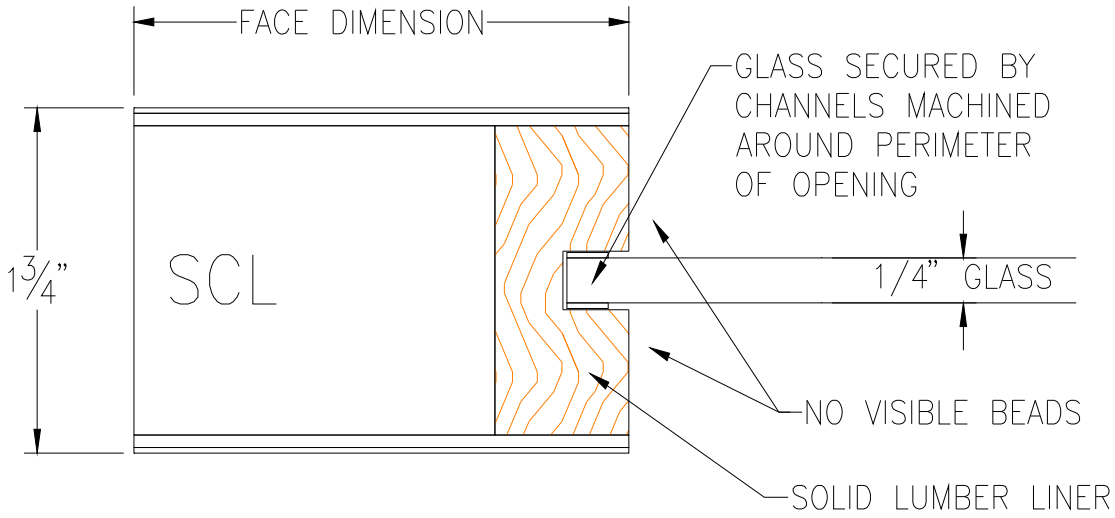
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Beadless Lite
Door Construction

No. 609-01-10

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Flush Doors

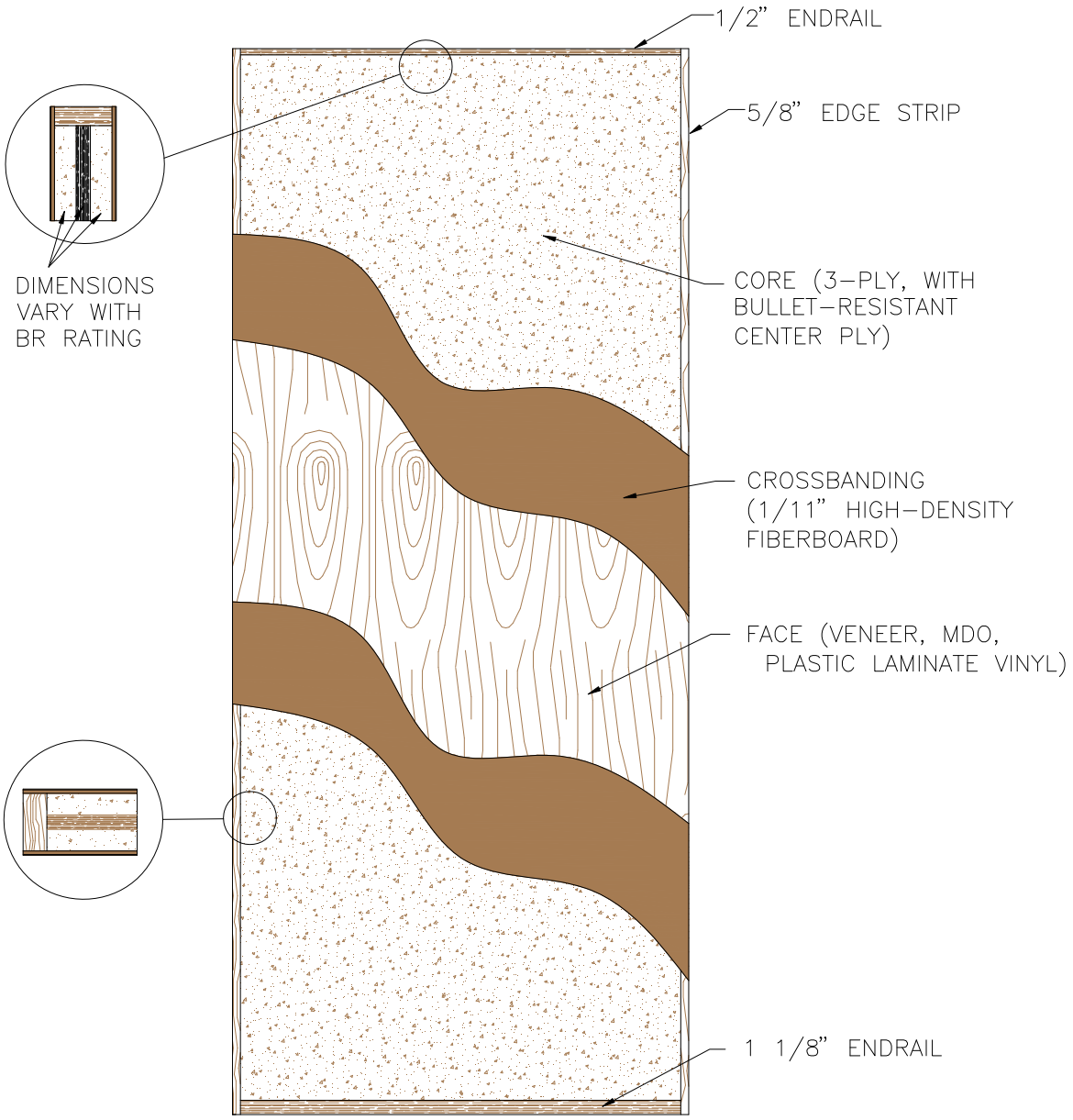
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Fax: 920.722.0357

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Bullet Resistant Core
Door Construction

No. 385-01-10

Eggers Industries



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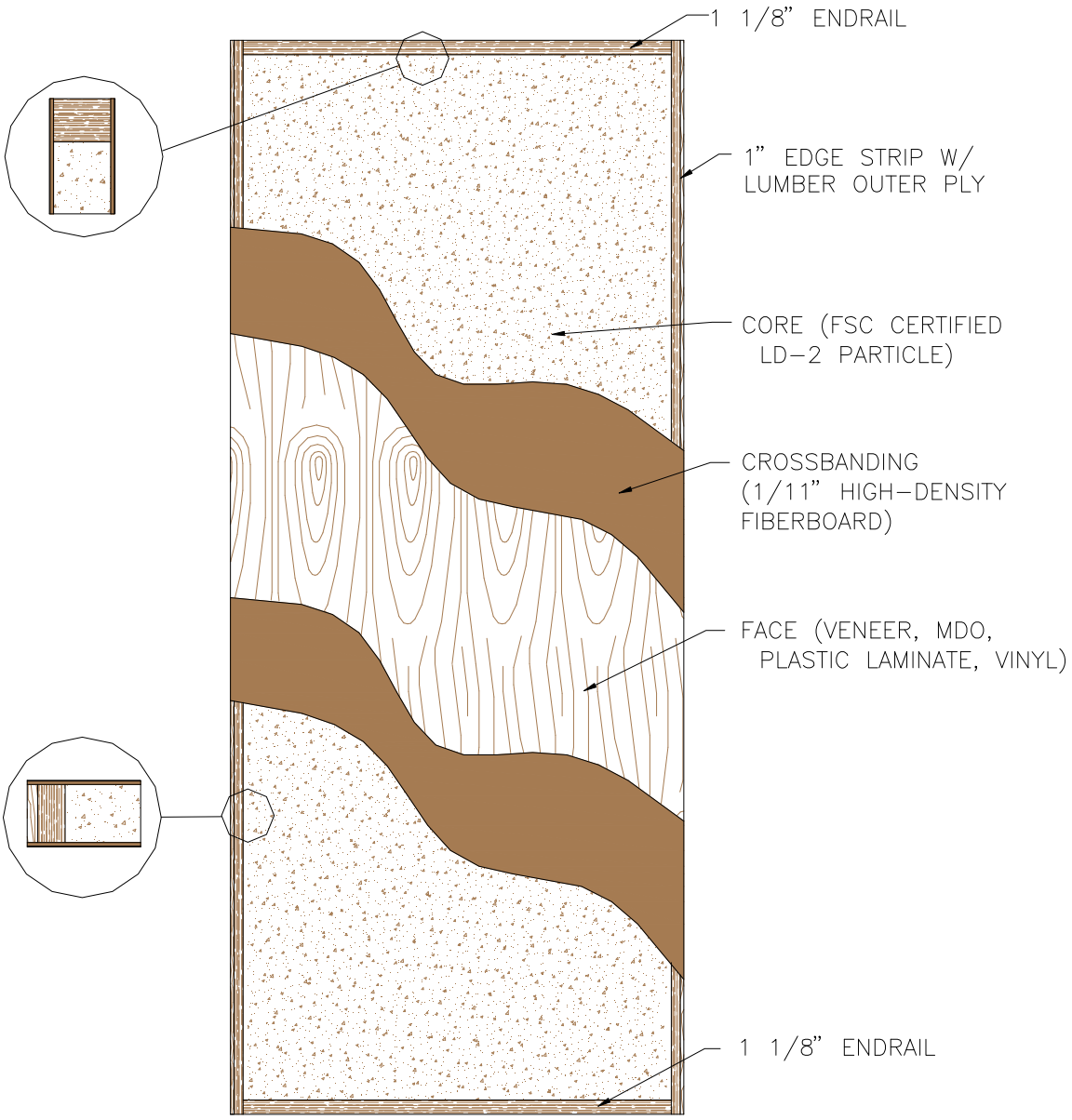
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FSC Certified Particle Core – Lumber Edge

Door Construction

No. 600-01-10

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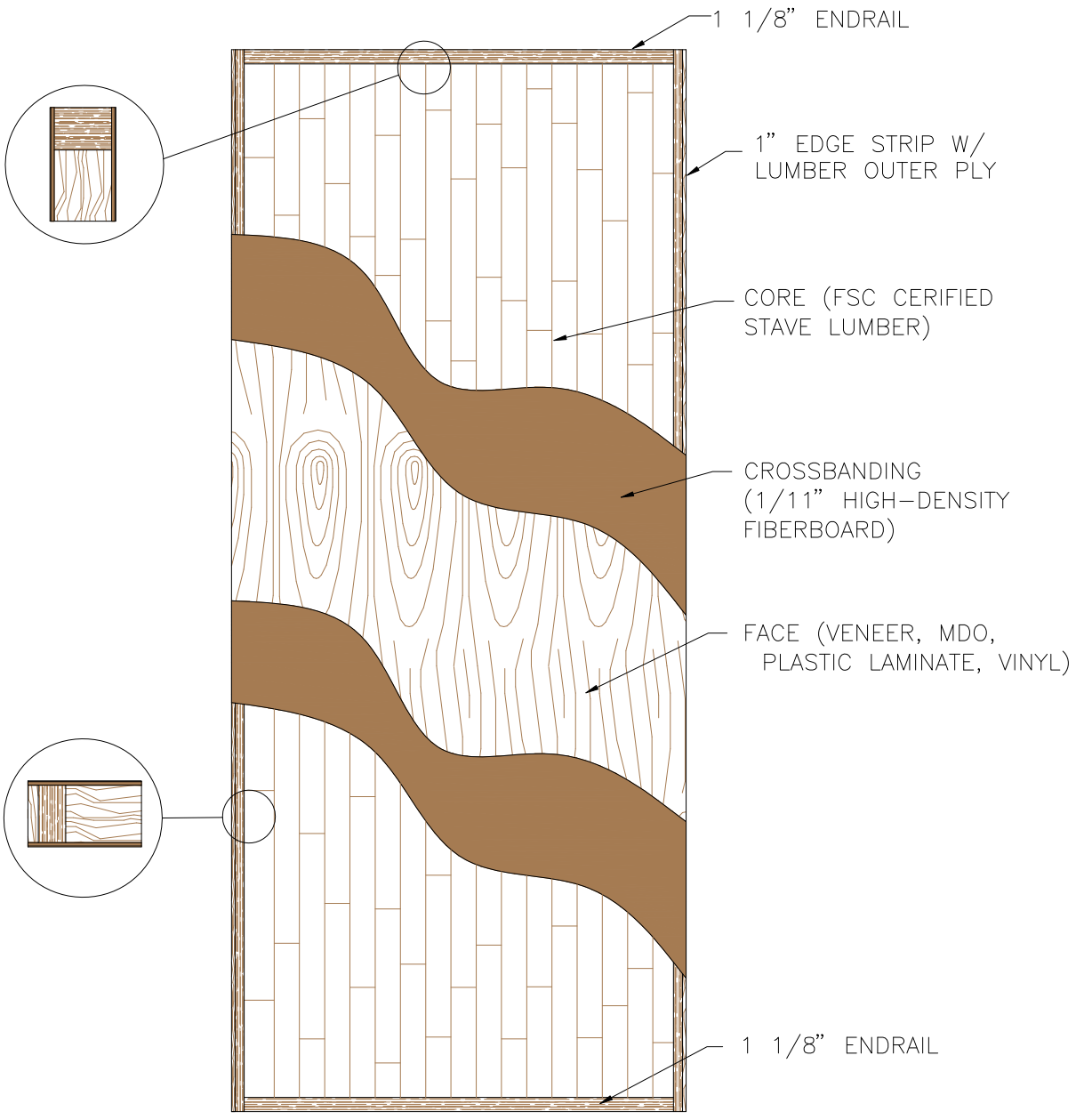
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FSC Certified Stave Core – Lumber Edge

Door Construction

No. 294-01-10

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Fax: 920.722.0357

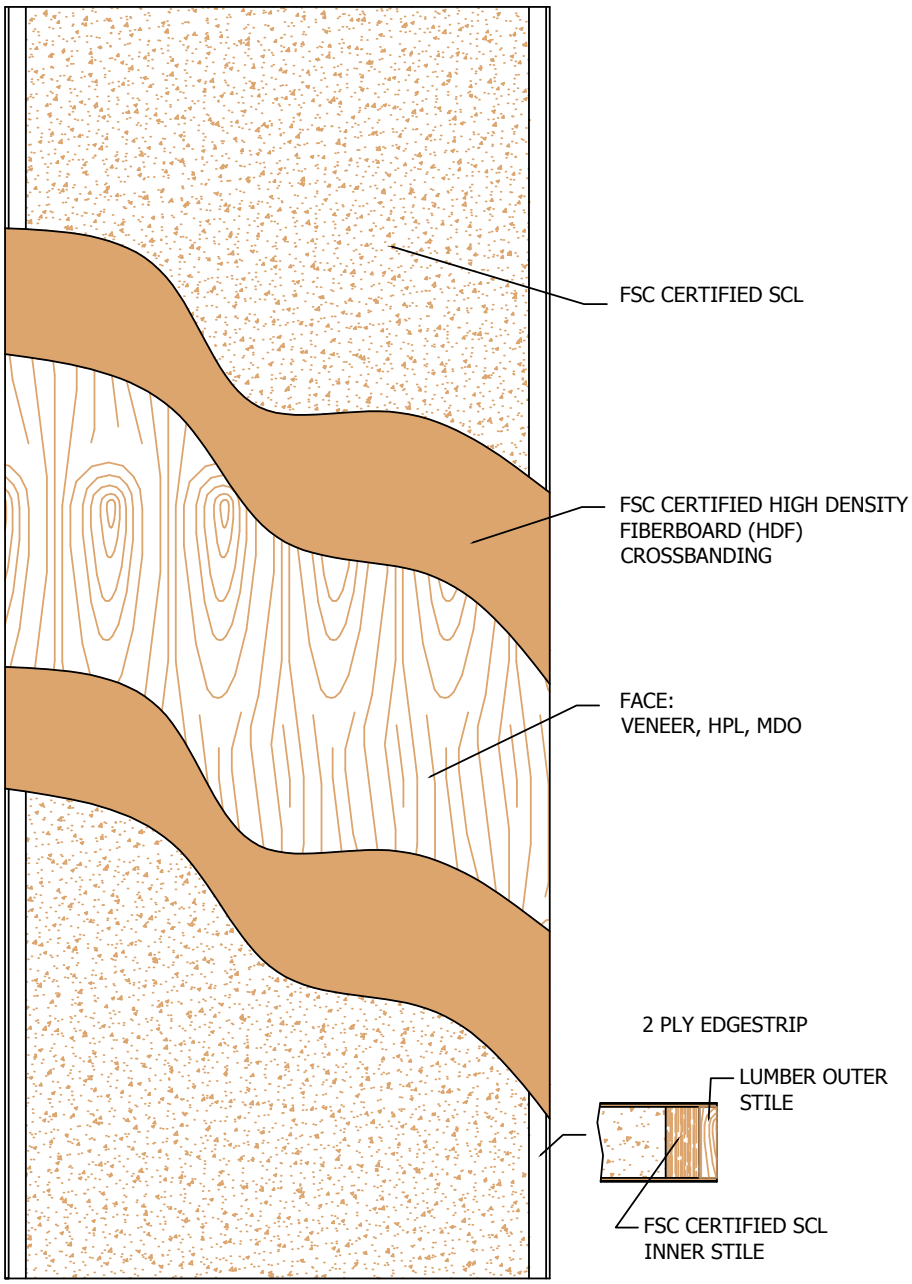
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FSC® CERTIFIED STRUCTURAL COMPOSITE LUMBER

Door Elevation

Date: May, 2015

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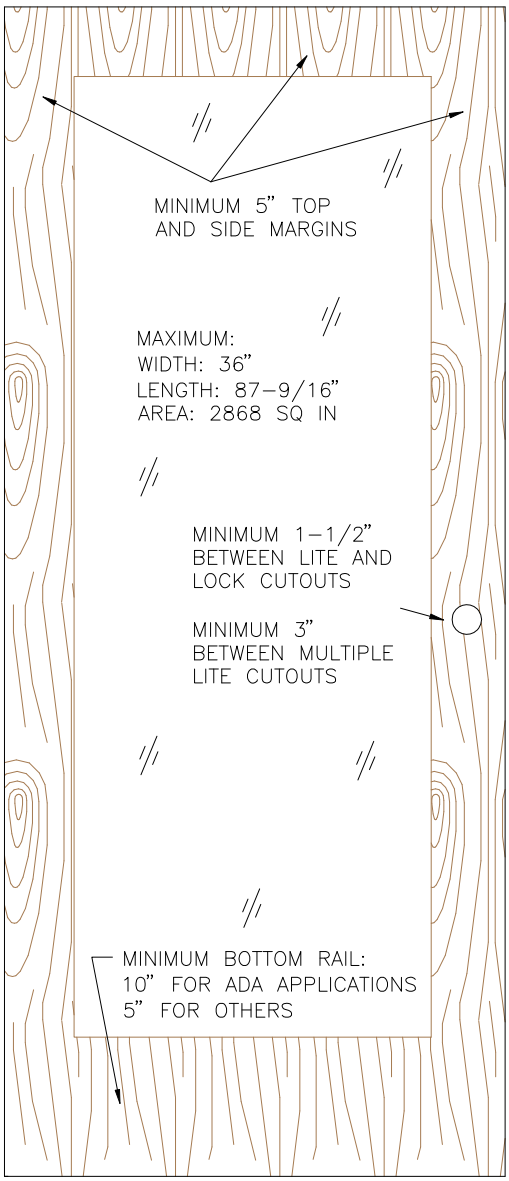
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Custom Wood Products,
Plywood

Kentucky Division
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Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.849.0444

Full Lite – 20 Minute
Door Construction

No. 386-01-10

Eggers Industries



SCL OR
STAVE CORE
CONSTRUCTION

Eggers Industries

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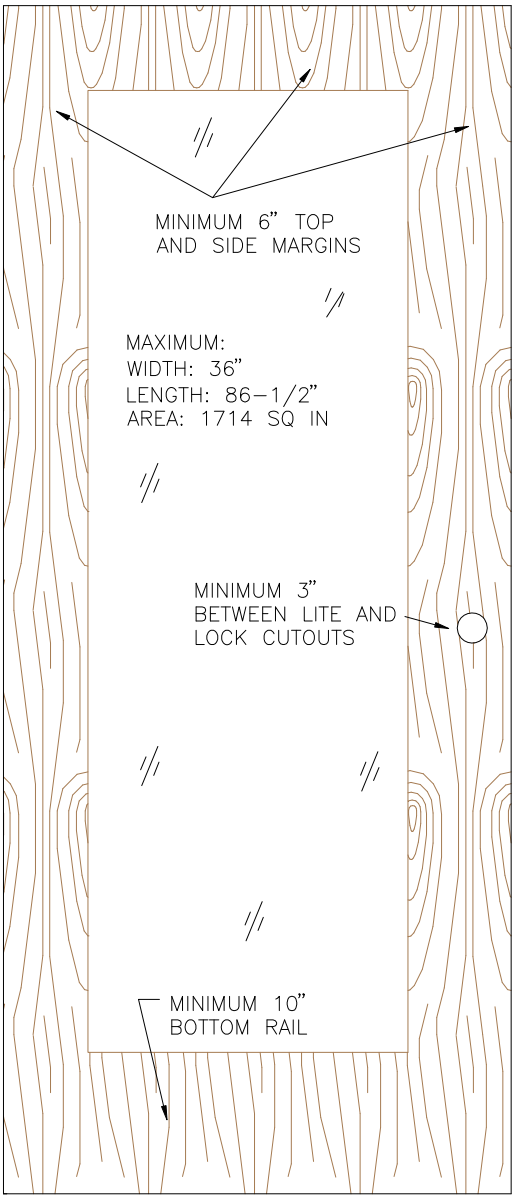
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Fax: 920.722.0357

email: sales@eggersindustries.com

Full Lite – 45 Minute
Door Construction

No. 370-01-10

Eggers Industries



SPECIAL MINERAL
CORE DOOR
CONSTRUCTION

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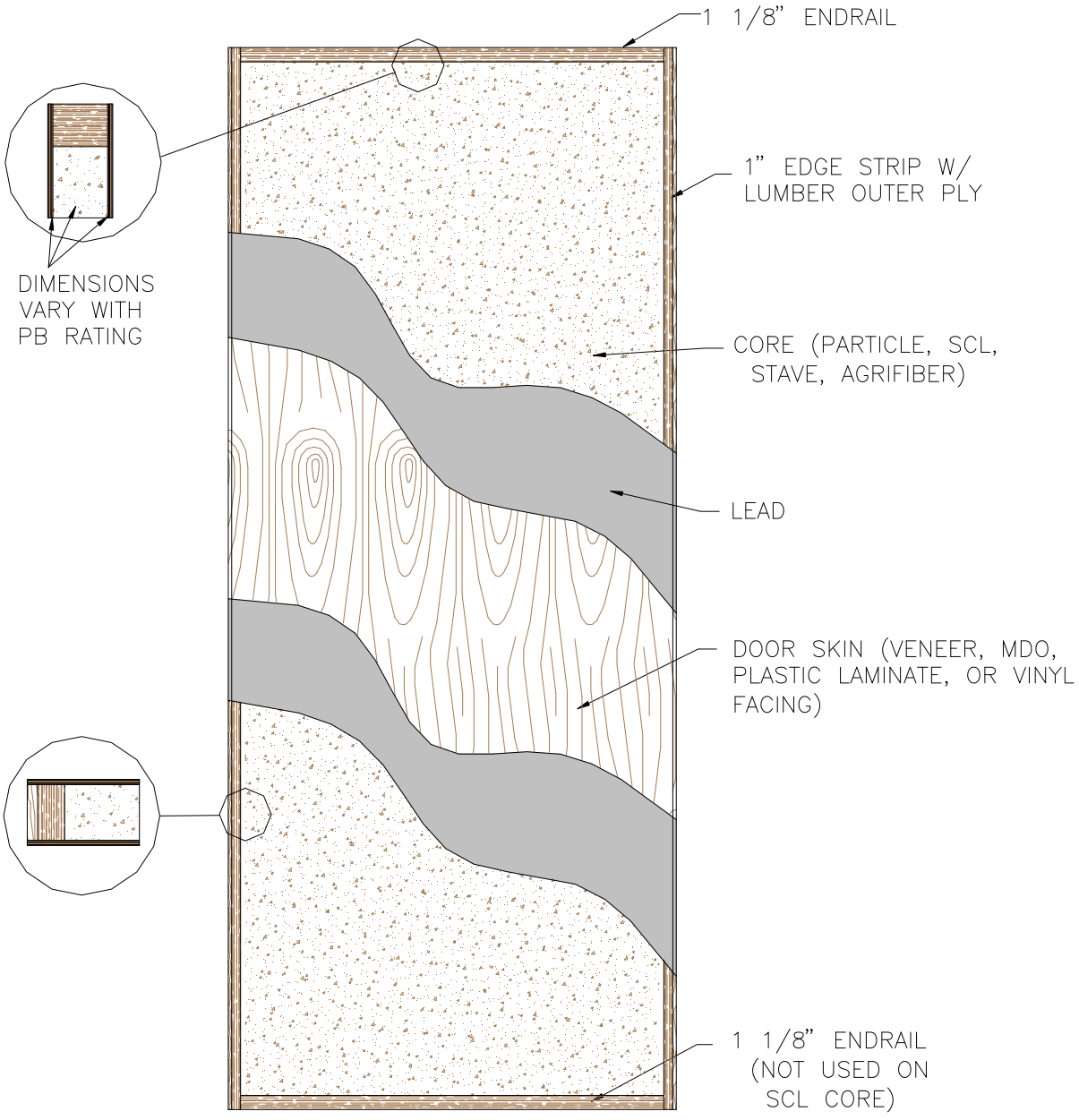
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Lead Lined Door – Lumber Edge

Door Construction

No. 341-01-10

Eggers Industries



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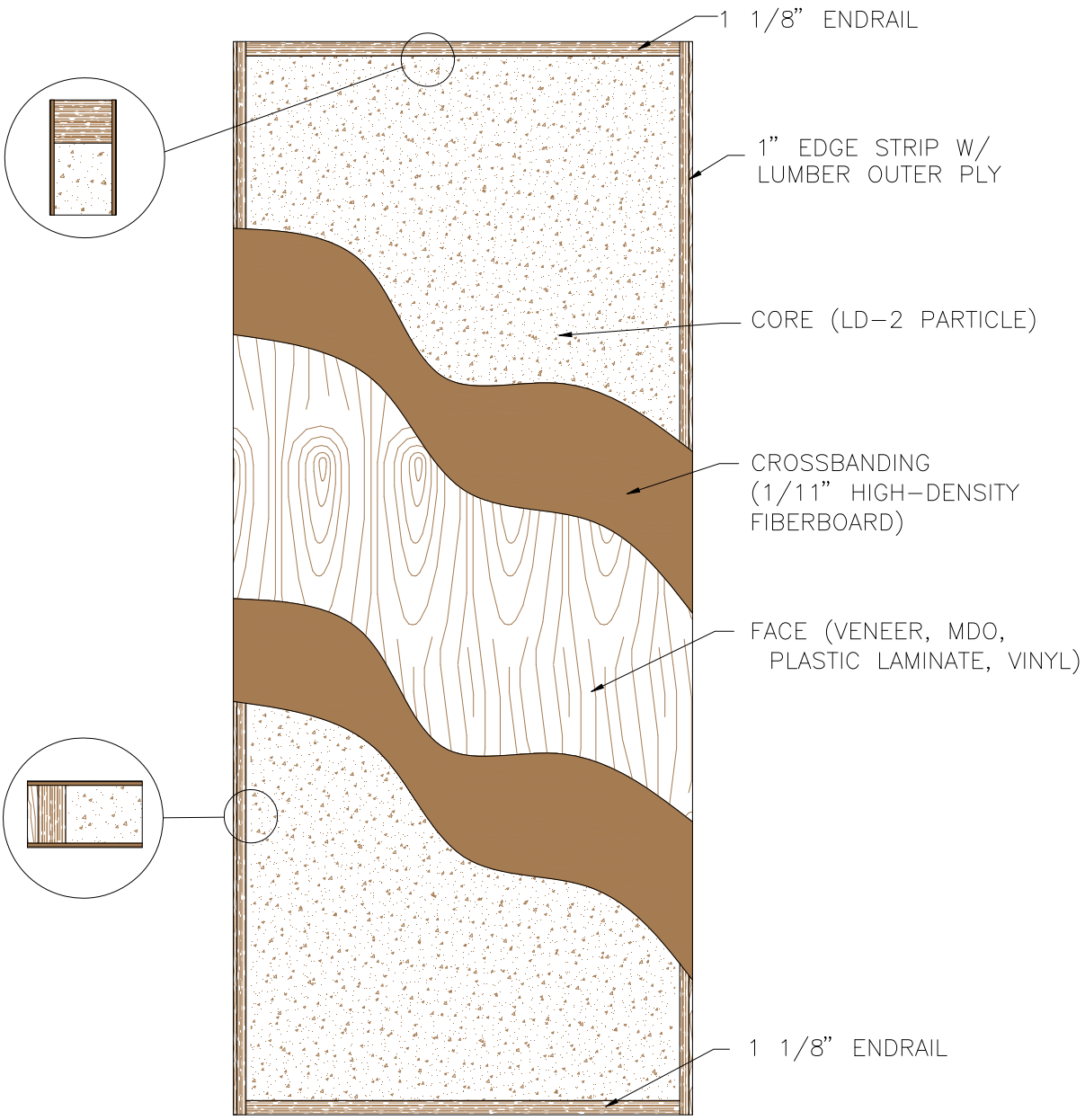
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email: sales@eggersindustries.com

Particle Core – Lumber Edge
Door Construction

No. 337-01-10

Eggers Industries



Eggers Industries

Stile & Rail Doors, Door Frames, Plywood, Veneered Components

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Flush Doors

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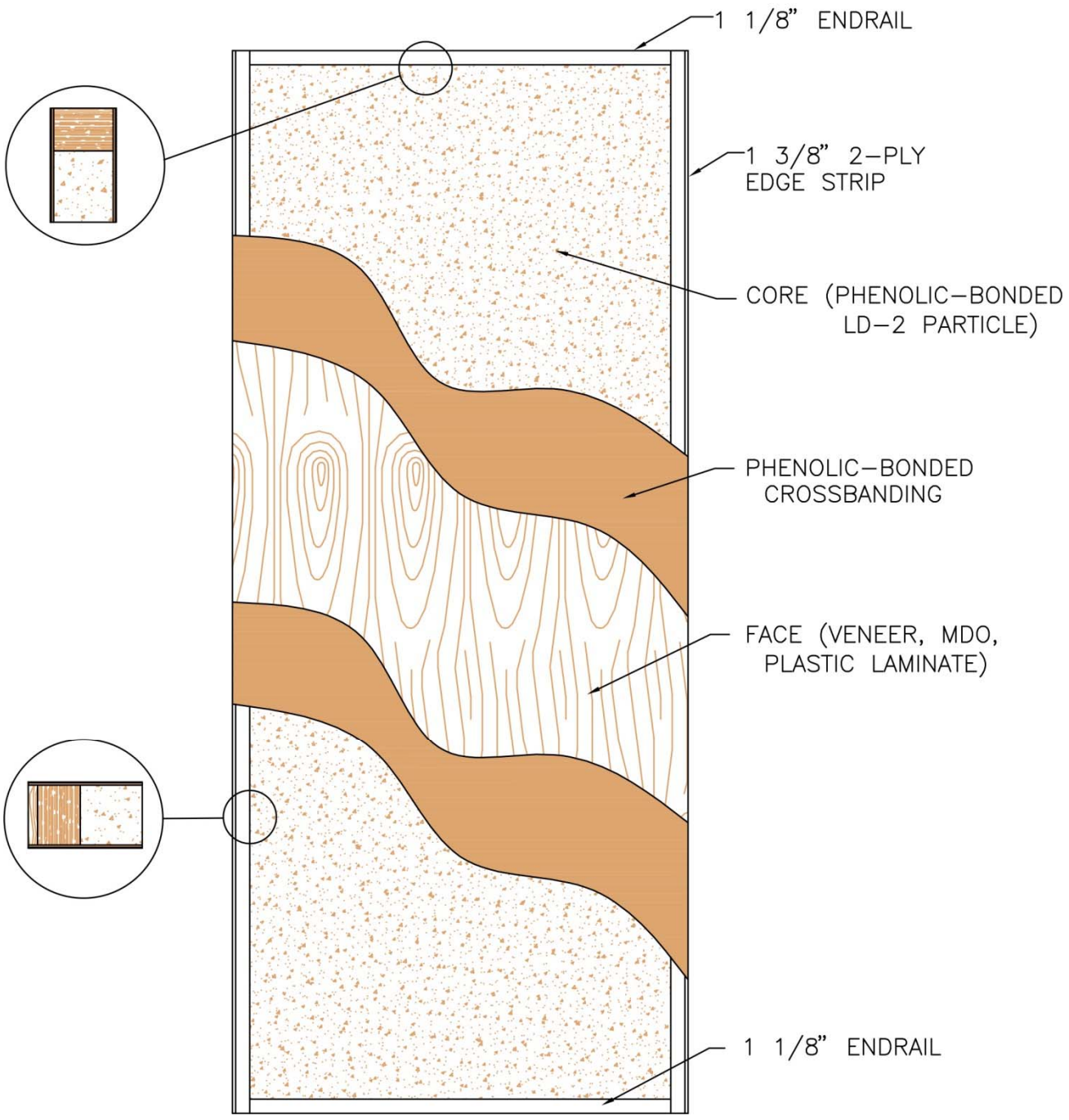
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NAUF PARTICLE BOARD – Lumber Edge

Door Elevation

Date: July, 2016

Eggers Industries



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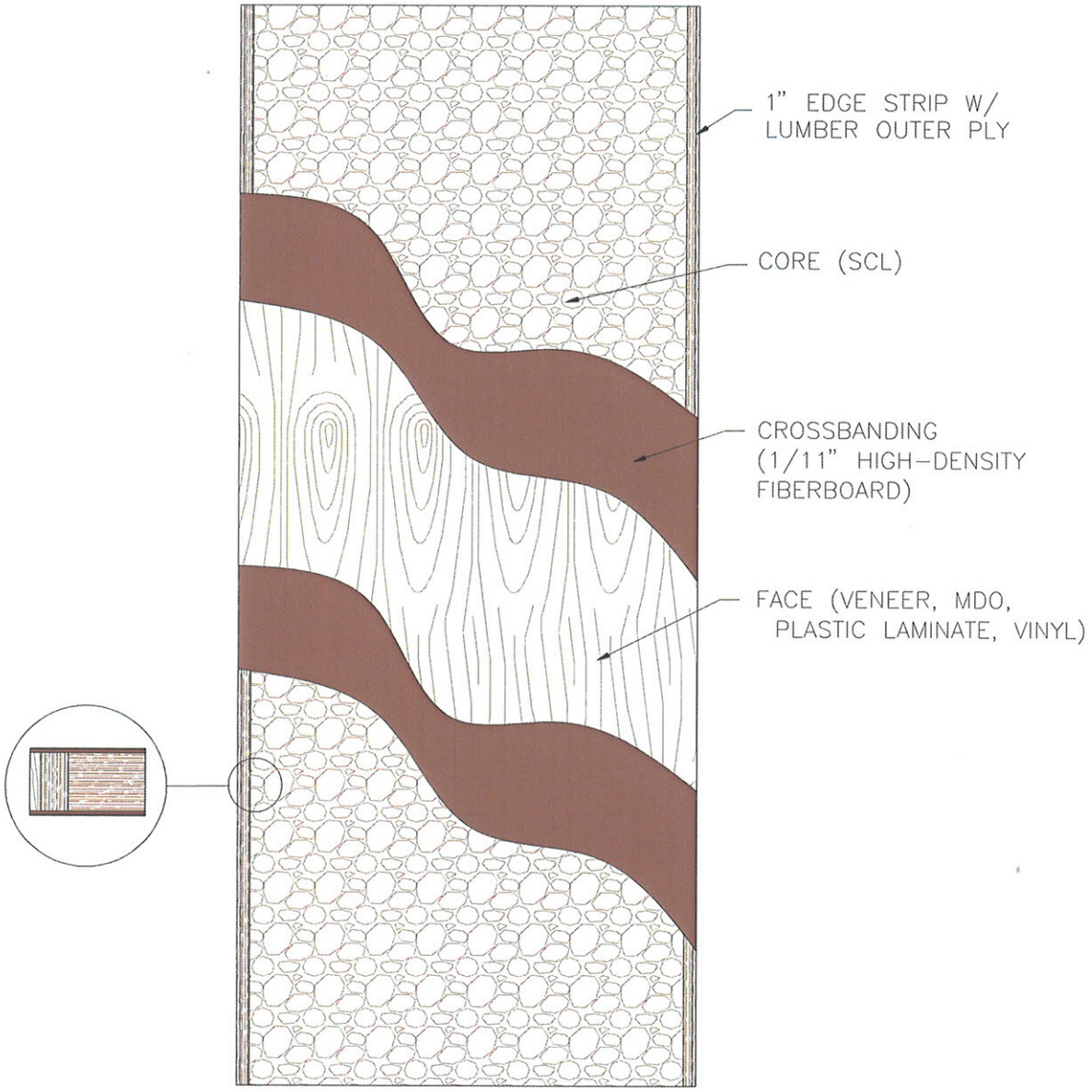
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SCL Core - Lumber Edge
Door Construction

No. 382-01-10

Eggers Industries



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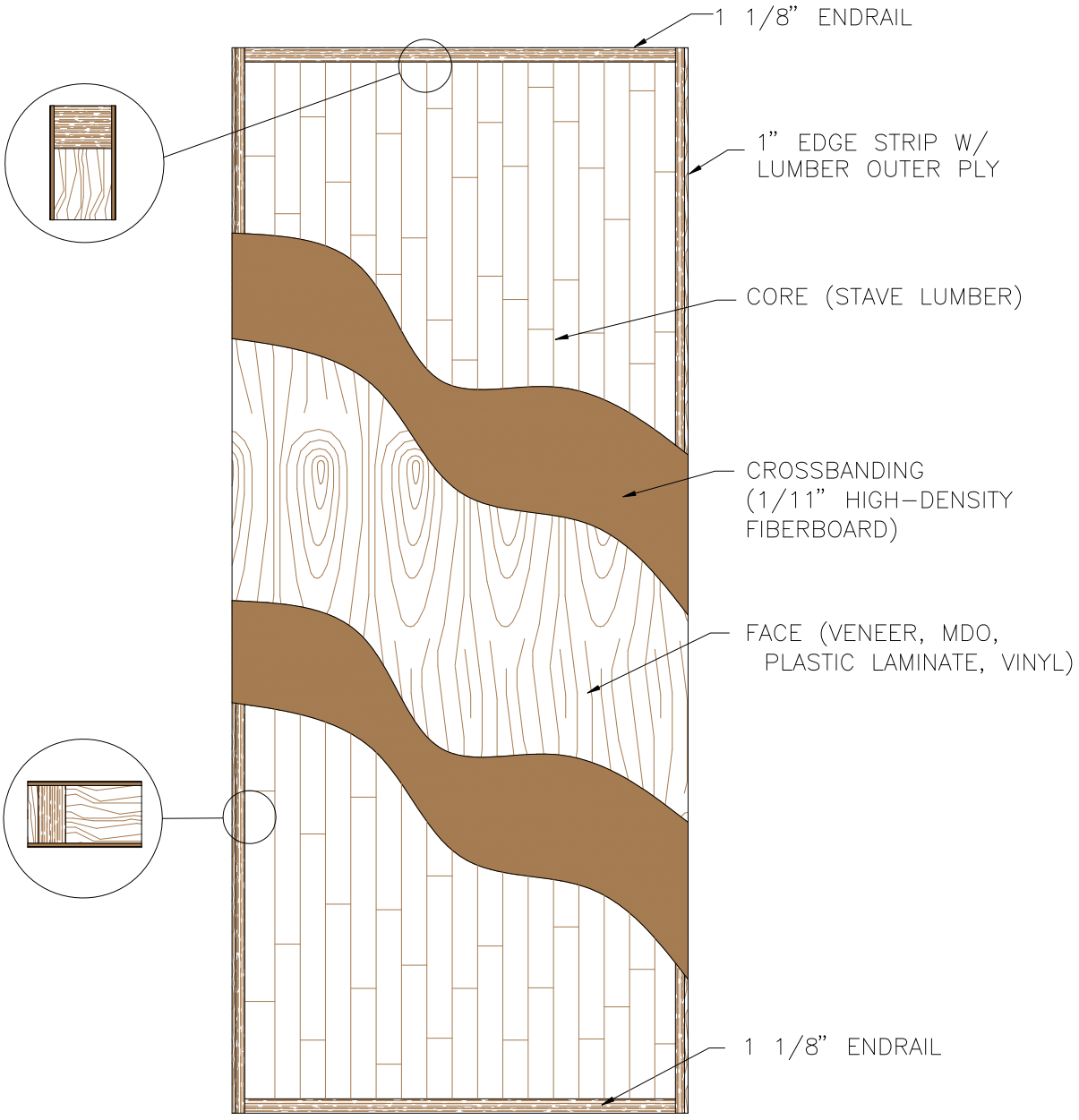
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Stave Core - Lumber Edge
Door Construction

No. 511-01-10

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Drop Seals
(Automatic Door Bottoms)

Information Bulletin 232

Date: November, 2011

Eggers Industries

Automatic door bottoms will require an oversize bottom rail. This rail will automatically be included in the price. This is for non-rated and fire-rated doors including acoustical doors.

Conflicts with automatic door bottoms occur when other hardware is prepped in the bottom rail of the door like concealed vertical rod bottom latching, bottom flush bolts and auxiliary fire latches. When this happens we can mortise for the automatic door bottom to within ½" of the conflicting prep as long as that prep for the automatic door bottoms is not less that 18" long; automatic door bottoms are not available in sizes less that 18".

Note: The STC rating of acoustical doors will be void where door bottoms do not extend the full width of the door.

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Positive Pressure with Acoustic Constructions

Information Bulletin

No. 436-10-08

Eggers Industries

The chart below identifies the availability of our various acoustic door constructions (Sound Groups) based on the positive pressure category. Sound Group 1 is not included in this list because it is composed of standard core constructions, and generally available as either Category A or B.

The general rule is door constructions that include multi-laminate faces containing vinyl or lead are not available as Category A assemblies.

Sound Group Construction	Available as Category A	Available as Category B
2	No	Yes
3	Yes	Yes
4	No	Yes
5	No	Yes
6	No	Yes
7	No	Yes
8	No	Yes
9	Yes	No

Note: Our 45- and 60-minute lead doors utilize the same face construction as the Sound Group 8 acoustic doors. For this reason they also are not available as Category A assemblies.

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SOUNDWOOD ACOUSTICAL CAPABILITIES

Product Offering Chart

Date: April, 2014

Eggers Industries

DOOR TYPE & SWING	STC RATING	DOOR THICK-NESS	AVAILABLE FIRE RATING	GASKET SYSTEM	GLAZING SYSTEM	GLAZING TYPE	GLAZING AREA (sq in)	WEIGHT (sq ft)	TEST REPORTS
Flush Single Swing	52 [1]	1-3/4"	NR	S or T	NA	---	---	12.0	C5765.03
	51 [1]	1-3/4"	NR	U	NA	---	---	12.0	C5765.03
	51	2 1/4"	20	A	NA	---	---	15.8	TL94-37
	50 [1]	1-3/4"	NR	S or T	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C5765.04
	49 [1]	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A
	48	1-3/4"	20	A	NA	---	---	13.7	TL97-320
	48	2 1/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	15.8	TL95-350
	47	2 1/4"	20	A	VP:110-D2	Pyroswiss / 1/2" Laminated	400 (max)	15.8	TL95-351
	47	1-3/4"	60-45	A	NA	NA	NA	15.7	TL03-023
	46	1-3/4"	60-45	A	VP: Lo Pro IS	1" Rated IGU	100 (max)	15.7	TL03-024
	45	1-3/4"	20	A	NA	---	---	7.7	TL94-220
	44	1-3/4"	20	I	NA	---	---	7.7	TL10-134
	43	1-3/4"	NR	P	NA	---	---	7.9	100534284CRT-001k
	43	1-3/4"	20	A	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	100 (max)	7.7	TL03-020
	43	1-3/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	7.7	TL03-019
	43	1-3/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	13.6	TL03-022
	42	1-3/4"	20	U	NA	---	---		C5765.01
	42	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j
	42	1-3/4"	NR	A	Bead: 107	1/2" Laminated	400 (max)	7.7	TL03-021
	41	1-3/4"	NR	B	Bead: 107	1/2" Laminated	400 (max)	6.5	TL03-012
	41	1-3/4"	NR	B	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	6.5	TL03-013
	41	1-3/4"	20	A	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	400 (max)	7.7	TL95-348
	41	1-3/4"	45	B	VP: Lo Pro IS	1" Rated IGU	400 (max)	9.2	TL97-313
	40	1-3/4"	NR	M	Bead: 110	1-1/8" Non-Rated IGU	1296 (max)	6.7	TL10-141
	40	1-3/4"	20	B	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	400 (max)	7.7	TL95-347
	40	1-3/4"	45	A	NA	---	---	9.2	TL95-349
	40	1-3/4"	90-60-45	C	NA	---	---	7.6	TL06-051
	39	1-3/4"	45	B	NA	---	---	9.2	TL95-346
	39	1-3/4"	90-60-45	I	NA	---	---	7.7	TL06-053
	38	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (min)	6.7	C7672.01B
	37	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	Full Lite (min 47% of area)	5.9	TL05-052
	37	1-3/4"	60-45	I	VP: 115-L1	Firelite Plus / Leaded	100 (max)	10.3	TL05-126
	37	1-3/4"	20	I	Bead: 100	Firelite Plus	400 (max)	6.0	TL05-051
	36 [2]	1-3/4"	20	P	NA	---	---	6.3	100534284CRT-001l
	36	1-3/4"	60-45	I	NA	---	---	10.2	TL05-125
	36	1-3/4"	20	N	NA	---	---	7.1	100534284CRT-001f
	35	1-3/4"	20	M	NA	---	---	10.0	TL10-142
	35	1-3/4"	90-60-45	R	NA	---	---	7.2	A5305.02-113-11
	35	1-3/4"	NR	I	Bead: 107	1/2" Laminated	1296 (min)	6.2	TL10-138
	35 [2]	1-3/4"	NR	O	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	7.3	TL10-144
	35 [2]	1-3/4"	20	I	NA	---	---	7.3	TL10-136
	34	1-3/4"	NA	B	Bead: 107	1/2" Laminated	1296 (min)	6.2	TL10-138
	34	1-3/4"	NA	I	LoPro IS	1/2" Laminated	400 (min)	6.1	TL10-135
	34 [2]	1-3/4"	20	Q	NA	---	---	6.3	100534284CRT-001m
	33	1-3/4"	NA	I	Bead: 107	1/2" Laminated	400 (min)	6.1	TL10-133
	33	1-3/4"	20	Q	NA	---	---	6.9	100534284CRT-001n
	33 [2]	1-3/4"	20	N	NA	---	---	6.3	100534284CRT-001d 100534284CRT-001e
	32	1-3/4"	20	Q	NA	---	---	5.5	100534284CRT-001o 100534284CRT-001p
	32	1-3/4"	20	I	NA	---	---	6.9	TL06-059
	32	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (max)	6.9	TL06-059 & TL97-313
	32	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	6.9	TL06-059 & TL03-013
	32	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (max)	6.9	TL06-059 & TL03-012
	32	1-3/4"	20	N	NA	---	---	6.9	100534284CRT-001b
	31	1-3/4"	20	I	NA	---	---	5.8	TL06-058, TL10-129
	31	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (max)	5.8	TL06-058 & TL97-313
	31	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	5.8	TL06-058 & TL03-013
	31	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (max)	5.8	TL06-058 & TL03-012
	31	1-3/4"	NR	N	NA	---	---	5.5	100534284CRT-001a

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SOUNDWOOD ACOUSTICAL CAPABILITIES

Product Offering Chart

Date: April, 2014

Eggers Industries

	30	1-3/4"	20	I	NA	---	---	4.6	TL06-056
	30	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (max)	4.6	TL06-056 & TL97-313
	30	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	4.6	TL06-056 & TL03-013
	30	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (max)	4.6	TL06-056 & TL03-012
	29	1-3/4"	90-60-45	I	NA	---	---	4.4	TL06-057
	27	1-3/4"	20	I	NA	---	---	4.9	TL07-035
	27	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (max)	4.9	TL07-035 & TL97-313
	27	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	4.9	TL07-035 & TL03-013
	27	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (max)	4.9	TL07-035 & TL03-012

Please note: All acoustic doors are available as "No Added UF" and "Phase 2 Carb Compliant" [1] U.S. Patent No. 8,573,357 [2] Available as FSC® certified

DOOR TYPE & SWING	STC RATING	DOOR THICK-NESS	AVAILABLE FIRE RATING	GASKET SYSTEM	GLAZING SYSTEM	GLAZING TYPE	GLAZING AREA (sq in)	WEIGHT PER SQ. FT.	TEST REPORTS
Stylus	33	1-3/4"	20	I	NA(7)	---	---	5.5	TL07-057
	32	1-3/4"	20	I	NA(7)	---	---	6.2	TL07-058
	31	1-3/4"	90-60-452	I	NA	---	---	4.3	TL07-059
Flush Active-Inactive Pairs (2)	49	1-3/4"	20	A	NA	---	---	13.7	TL98-238
	44	1-3/4"	20	A	NA	---	---	7.7	TL98-236
	41	1-3/4"	20	B	NA	---	---	7.7	TL98-233
Flush Active-Active Pairs (3)	41	1-3/4"	20	K	NA	---	---	6.2	TL08-007
	40	1-3/4"	NR	K	Bead: 100	1/2" Laminated	400 (max)	6.3	TL08-009
	34	1-3/4"	45	K	VP: Lo-Pro IS	Superlite II-XL-45	Full Lite (min 47% of area)	6.5	TL11-111
	31	1-3/4"	90-60-45	K	NA	---	---	7.2	TL11-110
	31	1-3/4"	20	K	NA	---	---	6.4	TL11-112 TL11-113
Dutch Door	44	1-3/4"	20	A	NA	---	---	7.7	TL98-237
Door & Transom	44	1-3/4"	20	A	NA	---	---	7.7	TL98-237
Communicating	53	1-3/4"	20	B	NA	---	---	7.7	TL93-219
Stile & Rail Single Swing	40	1-3/4"	NR	B	NA	---	---	8.3	TL99-120
	40	1-3/4"	NR	A	Bead: 110	Non-Rated IGU	400 (max)	8.3	TL99-122
	39	1-3/4"	NR	I	Bead: 110	Non-Rated IGU	1296 (max)	7.0	TL05-123
	38	2 ¼"	90-60-45	A	NA	---	---	12.5	TL97-321
	37	2 ¼"	90-60-45	B	NA	---	---	12.5	TL97-312
	36	1-3/4"	60-45	B	NA	---	---	9.7	TL97-317
	33	1-3/4"	20	B	NA	---	---	5.9	TL94-41
	33	2 ¼"	20	B	NA	---	---	6.9	TL97-311
Stile & Rail Active-Active Pairs	37	1-3/4"	NR	K	NA	---	---	7.9	TL11-109
	35	1-3/4"	60-45	K	NA	---	---	10.2	TL11-108
	32	1-3/4"	20	K	NA	---	---	5.9	TL11-107

(1) All acoustic doors are available as "No Added UF" and "Phase 2 Carb Compliant"

(2) Test was conducted as an active/inactive pair installation and requires Eggers overlapping wood astragal

(3) Test conducted as an active/active pair with top latching surface hardware

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SOUNDWOOD ACOUSTICAL CAPABILITIES

Product Offering Chart

Date: April, 2014

Eggers Industries

ACOUSTICAL GASKETING AND UNDERCUTTING		
GASKET SYSTEM	**COMPONENTS**	**REQUIRED UNDERCUT**
A	Double row Pemko S-88 gasket, Pemko 434 door bottom, Pemko 2005 threshold	1/2"
B	Double row Pemko S-88 gasket, Pemko 434 door bottom	1/4"
C	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 2005 threshold	3/8"
I	Double row Pemko S-88 gasket, Zero 369 door bottom	5/8"
K	Double row Pemko S-88 gasket and pad on frame, Zero 369 door bottom, one row of Pemko S-1125 on each meeting edge	5/8"
M	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 151 flat threshold	3/8"
N	DHSI 105, DHSI AMDB3-3, & DP*	1/4" to 3/8"
O	Pemko 773, Pemko 234 door shoe, Flat smooth threshold	3/8"
P	DHSI 105, SA, CS, DP	3/8"
Q	DHSI 105, Pemko 2005	3/8"
R	Zero 119W, Zero 8145S, Zero 369	5/8"
S	2008STCxQ380 Threshold, S44 and 312R	3/8"
T	2008STCxQ380 Threshold, S773 and S44	3/8"
U	Pemko PDB411, S773, S44 and ACP112	3/8" (1/4"-1/2")
* DP375 is used for the Solid Wood Edge Option (SWE); DP250 is used for full width mortise or CS		
Notes:Eggers standard offering for the Pemko 434 is the ARL seal and for the Pemko 2005 is the AT seal		

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Wood Beads for Lites in Acoustic Doors

Information Bulletin 456

Date: October, 2011

Eggers Industries

Eggers 100 bead for ½" glass may be used on STC rated doors without voiding the STC guaranty.

Acoustic doors having ½" laminated glazing no longer require lipped wood beads to maintain the STC rating. Recent testing confirmed that as long as the beads include a continuous bead or caulking where the Bead/Glass/Door come together the lipped beads and flush beads provide the same performance.

Glazing thicker than ½" will still require a lipped bead to provide nail holding not available with narrow beads.

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BULLET RESISTANT DOORS

Information Bulletin 253

Date: April, 2014

Eggers Industries

Eggers can supply bullet resistant doors for levels 1 through 8 (per UL 752) and levels IIA through III (per N.I.J. 0108.01). Glazing is an option for most ballistic ratings and up to level 3 with 20-min fire rating. Bullet resistant metal vision panels are required for all lites. All bullet resistant level doors are available in either 1-3/4" or 2–1/4" thicknesses. Pair applications are available in ratings up to level 8. Bullet-resistant doors are available with a U.L. 20 minute fire rating.

Hardware

- Raceways and electrified hinges are allowed, but will be limited on specific combinations of door thickness and bullet resistance rating, refer to page 2.
- Any hardware that requires removal of the bullet resistant core material will require blocking, and will void the bullet resistance in that area of the door. Examples include: mortised locks, electric power transfers (EPTs), flushbolts, concealed closers, and mortised bottom seals.
- Cylinder lock machining does not require blocking.
- Bullet resistant pairs require a steel astragal of the same resistance level to maintain protection of the meeting edges.

We recommend having Eggers supply the bullet resistant accessories (metal vision panels, glazing and astragals) and provide factory glazing to insure proper fit and installation. Eggers does not provide bullet resistant door frames. We recommend customers contact Armortex at 1-800-880-8306 or http://www.ARMORTEX.com for frames to match the bullet resistance of our doors.

The table on page 3 shows the bullet resistance and weight by Door Model. The doors are specified and ordered on the basis of the UL 752 protection level.

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BULLET RESISTANT DOORS

Information Bulletin 253

Date: April, 2014

Eggers Industries

Raceways

Raceways cannot be bored in the bullet resistant core material and must be located between this core and the face of the door. Whether or not a raceway can be included in the construction depends on the size of the raceway, the thickness of the door and the thickness of the bullet resistant material. The chart below indicates when raceways are allowed.

	1-3/4" Door Thickness		2-1/4" Door Thickness	
	1/4" Raceway	3/8" Raceway	1/4" Raceway	3/8" Raceway
Level 1	Yes	Yes	Yes	Yes
Level 2	Yes	Yes	Yes	Yes
Level 3	Yes	Yes	Yes	Yes
Level 4	No	No	No	No
Level 5	No	No	No	No
Level 6	Yes	Yes	Yes	Yes
Level 7	No	No	Yes	No
Level 8	No	No	No	No

Where allowed, raceways will be routered into the assembly prior to face application.

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Flush Doors

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BULLET RESISTANT DOORS

Information Bulletin 253

Date: April, 2014

Eggers Industries

Door Model	Protection Rating Per UL 752	Ammunition	Comparable N.I.J. 0108.01 Rating	Weight (psf)
BR1	UL 1	9mm Full Metal Copper Jacket with Lead Core	II-A	8.4
BR2	UL 2	.357 Magnum Jacketed Lead Soft Point	II	8.8
BR3	UL 3	.44 Magnum Lead Semi-Wadcutter Gas Checked	III-A	9.6
BR4	UL 4	.30 Caliber Rifle Lead Core Soft Point (.30-06 Caliber)	III	15.6
BR5	UL 5	7.62mm Rifle Lead Core Full Metal Copper Jacket Military Ball (.308 Caliber)	III	15.9
BR6	UL 6	9mm Full Metal Copper Jacket with Lead Core	III-A	9.6
BR7	UL 7	5.56mm Rifle Full Metal Copper Jacket with Lead Core (.223 Caliber)	III-A	14.3
BR8	UL 8	7.62mm Rifle Lead Core Full Metal Copper Jacket Military Ball (.308 Caliber)	III	15.9

Eggers Industries

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Doors with Different Faces (Split Species)

Information Bulletin 371

Date: February 2015

Eggers Industries

Doors constructed with different veneer species on each face (or veneer on one and MDO on the other) will be covered by Eggers warranty when the core is SCL. The use of any other core type will not be warranted against warp.

Due to the high risk of excessive warp, we will not construct doors having:

- HPL on one face and non-HPL (veneer, MDO, or Vinyl) on the other, or
- Vinyl on one face and veneer or MDO on the other.
- Horizontal grain veneer on one face and vertical grain on the other. .

Eggers will warranty any type of core with plastic laminate of different color/pattern/finish on one face versus the other as long as they are the same manufacture, thickness and orientation. Doors will not be warranted with laminate oriented horizontally on one face and vertically on the other.

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Natural Face Veneers
Information Bulletin

No. 300-09-07

Eggers Industries

Your door quote to us specifies a Natural veneer (Ash, Beech, Birch, Maple, or Poplar). **When specifying NATURAL, veneers contain unlimited amounts of sapwood and/or heartwood.** Natural veneer has extreme variation in the appearance of heartwood (the dark portions in the illustrations below, usually red/brown in an actual piece of veneer) and sapwood (the light portions in the illustrations below, usually white in an actual piece of veneer). **This variation cannot be controlled, and will vary both within individual door faces and between door faces.**

In Natural veneer door faces, there is no predictability of how and where heartwood and sapwood will appear. If the doors for your job require a similar appearance, either within a door face or from door to door, it will not be achieved with these species. **If you have a consistent appearance requirement for your wood doors, please contact Eggers for suitable alternatives.**



MOSTLY HEARTWOOD **MOSTLY SAPWOOD**

These veneer examples are typical of grain and color variations found within "A" grade plain sliced natural birch and plain sliced natural maple. However, even these do not represent the widest range possible.

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Special Finish Plastic Laminates

Information Bulletin #335

Date: December 2016

Eggers Industries

Eggers Industries manufactures 5-ply doors having laminate faces for most core types and specialty door applications (fire, acoustic, bullet resistant, lead lined). Three-ply constructions are not available.

General Notes:

- Standard Grade plastic laminate (.042" nominal thickness), including the high gloss finishes listed below, is available on both non-rated and labeled fire doors (20 thru 90 minute). High gloss plastic laminates in the available column require special pricing to cover peel-coat, special cross-banding and manufacturing procedures.
- Horizontal Post-Forming Grade plastic laminate (.035" nominal thickness), in standard finish only, is available on non-rated and labeled fire doors (20 thru 90 minute).
- Vertical Post-Forming Grade plastic laminate (.028" nominal thickness), is available from our Two Rivers facility on a project-by-project basis.
- Some laminates, such as Abet Laminati (horizontal post-forming laminate), have long lead times – check availability & effect on door lead times.

Manufacturer	Available - Requires Peel-Coat	Available - Does not require Peel-Coat	Not Available (Special Surfaces)
Wilson Art	1	60	52
	7	38	90
		78	35
			45
Formica	90	58	Ligna series
	GL	NT	WX
		43	
		LX	
Nevamar	G	T	CR
	N		CM
	V		Mirror
	PV		
	Z		
Pionite	H	N	
	G		
	U		
Laminart	G	S	
	VT	T	

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Special Finish Plastic Laminates

Information Bulletin #335

Date: December 2016

Eggers Industries

Special Laminates:

There are a number of solid color plastics and laminate products that are faced with special surfaces such as veneer, metal, ceramics, etc.

The laminates listed below as “available” should be quoted or ordered as special laminates. These laminates are available on most doors, but are not approved for use on fire doors.

Available: Oberflex, Deco Technologies, Arpa, Abet Laminati, Octolam

The laminates listed below as “Not Available” are not currently being quoted for use as door faces due to manufacturing incompatibility.

Not Available: DeccoWood, Tree Frog, Colorcor 2

If you have a request for a specific laminate not shown on this bulletin please contact Eggers to verify it is available for use on our doors.

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Barber Pole
Information Bulletin

No. 280-01-08

Eggers Industries

"Barber Pole" is a noticeable color variation between the individual flitches in book matched veneer. This variation may be objectionable to the end-user, even though the doors meet prevailing AWI and WDMA specifications. **"Barber Pole" is not considered a manufacturing defect and therefore claims related to its appearance will not be honored.**

The pictures below illustrate the typical appearance of "Barber Pole" in book matched door faces.



Plain Sliced Red Oak Book Matched



Plain Sliced White Maple Book Matched

This characteristic may occur in most species and in any cuts of book matched veneer. However, it is most prominent in Rift and Quarter Cut veneer. It is unpredictable in its frequency and severity of occurrence.

Specifying slip match rather than book match may minimize this condition. However, slip matching will slightly alter the grain appearance of the door face, as illustrated below.



Plain Sliced Red Oak Book Matched



Plain Sliced Red Oak Slip Matched

Slip match slightly increases the cost of a door and must be specified prior to order entry at the factory.

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Anti-Microbial Finish

Information Bulletin 443

Date: February, 2012

Eggers Industries

Eggers no longer offers an anti-microbial option to our factory finishing systems. Concerns such as noted below have led to restrictions and liability issues.

“The HCC recognizes that in can preservatives are used in many acrylic paints to provide acceptable shelf life. The recommendation to avoid antimicrobials in paint has been clarified in the new draft to target added chemicals and metals that are targeted at use phase antimicrobial activity, due to concerns reflected in studies by the CDC, Kaiser and others that these products are not effective and instead may increase resistance. REF: Centers for Disease Control and Prevention (CDC), Guidelines for Environmental Infection Control in Health-Care Facilities Recommendations of CDC and the Healthcare Infection Control Practices Advisory Committee (HICPAC), U.S. Department of Health and Human Services, 2003, Kaiser Permanente, “Evaluation of Antimicrobial Property Claims in Finishes and Fabrics " 2007, Tristan Roberts, Antimicrobial Chemicals in Buildings: Hygiene or Harm? Environmental Building News, August 2007”

If alternative products prove effective we will revisit this policy.

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Clear Finished Hardboard- or MDO-Faced Doors

Information Bulletin 457

Date: November, 2011

Eggers Industries

Eggers no longer offers “clear finish” as an option on doors having Hardboard or MDO faces. The inconsistent color of these face options produces too wide of a variation for normal aesthetic acceptance.

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Clear (01-CLEAR) Sample Submittal Waiver

Date:

I am requesting that Eggers Industries not submit a clear (01-Clear) physical sample for approval for the order listed below and understand that the order will be finished with Eggers' standard clear (01-Clear) finish. By signing this request below, I understand that I am relieving Eggers Industries of any liabilities that may occur due to not having a physical sample produced for this project.

Customer Name:

Project Name:

PO #:

Veneer cut & species:

Signed By:

Date:

Print Name:

Split Finishes
Information Bulletin 440

Date: March, 2015

Eggers Industries

The term split finish is used herein to describe doors where a different finish is used on opposite faces of the door.

Interior doors that are pre-finished at Eggers with combinations of stain, clear and opaque on opposite faces are not considered split finish. These combinations will not require SCL core in order to maintain the warranty.

The Eggers warranty covers doors constructed using Structural Composite Lumber (SCL) core when different finishes are used on one face than the other. This includes exterior doors having an exterior finish on the outside and an interior finish on the inside. This can also include latex or enamel paint on one side and stain on the other. Please note the differences in the scenarios below.

Summary of Warranty Rules

- If factory finished both sides and core is SCL: The warranty remains in effect for any combination of finishes on opposite faces.
- If factory finished both sides and core is other than SCL: The warranty will be void if Cerused or Prime-only are used in combination with other finish types.
- If field finished both sides and core is SCL: The warranty remains in effect for any combination of finishes on opposite faces.
- If field finished both sides and core is other than SCL: Warranty is void if finish 1 and finish 2 are different
- Doors are not available with factory finish one side only

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Eggers Finishing Systems

Information Bulletin 454

Date: May, 2015

Eggers Industries

Eggers provides the widest selection of finishing systems in the industry. Our wide range of finish systems are anchored by Gardall, consisting of water based stains and 100% solid clear coats which contain no VOC's. Gardall is an environmentally friendly finish system.

Eggers' Gardall finish system meets or exceeds the performance standards set by WDMA and AWS for UV-cured finish systems. Eggers' broad selection of finishing systems provides a cost effective alternative to field finishing. With factory finishing, you can expect superior color consistency and uniformity.

Neenah Division Finishing Process:
Our Neenah division utilizes a precision roll coating finishing process that results in six coats of finish with a final dry coating thickness of 1.5 mils. Multiple thin coats of material offer a high-quality smooth appearance with the durability that is essential in the commercial door industry.

Two Rivers Division Finishing Process:
Our Two Rivers Division utilizes a top-of-the-line spray finishing system with automatic spray guns all in an enclosed chamber. Eggers has implemented strict manufacturing procedures and processes to address and avoid the common finishing issues and we take great pride in the superior quality our finishing system provides.

OTHER SYSTEMS AVAILABLE

Gardall Plus
This is the same Gardall finish system but it has additional sealer and/or topcoats applied. This is used for specifications that call out filled effect finish or semi-filled. Ask for clarification whenever filled effect is listed in a specification.

Opaque Finish
Our opaque finish is offered as an AWS system 5 for opaque finishes and we can match any color. This finish is often referred to as a “painted finish”. AWI does not recognize “paint” as a finish system, only opaque varnishes, as “paint” is too generic of a term to be used as a designated architectural grade finish.

Ebonized Finish
This finish blackens the veneer and is done in one of two methods depending upon the look that is desired. We will either utilize stain or diluted opaque varnishes to obtain the desired color.

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Eggers Finishing Systems
Information Bulletin 454

Date: May, 2015

Eggers Industries

Whitewash Finish
A white stain is used to achieve this specialty look.

Toned / NGR Finishes
These systems are available by special request. These non-wiping stain application (NGR) finishes have the colorants incorporated into the transparent finish coats.

Exterior Finish
Exterior finish is different than any other finish system we offer. All exterior doors are finished with an exterior grade spar urethane, a water and UV resistant finish. This is a specially formulated finish designed to withstand extreme environmental conditions, the finish expands and contracts with wood as the humidity and temperature change.

These are not permanent finishes and will require yearly maintenance to preserve the integrity of the finish. Our exterior finish includes the preservative treatment which is a fungicide and mildew-resistant treatment that is sprayed on the doors prior to stain and topcoats. It contains water repellants to aid in control of checking and grain raising.

Due to the preservative treatment and the general characteristics of spar varnish, the overall appearance of an exterior finish is different than our interior finishes. Sample approval for both interior and exterior finishes will be required for all projects.

Factory Finish Specifications
Section 08200, Part II, Prefinish:
Doors to be factory finished to meet or exceed WDMA I.S. 1A-13 specifications for a TR-8 UV-cured finish system or AWI Section 5 specifications for a UV curable polyester urethane finish system.

Specify Eggers' Gardall – a water-based stain and UV curable polyester urethane finish system which complies with all applicable Federal and State regulations for Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAP) emission limitations per the EPA Clean Air Act.

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Eggers Finishing Systems
Information Bulletin 454

Date: May, 2015

Eggers Industries

Additional Specification Information:
Industry standards allow doors with a full range of color and grain that exist naturally in species. Veneer color and characteristic may vary between species, within the same specie, and potentially within a flitch. Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly or match uniformly in color or grain must be specified at the time of quotation.

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Field Touch Up and Repair Instructions
Eggers Finish System
Information Bulletin 377

Date: March, 2011

Eggers Industries

A door requiring repairs in the field can be touched up and re-coated using the following steps:

- Scratches can be touched up with stain provided by Eggers or color touch up markers available through Mohawk Finishing Products at www.mohawk-finishing.com. Wax or putty sticks should be avoided if the area needs to be re-coated.
- For small dents, burn-in sticks may be used to fill the damaged area.
- For larger touch-ups, sand area to be repaired using medium grit paper(s) in the 120-180 grit range. Failing to properly sand the factory finished surface may result in poor adhesion of any applied materials.
- Clean sanded area using a quality lacquer thinner blend that includes aromatics, alcohol, ketone and ester solvents. Acetone and/or MEK (methyl ethyl ketone) could be used as a stand-alone solvent. The cleaned surface must be free of dirt, grease, oils, sanding dust and waxes prior to touch-up.

Standard Construction Sites

The door may be re-coated using any acrylic urethanes that are available through home improvement chains or paint stores. Pre-catalyzed lacquers can be supplied by Mohawk Finishing Products and some paint stores. Both of these products are available in spray can application and various gloss ranges. Satin gloss will be the best match for our standard gloss finish. The best results for blending would be to re-coat the entire door face.

LEED Construction Sites

LEED requires that all paints and adhesives used on-site meet certain VOC emission levels. Sherwin Williams has LEED compliant materials available at their retail outlet paint stores. The recommended finish products are:

Stains	Minwax Wood Finish 250 VOC formula
Varnish	Minwax Water-Based Polyurethane Varnish
Opaque	ProMar 200 Latex B20W and B31W Series

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- If multiple coats are required, sanding between dried coats is recommended.

These statements represent our suggestion for the type of products and processes to use for the best result and should not be intended as a guarantee. Eggers Industries is not responsible for the appearance of repaired doors or problems resulting from field repairs.

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Puttying Nail Holes
Information Bulletin 274

Date: February, 2013

Eggers Industries

In Applied Moulding:

Eggers standard application of moulding is with adhesive only. Where nails are required per the door construction or moulding dimensions (see info bulletin #238). Nail holes will be treated as follows:

Doors Finished***** at Eggers – Nail holes will be filled to match the finish
Doors Primed at Eggers – Nail holes will be puttied but not primed
Doors shipped without finish – Nail holes will not be filled

In Beads (for Louver or Lites installed at Eggers)

Beads are secured in the opening with nails (brads). Nail holes will be treated as follows:

Doors Finished***** at Eggers – Nail holes will be filled to match the finish
Doors Primed at Eggers – Nail holes will be puttied but not primed
Doors shipped without finish – Nail holes will not be filled

***** This includes clear, stained and painted finish options

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20-Minute Fire Rated Doors

20-Minute Pyroswiss Glass

No. 432-07-08

Eggers Industries

Our standard non-wired glass offering for 20-minute doors is Pyroswiss.

This glazing:

- is nominally 1/4” thick.
- is available with any of our standard wood beads having a stop height of at least 3/8”
- requires 1/8” clearance between the glass and cutout on all four edges
- is fire rated for 20 minute doors only
- is safety rated
- is approved for a maximum height of 87-9/16”
- is approved for a maximum area of 2,868 sq. inches
- is not available in dimensions where the length is greater than 10 times the width
- has the following restrictions:
  - ✓ Minimum dimension of 4” (length or width)
  - ✓ Standard minimum diagonal dimension of 14” visible

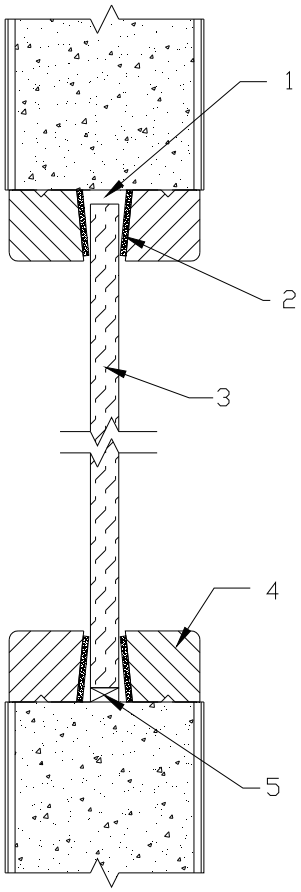
The following can be done with Pyroswiss (we will need to contact the manufacturer for prices):

- Glass can be radiused convex but not concave (the minimum radius for use with a wood bead is 6”)
- Can be etched (design or logo)
- Can have beveled edges
- Can be obscured

Note: Pyroswiss glazing must be allowed room to expand, and will be installed using 1/8” setting blocks (See Eggers glazing instructions for a full description of the installation procedure). Check with Eggers’ product development department before specifying for use in a metal vision panel, as the required setting blocks are incompatible with many metal vision panels.

Pyroswiss Glass in Wood Bead

1. 1/8" clearance between glass and cutout
2. Glazing tape or caulk
3. 1/4" Pyroswiss glass
4. Wood Bead (shown with #100 profile)
5. 1/8"x 1/8"x 3" neoprene setting block (at quarter points of cut-out)



Glazing Dimension:
Width = Cutout minus 1/4"
Length = Cutout minus 1/4"

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45-Minute Full Lite Doors

Information Bulletin 357

Date: July, 2012

Eggers Industries

Eggers has approval to manufacture 45-minute full lite singles and pairs, utilizing our 11-ply construction with the following requirements/limitations.

1. Maximum size of doors
   a. Singles 4-0 X 10-0
   b. Pairs 8-0 X 8-0 (UL & WH); 8-0 X 9-0 (WH)*
   c. DE Pairs 8-0 X 8-0
2. Glazing types: any of the 45-min safety-rated glass types shown on Eggers Fire-Rated Glazing Matrix
3. Wood bead, for glazing up to 5/16” thick, will be profile 114 and will require metal glazing clips.
4. Glazing sizes. This construction allows glazing up to 1714 square inches in area. Refer to Eggers Fire-Rated Glazing Matrix for specific glass/frame applications.
5. Minimum 3” between lock and lite cut-outs Minimum margins: 10” bottom rail, 6” top rail, and 6” stiles
6. Where allowed, the 114 bead can be used with plastic-faces doors. For this application the bead will be rounded to match the radius corners of the lite cut-out.
7. Grillwork available
8. CVR Hardware
   a. CVR approval is by device due to the differences in channel dimensions. The only approved devices are Sargent and Adams Rite.
   b. CVRs on pairs are only available up to 8’.

* Warnock Hersey only, requires 5” Tectonite rails and stile blocking

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Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
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Architectural Veneer Faces, Custom Wood Products, Plywood

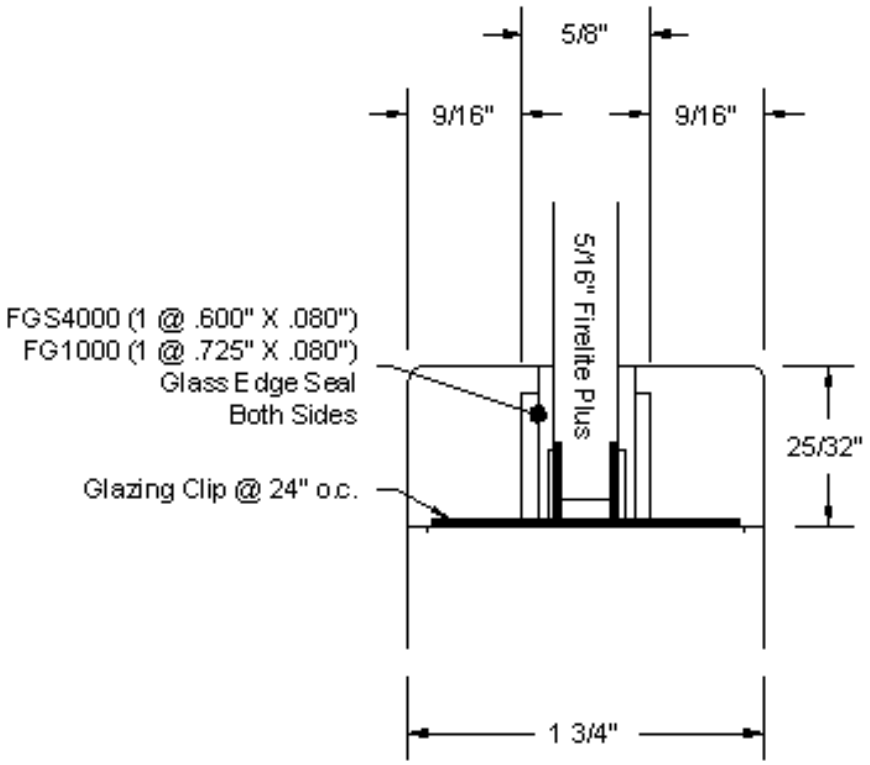
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45-Minute Full Lite Doors

Information Bulletin 357

Date: July, 2012

Eggers Industries



STOP DETAIL FOR DOORS - #114

45 Minute Full Lite Singles or Pairs
Maximum Visible Lite: 1714 sq. in.
Maximum Height: 86 1/2"
Maximum Width: 36"

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DUTCH DOORS
Information Bulletin 317

Date: March, 2014

Eggers Industries

General Information:

If a shelf required, we will need to know

- Will the shelf be top-mounted or side-mounted?
- If it is a single shelf, which side of the door will it be on?
- If the door is unfinished, is the shelf to be installed or shipped loose? Will it be a Standard Eggers shelf at 1-1/8" thickness or a custom shelf? If custom, what will the thickness be?

Standard shelf information

- If the door is pre-finished the shelf must be factory installed.
- If a shelf is going to be mounted on the top of the bottom leaf the factory will cut the door down to accept the shelf, whether shelf is shipped loose or installed.
- If there is no shelf or the shelf is side-mounted, the top rail of the bottom leaf will be veneered as standard procedure.
- If door has a plastic laminate shelf the brackets will be plastic laminated.

20-Min Applications:

UL approval is for both positive and neutral pressure applications up to 4-0 x 10-0.
Warnock Hersey approval is for neutral pressure applications up to 4-0 x 8-0.
Both approvals allow the Dutch door to be provided with a single shelf or without a shelf.

Intumescent seals are required for all applications (Cat A, Cat B, Neutral) not using a metal astragal. These seals will be installed in the bottom rail of the top leaf during manufacturing.

All labeled openings require doors to self-close and self-latch latching devices. With a labeled Dutch door there are several options to accomplish this and maintain the label validity.

- Self-closing: Both leaves may include independent closers; a closer may be used on one leaf with an approved astragal between the leaves serving to close the second leaf; Spring hinges may be used to close one or both leaves (in accordance with the hinge listing or leaf sizes per NFPA-80).

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Flush Doors

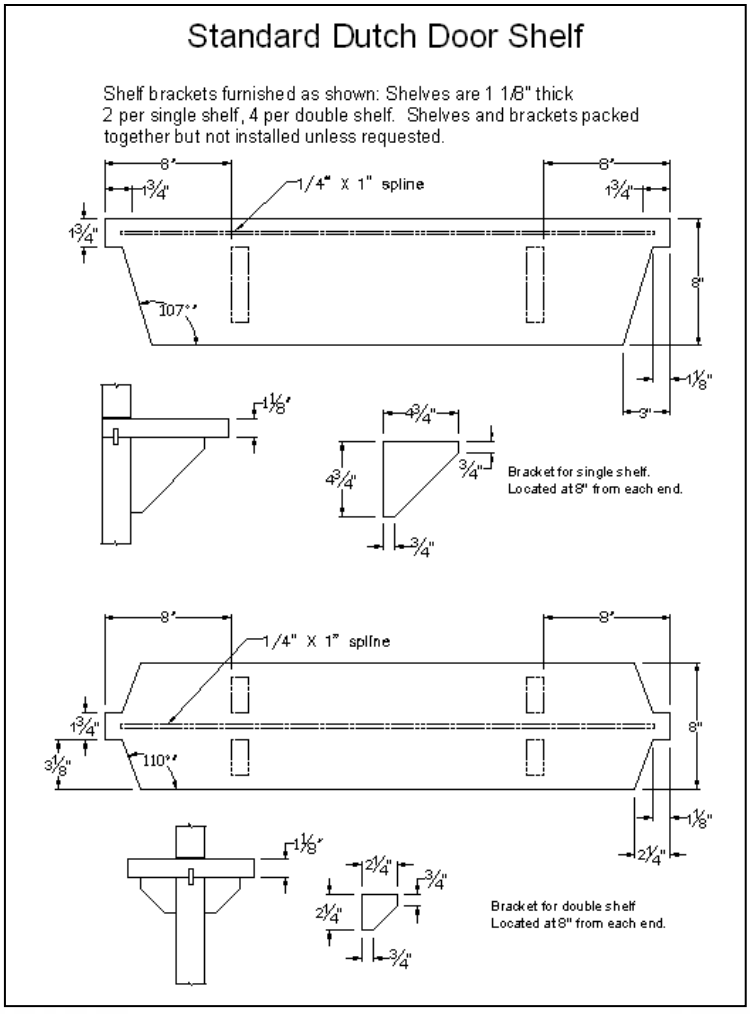
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- Latching: Both leaves may include independent latches; one leaf may latch into the other leaf; where an astragal is used the latch is only required in one leaf where the latched leaf prevents the second leaf from opening.

Dutch doors are constructed as two dependant leaves; they are not approved as stand alone items. The doors are constructed, and the identification marks applied, to show they belong in the same opening. Eggers will apply the fire label to the top leaf; the bottom leaf depends on its association and common mark number for its fire rating.



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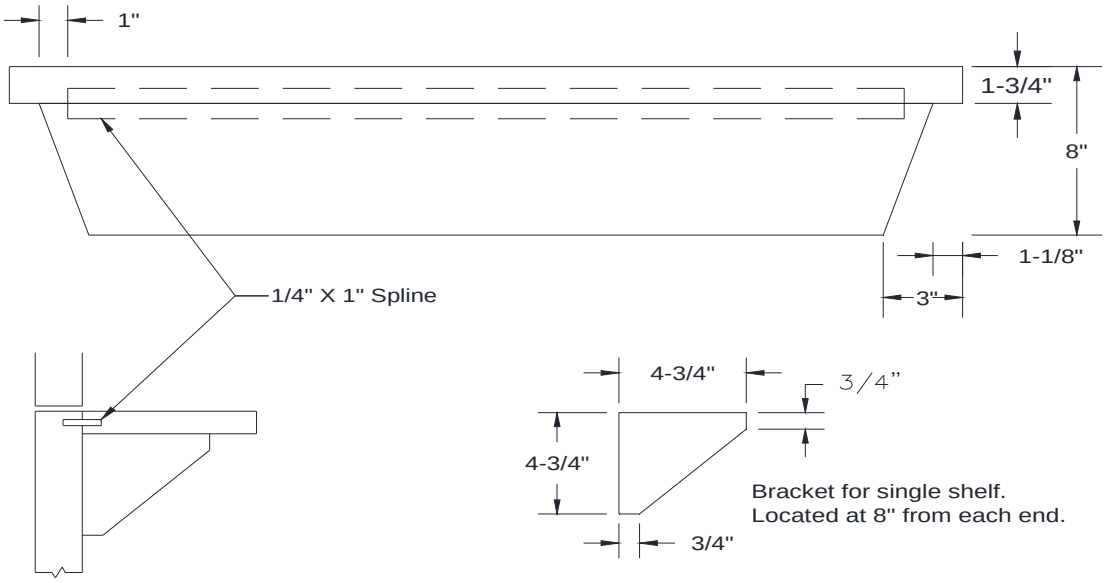
DUTCH DOORS
Information Bulletin 317

Date: March, 2014

Eggers Industries

Side Mounted Dutch Door Shelf

Shelf brackets furnished as shown:
2 per single shelf. Shelves and brackets packed together but not installed unless requested.



Bracket for single shelf.
Located at 8" from each end.

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Fire Rated Glazing
Information Bulletin #447

Date: December 2016

Eggers Industries

The following 4 pages include an approvals matrix of glazing products available for use as lites in fire rated doors and an installation matrix of the installation options available for each glazing type. Please contact Product Development regarding glass types not shown.

The dimensions shown are based on the door and glazing approvals. These may be further restricted by the approval of the vision frame selected.

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Fire Rated Glazing
Information Bulletin #447

Date: December 2016

Eggers Industries

Approvals

WIRED GLASS		Thickness	Safety (Impact) Rated	Passes Hose stream Test	Option to Factory Glazing	Max size in 20-min std construction	Max size in 20-min full-lite construction	Max size in 45-min std construction	Max size in 45-min full-lite construction	Max size in 60-min std construction	Max size in 90-min std construction
Superlite I-W	Non-Temperature Rise Doors	5/16" (0.304)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq inches	36" wide, 84" high, 2856 sq inches	36" wide, 54" high, 1296 sq inches	36" wide, 54" high, 1296 sq inches	12" wide, 54" high; 648 sq inches	10" wide, 33" high; 100 sq inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq. inches	10" wide, 33" high, 100 sq. inches
SAFE-Wire	Non-Temperature Rise Doors	1/4"	Yes	Yes	Yes	35-3/4" wide, 54" high, 1296 sq inches	35-3/4" wide, 87-9/16" high, 2868 sq inches	36" wide, 54" high, 1296 sq inches	36" wide, 54" high, 1296 sq inches	12" wide, 33" high, 100 sq. inches	12" wide, 33" high, 100 sq. inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq. inches	12" wide, 33" high, 100 sq. inches
Wirelite NT	Non-Temperature Rise Doors	1/4" (0.259)	Yes	Yes	Yes	34-3/4" wide, 54" high, 1296 sq inches	34-3/4" wide, 87-9/16" high, 2868 sq inches	36" wide, 54" high, 1296 sq inches	34" wide, 84" high, 1714 sq inches	12" wide, 54" high; 648 sq inches	12" wide, 46" high; 552 sq inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	10" wide, 33" high, 100 sq. inches	10" wide, 33" high, 100 sq. inches
FIRE-PROTECTION GLAZING		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Max size in 20-min std construction**	**Max size in 20-min full-lite construction**	**Max size in 45-min std construction**	**Max size in 45-min full-lite construction**	**Max size in 60-min std construction**	**Max size in 90-min std construction**
Firelite NT	Non-Temperature Rise Doors	3/16" (0.201)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 87-9/16" high, 2868 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 86-1/2" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Firelite Plus	Non-Temperature Rise Doors	5/16" (0.350)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 87-9/16" high, 2868 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 86-1/2" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Superlite X-90	Non-Temperature Rise Doors	3/4"	Yes	Yes	Yes	Not Applicable		10" wide, 33" high, 100 sq inches	Not Applicable	10" wide, 33" high, 100 sq inches	10" wide, 33" high, 100 sq inches
	Temperature Rise Doors					Not Applicable	Not Applicable	10" wide, 33" high, 100 sq inches	Not Applicable	10" wide, 33" high, 100 sq inches	10" wide, 33" high, 100 sq inches
Superlite C/S	Non-Temperature Rise Doors	3/16" (0.187)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" Wide, 77" high, 2772 sq inches	36" wide, 54" high, 1296 sq Inches	36" Wide, 77" high, 1714 sq inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Pyran Platinum F	Non-Temperature Rise Doors	3/16" (0.194)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 76" high, 2736 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 76" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Pyran Platinum L	Non-Temperature Rise Doors	3/8" (0.362)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 75" high, 2700 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 75" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Keralite FR-F	Non-Temperature Rise Doors	3/16" (0.201)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 78" high, 2808 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 78" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Keralite FR_L	Non-Temperature Rise Doors	5/16" (0.340)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 78" high, 2808 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 78" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	10" wide, 33" high, 100 sq inches	10" wide, 33" high, 100 sq inches
PyroStop (45, 60)	Non-Temperature Rise Doors	3/4" and 7/8" respectively	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in	36" wide, 86-1/2" high, 1714 sq Inches	36" wide, 54" high, 1296 sq in	Not Allowed
	Temperature Rise Doors							Not Applicable	Not Applicable	Not Applicable	

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Fire Rated Glazing
Information Bulletin #447

Date: December 2016

Eggers Industries

Approvals (continued):

20-MIN CLEAR GLAZING		Thickness	Safety (Impact) Rated	Passes Hose Stream Test	Option to Factory Glazing	Max size in 20-min std construction	Max size in 20-min full-lite construction	Max size in 45-min std construction	Max size in 45-min full-lite construction	Max size in 60-min std construction	Max size in 90-min std construction
PyroSwiss	Non-Temperature Rise Doors	1/4" (.222)	Yes Cat I & II	No	Yes	36" wide, 54" High, 1296 sq in	36" wide, 87-9/16" High, 2868 sq in	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
PyroEdge-20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	36" wide, 54" High, 1296 sq in	36" wide, 87-9/16" High, 2868 sq in	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
FireSAFE-20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	34" wide, 54" High, 1296 sq in	34" wide, 76" High, 2584 sq in	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
FireGlass 20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	36" wide, 54" High, 1296 sq in	36" wide, 87-9/16" High, 2868 sq in	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
SuperLite I	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	36" wide, 54" High, 1296 sq in	36" wide, 87-9/16" High, 2868 sq in	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
Pyrodur	Non-Temperature Rise Doors	0.313	Yes Cat I	No	Yes	36" wide, 54" High, 1296 sq in	Not Approved	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
FIRE-RESISTIVE GLAZING		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Max size in 20-min std construction**	**Max size in 20-min full-lite construction**	**Max size in 45-min std construction**	**Max size in 45-min full-lite construction**	**Max size in 60-min std construction**	**Max size in 90-min std construction**
SuperLite II-XL (45, 60, 90)	Non-Temperature Rise Doors	3/4", 1-1/8" and 1-1/2" respectively	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in	36" wide, 86-1/2" high, 1714 sq Inches	36" wide, 54" high, 1296 sq in	36" wide, 54" high, 1296 sq in
	Temperature Rise Doors										
PyroStop (90)	Non-Temperature Rise Doors	1-7/16"	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in
	Temperature Rise Doors										
ContraFlam or SwissFlam (45)	Non-Temperature Rise Doors	3/4"	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in	36" wide, 86-1/2" high, 1714 sq Inches	Not Approved	Not Approved
	Temperature Rise Doors										
ContraFlam or SwissFlam (60)	Non-Temperature Rise Doors	1"	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in	Not Approved
	Temperature Rise Doors										
ContraFlam or SwissFlam (90)	Non-Temperature Rise Doors	1-1/2"	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in
	Temperature Rise Doors										
Keralite FR_Ultra	Non-Temperature Rise Doors	3/4" (.719-.781)	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in	36" wide, 76" high, 1714 sq in	36" wide, 54" high, 1296 sq in	36" wide, 54" high, 1296 sq in
	Temperature Rise Doors										
INSULATED GLASS UNITS (IGU)		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Max size in 20-min std construction**	**Max size in 20-min full-lite construction**	**Max size in 45-min std construction**	**Max size in 45-min full-lite construction**	**Max size in 60-min std construction**	**Max size in 90-min std construction**
Firelite Plus 1" IGU	Non-Temperature Rise Doors	1"	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 87-9/16" high, 2868 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 86-1/2" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches

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Fire Rated Glazing
Information Bulletin #447

Date: December 2016

Eggers Industries

Installation:

WIRED GLASS		Thickness Advertized (Actual)	Safety (Impact) Rated	Passes Hose stream Test	Option to Factory Glazing	Installation in 20-min std construction	Installation in 20-min full-lite construction	Installation in 45-min std construction	Installation in 45-min full-lite construction	Installation in 60-min std construction	Installation in 90-min std construction
Superlite I-W	Non-Temperature Rise Doors	5/16" (0.304)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
SAFE-Wire	Non-Temperature Rise Doors	1/4"	Yes	Yes	Yes	Bead or MVP; min stop height is 5/8"	Bead or MVP; min stop height is 3/4"	Bead or MVP; min stop height is 5/8"	Bead or MVP; min stop height is 5/8"	Bead or MVP; min stop height is 5/8"	Bead or MVP; min stop height is 5/8"
	Temperature Rise Doors					Not Applicable				Bead or MVP; min stop height is 5/8"	Bead or MVP; min stop height is 5/8"
Wirelite NT	Non-Temperature Rise Doors	1/4" (0.259)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
FIRE-PROTECTION GLAZING		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Installation in 20-min std construction**	**Installation in 20-min full-lite construction**	**Installation in 45-min std construction**	**Installation in 45-min full-lite construction**	**Installation in 60-min std construction**	**Installation in 90-min std construction**
Firelite NT	Non-Temperature Rise Doors	3/16" (0.201)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
Firelite Plus	Non-Temperature Rise Doors	5/16" (0.350)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
Superlite X-90	Non-Temperature Rise Doors	3/4"	Yes	Yes	Yes	Not Applicable		Metal vision frame	Not Applicable	Metal vision frame	Metal vision frame
	Temperature Rise Doors					Not Applicable			Not Applicable		
Superlite C/S	Non-Temperature Rise Doors	3/16" (0.187)	Yes	Yes	Yes	Woodbead or metal vision frame with stop height of at least 5/8"	Woodbead or metal vision frame with stop height of at least 5/8"	Veneer-wrapped bead or MVP with stop height of at least 5/8"	Intumescent 114 bead or MVP with stop height of at least 5/8"	Veneer-wrapped bead or MVP with stop height of at least 5/8"	Veneer-wrapped bead or MVP with stop height of at least 5/8"
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or MVP with stop height of at	Veneer-wrapped bead or MVP with stop height of at
Pyran Platinum F	Non-Temperature Rise Doors	3/16" (0.194)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
Pyran Platinum L	Non-Temperature Rise Doors	3/8" (0.362)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
Keralite FR-F	Non-Temperature Rise Doors	3/16" (0.201)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
Keralite FR_L	Non-Temperature Rise Doors	5/16" (0.340)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
PyroStop (45, 60)	Non-Temperature Rise Doors	3/4" and 7/8" respectively	Yes Cat I & II	Yes	Yes	Not Applicable		Metal vision frame	Metal vision frame	Metal vision frame	Not Applicable
	Temperature Rise Doors										

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Fire Rated Glazing
Information Bulletin #447

Date: December 2016

Eggers Industries

Installation (continued):

20-MIN CLEAR GLAZING		Thickness	Safety (Impact) Rated	Passes Hose Stream Test	Option to Factory Glazing	Installation in 20-min std construction	Installation in 20-min full-lite construction	Installation in 45-min std construction	Installation in 45-min full-lite construction	Installation in 60-min std construction	Installation in 90-min std construction
PyroSwiss	Non-Temperature Rise Doors	1/4" (.222)	Yes Cat I & II	No	Yes	Woodbead with 3/8" minimum stop height; metal vision frames	Woodbead with 3/8" minimum stop height; metal vision frames	Not Applicable			
	Temperature Rise Doors					Not Applicable					
PyroEdge-20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	Intumescent 200 or 208 woodbead with 1/2" maximum stop height;	Intumescent 200 or 208 woodbead with 1/2" maximum stop height;	Not Applicable			
	Temperature Rise Doors					Not Applicable					
FireSAFE-20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	Anemostat LoPro metal vision frames and 1/8" thick PVC glazing tape	Anemostat LoPro metal vision frames and 1/8" thick PVC glazing tape	Not Applicable			
	Temperature Rise Doors					Not Applicable					
FireGlass 20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	Woodbead with 5/8" minimum stop height; metal vision frames	Woodbead with 5/8" minimum stop height; metal vision frames	Not Applicable			
	Temperature Rise Doors					Not Applicable					
SuperLite I	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	Woodbead with 5/8" stop height	Woodbead with 5/8" stop height	Not Applicable			
	Temperature Rise Doors					Not Applicable					
Pyrodur	Non-Temperature Rise Doors	0.313	Yes Cat I	No	Yes	Woodbead with 5/8" minimum stop height; metal vision frames	Not Applicable due to Impact Resistance Rating	Not Applicable			
	Temperature Rise Doors					Not Applicable					
FIRE-RESISTIVE GLAZING		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Installation in 20-min std construction**	**Installation in 20-min full-lite construction**	**Installation in 45-min std construction**	**Installation in 45-min full-lite construction**	**Installation in 60-min std construction**	**Installation in 90-min std construction**
SuperLite II-XL (45, 60, 90)	Non-Temperature Rise Doors	3/4", 1-1/8" and 1-1/2" respectively	Yes Cat I & II	Yes	Yes	Not Applicable		Metal vision frame	Metal vision frame	Metal vision frame	Metal vision frame
	Temperature Rise Doors										
PyroStop (90)	Non-Temperature Rise Doors	1-7/16"	Yes Cat I & II	Yes	Yes	Not Applicable					Metal vision frame
	Temperature Rise Doors										
ContraFlam or SwissFlam (45)	Non-Temperature Rise Doors	3/4"	Yes Cat I & II	Yes	Yes	Not Applicable		Metal vision frame	Metal vision frame	Not Applicable	
	Temperature Rise Doors										
ContraFlam or SwissFlam (60)	Non-Temperature Rise Doors	1"	Yes Cat I & II	Yes	Yes	Not Applicable				Metal vision frame	Not Applicable
	Temperature Rise Doors										
ContraFlam or SwissFlam (90)	Non-Temperature Rise Doors	1-1/2"	Yes Cat I & II	Yes	Yes	Not Applicable					Metal vision frame
	Temperature Rise Doors										
Keralite FR_Ultra	Non-Temperature Rise Doors	3/4" (.719-.781)	Yes	Yes	Yes	Not Applicable		Metal vision frame	Metal vision frame	Metal vision frame	Metal vision frame
	Temperature Rise Doors										
INSULATED GLASS UNITS (IGU)		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Installation in 20-min std construction**	**Installation in 20-min full-lite construction**	**Installation in 45-min std construction**	**Installation in 45-min full-lite construction**	**Installation in 60-min std construction**	**Installation in 90-min std construction**
Firelite Plus 1" IGU	Non-Temperature Rise Doors	1"	Yes	Yes	Yes	Metal vision frame	Metal vision frame	Metal vision frame	Metal vision frame	Metal vision frame	Metal vision frame
	Temperature Rise Doors					Not Applicable				Metal vision frame	Metal vision frame

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Fire-Rated doors with a Mullion

Information Bulletin #353

Date: April, 2012

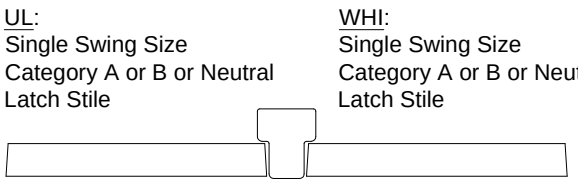
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The inclusion of a mullion in a door opening can affect the door construction required for the opening. There are two basic types of mullions to be considered. Those located **behind** the doors and those located **between** the doors. The exact shape and dimensions are not important. The basic question is whether there is metal between the meeting edges of the doors.

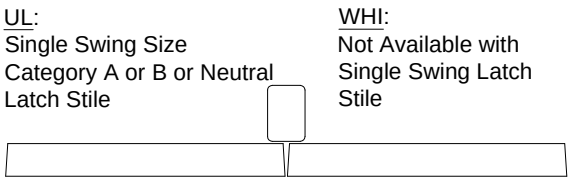
Underwriters Laboratories considers fire rated doors, 20 through 90 minute, as single swing whether the mullion is between or behind the doors. The maximum door size is per our single swing approvals. This applies for applications where both leaves are active, including mortised exits, rim exits, and other single or two point latch options (any single swing latch option).
Warnock Hersey (ITS) considers fire rated doors, 20 through 90 minute, as single swing if the mullion is between the doors. If the mullion is located behind the doors they are still considered a pair. The maximum sizes therefore vary depending on whether the mullion is between the doors or not.

These interpretations apply to neutral pressure, as well as Category A and B positive pressure.
For manufacturing reasons, applications where the mullion is behind the doors will only be offered with a UL label.

These options are summarized in the following drawings:



Mullion Between Doors



Mullion Behind Doors

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Fusible Link Louvers in 20-Min Labeled Doors
Information Bulletin 321

Date: August, 2010

Eggers Industries

Use of Fusible Link Louvers in 20-Min Labeled Doors

Eggers quoting and order entry systems have been conditioned to not allow a louver pick for 20-minute labeled doors.

Under the old model codes, based on neutral pressure applications, allowance was made to use fusible link louvers in 20-minute labeled doors provided they were not in doors considered “Means of Egress” (such as classrooms, offices, meeting rooms, etc.) Typically, their use is restricted to applications such as mechanical/electrical rooms.

In the IBC, based on positive pressure, all 20-minute applications prohibit the use of louvers. In this code, all 20-minute applications are considered smoke control, require the “S” label, and specifically state that louvers are not allowed.

Where the enforceable code or AHJ allow the use of fusible link louvers both UL and Warnock Hersey allow their use. This is a smoke management issue, not a fire approval issue. Where this situation exists, the application will be directed to the technical department for approval and a letter from the AHJ will be required for the order file.

See the “Hardware Tables” for specific agency approvals, restrictions, and requirements such as allowable sizes, margins, constructions, etc.

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Fire & Safety Information on Glass

Information Bulletin 392

Date: February 2014

Eggers Industries

Eggers glazing policy regarding the markings required on fire and safety rated glazing is compatible with the International Building Code requirements.

The current code considers doors to be hazardous locations in regards to human impact. As a result all doors having lites must be glazed with impact resistant glazing. In addition, the historic exception for wired glass, allowing impact testing per ANSI Z97.1 rather than CPSC 16 CFR, part 1201 criteria, has been eliminated.

Eggers policy is:

1. Where safety rated glazing is used to glaze doors each pane of glazing will bear the safety logo (also referred to as the safety “bug”).
2. Where fire rated glazing is used to glaze doors each pane of glazing will bear both a fire and safety rating logo.

This policy applies to doors have single or multiple lites. Each separate pane will bear the logo. Where grill work is applied to a single pane, giving a multiple lite appearance, only one logo will be applied.

By code, these logos must be permanent, and typically are either acid-etched or sand-blasted onto the glazing. Where logos are present and the glass is reversible, the doors will be glazed such that this logo will be located in the lower hinge corner of the lite opening. Where the glazing is not reversible (such as textured glass where the texture is specified towards one face or the other) the logo will be in a lower corner, but may be on the latch or hinge edge.

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: October 2017

Eggers Industries

Warnock Hersey and Underwriters Laboratories have clarified the distance from lite cutout to door edge, multiple lites and other hardware cutouts as shown below. Except for 45-min full lite constructions (refer to Information Bulletin 357), the cutout-to-door edge dimensions also apply to bottom rails, however, 10” is the recommended minimum to comply with ADA requirements. These dimensions do not apply to CVR hardware. Refer to info Bulletin 459 for appropriate margins.

Non-Rated		**Edge of Lite Cutout to Edge of Door**	**Edge of Lite Cutout to Edge of Lite Cutout**	**Edge of Lite Cutout to Nearest Point of Lock Cutout**
Particleboard	Non-Rated	5”	5”*	3-5/16”
Stave	Non-Rated	5”	3”	1-1/2”
Structural Composite	Non-Rated	5”	3”	1-1/2”
Agrifiber	Non-Rated	5”	5”	3-5/16”
Acoustical	Non-Rated	5”	5”	5”
Bullet Resistant	Non-Rated	5”	3”	1-1/2”
Foam or Hollow	Non-Rated	5”	5”	5”

***** For applications without operable hardware, such as side panels, this margin may be reduced to 3” without voiding the warranty.

UL		Edge of Lite Cutout to Edge of Door	Edge of Lite Cutout to Edge of Lite Cutout	Edge of Lite Cutout to Nearest Point of Lock Cutout
Particleboard	20-min	5”	5”	3-5/16”
Stave	20-min	5”	3”	1-1/2”

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: October 2017

Eggers Industries

Structural Composite	20-min	5”	3”	1-1/2”
Agrifiber	20-min	5”	5”	3-5/16”
Bullet Resistant	20-min	5”	3”	1-1/2”
Acoustical	All Ratings	5”	5”	5”
Agrifiber	45-min	NA	NA	NA
Particleboard	45-min	NA	NA	NA
Mineral	45-min Full Lite	5-1/2”	5-1/2”	3”
Mineral	45 Through 90-Min	5-1/2”	5-1/2”	3-1/2”

WH		**Edge of Lite Cutout to Edge of Door**	**Edge of Lite Cutout to Edge of Lite Cutout**	**Edge of Lite Cutout to Nearest Point of Lock Cutout**
Particleboard	20-min	5”	5”	5”
Stave	20-min	5”	5”	5”
Structural Composite	20-min	5”	5”	1-1/2”
Agrifiber	20-min	5”	5”	5”
Acoustical	All Ratings	5”	5”	5”
Agrifiber	45-min	6”	6”	6”
Particleboard	45-min	6”	6”	6”
Mineral	45-min Full Lite	5-1/4”	5-1/4”	3”
Mineral	45 Through 90-Min	5-1/4”	5-1/4”	3-1/2”

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: October 2017

Eggers Industries

Notes:

1. Maximum lite dimensions are based on visible lite; the Minimum dimensions shown above are based on cutouts.
2. The distance between the visible lite to visible lite, visible lite to door edge, and visible lite to other hardware cutouts will vary depending upon the lite frame or bead used.
3. This revision changes the specified criteria from distance to visible lite to distance to the lite cutout. The cutout location is the important factor for the approvals. It does not affect the actual minimum dimensions to the visible lite, but changes the way it is determined.
4. The method of calculating lite location is now the same for both agencies.

Lite to edge of door margins: Lite to edge of door margins may be specified in one of two ways:

- Visible lite to door edge- In this case we have to verify the dimension between the cutout and door edge is acceptable by subtracting the bead height from the visible lite to door edge (cutout to edge of door = visible lite margin specified – bead height).

- Minimum margin – In this case the minimum dimension between the visible lite and the door edge is calculated by adding the bead height to the minimum margins in the tables above (visible lite to edge of door = edge of cutout to edge of door + bead height)

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Optional Metal Edges on Labeled Doors

Information Bulletin 398

Date: January, 2017

Eggers Industries

This bulletin applies to applications where the metal protectors are optional, serving to prevent impact damage to the door edges, and are not required as part of the fire approval.

Eggers has approval with U.L. to label 20-90 minute doors where the edges are protected with metal edge guards, metal edges and/or metal edge astragal sets. This approval applies to both full and partial height edge protectors. The partial height edge protectors are mortised flush into the stile edge. Because metal edges are not required to pass fire endurance, the edge protectors may be "U", "T" or "L" shaped. Their means of attachment must be into the door edge, not into the door face. Any edge manufacturer may be specified as long as the edges are made of steel, or have been listed for use on wood/ composite fire doors.

No Category G edge seal is required for neutral pressure applications. When used with Category B positive pressure meeting edge applications a listed Category G edge seal must be applied to the full length of the meeting edges after the edge protectors are attached to the doors. When used with Category A meeting edge applications no surface applied intumescent is required on the edge protector/meeting edge.

For U.L. labeled doors rated 20-60 minutes the edges may also be mortised into one or both faces. When mortised into the face of 45 or 60 minute doors a 1 ½" Tectonite full height blocking is required on the latch stile.

Eggers requires a physical sample of the edge if face mortising is required. Details of are shown below using Rockwood edges as an example.

Note: This approval information does not apply to doors having CVR hardware.

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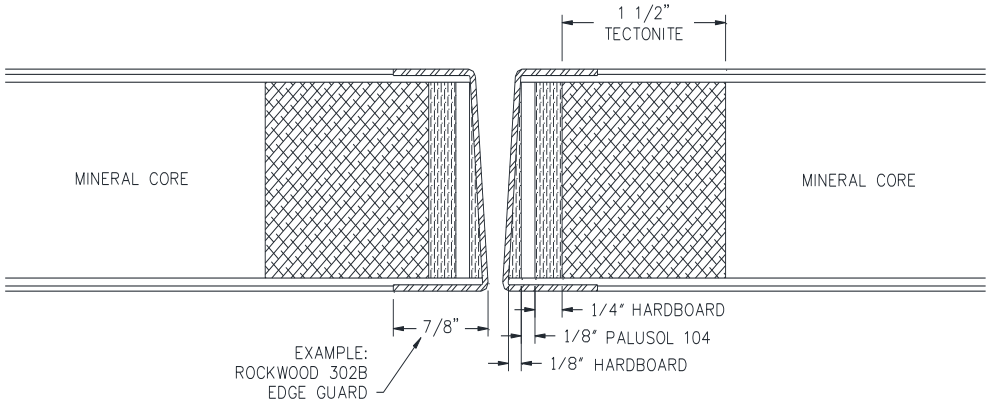
Optional Metal Edges on Labeled Doors

Information Bulletin 398

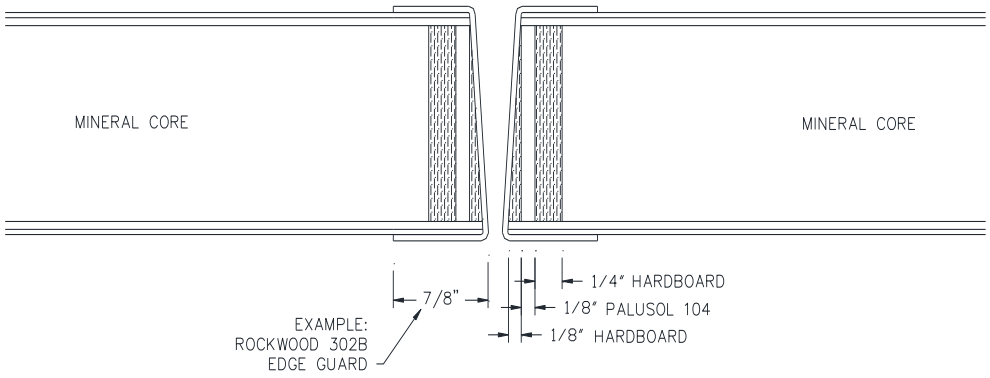
Date: January, 2017

Eggers Industries

MORTISED EDGEGUARDS – U.L., 60–MINUTE MAXIMUM CAN BE MORTISED FLUSH IN ONE FACE OR TWO; PARTIAL HEIGHT ARE MORTISED FLUSH INTO THE EDGE



20 THRU 90–MINUTE U.L. EDGE GUARD SURFACE APPLIED ON FACE, PARTIAL HEIGHT ARE MORTISED FLUSH INTO THE EDGE



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5-Ply Flush Doors
Smoke Barrier Labels

Information Bulletin 267

Date: June, 2011

Eggers Industries

Both the International Building code and the NFPA 101 Life Safety Code make provision for smoke barrier doors. Smoke barrier doors are constructed as fire doors but are unable to bear a true “Fire” label because they do not include latching hardware. While not fire doors, they still require the door construction consistent with the labeled doors on the job, including positive pressure.

To cover these applications, Eggers offers two types of Smoke Barrier label, both of which bear the Warnock Hersey mark. Label #330 is for Category B or Neutral pressure constructions; label #331 is for Category A constructions. The rules governing their sizes and machining options will be the same as those for 20-minute Warnock Hersey doors.

Because the constructions have passed the fire endurance portion of the test both of these labels bear the “S” mark indicating their compliance with the air leakage requirements of UL1784 and UBC 7-2 (1997) part 2.

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Top Latching Hardware Limitations

Information Bulletin

No. 433-06-08

Eggers Industries

Top latching hardware, when used on 20-90 minute labeled or stamped doors (UL or WH), is only allowed on pairs. This hardware cannot be used on single swing applications or where the pairs include a mullion between the doors. This includes any hardware that has only one self latching mechanism located at the top of the door. It does not include full rod hardware, rim exits or mortised exit hardware.

Top latching hardware, also referred to as less bottom rod, has only been evaluated for applications where the bottom of both leaves of a pair can move together. A fire test would be required to insure the door movement, during a fire, relative to a fixed frame or mullion would meet the deflection criteria of the fire test method.

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UNDERCUT CLEARANCE ON FIRE-RATED DOORS

Information Bulletin 439

Date: February, 2011

Eggers Industries

Definitions:

Undercut – The dimension between the bottom of the frame opening and the bottom of the door

Clearance – The dimension between the bottom of the door and the top surface of the material underneath the door

The allowable clearance (as defined above) for labeled fire doors is limited by NFPA-80 to a maximum dimension of 3/4". In versions of NFPA-80 prior to 2007, the allowable clearance varied with the type of floor covering. These varied dimensions were replaced in the 2007 and subsequent versions by the current single dimension. A section called "Floor Coverings" defines what materials can extend through the opening. While Eggers is responsible to insure our labeled doors comply with NFPA-80, we are not responsible to determine whether the materials being used within the opening comply with the floor covering criteria.

So how do we confirm one and not the other? When we receive an order in which the undercut exceeds 3/4" the order entry system will give an "advise" message requesting confirmation from the customer that the opening will include a floor covering, sill or threshold that will meet the 3/4" clearance requirement. This confirmation will be made part of the order file.

Under this interpretation the maximum dimension for the undercut is not a fixed value, only the clearance is. This rule applies to all labeled doors, including acoustic doors.

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Viewers in Labeled Doors

Information Bulletin 450

Date: December, 2010

Eggers Industries

Viewers in Labeled Doors

The use of listed viewers is approved for both Flush and Stile & Rail doors. The approval requires the viewers to be located in the components (core, mullions, crossrails or raised panels) having a minimum thickness of 1". Where our fire approvals allow for the use of flat panels that are thinner than the 1" dimension, there is a conflict.

Because we typically do not have all of the locations and dimensions at the time of quoting, we are unable to give assurance that the viewer will be compatible with the final layout. To avoid issues at time of order entry, whenever a door includes both a flat panel (less than 1" thick) as well as a viewer, the following verbiage needs to be sent to the customer as part of the quote:

> "This quote includes viewers that are only allowed in door components at least 1" thick. Availability is dependant on final layout and locations."

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Von Duprin 33-, 35- and 55-series CVRs

Information Bulletin 430

Date: April, 2014

Eggers Industries

Eggers is required to machine labeled doors in accordance with the hardware manufacturer's templates. In the case of the Von Duprin 3347, 3547 and 5547 concealed vertical rods the template includes a note relative to construction that states "door edging should be installed after device installation".

When Eggers was given approval to provide labeled doors without the use of 5" metal edges the option to field install a filler strip was removed. Von Duprin confirms the 3347A and 3547A versions can be installed in a pre-channeled edge, but they have not updated their template to reflect this. In addition, the 5547 device, which includes an inspection plate for adjustment, and can be installed in a pre-channeled edge.

Eggers will provide labeled doors machined for the 3347A, 3547A or 5547 if the customer acknowledges the door will only be provided with a pre-channel stile and no 5" metal edge. Our form letter Von Duprin 33, 35 and 55 Series CVRs.doc may be used to communicate this to the customer (see the "Form Letter" folder under Technical Literature on the shared (S) drive)

Note: The 3347 and 3547 (without the "A" suffix) are not available on labeled or construction tagged fire doors.

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Wood Astragals for Pair Doors

Information Bulletin 246

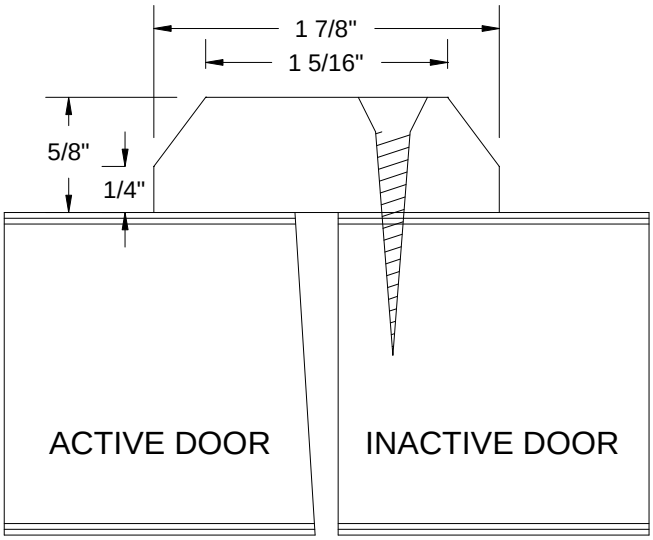
Date: February, 2014

Eggers Industries

In addition to non-rated applications, Eggers can provide flat wood astragals on U.L. and WHI labeled 20-minute pairs. Wood astragals are optional and can be installed on either or both faces of pairs of 20-min doors that did not require astragals to pass the fire test. This includes neutral pressure doors with treated lumber edges as well as positive pressure doors with Category A or Category B meeting edge constructions. The detail below is our stock profile; other profiles may be available with an applicable set-up charge.

This approval also applies to 20-min labeled specialty constructions such as lead-lined and acoustic doors as well. For these applications the astragal will be modified for acoustic seals or lead shielding.

Our standard is to provide the astragals loose for installation in the field. Installation instructions for these astragals are available on our website.



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Blocking and Aux Fire Latches for Fire Rated Pairs

Information Bulletin 322

Date: December, 2015

Eggers Industries

Eggers has approval, with U.L. and WHI, to label pairs of fire-rated doors having concealed vertical rods, surface vertical rods, and one leaf active without the use the 5" metal edgesets or regular edgesets as shown in the tables below. These tables show required* and optional* blocking and required fire latch for these approvals by application, hardware, rating core type and agency. Following the table are drawings of the blocking and fire latches. For consistency, the meeting edge is shown on the left side of the drawings.

***Important Note**: Required blocking part of the fire approval and is automatically included. Optional blocking is not part of the fire approval but must be specified for screw attachment of surface mounted latching hardware. Refer to the blocking drawings to determine which blocking you will need to specify for your application. Additional blocking may be needed for screw attachment of hardware, such as closers, which are not covered within this bulletin. Though-bolts may be used to attach surface-mounted hardware in lieu of blocking.

Standard Options w/ Underwriters Laboratories (Flush and Stile & Rail Doors)

Application	Hardware	Rating			Core				Required Blocking *	Fire Latches
		45	60	90	MC/S&R	GP	PC	AGR		
Standard Swing Active-Active Pairs	SVR	X	X	X	8'x8'	8'x8'	---	---	4	None
	SVR-LBR	X	---	---	8'x8'	8'x8'	---	---	5	6
		---	X	X	8'x8'	8'x8'	---	---	5	3
	PP/PR SVR-LBR	X	X	X	8'x8'	8'x8'	---	---	5	4
	CVR	X	X	X	8'x8'	---	---	---	8	None
	CVR-LBR	X	X	X	8'x8'	---	---	---	8	3
	PP/PR CVR-LBR	X	X	X	8'x8'	---	---	---	8	4
Standard Swing Active-Inactive Pairs	Rim Exit	X	X	X	8'x8'	8'x8'	---	---	6	None
	Mortised Exit	X	X	X	8'x8'	8'x8'	---	---	6	None
	Corner Flush Bolt	X	X	X	8'x8'	8'x8'	---	---	None	None
	Flush bolts up to 12"	X	X	X	8'x8'	8'x8'	---	---	7	None
	FB over 12" up to 24"	X	X	X	8'x8'	8'x8'	---	---	2	None
Double Egress Swing Active-Active Pairs	SVR	X	X	X	8'x8'	8'x8'	---	---	1	2
	SVR-LBR	X	X	X	8'x8'	8'x8'	---	---	1	3
	PP/PR SVR-LBR	X	X	X	8'x8'	8'x8'	---	---	1	4
	CVR	---	---	---	---	---	---	---	---	---
	CVR-LBR	X	X	X	8'x8'	---	---	---	1	1
	PP/PR CVR-LBR	X	X	X	8'x8'	---	---	---	1	5

* Applies only to Flush Door Constructions

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Blocking and Aux Fire Latches for Fire Rated Pairs

Information Bulletin 322

Date: December, 2015

Eggers Industries

Additional Options w/ Warnock Hersey (Flush Doors)

Application	Hardware	Rating			Opening Size per Core				Required Blocking	Fire Latches
		45	60	90	MC	GP	PC	AGR		
Standard Swing Active-Active Pairs	SVR	X	---	---	---	---	6'x7'	---	None	None
		X	X	X	8'x9'	---	---	---	1	None
		X	---	---	---	---	---	8'x8'	8	None
	SVR-LBR	X	---	---	---	---	6'x7'	---	None	6
		X	X	X	---	8'x9'	---	---	9	None
		X	X	X	8'x9'	---	---	---	1	4
	CVR	---	---	---	---	---	---	---	---	---
	CVR-LBR	---	---	---	---	---	---	---	---	---
Standard Swing Active-Inactive Pairs	Rim Exit	X	---	---	---	---	---	8'x8'	8	None
		X	X	---	8'x9'	---	---	---	1	None
		X	---	---	---	---	6'x7'	---	None	None
	Mortised Exit	X		---	---	---	6'x7'	8'x8'	6	None
		X	X	---	8'x9'	---	---	---	1	None
	Corner Flush Bolt	X	X	---	8'x9'	---	---	---	1	None
	Flush bolts up to 12"	X	---	---	---	---	---	8'x8'	2	None
		X	X	---	8'x9'	---	---	---	1	None
		X	---	---	---	---	6'x7'	---	None	None
	FB over 12" up to 24"	X	X	---	8'x9'	---	---	---	1	None
		X	---	---	---	---	6'x7'	---	None	None
Double Egress Swing Active-Active Pairs	SVR	X	---	---	---	---	---	8'x8'	8	None
	SVR-LBR	X	X	X	---	8'x8'	---	---	9	None
	CVR	---	---	---	---	---	---	---	---	---
	CVR-LBR	---	---	---	---	---	---	---	---	---

Additional Options w/ Warnock Hersey (Stile & Rail)

Application	Hardware	Rating	Opening Size per Door Thickness		Required Blocking	Fire Latches
		90	1.75" S&R	2.25" S&R		
Standard Swing Active-Active Pairs	SVR (top and bottom)	X	7'x8'	8'x10'	Special Blocking and Auxilliary Fire Latches are not Required	
Standard Swing Active-Inactive Pairs	Rim Exit	X	7'x8'	8'x10'		
	Mortised Exit	X	7'x8'	8'x10'		
	Corner Flush Bolt	X	7'x8'	8'x10'		
Double Egress Swing Active-Active Pairs	SVR (top and bottom)	X	---	8'x10'		

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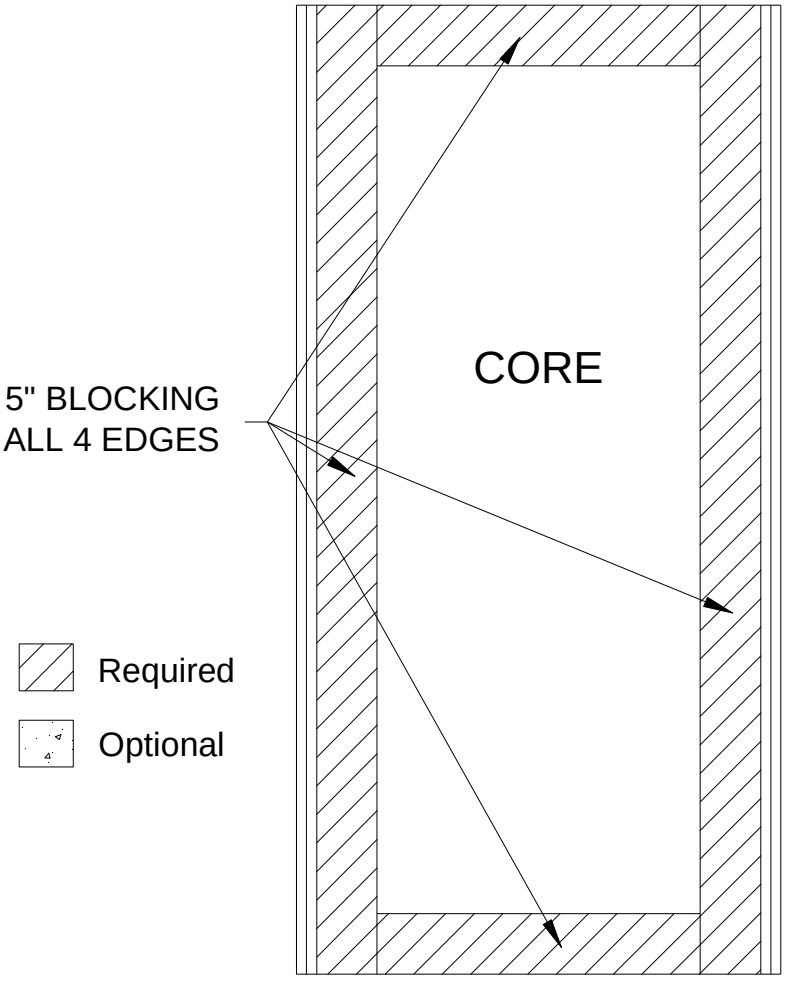
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BLOCKING # 1



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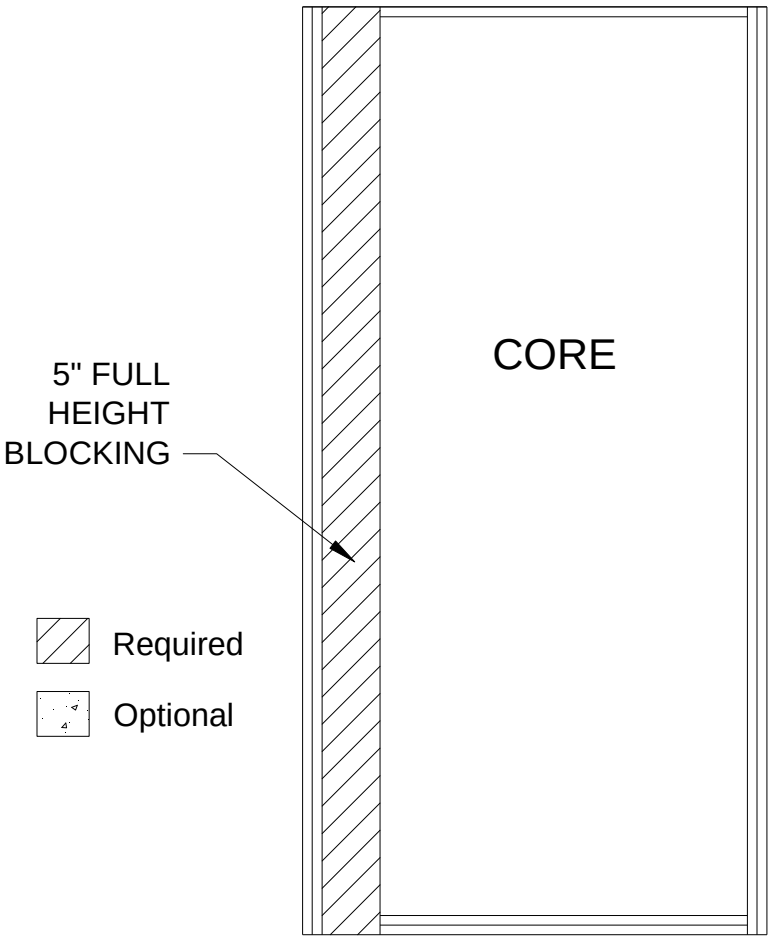
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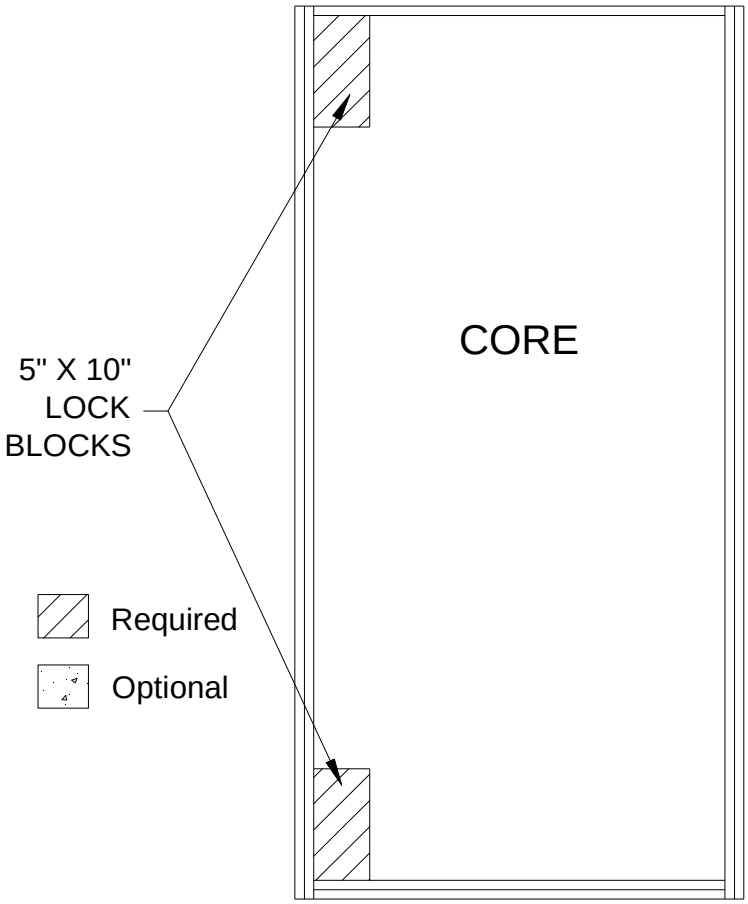
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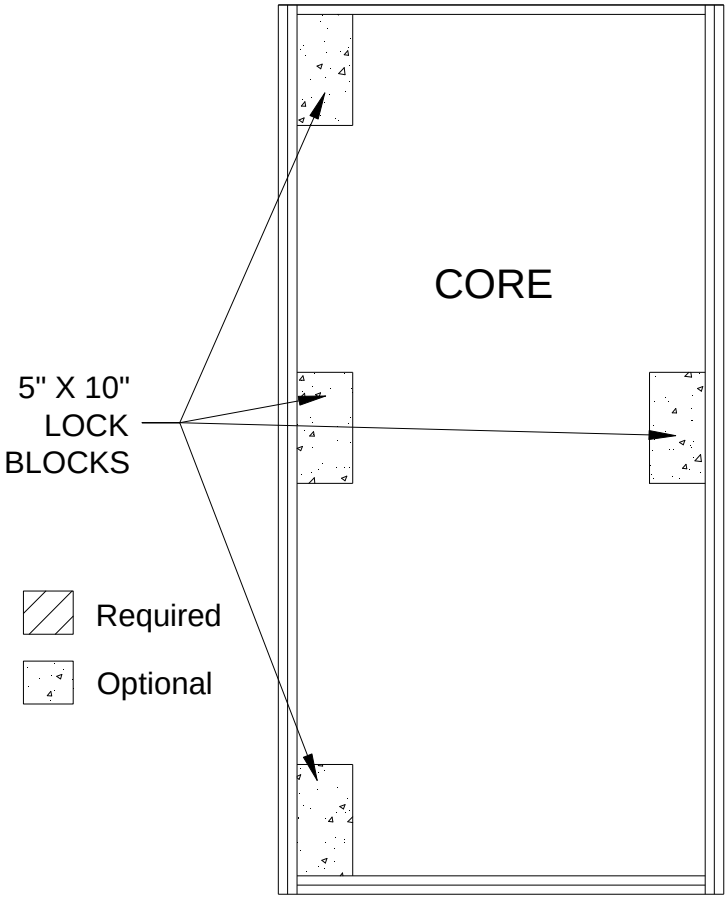
Blocking and Aux Fire Latches for Fire Rated Pairs

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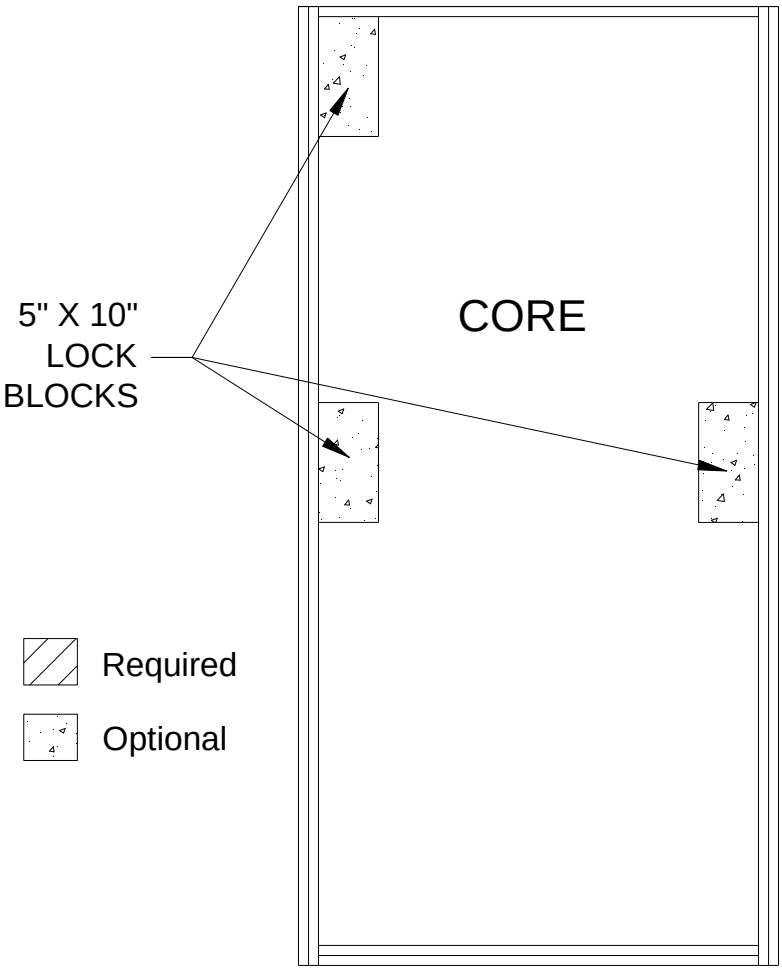
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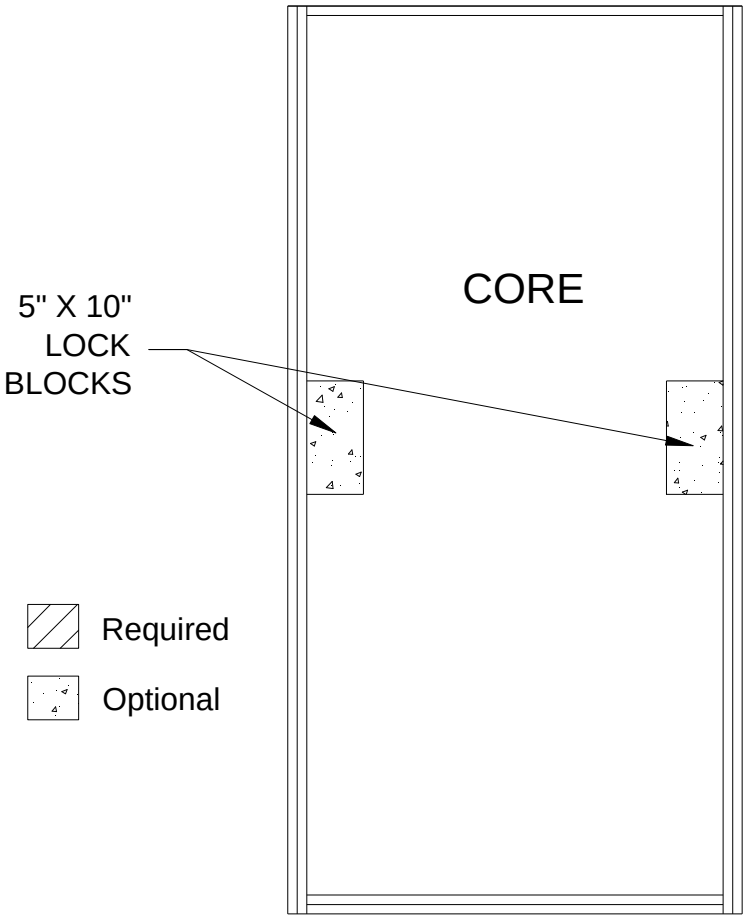
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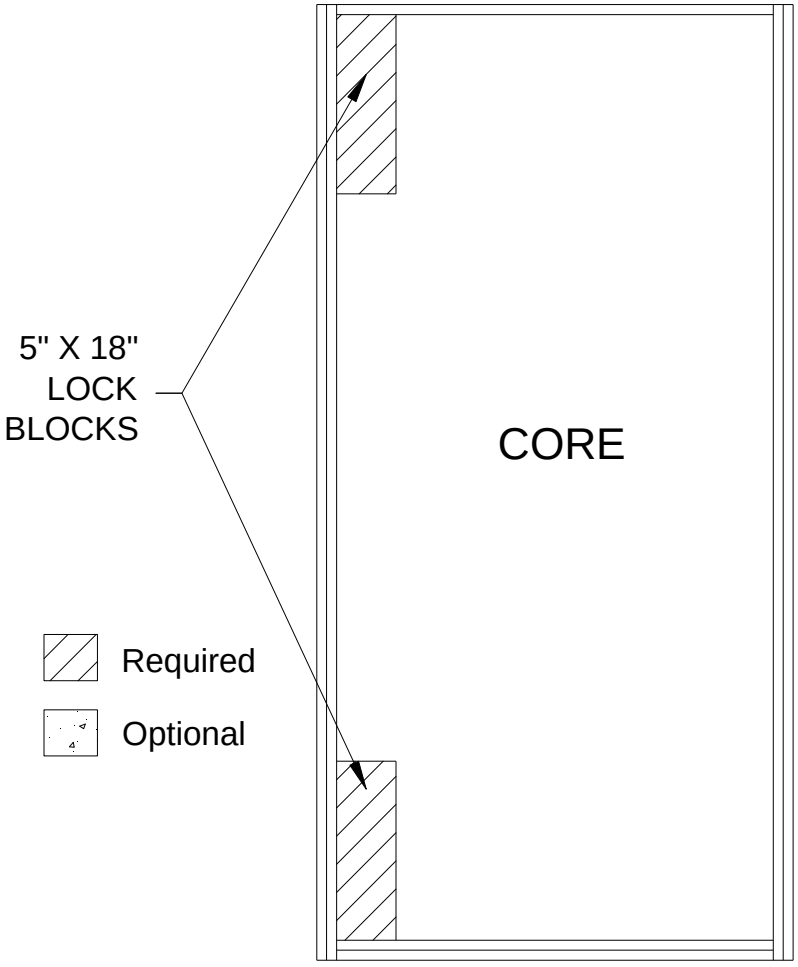
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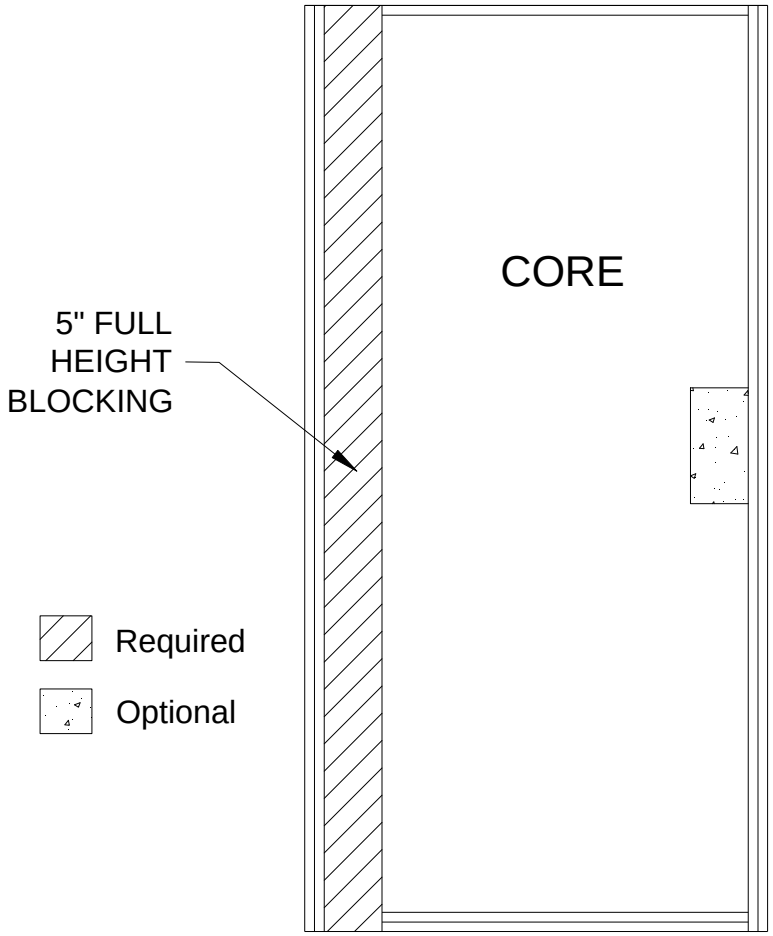
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BLOCKING # 8



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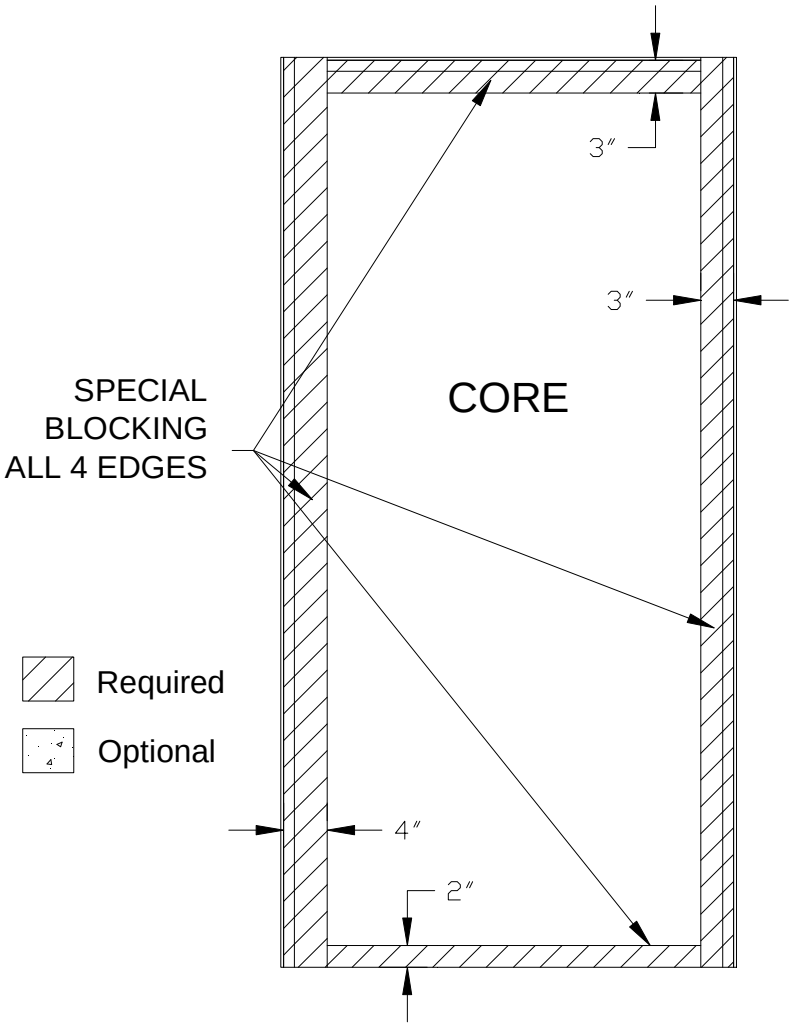
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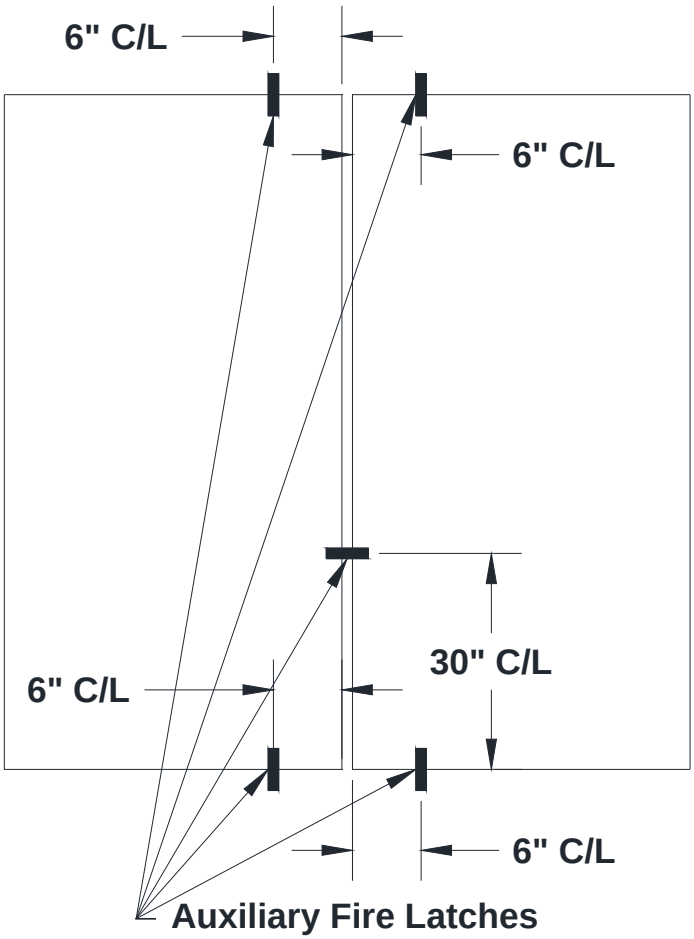
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AUXILIARY FIRE LATCH #1



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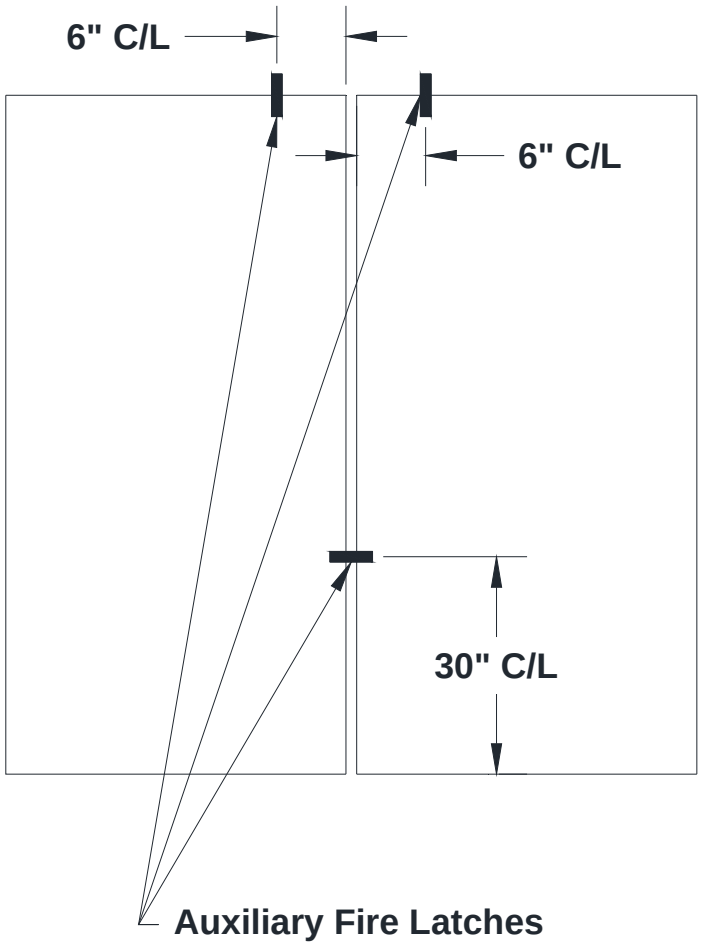
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Blocking and Aux Fire Latches for Fire Rated Pairs
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AUXILIARY FIRE LATCH #2



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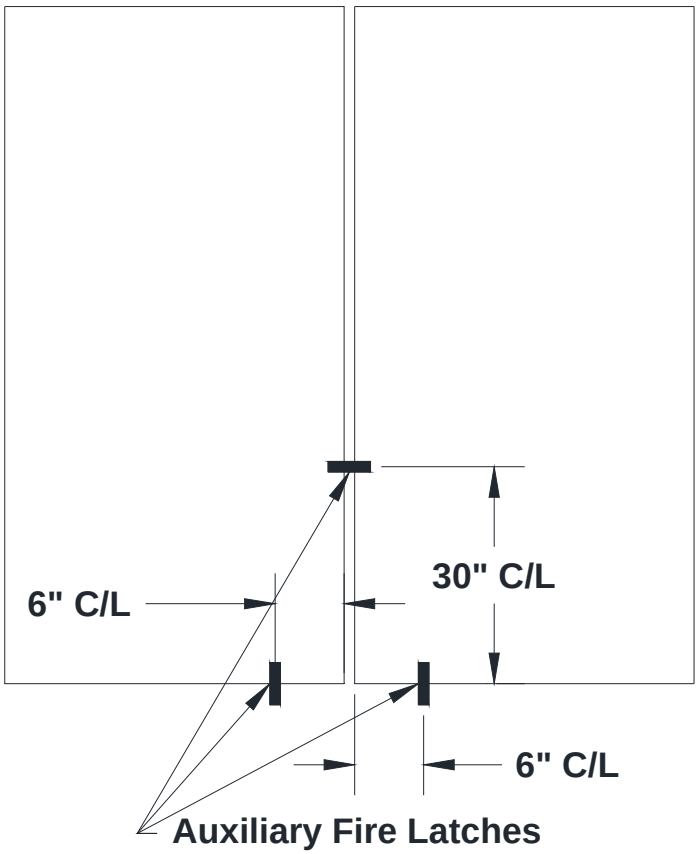
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Blocking and Aux Fire Latches for Fire Rated Pairs
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AUXILIARY FIRE LATCH #3



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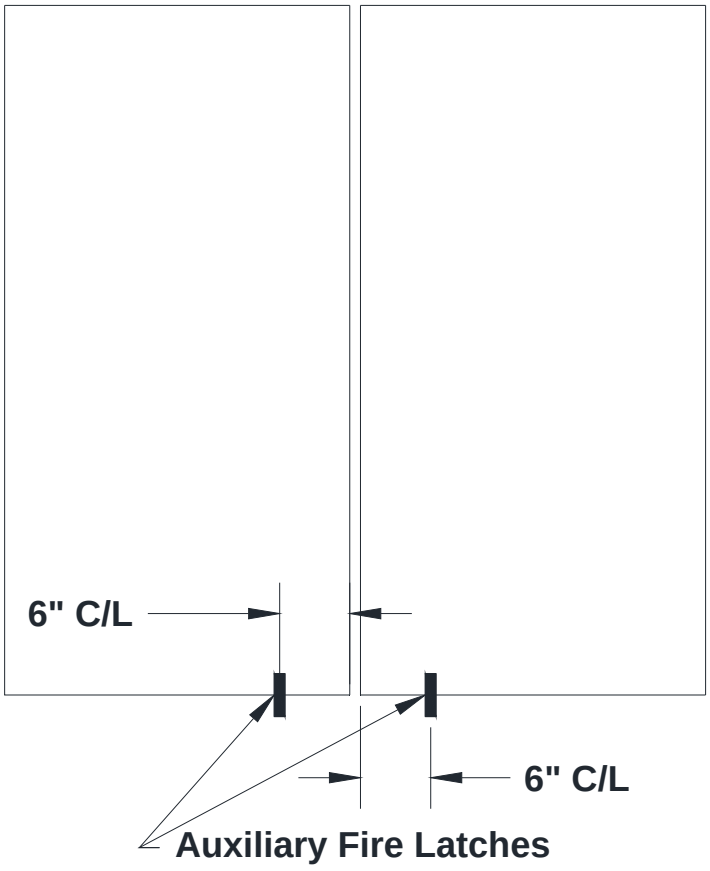
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Blocking and Aux Fire Latches for Fire Rated Pairs
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Date: December, 2015

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AUXILIARY FIRE LATCH #4



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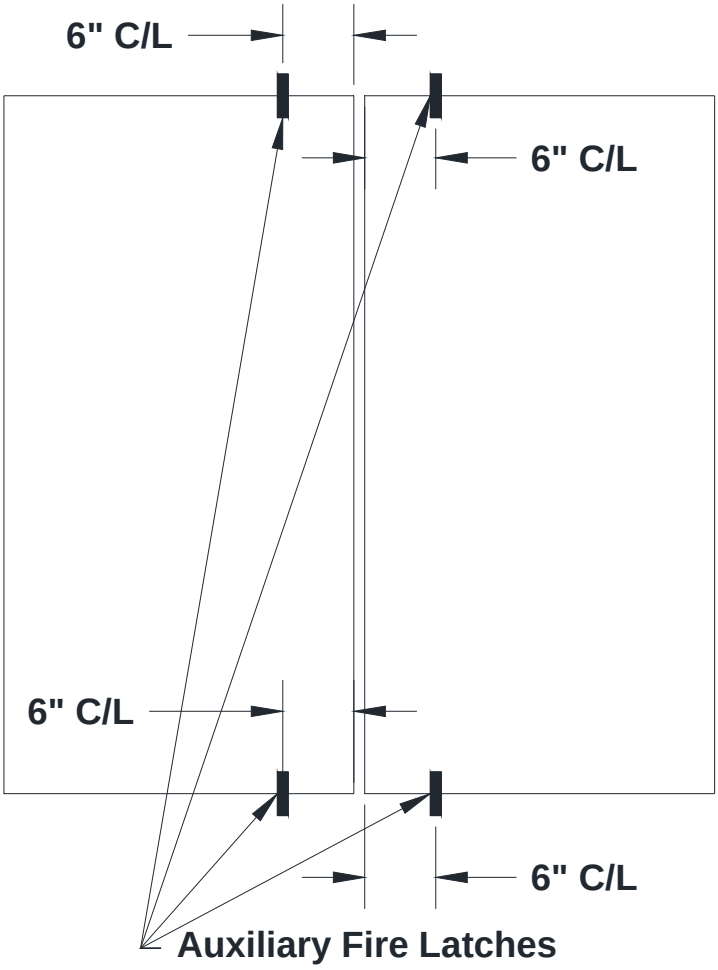
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Blocking and Aux Fire Latches for Fire Rated Pairs
Information Bulletin 322

Date: December, 2015

Eggers Industries

AUXILIARY FIRE LATCH #5



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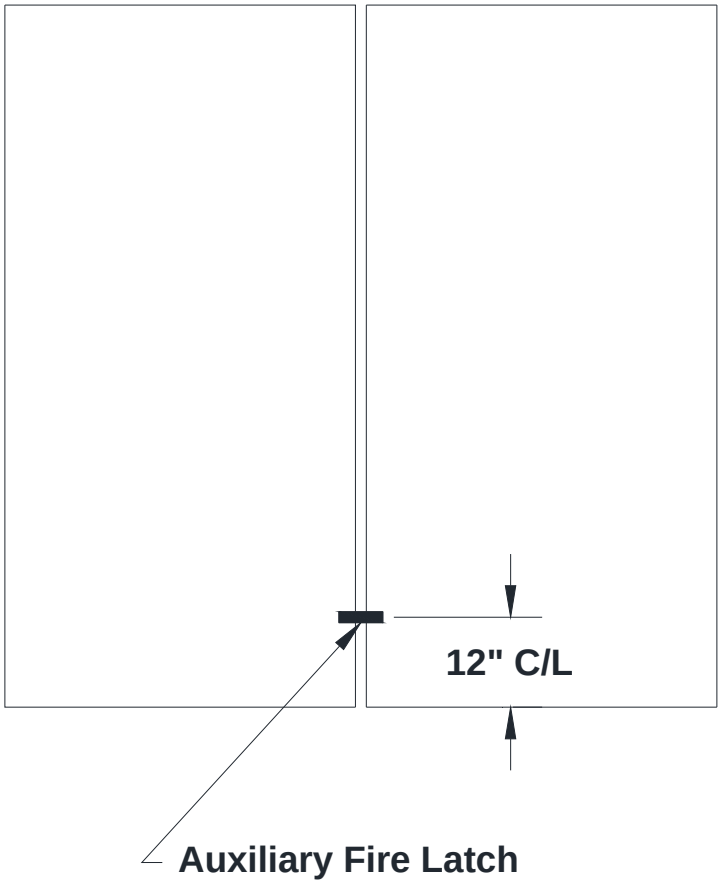
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Blocking and Aux Fire Latches for Fire Rated Pairs
Information Bulletin 322

Date: December, 2015

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AUXILIARY FIRE LATCH #6



Eggers Industries

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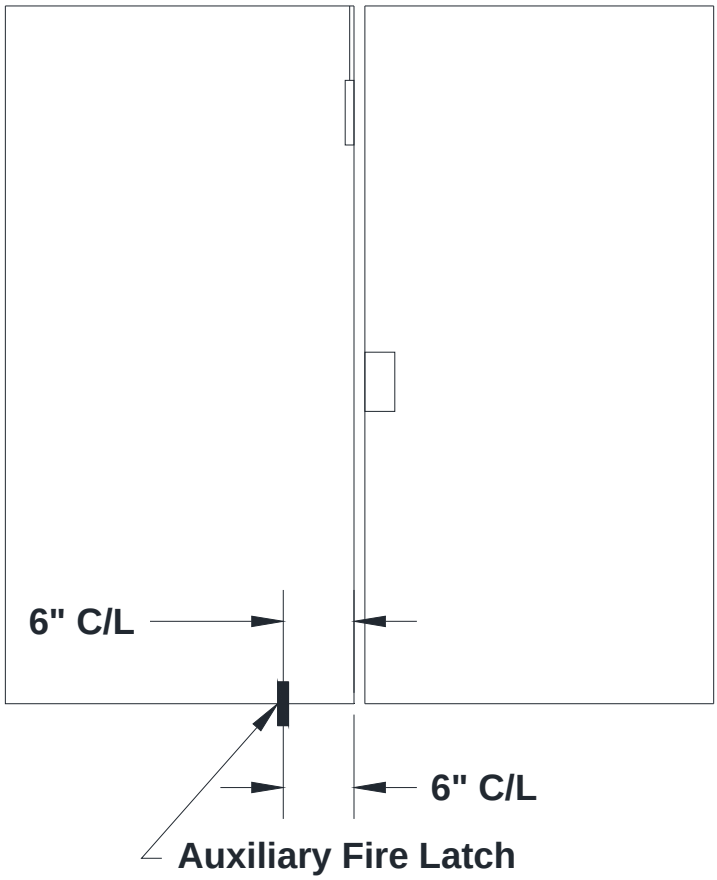
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Blocking and Aux Fire Latches for Fire Rated Pairs
Information Bulletin 322

Date: December, 2015

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AUXILIARY FIRE LATCH #7



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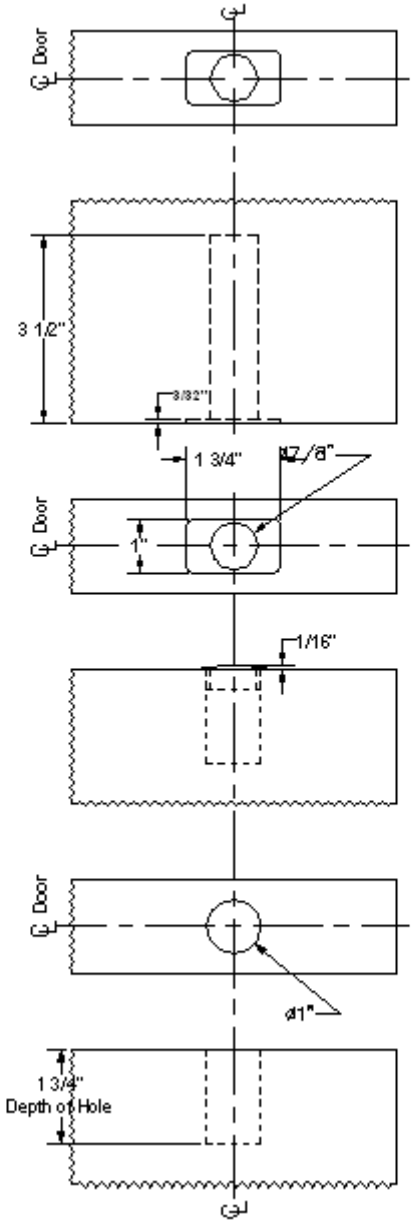
Blocking and Aux Fire Latches for Fire Rated Pairs

Information Bulletin 322

Date: December, 2015

Eggers Industries

AUXILIARY FIRE LATCH
Cutout Dimensions



LATCH

STRIKE

*** LATCH PREP IS IN DOOR. PREP FOR STRIKE IN FRAME OR FLOOR.**

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Concealed Vertical Rods – Special Instructions

Information Bulletin 459

Date: May, 2014

Eggers Industries

Minimum Stile Dimensions for Doors With Lites and Concealed Vertical Rods

1. Non-Rated Full-Lite Doors:
    a. We can manufacture and warranty full lite doors machined for concealed vertical rods and lites. Doors must be constructed of SCL or Stave core and will include 5" (SCL) pre-channeled blocking, full height, on meeting edges.
    b. If the hardware is unknown at time of quoting use a minimum lock stile dimension of is 5-5/8". If hardware and lite location are known the minimum dimensions can be reduced to those shown on the tables below.

2. 20 Minute Full-Lite Doors:
    a. We can manufacture, machine, label and warranty full lite doors (SCL or Stave) with concealed vertical rods and lites. 5" (Tectonite) pre-channeled blocking, full height, on meeting edges is required. We will construct these doors using concealed intumescent edge strips regardless of whether the doors are positive pressure or neutral pressure.
    b. If the hardware is unknown at time of quoting use a minimum lock stile dimension of is 5-5/8". If hardware and lite location are known the minimum dimensions can be reduced to those shown on the tables below.

3. 45 Minute Full-Lite Doors:
    a. We can manufacture, machine, label and warranty 45-minute full lite doors with specific concealed vertical rods (Sargent and Adams Rite only) and lites. A 5" (Tectonite) pre-channeled blocking, full height, on meeting edges is required. We will construct these doors using concealed intumescent edge strips regardless of whether the doors are positive pressure or neutral pressure.
    b. If the hardware is unknown at time of quoting use a minimum lock stile dimension of is 7-1/8". If hardware and lite location are known the minimum dimensions can be reduced to those shown on the tables below.

4. Standard (20-Min or Non-Rated) Particle Core Doors:
    a. We can manufacture, machine, label and warranty Particle core doors with concealed vertical rods and lites. 5" pre-channeled blocking, full height, on meeting edges is required. We will construct rated doors using concealed intumescent edge strips regardless of whether the doors are positive pressure or neutral pressure.

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b. If the hardware is unknown at time of quoting use a minimum lock stile dimension of is 7-7/16". If hardware and lite location are known the minimum dimensions can be reduced to those shown on the tables below.

5. 45-90 Minute Standard Mineral Core Doors:
   a. We can manufacture, machine, label and warranty 45-90 minute doors with concealed vertical rods and lites. 5" (Tectonite) pre-channeled blocking, full height, on meeting edges is required. We will construct these doors using concealed intumescent edge strips regardless of whether the doors are positive pressure or neutral pressure.
   b. If the hardware is unknown at time of quoting use a minimum lock stile dimension of is 9-5/8". If hardware and lite location are known the minimum dimensions can be reduced to those shown on the tables below.

6. Non-rated and 20-min Acoustic Doors:
   a. We have not conducted acoustic tests with the CVR hardware, however where an acoustic construction is required we can manufacture and warranty Sound Group 3 (SG3) doors machined for concealed vertical rods and lites. Doors will include 5" (SCL) pre-channeled blocking, full height, on meeting edges.
   b. If the hardware is unknown at time of quoting use a minimum lock stile dimension of is 9-1/8"". If hardware and lite location are known the minimum dimensions can be reduced to those shown on the tables below.

Minimum stile based on mortise pocket	SCL & Stave	45-Min Full Lite	Particle Core	45-90 Minute Mineral	SG3 Acoustic
Von Duprin	5-1/8"	Not Available	6-15/16"	9-1/8"	8-5/8"
Precision	5"	Not Available	6-13/16"	9"	8-1/2"
Corbin & Yale	No Mortise – See table below				
Dorma F9100	No Mortise – See table below				
Sargent 8600 &	No Mortise – See table below				
Sargent PP/PR	5-5/8"	7-1/8"	7-7/16"	9-5/8"	9-1/8"
Adams Rite 3900	5"	6-1/2"	6-13/16"	8-7/8"	8-3/8"
Falcon 25 series	No Mortise – See table below				

Minimum stile based on CVR channel	SCL & Stave	45-Min Full Lite	Particle Core	45-90 Minute Mineral	SG3 Acoustic

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Concealed Vertical Rods – Special Instructions

Information Bulletin 459

Date: May, 2014

Eggers Industries

Von Duprin	5”	Not Available	5-5/16”	7-1/2”	7”
Precision	5”	Not Available	5-5/16”	7-1/2”	7”
Corbin & Yale	5”	Not Available	5-7/8”	8-1/16”	7-9/16”
Sargent 860	5”	6-1/4”	6-9/16”	8-3/4”	8:1/4”
Sargent PP/PR	5”	6-1/4”	6-9/16”	8-3/4”	8”1/4”
Dorma F9100	5”	6-1/2”	6-13/16”	9”	8-1/2”
Adams Rite 3900	5”	6-1/8”	6-7/16”	8-5/8”	8-1/8”
Falcon 25 series	5”	6-1/4”	6-9/16”	8-3/4”	8-1/4”

Acoustical Doors with CVR’s

The use of CVR hardware will void the STC rating regardless of core type.

The only acoustic core door that will be constructed with and be machined for CVR hardware is the 6.5 pound per square foot design (SG3). The special construction of all other designs will not work with CVR stiles.

SG3 doors constructed with fire rated CVR stiles can be labeled for 20-minute applications.

Only top rod only CVR’s are permitted if the door will be machined for a door bottom.

Concealed Vertical Rods with Delayed Entry Switches

Von Duprin

Von Duprin CVRs with a CX prefix designate a delayed opening function. When the push pad is depressed, the door will not unlatch for 15 seconds. If the person continues to push on the door the latches may breakout.

Inform customers that these CVRs are not meant for wood doors.
(This restriction does not apply to surface vertical rods, mortised exit or rim exit devices having the CX prefix)

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Yale
Yale also has a delayed opening device. It is called Secure X. This device can not be used with CVRs.

Top Caps for Concealed Vertical Rods

A 20 gauge Stainless Steel top cap will be required on all doors (1-3/4" & 2-1/4") machined for Von Duprin 33, 55, and 99 series top rod only concealed vertical rod hardware, rated and non-rated.

- The cap will have to be installed for the warranty to apply.
- Caps should be used on fire-rated as well as non-fire-rated doors, and Stile & Rail as well as Flush doors.
- In the Friedman system the cap is pulled into the order as an accessory, with the cost already built into the machining price for the door. Caps will ship loose in a bag, and will not be shipped on the doors
- Caps are friction fit on the door and can be pinched in to tighten the fit. Additionally, they can be permanently held in place using a 2-part epoxy.
- Caps may be installed on bottom latches of full rod CVR hardware, but would have to be permanently attached with epoxy.
- The caps are furnished in stainless steel only. They can be field painted.
- The cap designs are shown on the following page.

Special Concealed Vertical Rod Hardware

Von Duprin InPact hardware: This hardware uses a pushbar design that is recessed into the core of the door so that when depressed it is essentially flush with the face of the door. The machining for this hardware is almost the full core thickness and is not available on rated or non-rated doors of any core type.

Concealed Vertical Cable Hardware

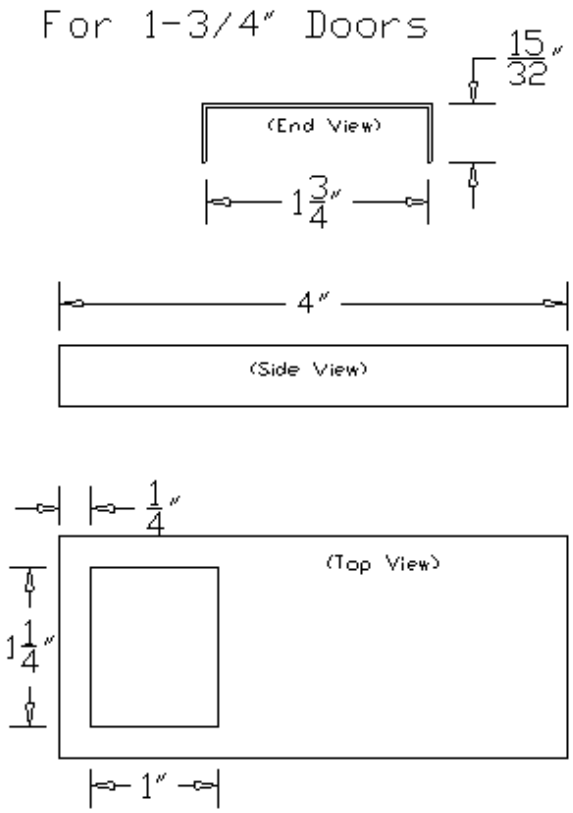
Von Duprin 9949 and 9849 series: This design uses a cable in lieu of a rod, but requires a larger latch case mortise and a bored access hole. Eggers is able to provide this hardware in pairs rated through 90-minutes when furnished with pre-channeled non-combustible blocking and an All Metal Stamping 251A metal edge.

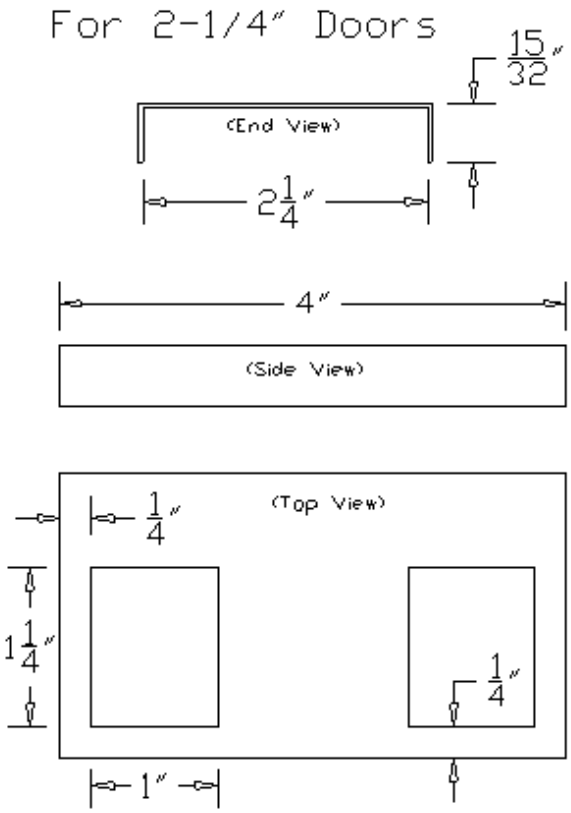
Concealed Vertical Rods – Special Instructions

Information Bulletin 459

Date: May, 2014

Eggers Industries





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Concealed Vertical Rods – Special Instructions

Information Bulletin 459

Date: May, 2014

Eggers Industries

5” Metal Edge Requirements for Concealed Vertical Rods

Eggers has approval to provide most models of CVR hardware on fire rated doors (20-90 min) without the typical 5” metal edges. Where the hardware template requires excessive removal of face or blocking material, such as the Falcon F-25 series, metal edges will still be required.

Concealed Vertical Rods with 5” Channels

When using a 5” full height metal edge on doors with CVR’s the system will deduct 1/32” from prefit door width and the backset.

On the All Metal Stamping machining sheets there is a box for Latch Brackets, check “No” or “None”, also check “No” if the sheet ask for Cover Plate Tabs. You will need to provide device and trim templates with machining sheets to All Metal Stamping.

If the doors are Positive Pressure category “A or B” they will require an additional intumescent edge seal field applied to the outside meeting edge of the 5” channel. This essentially makes all pairs with a 5” edge into category B even if they were constructed with intumescent edges. Less Bottom Rod (LBR) devices will require additional machining for the Auxiliary Fire Latches 30” up (or 28” in cases of trim conflict) from the bottom of the channel on all 45 thru 90-minute doors.

The machining sheets for the 5” channel can be found at
www.allmetalstamping.com/2010/AMS5inchChannels410.pdf

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Concealed Closer/Stops

Information Bulletin 383

Date: August, 2013

Eggers Industries

Eggers has approval to machine for listed and approved concealed overhead closer and/or stops and mortised floor closers in doors rated 20 through 90-minutes. Concealed holders are not allowed in label doors unless they include an automatic release function if a fire is detected. The specific approvals include:

- Track in Door: UL (20 through 90-minute labeled doors) the cutout dimension can not exceed 1-1/2” in depth, 1-7/16” in width or 24-5/8” in length.

- Track in Door: WHI (20-minute labeled doors only) the cutout dimension can not exceed 1-3/8” in depth, 1-9/32” in width or 23-1/4” in length.

- Body in Door: (UL 20-minute doors only) an un-shielded cutout up to 2-9/32” in depth, 1-3/8” in width or 11-1/4” in length is allowed; with a fire shield and intumescent the cutout dimensions may be up to 3-1/2” in depth, 1-7/16” in width and 23-3/4” in length

Due to the large cutouts required for this hardware, a frame applied intumescent will be required above the cutout. This by definition makes the opening Category B from a code perspective. Where the door is constructed (as Category A) with intumescent stiles and rail, the only additional, field-applied intumescent required will be over the hardware cutout. Where constructed as a Category B, frame applied intumescent is required on both the jambs and header. Mortised floor closers can be done as Category “A” openings (without any field-applied intumescent).The same rules apply for 20 through 90 minute applications.

Tank rails are constructed with extra face reinforcement for use on non-labeled and UL 20-minute doors to help prevent telegraphing of the hardware cavity. Tank rails are required when:

1. The closer body is in the door or
2. The width of the hardware being machined for is greater than 1 5/16”.
3. A metal shim is required in UL 20-minute doors

Eggers will not warranty machining cavities over 1-3/8” in width on a 1-3/4” thick door.

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Continuous Hinge Applications

Information Bulletin 421

Date: April, 2015

Eggers Industries

Continuous hinges require special prefitting. The issue is complicated by the following three things:

1) Different continuous hinges require different clearance dimensions for the hinges themselves.
2) Some hinge manufacturers recommend 3/16” meeting edge clearance for pairs. Both WDMA I.S.1A and NFPA-80 list the meeting edge clearance for pairs of wood doors as 1/8”.
3) Some of the prefit dimensions shown on the hinge manufacturer’s literature include an “extra” prefit dimension for anticipated frame variation.

The dimensions below are based on the hinge requirement, 1/8” meeting edge clearances, and a 1/32” per leaf allowance for frame irregularities.

Hinge Model	Fire Labeled	Hinge Edge	Single Swing	Standard Swing Pair	DE Pair
ABH A110HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
ABH A240HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
ABH A240LL	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
ABH A500	Up to 90-min	Square	13/32”	11/32"	9/32"
		Beveled	13/32"	11/32"	9/32"
Hagar (Roton) 780-041 HD - Swing Clear	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	N/A	N/A	N/A
Hagar (Roton) 780-111 HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Hagar (Roton) 780-112 HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Hagar (Roton) 780-224 HD and IVES 224HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”

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Hinge Model	Fire Labeled	Hinge Edge	Single Swing	Standard Swing Pair	DE Pair
Hagar 790-900	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	13/32”	11/32”	9/32”
Hagar 790-905	Up to 90-min	Square	7/16”	3/8”	5/16”
		Beveled	N/A	N/A	N/A
Hagar 790-911 - Swing Clear	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	N/A	N/A	N/A
Hagar 790-915	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	N/A	N/A	N/A
Ives 112HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Ives 600/700	Up to 90-min	Square	13/32"	11/32"	9/32"
		Beveled	7/16”	3/8”	5/16”
Ives 705 Without Adjustable Studs	Up to 90-min	Square	17/32"	15/32"	13/32"
		Beveled	9/16"	1/2"	7/16"
Ives 705 Using Adjustable Studs	Up to 90-min	Square	21/32"	19/32"	17/32"
		Beveled	11/16"	5/8"	9/16"
Markar HG305	Up to 90-min	Square	17/32”	15/32”	13/32”
		Beveled	17/32”	15/32”	13/32”
Markar HG315	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
Markar HG326 – Swing Clear	Up to 90-min	Square	17/32”	15/32”	13/32”
		Beveled	17/32”	15/32”	13/32”
Markar HS-103	Non-Label	Square	11/32”	9/32”	7/32”
		Beveled	11/32”	9/32”	7/32”
Markar FM100	Non-Label	Square	17/32”	15/32”	13/32”
		Beveled	17/32”	15/32”	13/32”

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Continuous Hinge Applications

Information Bulletin 421

Date: April, 2015

Eggers Industries

Hinge Model	Fire Labeled	Hinge Edge	Single Swing	Standard Swing Pair	DE Pair
Markar FM200	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
Markar FM300	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
Markar FM-3500	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	15/32”	13/32”	11/32”
McKinney 12HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	17/32”	15/32”	13/32”
McKinney 14HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	17/32”	15/32”	13/32”
McKinney 25HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2”	7/16”	3/8”
McKinney FM300	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
McKinney HG315	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
PBB CG31	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
PBB CH31	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
PBB CH51	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	7/16"	3/8"	5/16"
Pemko CFM 83HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	15/32”	13/32”	11/32”
Pemko SPBFM	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	7/16”	3/8”	5/16"

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Continuous Hinge Applications

Information Bulletin 421

Date: April, 2015

Eggers Industries

Hinge Model	Fire Labeled	Hinge Edge	Single Swing	Standard Swing Pair	DE Pair
Pemko WTFM83	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	17/32”	15/32”	13/32”
Select SL-11 HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Select SL14	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Select SL-18 HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Select SL-24 HD	Up to 90-min	Square	15/32””	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Select SL300	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	15/32”	13/32”	11/32”
Select SL305	Up to 90-min	Square	17/32”	15/32”	13/32”
		Beveled	N/A	N/A	N/A
Stanley 661 & 661HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Stanley 641 & 651	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	27/64"	23/64"	19/64"
Stanley 643 & 653	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
Stanley 646 & 656 Swing Clear	Up to 90-min	Square	5/16"	1/4"	3/16"
		Beveled	N/A	N/A	N/A
Stanley 662 & 662HD	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	1/2"	7/16”	3/8”

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Continuous Hinge Applications

Information Bulletin 421

Date: April, 2015

Eggers Industries

When determining prefit door dimensions for continuous hinge clearances the following wording should be part of the customer acknowledgement, “Prefit sizes for doors with continuous hinges are based on hinge requirement, 1/8” latch or meeting edge clearances and 1/32” per leaf allowance for frame irregularity. Please advise if you wish to request a different prefit clearance”.

Note: If the continuous hinge you are using is not included in this table please either verify that the hinge manufacturer’s dimensions apply to wood/composite doors, or bring it to the technical department to verify and add to the above table.

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Doors used for Smoke Control

Information Bulletin 462

Date: March, 2013

Eggers Industries

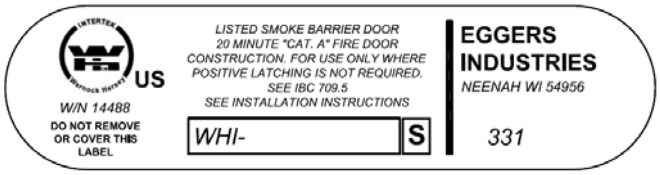
Smoke Barriers and Smoke Partitions are terms used in the building codes to define two different applications.

Typically doors in smoke barriers are rated doors however there is an exception for a specific non-latching cross-corridor double–egress application. When we used the term smoke barrier door or smoke barrier label we are referring to this exception.

Smoke partitions are non-rated and the doors protecting their openings are non-rated. They are however required to be self-closing and gasketed to meet air leakage requirements.

The table below compares the door allowed for the smoke barrier exception and smoke partition doors.

	Smoke Barrier Door	Smoke Partition Door
Intended Use	Double egress pairs installed across a rated egress corridor, healthcare	Non-rated partitions where smoke control is required
Closing	Requires self-closing hardware	Requires self-closing hardware
Latching	Push-Pull hardware allowed in lieu of self-latching hardware	Typically requires self-latching hardware, but it does not have to be machined under label inspection
Construction	20-minute constructed – leaf sizes, glazing, construction, clearances all per fire door approvals	Non-rated construction and glazing; restriction based on warranty not approvals
Labeling	Warnock Hersey has a special label for this (see sample below); not available with a UL label	Non-Agency Eggers label (see sample below)





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Doors with Top & Bottom Pivot Only
Warranty Information

Eggers Industries

No. 425-08-10

Eggers' warranty now covers non-rated doors, 1-3/4" through 2-1/4" thick hung on top and bottom pivots only. This coverage includes Stile & Rail doors as well as flush doors constructed using Particleboard, SCL, Stave Lumber or Agrifiber core. It also includes lead doors constructed with these core types. In addition to regular offset pivot applications, this coverage will now allow center hung doors to carry our full warranty.

This coverage includes applications where a top pivot is used in combination with a floor closer (where the floor closer includes a pivot arm). It is the responsibility of the door specifier to insure the selected hardware is appropriate for the door weight and application, and that both pivots have the same offset. This warranty coverage does not apply for doors that also include molding or appliqués to one face only or have different species or finish on the faces.

This warranty coverage applies to:

Door Type	Maximum Width	Maximum Height
Flush Particle, Agrifiber, and Stave Core	4'	8'
Flush Structural Composite Core	4'	9'
Stile & Rail Doors	4'	8'

Notes:

- This coverage only applies to non-labeled doors. NFPA-80 requires labeled fire doors to have 2 hinges (or pivots) on doors up to 5' tall and an additional hinge (or pivot) for each 30" or fraction thereof.
- Special warranty coverage involving different maximum heights or alternate core types than noted above may apply to OEM accounts or on a job-specific basis.

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Electric Strikes

Information Bulletin 458

Date: March, 2013

Eggers Industries

Eggers has approval with UL to put electric strikes in 20-minute doors. Mineral core doors are only available with a construction tag and will require the use of a non-combustible lock block with the electric strike. The Electric strikes must be listed and approved by UL on both the 20-min and construction tag doors.

Eggers has approval to apply ITS (Warnock Hersey) labels on 45-90 min rated doors having electric strikes, when constructed per the Georgia Pacific (GP) approvals. The Electric strikes are restricted to mortise dimensions of 1-7/16" wide by 3-7/8" high by 2-3/8" deep and must be positive pressure listed and labeled for 45 to 90 minute solid core fire doors.

Because this is a GP listing none of our “Eggers specific” constructions and approvals such veneer-wrapped lite beads, 45-min full lites, CVR hardware w/o metal edges, and others cannot be used with this application. Until configuration can be added to define the available combinations please contact the technical department to discuss requested option combinations.

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Flush Bolts

Information Bulletin 399

Date: August, 2013

Eggers Industries

Eggers has approval to prep listed and approved extension flushbolts, corner mounted flushbolts and surface applied flushbolts in doors rated 20 through 90-minute.

Fire Rated Doors

1.) Extension flushbolts can have up to a maximum of 24" (for UL) and 18" (for WH) extensions on doors 20 through 90-minute in either negative or positive pressure installations. Although the hardware manufacturers listings may say for metal doors Eggers has the approval in our procedures which supersedes the hardware listings. See Information Bulletin 322 for required blocking.

2.) Corner mounted flushbolts having mortised cuts greater than ¾" wide and 1"deep have a tendency to flare open. To maintain warranty if this type of flushbolt is required, Eggers requires the use of one of the following:

   a. Flushbolt end caps from Eggers (additional charge) see attached detail below.
   b. Astragal/edge set

   (Both of these items are approved for 20 through 90 minute fire ratings and Eggers will maintain full warranty on the doors.

Construction Tagged Doors

We have capability to manufacture doors with extension flush bolts up to 36"in length and will provide these on doors having 20-min construction tags. Flush bolts longer than 24" are not available on 45-90 minute doors, even with construction tags.

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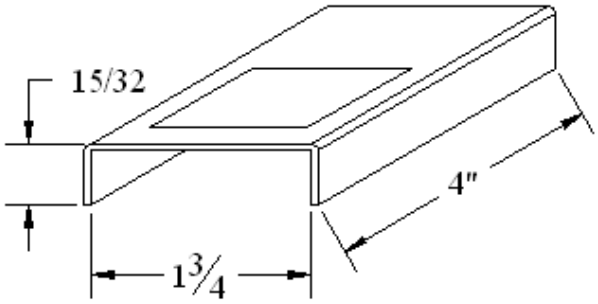
Flush Bolts
Information Bulletin 399

Date: August, 2013

Eggers Industries

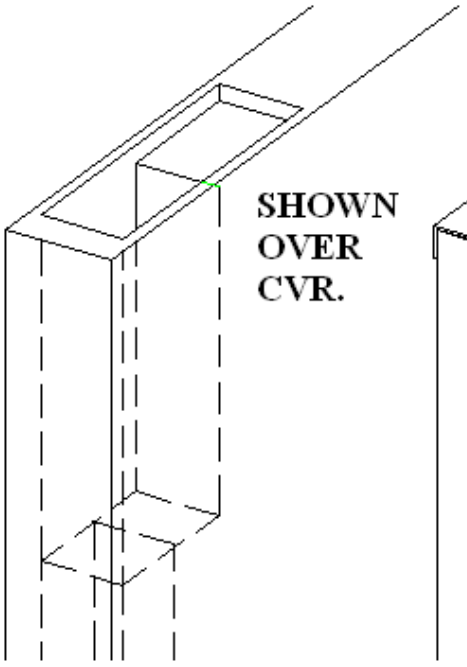
CVR EXIT DEVICE AND CORNER MOUNTED FLUSH BOLT END CAP

FOR USE ON VON DUPRIN'S 33/3547WDC, 5547WDC & 98/9947WDC CONCEALED VERTICAL RODS TO HELP PREVENT DAMAGE WHEN DOORS ARE IN HIGH USE OR ABUSIVE SITUATIONS AND ALL CORNER MORTISED FLUSHBOLTS TO PREVENT FLARING OF REMAINING PORTION OF DOOR.

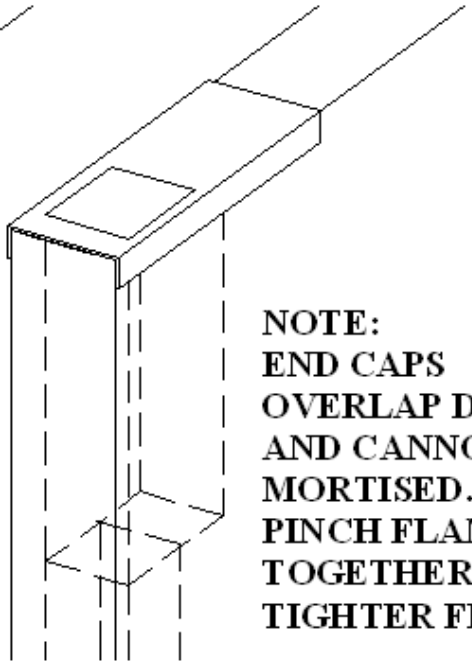


FINISH: US32D STAINLESS STEEL

END CAP FITS OVER TOP RAIL SO BOLT CAN PROTRUDE THROUGH HOLE.



SHOWN OVER CVR.



NOTE:
END CAPS OVERLAP DOOR AND CANNOT BE MORTISED.
PINCH FLANGES TOGETHER FOR TIGHTER FIT.

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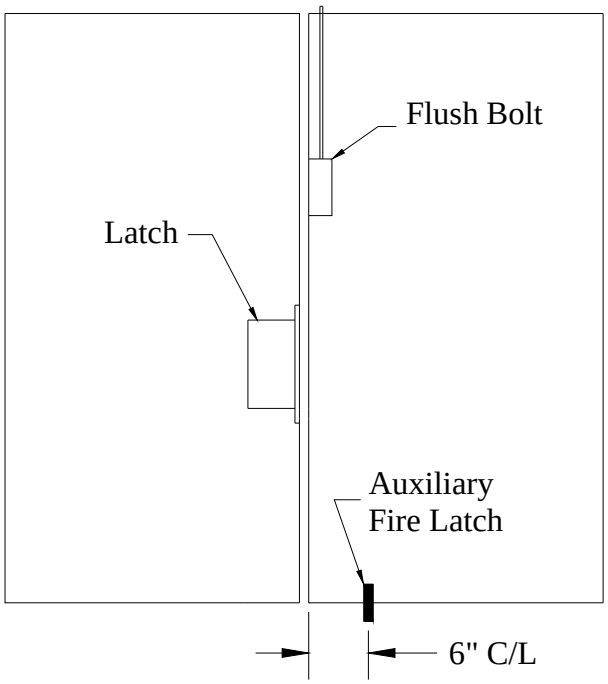
Flush Bolts
Information Bulletin 399

Date: August, 2013

Eggers Industries

Top Flushbolt Only on Mineral Core Pairs

We have approval to manufacture and label doors up to 90 minutes with a top flushbolt only. Most applications rated higher than 20 minutes will require and auxiliary fire latch in place of the bottom flush bolt. Doors need to be blocked as required for the flushbolt hardware being used. Please refer to Information Bulletin 322 for the available options. The auxiliary latch requirements for the use of a top flush bolt only over-ride the fire latch requirement shown in info bulleting 322, which was written for top and bottom flush bolt applications.



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Information Bulletin 399

Date: August, 2013

Eggers Industries

Lead Lined Doors

Lead door applications are available with a 20-minute label from both UL and WH. Lead door applications are available with 45- or 60-min with a UL label. Pairs of lead-lined doors require a lead-lined astragal

eiDoor With Replaceable Edge

Only bored or extension type available in pairs of eiDoors (automatic corner mounted not allowed). These are available on non-rated or 20-min UL applications.

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: October 2017

Eggers Industries

Warnock Hersey and Underwriters Laboratories have clarified the distance from lite cutout to door edge, multiple lites and other hardware cutouts as shown below. Except for 45-min full lite constructions (refer to Information Bulletin 357), the cutout-to-door edge dimensions also apply to bottom rails, however, 10” is the recommended minimum to comply with ADA requirements. These dimensions do not apply to CVR hardware. Refer to info Bulletin 459 for appropriate margins.

Non-Rated		**Edge of Lite Cutout to Edge of Door**	**Edge of Lite Cutout to Edge of Lite Cutout**	**Edge of Lite Cutout to Nearest Point of Lock Cutout**
Particleboard	Non-Rated	5”	5”*	3-5/16”
Stave	Non-Rated	5”	3”	1-1/2”
Structural Composite	Non-Rated	5”	3”	1-1/2”
Agrifiber	Non-Rated	5”	5”	3-5/16”
Acoustical	Non-Rated	5”	5”	5”
Bullet Resistant	Non-Rated	5”	3”	1-1/2”
Foam or Hollow	Non-Rated	5”	5”	5”

***** For applications without operable hardware, such as side panels, this margin may be reduced to 3” without voiding the warranty.

UL		Edge of Lite Cutout to Edge of Door	Edge of Lite Cutout to Edge of Lite Cutout	Edge of Lite Cutout to Nearest Point of Lock Cutout
Particleboard	20-min	5”	5”	3-5/16”
Stave	20-min	5”	3”	1-1/2”

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: October 2017

Eggers Industries

Structural Composite	20-min	5”	3”	1-1/2”
Agrifiber	20-min	5”	5”	3-5/16”
Bullet Resistant	20-min	5”	3”	1-1/2”
Acoustical	All Ratings	5”	5”	5”
Agrifiber	45-min	NA	NA	NA
Particleboard	45-min	NA	NA	NA
Mineral	45-min Full Lite	5-1/2”	5-1/2”	3”
Mineral	45 Through 90-Min	5-1/2”	5-1/2”	3-1/2”

WH		**Edge of Lite Cutout to Edge of Door**	**Edge of Lite Cutout to Edge of Lite Cutout**	**Edge of Lite Cutout to Nearest Point of Lock Cutout**
Particleboard	20-min	5”	5”	5”
Stave	20-min	5”	5”	5”
Structural Composite	20-min	5”	5”	1-1/2”
Agrifiber	20-min	5”	5”	5”
Acoustical	All Ratings	5”	5”	5”
Agrifiber	45-min	6”	6”	6”
Particleboard	45-min	6”	6”	6”
Mineral	45-min Full Lite	5-1/4”	5-1/4”	3”
Mineral	45 Through 90-Min	5-1/4”	5-1/4”	3-1/2”

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: October 2017

Eggers Industries

Notes:

1. Maximum lite dimensions are based on visible lite; the Minimum dimensions shown above are based on cutouts.
2. The distance between the visible lite to visible lite, visible lite to door edge, and visible lite to other hardware cutouts will vary depending upon the lite frame or bead used.
3. This revision changes the specified criteria from distance to visible lite to distance to the lite cutout. The cutout location is the important factor for the approvals. It does not affect the actual minimum dimensions to the visible lite, but changes the way it is determined.
4. The method of calculating lite location is now the same for both agencies.

Lite to edge of door margins: Lite to edge of door margins may be specified in one of two ways:

- Visible lite to door edge- In this case we have to verify the dimension between the cutout and door edge is acceptable by subtracting the bead height from the visible lite to door edge (cutout to edge of door = visible lite margin specified – bead height).

- Minimum margin – In this case the minimum dimension between the visible lite and the door edge is calculated by adding the bead height to the minimum margins in the tables above (visible lite to edge of door = edge of cutout to edge of door + bead height)

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Raceways in Bullet Resistant Doors

Information Bulletin 460

Date: June, 2012

Eggers Industries

Raceways cannot be bored in the bullet resistant core material and must be located between this core and the face of the door. Whether or not a raceway can be included in the construction depends on the size of the raceway, the thickness of the door and the thickness of the bullet resistant material. The chart below indicates when raceways are allowed.

	1-3/4" Door Thickness		2-1/4" Door Thickness	
	1/4" Raceway	3/8" Raceway	1/4" Raceway	3/8" Raceway
Level 1	Yes	Yes	Yes	Yes
Level 2	Yes	Yes	Yes	Yes
Level 3	Yes	Yes	Yes	Yes
Level 4	No	No	No	No
Level 5	No	No	No	No
Level 6	Yes	Yes	Yes	Yes
Level 7	No	No	Yes	No
Level 8	No	No	No	No

Where allowed, raceways will be routered into the assembly prior to face application.

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Top Latching Hardware Limitations

Information Bulletin

No. 433-06-08

Eggers Industries

Top latching hardware, when used on 20-90 minute labeled or stamped doors (UL or WH), is only allowed on pairs. This hardware cannot be used on single swing applications or where the pairs include a mullion between the doors. This includes any hardware that has only one self latching mechanism located at the top of the door. It does not include full rod hardware, rim exits or mortised exit hardware.

Top latching hardware, also referred to as less bottom rod, has only been evaluated for applications where the bottom of both leaves of a pair can move together. A fire test would be required to insure the door movement, during a fire, relative to a fixed frame or mullion would meet the deflection criteria of the fire test method.

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TRANSOMS & SIDE PANELS

Type	Core	Rating	Application	MAX SIZE Width w/ Bar	Width w/o Bar	Height Door	Height Tran	Height Straight Cut with Transom Bar, 2" Minimum	Height Straight Cut without Transom Bar	Height 1/2" Rabbetted Cut without Transom Bar	Spring Bolts	Special Notes
Fire Rated Doors	Mineral Core	90 Min	Single Swing	+/- pressure: 48"	+/- pressure: 42"	Max door size	48"	+/- pressure: 132"	+/- pressure: 120"		Steel springbolts required	B,A
			Std Pairs		Not available				Not Available			C,A
			DE Pair									
		60 Min	Single Swing		+/- pressure: 42"				+/- pressure: 120"			A
			Std Pairs		Not available				Not Available			C,A
			DE Pair									
		45 Min	Single Swing		+/- pressure: 42"				+/- pressure: 120"			
			Std Pairs		Not available				Not Available			C,A
			DE Pair									
	SCL	20 Min	Single Swing	+/- pressure: 96"	+/- pressure: 48"	Max door size	48"	+/- pressure: 168"	+/- pressure: 144"		Steel springbolts required	A
			Std Pairs		96"		36"					A
			DE Pair		Not available		NA		Not available			A
	Particle, Stave, Agrifiber		Single Swing		+/- pressure: 48"		48"		+/- pressure: 144"			A
			Std Pairs		96"		36"					A
			DE Pair		Not available		NA		Not available			A
	Acoustic Cores		Single Swing		+/- pressure category "B" only: 48"		48"		Not available	+/- pressure category "B" only: 144"		D
			Std Pairs		Not available		NA		Not available			
			DE Pair									
	Bullet Resistant		Single Swing		+/- pressure category "B" only: 48"		48"		Not available	+/- pressure category "B" only: 144"		D
			Std Pairs		Not available		NA		Not available			
			DE Pair									
	Lead Lined		Single Swing		+/- pressure: 48"		48"		+/- pressure: 144"			
			Std Pairs		Not available		NA		Not available			D
			DE Pair									
Non-Fire-Rated Doors	SCL	None		48"	48"	Max door size	48"	168"	168"		Not Required	A
	Particle, Stave, Agrifiber											A
	Acoustic Cores											
	Bullet Resistant											
	Lead Lined											
	Hollow Core											

Special Notes:

- **A** All door/transom combination are pressed together unless they are greater than 120" in length or pairs with a full width transom.
- **B** See attached link to "transom drawing"
- **C** Transoms over pairs of doors 45-90-minute need to be separated by 2" transom bar in both width and height. Full width transoms can be provided for use over pairs when a horizonal transom bar only is used based on the frame approval. We can label the doors, but the transom would be provided with a letter or construction tag.
- **D** Can be labelled for both Negative and Positive Pressure category "B" only.
- **E** Bottom rails of transons, rabbetted or flat cut, must be veneered on 20-90 minute. They must be requested as veneered or matching lumber for non-rated.
- **F** Rabbett cut meeting rails are not compatible with CVR hardware.
- **G**

Eggers Industries

Von Duprin 33-, 35- and 55-series CVRs

Information Bulletin 430

Date: April, 2014

Eggers Industries

Eggers is required to machine labeled doors in accordance with the hardware manufacturer's templates. In the case of the Von Duprin 3347, 3547 and 5547 concealed vertical rods the template includes a note relative to construction that states "door edging should be installed after device installation".

When Eggers was given approval to provide labeled doors without the use of 5" metal edges the option to field install a filler strip was removed. Von Duprin confirms the 3347A and 3547A versions can be installed in a pre-channeled edge, but they have not updated their template to reflect this. In addition, the 5547 device, which includes an inspection plate for adjustment, and can be installed in a pre-channeled edge.

Eggers will provide labeled doors machined for the 3347A, 3547A or 5547 if the customer acknowledges the door will only be provided with a pre-channel stile and no 5" metal edge. Our form letter Von Duprin 33, 35 and 55 Series CVRs.doc may be used to communicate this to the customer (see the "Form Letter" folder under Technical Literature on the shared (S) drive)

Note: The 3347 and 3547 (without the "A" suffix) are not available on labeled or construction tagged fire doors.

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Applied Moulding
Information Bulletin 238

Date: May, 2011

Eggers Industries

Note: Per NFPA-80, labeled doors (20-90 min) require the applied moulding to factory applied to maintain the label.

WARNOCK HERSEY – 20-min and 45-90 minute mineral core, not available on plastic-faced doors.
Plant-ons may be applied to either or both faces of the door in accordance with the following:

1. Minimum dimension between plant-on and edge of door or hardware cutout is 4".
2. Species of wood used as plant-on must be of a density equal to or greater than Douglas Fir.
3. Maximum dimension of plant-on must not exceed 3" in width and ¾" in thickness.
4. Multiple plant-ons may be used providing spacing between plant-ons is equal to or greater than plant-on width. Mitered corners excepted.
5. Maximum area of door occupied by plant-ons must not exceed 22% of the door area.
6. Minimum area enclosed by plant-ons must be as follows:
   a) Minimum height enclosed by plant-on shall be equal to or greater than twice plant-on width.
   b) Minimum width enclosed by plant-on shall be equal to or greater than twice plant-on width.

WARNOCK HERSEY – 45-Minute Agrifiber Core
Plant-ons may be applied to either or both faces of the door in accordance with the following:

1. Maximum dimension of plant-on must not exceed 2-1/2" in width
2. Maximum area of door occupied by plant-ons must not exceed 22% of the door area
3. Individual moulding shall be a minimum of 3-1/2" apart
4. Moulding shall be fastened with nails or adhesive

WARNOCK HERSEY – 45-Minute Particle Core
Plant-ons may be applied to either or both faces of the door in accordance with the following:

1. May be of any width or thickness
2. Must be of wood
3. May not interfere with the door operation
4. Must be located at least 1" from the door edge
5. May not overlap any hardware cutout
6. May be attached to one or both faces of the door

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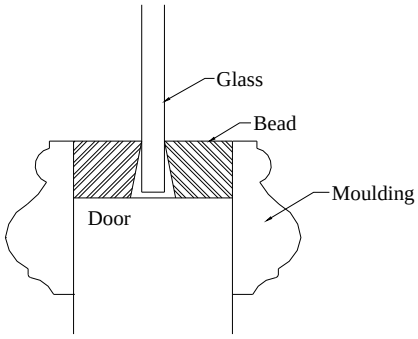
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email: sales@eggersindustries.com

7. May be attached with mechanical fasteners, adhesive, or a combination of both
8. For plastic faced doors adhesive shall be used
9. Must be at least 3-1/2" from light cut-outs

UNDERWRITERS LABORATORIES – 20 through 90 minute, veneer face only:

1. Untreated wood 1 ½" high x 6" wide by varying lengths maximum.
2. Moulding may not extend to between the door slab and the frame stop.
3. Moulding is allowed to overlap lite beads (see drawing below).
   a) Only the following beads can be used when moulding is applied over beads, 100 wood beads in non-rated and 20-minute, 114 wood beads in 45-minute full lite and veneer wrapped beads in 45, 60 & 90-minute label doors.
   b) The moulding cannot be in contact with the glass
   c) As the moulding covers the bead a door like this will be required to be factory glazed.



Applied moulding without nails:
Our standard method for attaching applied moulding is without the use of visible fasteners. Due to our procedures, if the moulding is too small we need to attach the moulding with nails.

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Applied Moulding
Information Bulletin 238

Date: May, 2011

Eggers Industries

The following criteria can be used to alert customers as to when nails will be used.
1. Moulding is under 5/16” in thickness.
2. Moulding is narrower than 1/2”.
3. The door is over 4’ wide or 10’ tall.

Wide applied moulding:
Due to machine limitations and the nature of wood we will not guarantee the following on applied moulding over 3” in width:
1. Tight miter joints
2. The moulding laying flat on the door.

Warranties on doors (all core types) with applied moulding one-side:
Eggers will warranty doors with applied moulding one-side if the following criteria is met:
1. Moulding is not over 1 ¾” wide.
2. Moulding is not over 3/4” high.
3. There is not over 24 lineal feet of moulding.

Glass and Moulding on doors with lip bead:
When we receive a request from a customer for a door that has lites and moulding that they want the glass and the moulding to line up and the bead being used is a lip bead, we need to ask the customer what needs to be lined up, i.e. outside of moulding and outside of bead or visible lite and inside of moulding.

Note: To avoid splitting the minimum thickness on tapered moulding is ¼”

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Beads Supplied for Field-Glazed Doors

Information Bulletin #461

Date: September, 2012

Eggers Industries

When Eggers provides beads (glazing stops) for doors that will be field glazed the beads on both sides of the lite opening will be dry-fit or loose–nailed into the opening. The filed glazer will be responsible to position and permanently secure all beads in the opening.

This policy applies to both non-rated and, where allowed, rated doors.

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Common Glass Types Used In Architectural Doors

Information Bulletin 262

Date: June, 2013

Eggers Industries

FIRE & SAFETY RATED GLASS

Wired Glass:

1. Eggers will only glaze with safety rated version of wired glass such as Superlite I-W. Doors can be glazed with non-safety rated glass by others where the building code allows its use.
2. Standard Thickness of Superlite I-W is nominally 1/4" (actual thickness is approximately .300").
3. Patterns available: Diamond, Square (Baroque).

Ceramic Glazing: (see info bulletin 352)

Superlite:

1. Superlite I, 1/4" glass for 20 minute only, can be etched prior to tempering.

Pyroedge Safety and Fire Rated:

1. 1/4" tempered for 20 minute only.
2. Glass can be etched, sandblasted, made obscure, or beveled *.
3. Glass can be radius – convex only not concave.
4. Requires special intumescent bead with 1/2" stop height

Pyroswiss 20 Safety and Fire Rated:

1. 1/4" tempered for 20 minute only.
2. Glass can be etched, sandblasted, made obscure, or beveled *.
3. Glass can be radius – convex only not concave.
4. Can be glazed with standard, non-intumescent wood beads with 5/8" stop height

SAFETY GLASS

Tempered Glass (Heat Treated):

1. Standard thickness 1/8", 3/16", 1/4".
2. 1/4" thick is most common, all thicknesses cost the same per square foot.
3. Meets safety glazing codes.
4. Cannot be cut after being heat treated.
5. When it breaks, explodes into very small non-jagged pieces.

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Information Bulletin 262

Date: June, 2013

Eggers Industries

Laminated Glass (2 pieces of 1/8" non-tempered glass laminated on either side of a plastic sheet):

1. Standard thickness 1/4".
2. Meets safety glazing codes.
3. When it breaks, it breaks in a spider web pattern with the plastic sheet holding the broken pieces together.

Bullet Resistant Glass:

1. Made of acrylic, polycarbonates, laminated safety glass combinations of these.
2. Thicknesses: the thickness varies between and within levels based on the other properties required such as fire rating or forced entry rating. Thickness and vision frame requirements will be determined as specified.
3. Meets safety glazing codes.

X-RAY GLASS

Leaded (standard):

1. Thickness:1/4" to 5/16" (This is equivalent to 1/16" lead shielding).
2. Does not meet fire or impact resistance requirements.
3. The new building codes do not allow non-safety rated glazing in doors, and Eggers will not install this glazing.

Leaded (safety rated):

1. Thickness: 9/16" (This is equivalent to 1/16" lead shielding).
2. Meet the impact resistance requirements.
3. This glass is not fire-rated by itself, but it can be used in labeled doors when installed in a dual glazed frame with fire rated glazing.
4. Cannot be glazed with wood beads.

*This allows the glazing to be made obscure glass or to add logo or other design. The tempered products, including Pyroswiss, Pyroedge, Fireglass 20 and Superlite 1, must be sandblasted before tempering. Orders will be priced out on a per job basis. Designs will require an approved drawing.

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Common Glass Types Used In Architectural Doors

Information Bulletin 262

Date: June, 2013

Eggers Industries

ACOUSTICAL GLASS

Standard Sealed Unit – from price list:

1. For non-fire rated doors
2. For 1 3/8" doors – 3/8" spacer – ¾" thick
3. For 1 3/4" doors – 3/4" spacer – 1 1/8" thick
4. For 2 1/4" doors – 3/4" spacer – 1 1/8" thick
5. Maximum size for STC guarantee is 370 sq. inches, except for STC 36 up to 1296 square inches.

Double Glazed Metal Vision Panel:

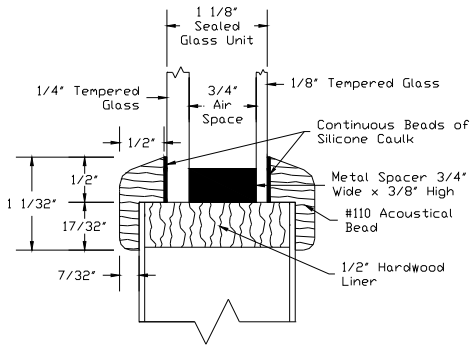
1. For 20-minute doors.
2. Maximum size 370 square inches for STC guarantee.
3. Maximum 1296 square inches for fire label.

Sealed Unit Metal Vision Panel:

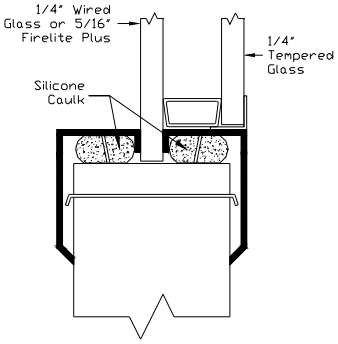
1. For 20 -minute doors.
2. Maximum size 370 square inches for STC guarantee.
3. Maximum 1296 square inches for fire label.
4. Aesthetically better looking than double glazed unit, but much more expensive.

Firelite Plus and tempered glass in a sealed unit and Anemostat Lo-Pro metal vision panel

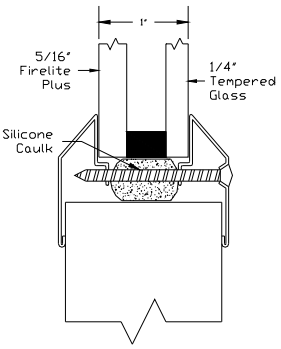
110 Wood Bead shown with Sealed Glass Unit



115 Dual Glazed Metal Vision Frame



Metal Vision Frame shown with Insulated Glass Unit



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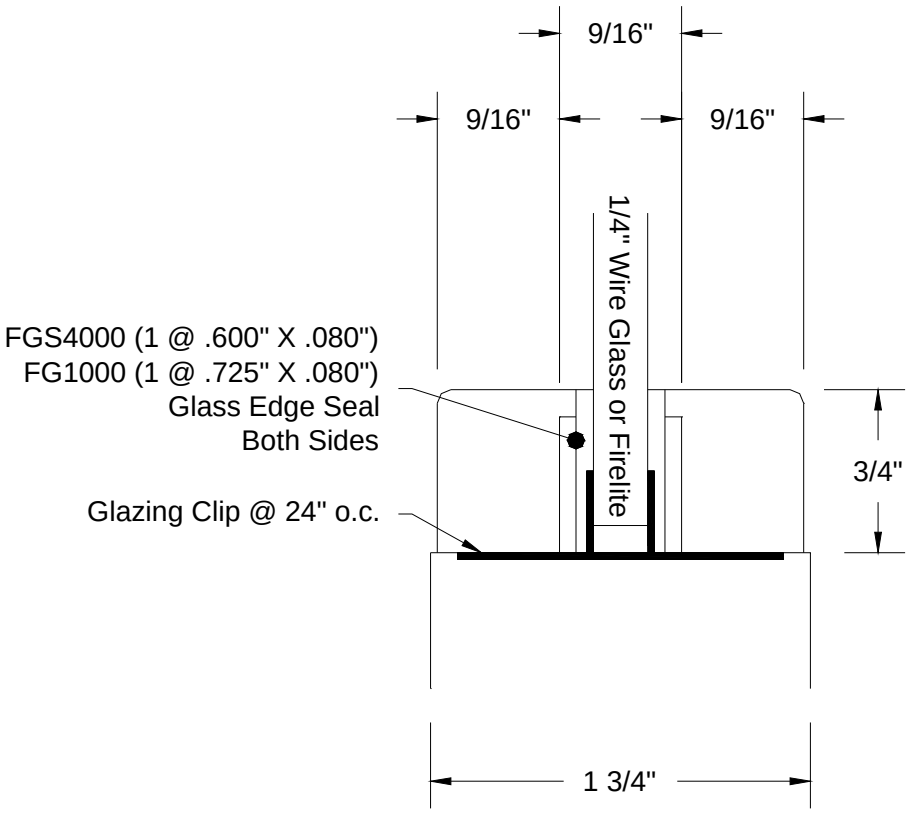
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Common Glass Types Used In Architectural Doors
Information Bulletin 262

Date: June, 2013

Eggers Industries

45-MINUTE FULL LITE DOORS
STOP DETAIL - #114



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Core Options for 1-3/8" Doors

Information Bulletin

No. 438-03-09

Eggers Industries

The table below summarizes or core options for 1-3/8” thick doors. These options are based on availability as well as physical properties, such as density profiles, for the core materials.

Core Type	Offered for 1-3/8” Doors	Notes
Standard Particle	Yes	Stocked Size
UF-free Particle	Yes	Stocked Size
FSC Particle	No	Not currently available
Stave Lumber	Yes	Sanded from thicker core – special sanding charge applies
FSC Stave Lumber	Yes	Sanded from thicker core – special sanding charge applies
Structural Composite	Yes	Stocked Size
Agrifiber	No	Not currently available

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DUTCH DOORS
Information Bulletin 317

Date: March, 2014

Eggers Industries

General Information:

If a shelf required, we will need to know

- Will the shelf be top-mounted or side-mounted?
- If it is a single shelf, which side of the door will it be on?
- If the door is unfinished, is the shelf to be installed or shipped loose? Will it be a Standard Eggers shelf at 1-1/8" thickness or a custom shelf? If custom, what will the thickness be?

Standard shelf information

- If the door is pre-finished the shelf must be factory installed.
- If a shelf is going to be mounted on the top of the bottom leaf the factory will cut the door down to accept the shelf, whether shelf is shipped loose or installed.
- If there is no shelf or the shelf is side-mounted, the top rail of the bottom leaf will be veneered as standard procedure.
- If door has a plastic laminate shelf the brackets will be plastic laminated.

20-Min Applications:

UL approval is for both positive and neutral pressure applications up to 4-0 x 10-0.
Warnock Hersey approval is for neutral pressure applications up to 4-0 x 8-0.
Both approvals allow the Dutch door to be provided with a single shelf or without a shelf.

Intumescent seals are required for all applications (Cat A, Cat B, Neutral) not using a metal astragal. These seals will be installed in the bottom rail of the top leaf during manufacturing.

All labeled openings require doors to self-close and self-latch latching devices. With a labeled Dutch door there are several options to accomplish this and maintain the label validity.

- Self-closing: Both leaves may include independent closers; a closer may be used on one leaf with an approved astragal between the leaves serving to close the second leaf; Spring hinges may be used to close one or both leaves (in accordance with the hinge listing or leaf sizes per NFPA-80).

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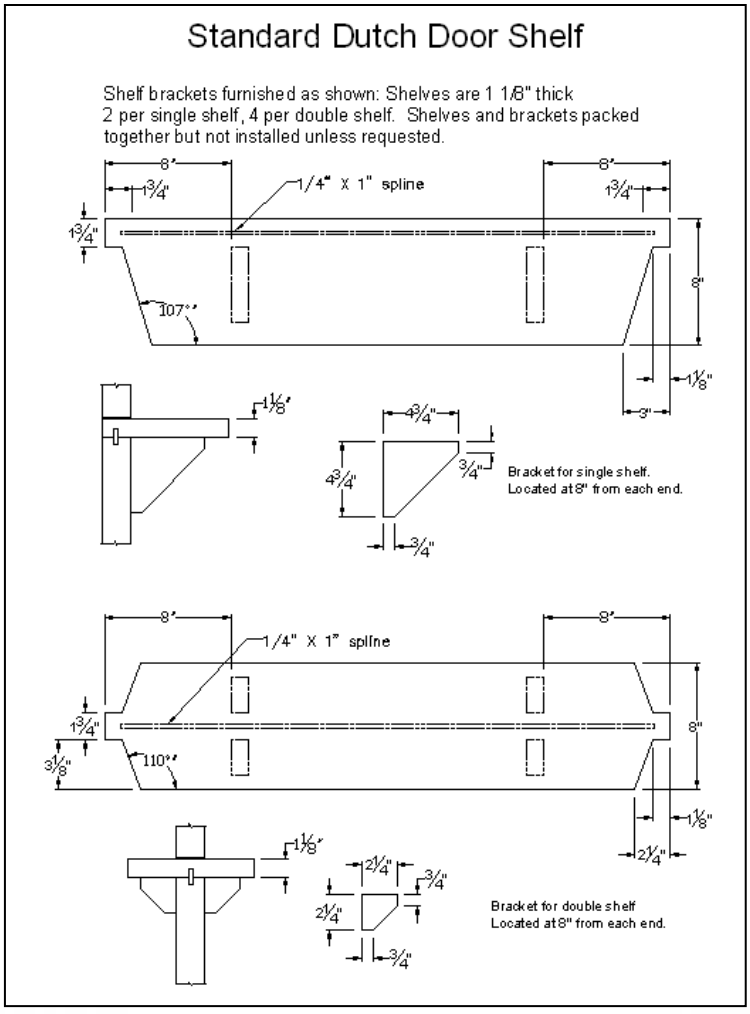
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- Latching: Both leaves may include independent latches; one leaf may latch into the other leaf; where an astragal is used the latch is only required in one leaf where the latched leaf prevents the second leaf from opening.

Dutch doors are constructed as two dependant leaves; they are not approved as stand alone items. The doors are constructed, and the identification marks applied, to show they belong in the same opening. Eggers will apply the fire label to the top leaf; the bottom leaf depends on its association and common mark number for its fire rating.



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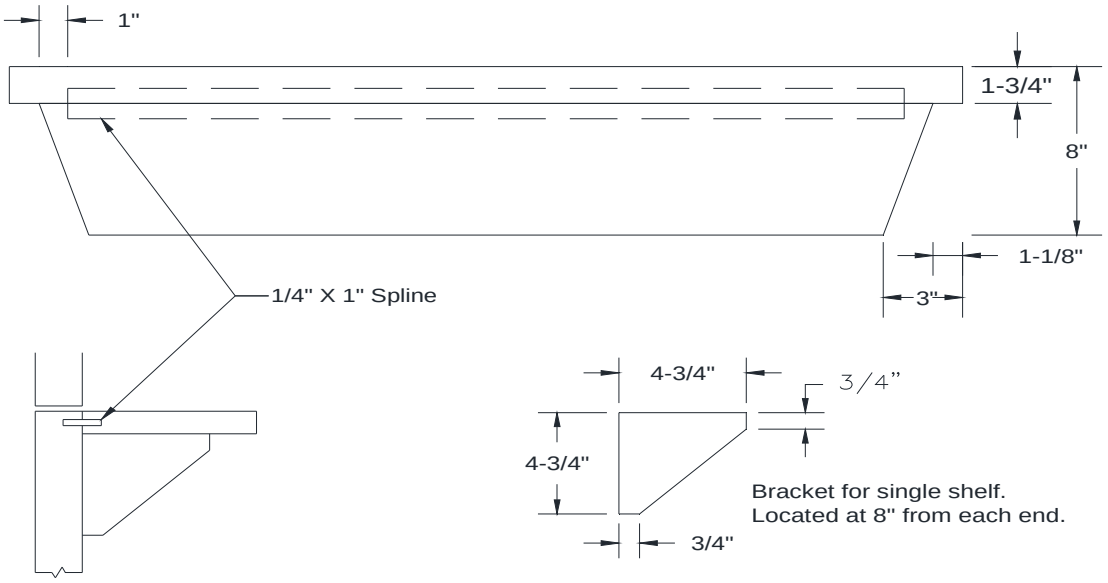
DUTCH DOORS
Information Bulletin 317

Date: March, 2014

Eggers Industries

Side Mounted Dutch Door Shelf

Shelf brackets furnished as shown:
2 per single shelf. Shelves and brackets packed together but not installed unless requested.



Bracket for single shelf.
Located at 8" from each end.

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Electric Strikes

Information Bulletin #458

Date: January, 2012

Eggers Industries

Eggers has approval with UL to put electric strikes in 20-minute doors. Mineral core doors are only available with a construction tag and will require the use of a non-combustible lock block with the electric strike.

Electric strikes, used on 20-min or construction tag doors, must be listed and approved by UL.

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Foam Core Doors

Information Bulletin 455

Date: July, 2011

Eggers Industries

Eggers offers a light-weight door that utilizes an expanded polystyrene (EPS) foam. This core option requires a number of special considerations:

- Foam core will not provide screw-holding power or support for surface-attachment of hardware. All closer hardware will require blocking, Options include 5'x10" lock blocks or wide rails.
- Foam core will not provide support or screw-holding power for cylindrical or mortised locks, flush bolts, flush pulls and surface pulls. All latching hardware will require blocking. Options include 5'x10" or 5"x18" lock blocks or wide stiles.
- Foam core will not provide adequate nail holding for surface-applied molding. Adhesive should be used (with nails or alone) to attach molding.

Eggers "One Order" documents will include a paragraph requesting disclosure of any surface applied hardware that would require special blocking consideration.

Refer to the engineering specifications in the "Foam Core" brochure for size, thickness, hardware limitations and elevation drawing. Special constructions may be available upon engineering review.

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Full Lite Door Construction Comparison

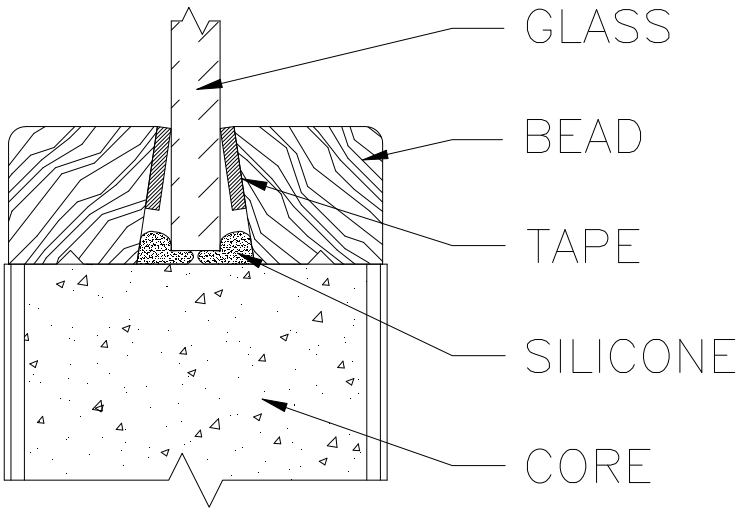
Information Bulletin 437

Date: March, 2009

Eggers Industries

Eggers now offers a particle core option for non-rated, full-lite applications. The lite sizes and dimensions are the same as those offered with our SCL and Stave core constructions. This door will be constructed normally and does not require a liner around the cutout. Standard particle core lite-to-lock dimensions and special installation apply. The chart below compares the full-lite options.

	Particle Core	SCL and SLC Core
Lite-to-Lock	3-5/16"	1-1/2"
Lite-to-Lite	5"	3"
Max Width	36"	36"
Max Length	87-9/16"	87-9/16"
Max Area	2868 sq in	2868 sq in
Fire Rating	Non-Rated	20-Minute
Installation	Beads are installed using standard glazing tape and nails. In addition a small bead of 100% silicone is required as shown in the drawing below.	Beads are installed using standard glazing tape and nails.



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Lead Door Guidelines
Information Bulletin

No. 286-12-10

Eggers Industries

Subject: Lead Door Guidelines

1. Maximum Size Doors
   All lead doors will be constructed at Neenah. The manufacturing process will limit the door dimensions to 48” in width and 10’ in length.

2. Core types available
   Lead doors are available with all standard core types. Specific core-related size or availability limitations will apply to lead doors constructed with that core.

3. Fire Ratings
   Lead-lined 20-min doors are available for Category A or B or as Neutral pressure applications (UL & WH).
   Lead-lined 45- and 60-min doors are only available as Category B or Neutral pressure (UL only).

4. Special Faces or Finishes
   Doors having any of the following will be quoted using Two Rivers pricing.
   A. Special finishes that only Two Rivers utilizes
   B. Sketch face doors
   C. Special veneers (i.e. soft wood veneers, blue print, burls, horizontal grain)

   Doors being sanded and finished at Neenah will be constructed using pre-made skins from Two Rivers. Doors that will have faces applied at Two Rivers will be manufactured and machined at Neenah using hardboard in place of the skin. The construction will be completed at Two Rivers per their Standard Instruction 1-10.

5. Maximum Thickness Lead
   Due to safety and material handling limitations our standard lead door offering is limited to a maximum lead thickness of 1/8” (1/16” each side). Doors having up to 1/4” of lead (1/8” each side) may be available upon engineering review. The maximum manufactured door weight will be limited to 500 lbs.

6. Pair Applications
   Lead-lined pairs will require the use of a leaded astragal. This astragal may be our lead-lined wood astragal for non-rated doors and 20-minute doors that do not require the astragal for their fire approval.

   For 45- and 60-min pairs, where an astragal in not required for the fire rating, a lead-lined flat steel astragal is required for x-ray protection. Where a MEA set is required for the fire approvals the astragal must be lead-lined for x-ray protection.

7. Hardware limitations
   Concealed vertical rod hardware cannot be used with lead-lined doors. The latch machining of many of these devices will remove the lead from both faces of the door. Other types of hardware may involve removal of the lead shielding and would void the protection in that area of the door. See our individual hardware tables for notes regarding lead door applications.

8. Construction
   Our lead door construction involves gluing lead to both sides of particleboard core and applying a 3-ply skin over the lead. Each sheet of lead will represent ½ the total lead thickness required. (i.e. 1/16" lead door = skin-1/32" lead-core-1/32" lead-skin). We will no longer supply 3/32" lead doors as a standard product because we do not inventory the 3/64" lead thickness and delivery time is too long for our standard lead-time.

   Because the lead is under the faces as opposed to being in the center of the core there is no special lining required for mortised lock machining.

9. Lites
   To be consistent with the International Building Code, glazing used in doors glazed by Eggers, must be safety rated. This has increased the thickness of 1/16" equivalent leaded glass from 1/4" to 9/16". We also have a 1/8" lead equivalent glazing available at a thickness of 3/4". Both of these glazing options require the use of metal vision panels for all glazed lead applications (see last page for glazing disclaimer).

   For non-rated 1/16" lead applications use the All Metal 105M L-2 lead-lined frame with 9/16" leaded glass. For non-rated 1/8" lead applications use the All Metal 115-L1 with tempered glass as the center pane and a 3/4" leaded glass outer pane.

   For labeled 20-, 45- and 60-min lead door applications use the dual-glazed All Metal 115-L1 vision panel. The center pane of glass must be fire rated; safety-rated single-ply ceramic such as Firelite NT is recommended. The outer pane will be 9/16" thick for 1/16" lead doors or 3/4" thick for 1/8" lead doors. This application is limited to a lead shielding of 1/8" or less.

   The thickness of glazing materials used with the All Metal vision panels referenced above are shown in the table below.

Frame	Lead Thick.	Center Pane Glazing	Outer Pane Glazing
115 L-1 (fire rated)	Up to 1/16"	3/16" to 5/16" Fire Rated	9/16" Leaded
115 L-1 (fire rated)	Up to 1/8"	3/16" to 1/4" Fire Rated	3/4" Leaded
105M L-2 (non-rated)	Up to 1/16"	9/16" Leaded	Not Applicable
115 L-1 (non-rated)	Up to 1/8"	3/16" to 1/4" Tempered	3/4" Leaded

10. Lite-to-Lock Dimension
    The minimum lite-to-lock dimension is core related. This dimension will be the same on lead-lined doors as for non-lead-lined doors constructed with the same core.

GLAZING OF LEAD-LINED DOORS

Eggers does not support the use of non-safety-rated glazing in door lites, and will not accept liability for the installation by others of non-safety-rated glazing in an Eggers door. The following options are available.

- Doors glazed by Eggers:
  These doors will require safety-rated glazing.

- Doors provided with cut-outs only:
  The glazing and glazing frame will be specified and ordered by the customer. Lead-lined wood beads not available through Eggers

- Doors provided with cutouts – glazing frame purchased through Eggers:
  Glazing and glazing frame will be specified by the customer. Commercially available frames can be ordered as an accessory through Eggers.

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Mini-Blind Glass Units

Information Bulletin #410

Date: April, 2014

Eggers Industries

Subject: Mini-Blind Glass Units

Eggers Industries is able to provide doors incorporating mini-blind glass units. These units are supplied by more than one vendor, resulting in different size availability, options, lite bead requirements and cost. These units are only available as factory-glazed. See the table below for a summary of the offerings.

Generally, the mini-blinds are encapsulated between 2 pieces of 1/8" tempered glass. The controller(s) that tilt and raise the blinds are available on one side only. **The customer must specify which side of the door (INSIDE or OUTSIDE) the controller needs to be installed on**.

	Vendor 1	Vendor 2
Thickness of Unit	1-1/16"	1"
Wood Bead	#115	#113
Control Options	Tile & Lift	Tilt & Lift of Tilt Only
Slat Color	Bright White (all), Tan (optional as indicated below)	Bright White, Linen White, Tan
Slat Material	Aluminum	Aluminum
Delivery Lead Time	2 Weeks	10 Week Minimum
Alternate Glazing	No	Yes (per availability)
Sizes	Standard sizes only per the chart below	Custom Sizes Available

Glass Size	Cut-Out Size	Visible Lite	Tilt/Raise
7" x 64"	7-1/8" x 64-1/8"	6" x 63"	Tilt and Lift
8" x 64" *	8-1/8" x 64-1/8"	7" x 63"	Tilt and Lift
14" x 64"	14-1/8" x 64-1/8"	13" x 63"	Tilt and Lift
14" x 80"	14-1/8" x 80-1/8"	13" x 79"	Tilt and Lift
20" x 36"	20-1/8" x 36-1/8"	19" x 35"	Tilt and Lift
20" x 64" *	20-1/8" x 64-1/8"	19" x 63"	Tilt and Lift
20" x 80"	20-1/8" x 80-1/8"	19" x 79"	Tilt and Lift
22" x 36" *	22-1/8" x 36-1/8"	21" x 35"	Tilt and Lift
22" x 48"	22-1/8" x 48-1/8"	21" x 47"	Tilt and Lift
22" x 64" *	22-1/8" x 64-1/8"	21" x 63"	Tilt and Lift
22" x 80"	22-1/8" x 80-1/8"	21" x 79"	Tilt and Lift

* Tan slats are options for these sizes. All sizes are available with bright white slats.

Mini-blind units have not been evaluated for use on acoustic doors, and are not approved for use on fire-rated, x-ray or bullet-resistant doors.

Pairs with Different Core Types

Information Bulletin #328

Date: August, 2017

Eggers Industries

In accordance with the limitations shown below, Eggers will construct pairs of doors having different core types. In addition, a flush leaf may be paired with a stile & rail leaf.

Specific application rules:

- Because different core react differently to fire, both leaves of a fire-rated pair must be constructed of the same core type.
- Where bullet-resistance is required, both leaves are required to have the same construction.
- Where lead-lining is involved (other than designed acoustical core construction SG-5, SG-6, SG-14 and SG-16) both leaves must include lead. The lead thickness and the core type may differ between the two leaves.
- Where one leaf is includes a designed acoustical core construction (SG-3, SG-4, SG-5, SG-6, SG-12, SG-14 and SG-16) the other must be a designed acoustical core construction, though not necessarily the same construction [example one leaf could be SG-4 and the other SG-5]. No STC guaranty is available for such combinations.

Special Notes:

1. Availability of face-matching may be limited, based on the constructions selected,
2. Hardware options and maximum opening height may be limited by the combination selected,
3. Some combination may impact lead-time

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Radius Machining of High Pressure Laminate (Plastic) Faces

Information Bulletin

No. 445-10-09

Eggers Industries

This bulletin is to provide guidance when face machining on Plastic-faced doors requires radius corners and when the corners will be squared. These guidelines are based on the shrinkage potential of the plastic laminate when exposed to drying conditions. They also take into account how solid the surface is beneath the laminate to produce a clean cut without fractures.

Corners must include a radius when the face machining is:

- wider than 3”, or
- deeper than 1/4”

Corners may be squared when the face machining is:

- 3” or less in width, and
- 1/4” or less in depth

This means openings through the door for lites, louvers and similar accessories must include a radius. Machining for faceplates and edge guards will be squared.

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REVEALS
Information Bulletin 264

Date: February, 2015

Eggers Industries

Applicable Rules:

1. Reveals may be horizontal, vertical, or radiused*, and may intersect.

2. Reveals are not allowed in 45-minute Particle or 45-min Agrifiber core

3. Where reveals are allowed their dimensions location from lites and door edge as well as inlay requirements will vary.

4. Both faces of the door require the identical reveals to maintain the warranty. Exception: SCL core doors can have shallow reveals one side only or a different reveal pattern on the two faces. This exception does not apply if inlays are required.

5. Reveals in exterior doors are subject to manufacturing approval and will void the warranty.

6. Reveals (with or without inlays) cannot be closer than 7" to the lock stile of doors having concealed vertical rod hardware. This applies to both horizontal and vertical reveals (See figure #3).

7. Reveals requiring inlays must be factory cut.

8. Reveals adjacent to a lite cutout are limited to a maximum depth of 3/64".

9. Available reveal layouts may be limited due to conflicts between hardware machining and the inlay/reveal machining.

10. Warranted and available in U.L. doors labeled 20 through 90 minute.
    A. Depth:
        1. Without Hardwood Inlay:
            The dimensions are limited to 3/64" deep by 1/4" wide. Cross-banding will be visible in the bottom of the reveal (See figure #1). There is no maximum length for shallow reveals. This is the only type of reveal allowed in acoustical and lead lined doors.

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2. With Hardwood Inlay:
   The maximum dimension is 3/8" x 3/8". The inlay will be visible in the bottom of the reveal. Inlay species may be selected as compatible or contrasting with face veneer species as desired. A maximum of 31 lineal feet of reveals is allowed per side to maintain label and warranty (See figure #2). Inlays in 45-90 min doors cannot cross through the stiles, rails, or required blocking. Where blocking is not involved the minimum stile and rail dimension will be 1"; where 5" blocking is involved the minimum stile and/or rail dimension will be 6".

11. Warranted and available in non-rated, non-mineral core doors.
    A. Depth:
       1. Without Hardwood Inlay:
          The dimensions are limited to 3/64" deep by 1/2" wide. Cross-banding will be visible in the bottom of the reveal (See figure #1). There is no maximum length for shallow reveals. This is the only type of reveal allowed in acoustical, lead lined and specific bullet-resistant doors.
       2. With Hardwood Inlay:
          The maximum dimension is 3/8" x 1/2". The inlay will be visible in the bottom of the reveal. Inlay species may be selected as compatible or contrasting with face veneer species as desired. To maintain the warranty reveals cannot exceed 31 lineal feet per face (See figure #2).

***** If a radius reveal is required you must contact the factory for pricing and warranty information.

Explanation of 3/64" Reveal Depth

Eggers has set the maximum depth of reveals without inlays at 3/64". This dimension allows approximately .065" of cross-banding to remain between the reveal on door core, based on a standard veneer face and 1/11" cross-band. The actual thickness of cross-banding will differ based the tolerances of the materials being used, and the component options.

The inlay requirement is due to both structural and aesthetic concerns. While the use of inlays for reveals deeper than 3/64" addresses the structural concerns they do not avoid all of the aesthetic issues. The aesthetic issue arises when the requested depth of the reveal is close to the location of the crossband/inlay bond. In such cases the component and machining tolerances may result in part of the reveal having crossband showing at the bottom. To prevent this, the minimum depth of reveals

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requiring an inlay will 5/32". This dimension allows for various face options over a 1/11" cross-band plus machining tolerance.

Finished options for reveals:

The table below defines the reveal appearance for the reveal finishing "picks" available with factory finished doors.

PICK	(Shallow) Reveal without Inlay – Crossband is the Visible Surface in the Reveal	Reveal with Inlay – Matching or Compatible Lumber is the Visible Surface in the Reveal
BLACK PAINT	Reveal will be painted black	Reveal will be painted black
SAME AS FACE	If the face will be finished with an opaque varnish the reveal will match the face. If face will be stained the reveal will have the same stain applied as the face, but it will not match the face (usually the reveal will be darker in appearance).	If face will be finished with an opaque varnish the reveal will match the face. If face will be stained the reveal will have the same stain applied as the face and will match the face.
MATCH SAMPLE	The reveal will be finished a different opaque varnish or stain than the face and will match an approved sample with a reveal. For this option there will be separate sample approval numbers for the face and the reveal.	The reveal will be finished a different opaque varnish or stain than the face and will match an approved sample with a reveal.

Terminology

Due to confusion in using different terms to describe the same constructions this information section is to clarify and standardize the terms we use to describe constructions.

REVEALS
Information Bulletin 264

Date: February, 2015

Eggers Industries

The terms “reveals” and “quirks” have been used interchangeably. To standardize, Eggers literature and computer codes will only reference the term “reveal”. The following terms and definitions describe where we will use certain terms.

1. Reveals without inlays: Reveals 3/64” deep, do not need lumber glued into cores, see Figure #1

2. Reveals with inlays: Reveals that require lumber to be glued into a groove in the core prior to face application, see Figures #2 and #3.

3. Inlays lumber or similar material glued into a groove in the core material prior to the application of the door facing.

4. Liners: Interior blocking used around cutouts for lites and louvers. Liners extend from one face of the door to the other, replacing the core material in that area.

Figure # 1 - Reveal - No Inlay

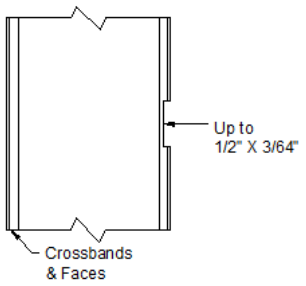


Figure #2 - Reveal - With Inlay

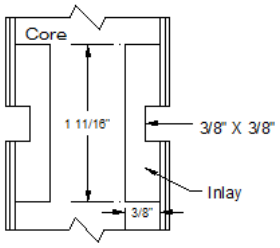
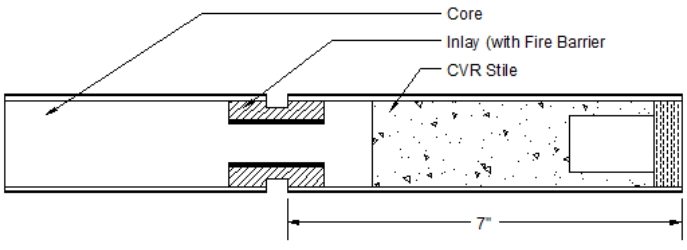


Figure # 3 - Reveals with Inlay in a Fire Door w/CVR Stile



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Splined Doors

Information Bulletin 393

Date: February, 2012

Eggers Industries

Doors are available in single leaf sizes up to 48” x 120” from our Neenah location and up to 75” wide or 12’ high from our Two Rivers facility. Doors wider or longer than these dimensions are available from either location as individual leaves to be splined . These doors will not be available splined at the factory.

Splined doors will be constructed as individual leaves and machined at the edges to be joined with a full-height or full-width groove.to receive a spline. The spline, consisting of a ½” thick x 1 ½” wide strip of plywood, will be shipped loose with the doors. The assembly is completed in the field by gluing the spline into the grooved edges. It is the responsibility of the field assembler to use a high quality adhesive and sufficient clamping force to insure a strong joint.

Where splining is required, the individual doors to be joined will be the same size (i.e. a 6’ wide door will be constructed as two 3’ doors, 14’ tall doors will be constructed as two 7’ doors, etc.)

Additional notes:

- The adjacent edges of doors to be splined are cut square and are not eased or finished.
- The splined edges must be full lumber stiles (default species is maple)
- Eggers warranty does not cover the field assembly
- Doors splined for width are not recommended for side hinged applications
- Doors splined for length are not recommended for overhead track applications
- Doors to be splined are available with pair matched veneer
- Certain combinations of widths (under 75”) and lengths 144” or less may require a spline due to core availability and/or door weight.

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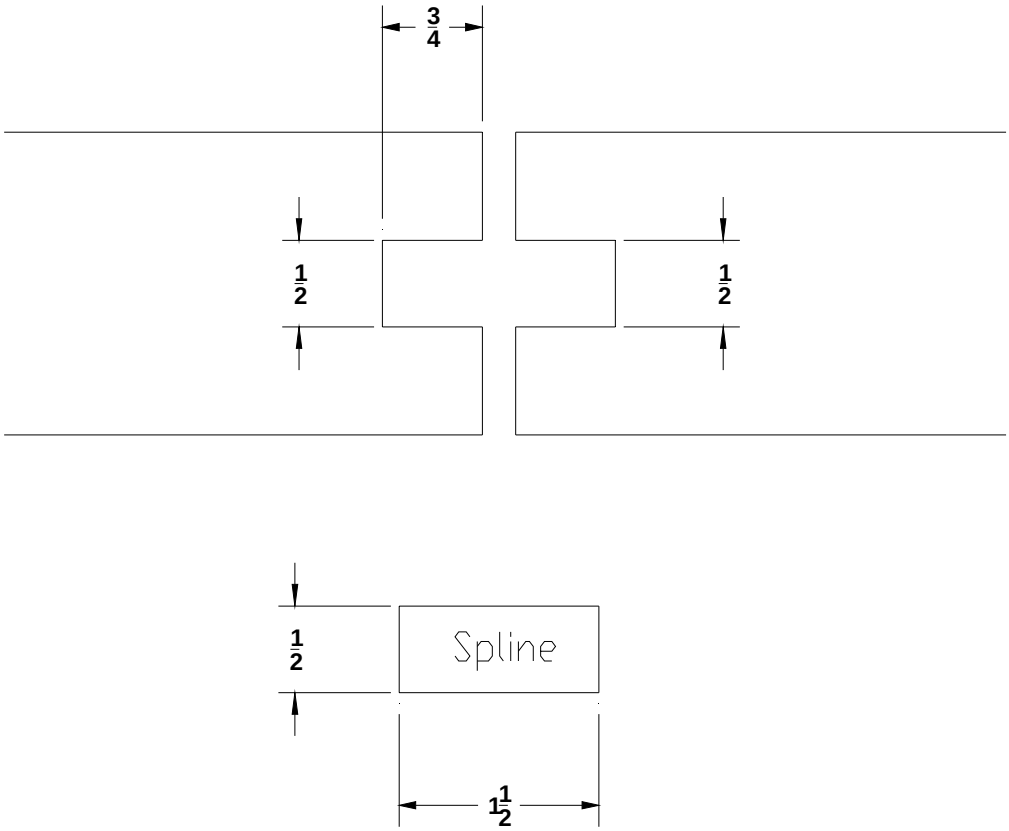
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Splined Doors
Information Bulletin 393

Date: February, 2012

Eggers Industries

Detail for splining door together.
Spline will be full-height or full-width.



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Stone Veneer® Care & Maintenance
Information Bulletin 452

Date: April, 2011

Eggers Industries

Stone-Veneer® Care and Maintenance Instructions

Stone-Veneer® is a real and natural slate product; therefore, it is as porous as any natural slate would be. The following precautions should be followed with Stone-Veneer® products:

- **Care:** Although Eggers does not promote the use of Stone-Veneer® in wet areas, you may desire to seal this product. This will help to prevent bacteria and everyday dirt and stains from accumulating in the slate's pores and making it difficult to clean. The natural minerals present in water can also accumulate in the stone's pores.

  Tec™ EnsealantSB, a solvent based stone enhancer and sealer, has been tested with good results on Stone-Veneer®. More information can be found at www.tecspecialty.com

- **Cleaning:** Any impurities that are splashed or spilled on Stone-Veneer® should be removed as soon as possible with warm water and a slightly moistened cloth. If the stain is not easily removed, it is recommended that the surface be washed with a soft cloth moistened with a mild dish washing liquid and warm water solution. Any other cleaners have not been tested and should first be tested on an inconspicuous area to confirm that they will not adversely harm or stain the surface of the Stone-Veneer®.

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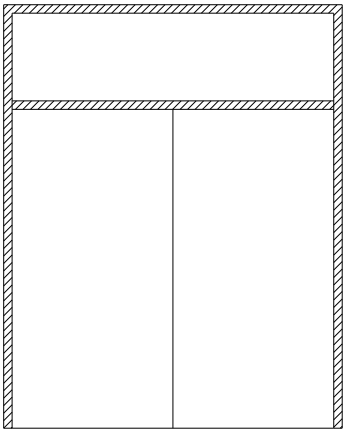
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Transoms
Information Bulletin #413

Date: June, 2017

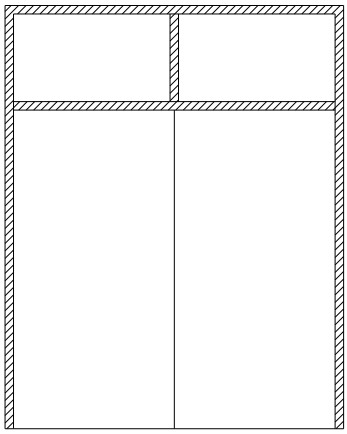
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Labeling:



Pair doors with a full-width transom, separated by a transom bar:

1. Doors may be rated 45 thru 90 minutes. Transom can be construction tagged but not labeled.
2. 20-Minute full width transom (including rabbeted transoms) may be UL labeled, with or without a transom bar.
3. Available in neutral pressure or positive pressure Cat A or Cat B.



Pair doors with a split transom; doors and transoms separated by a transom bar:

1. Both the doors and transoms may be labeled for 20 thru 90 minutes.
2. Available in neutral pressure or positive pressure Cat A or Cat B.

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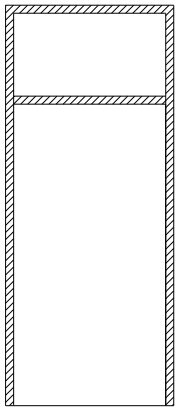
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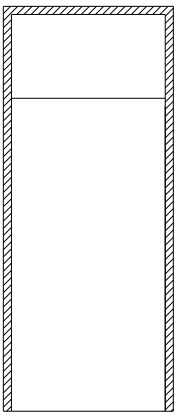
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Labeling (cont):



Single door and transom separated by a transom bar:

1. Both the doors and transoms may be labeled for 20 thru 90 minutes.
2. Available in neutral pressure or positive pressure Cat A or Cat B.



Rabbeted single door and transom:

1. Both the doors and transoms may be labeled for 20 thru 90 minutes.
2. Available in neutral pressure or positive pressure Cat A or Cat B.
3. When closer will be attached to the transom, refer to Info Bulletin 420 for blocking requirements. Refer to installation section below for special requirements.

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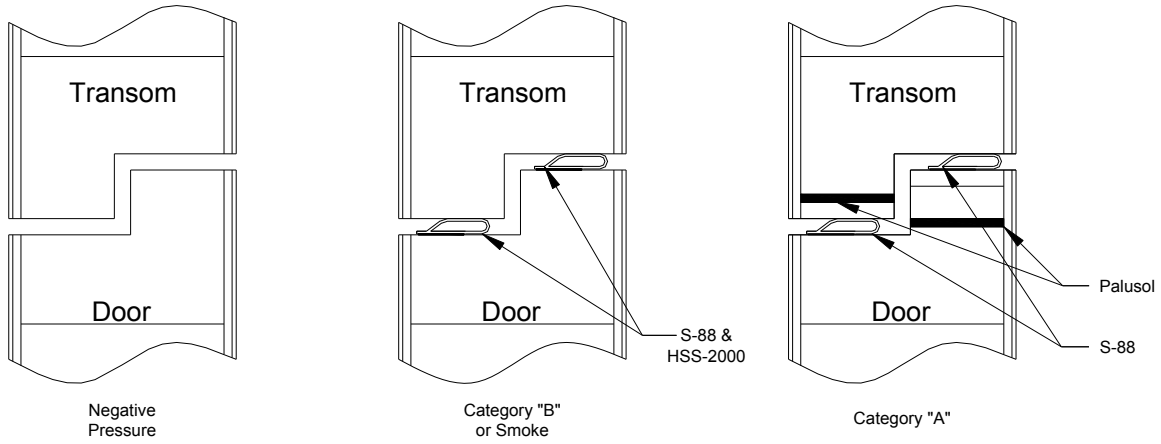
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Transoms
Information Bulletin #413

Date: June, 2017

Eggers Industries

Gasketing:



Clearances:

	+ Pressure (A or B)	Non-Rated and Neutral Pressure
Transom with Transom Bar	1/4" width, 1/4" height	1/8" width, 1/8" height
Flat Cut Transom no Transom Bar	1/4" width, 1/8" height*	1/8" width, 1/16" height*
Rabbetted Cut Transom no Transom Bar	1/4" width, 1/8" height* (plus 1/2" for the rabbet)	1/8" width, 1/16" height* (plus 1/2" for the rabbet)

*The height clearance is for the transom to frame, the clearance between the door and transom are accounted for in the door trimming.

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Date: June, 2017

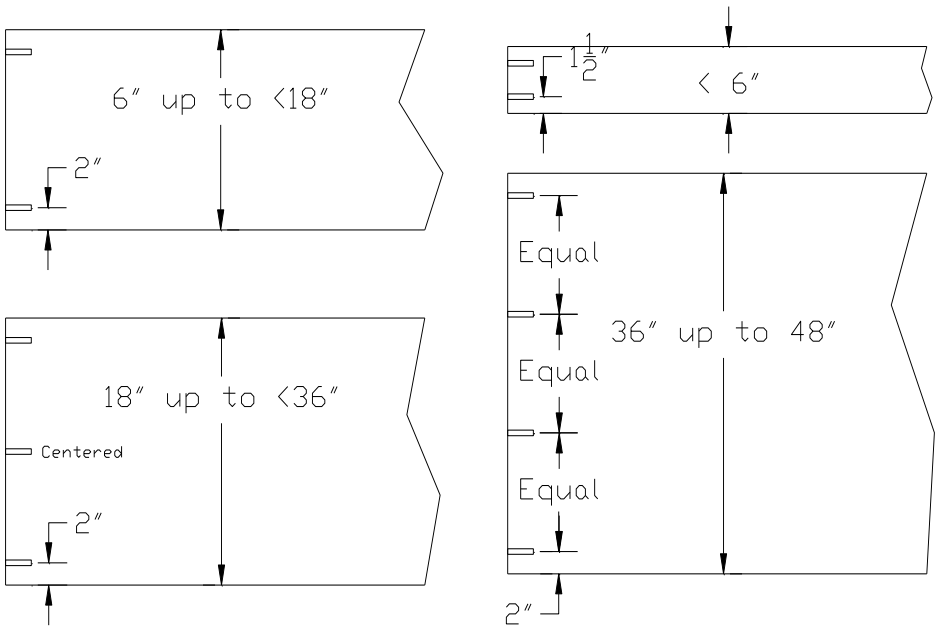
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Installation:

Transoms are typically secured in the frame by using spring-bolts or frame stops secured to the frame after the transom is installed. For labeled applications spring bolts require a metal pin (with or without a plastic covering. When closer is attached to the transom frame stops are required on both faces of the transom for warranty; spring-bolts are not adequate for operational forces.

Where spring-bolts are used they are installed in the vertical edges of the panels with :
- Panels up to 18" having 2 bolts per side
- Panels up to 36" having 3 bolts per side
- Panels up to 48" having 4 bolts per side

Standard Springbolt Locations (measured from the wide face of rabbeted transoms)



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Transoms
Information Bulletin #413

Date: June, 2017

Eggers Industries

Lites in Labeled Transoms

1. Available with UL labels only for 20-90 minutes.
2. 20-minute transoms must have 5" from edge of door to edge of cutout.
3. 45, 60, 90 minute transoms must have 5 ½" from cutout to edge of door.
4. You could have multiple lites but margins must be adhered to.
5. Maximum height and square inches must be adhered to.
6. Any lite kit wood beads, veneered label beads, MVP's can be used with the same restrictions as in doors.

Applied Molding on Labeled Transoms:

1. Available with UL only for 20-90 minutes.
2. Untreated wood 1 ½" high maximum x 6" wide maximum x varying lengths.
3. No maximum area of coverage.
4. If the transom has lites, the molding can cover the bead. In this case the transoms would be required to be factory glazed.

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WDMA Performance Duty Levels

Information Bulletin 420

Date: March, 2012

Eggers Industries

Subject: Duty Level Ratings of Eggers Doors (per WDMA Performance Standards)

All Eggers doors are able to meet the "Extra Heavy Duty" level. The top rail and hinge stile screw withdrawal as well as hinge load and cycle slam meet extra heavy duty with standard constructions. The face screw withdrawal for Stave, SCL and 45-min rated particle core meet extra heavy duty without additional blocking. Particle and 45-min Agrifiber meet "Heavy Duty" without additional blocking. Blocking is required for standard Agrifiber, Acoustic and Mineral core doors where hardware will be attached to the face using screws. Blocking is generally not required for through bolted hardware.

The table on page 2 shows the duty level for the physical properties by core type.

Door Type	Screw Withdrawal			Hinge Load	Cycle Slam
	Hinge Stile	Top Rail	Core		
Particleboard* (Non-rated & 20-Min)	Extra Heavy Duty	Extra Heavy Duty	Particle core doors meet "Extra Heavy Duty" requirements when blocked for screw-attached surface hardware. Without blocking the core screw withdrawal meets "Heavy Duty" requirements.	Extra Heavy Duty	Extra Heavy Duty
Particleboard (45-Min)	Extra Heavy Duty	Extra Heavy Duty	This Particle core doors meets "Extra Heavy Duty" requirements for screw attached surface hardware without blocking.	Extra Heavy Duty	Extra Heavy Duty
Acoustic Construction	Extra Heavy Duty	Extra Heavy Duty	Acoustic door constructions meet "Extra Heavy Duty" requirements when blocked for screw-attached surface hardware. Without blocking the core screw withdrawal is below "Standard Duty" requirements.	Extra Heavy Duty	Extra Heavy Duty
Agrifiber (Non-rated, 20-45 min)	Extra Heavy Duty	Extra Heavy Duty	Agrifiber core doors meet "Extra Heavy Duty" requirements when blocked for screw-attached surface hardware. Without blocking the core screw withdrawal meets "Heavy Duty" requirements.	Extra Heavy Duty	Extra Heavy Duty
Stave**	Extra Heavy Duty	Extra Heavy Duty	Stave core meets "Extra Heavy Duty" requirements and requires no blocking for screw attached surface hardware.	Extra Heavy Duty	Extra Heavy Duty
SCL**	Extra Heavy Duty	Extra Heavy Duty	SCL core meets "Extra Heavy Duty" requirements and requires no blocking for screw attached surface hardware.	Extra Heavy Duty	Extra Heavy Duty
Mineral	Extra Heavy Duty	Extra Heavy Duty	Mineral core doors meet "Extra Heavy Duty" requirements when blocked for screw-attached surface hardware. Without blocking the core screw withdrawal is below "Standard Duty" requirements.	Extra Heavy Duty	Extra Heavy Duty

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WDMA Performance Duty Levels

Information Bulletin 420

Date: March, 2012

Eggers Industries

* This includes the Standard core, No-UF core and FSC certified core.

** This includes the both the Standard core and the FSC certified core.

The table on page 3 shows the performance values required for each duty level per WDMA I.S. 1-A (04).

Performance Attribute	Duty Level		
	EXTRA HEAVY DUTY	HEAVY DUTY	STANDARD DUTY
Adhesive Bond Durability WDMA TM-6,1988	Type II	Type II	Type II
Cycle Slam WDMA TM-7,1990	1,000,000 cycles	500,000 cycles	250,000 cycles
Hinge-Loading WDMA TM-8,1990	550 lbs. (2440 N)	475 lbs. (2110 N)	400 lbs. (1780 N)
Door Finishes Various ASTM test methods	TR-6/OP-6 or equal *	TR-4/OP-4 or equal *	TR-2/OP-2 or equal *
Screwholding WDMA TM-10,1990			
Door Face unblocked	550 lbs. (2440 N)	475 lbs. (2110 N)	400 lbs. (1780 N) **
Door Face (with optional blocking) ***	700 lbs (3110 N)	700 lbs (3110 N)	700 lbs (3110 N)
Vertical Door Edge	550 lbs. (2440 N)	475 lbs. (2110 N)	400 lbs. (1780 N)
Horizontal Door Edge (applies when hardware attached)	300 lbs. (1330 N)	240 lbs. (1060 N)	180 lbs. (810 N)
Telegraph WDMA T-1	Maximum 0.010 in. per 3 in. (0.25 mm per 76 mm) span		
Warp Tolerance WDMA T-2	maximum 0.25 in per 3'-6" x 7'-0" (6.35 mm per 1050 mm x 2100 mm) door section		
Squareness WDMA T-3	Diagonal variance 0.125 in. (3.17 mm)		

* Other formulations may exhibit similar performance characteristics, but must meet or exceed the performance levels for the systems specified to be considered as equal.

** If screwholding power is less than 400 lbs. (1780 N) blocking or thru-bolts are recommended for operable hardware.

*** Blocking may be specified in certain hardware applications where a specifier deems the frequency and severity of use so dictates. Blocking is a material used for improved screwholding at hardware attachment points (not required in core types such as SCL or Stave Lumber). Refer to Sections C-10 through C-14 for blocking options.

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ACOUSTIC GASKET SYSTEMS

Installation Instruction 109

Date: June, 2013

Eggers Industries

Installation of Perimeter Seals: Gasket System A

1. Install the Pemko 434 door bottom in accordance with the manufacturer's instructions prior to hanging the door. Eggers recommends countersinking the mounting holes and replacing the round-head mounting screws with flat-head screws to attach the door bottom to the door. This will increase the clearance between door bottom and threshold.

2. Turn the adjustment screw on the door bottom in so that the seal will not activate when the door is closed.

3. Hang the door and adjust for proper clearances.

4. Install the Pemko 2005 threshold within the opening. The threshold should be installed parallel to the bottom of the door, shimming if required. A sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Thresholds should not be mounted over carpeting as this will not allow a good seal.

5. Prepare the frame by cleaning the jamb, header and stops where the S-88 seals will be applied.

6. Measure, cut and apply the S88 (teardrop-shaped) gasket to the frame stop, insuring a good seal in the corners (see photo 1). The Pemko S-88 should be full height or width of the opening and should not be spliced.

7. Turn the adjustment screw on the door bottom out to the point where the seal makes uniform firm contact with the sill when the door is closed.

Photo 1



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ACOUSTIC GASKET SYSTEMS

Installation Instruction 110

Date: June, 2013

Eggers Industries

Installation of Perimeter Seals: Gasket System B

1. Install the Pemko 434 door bottom in accordance with the manufacturer's instructions prior to hanging the door.

2. Turn the adjustment screw on the door bottom in so that the seal will not activate when the door is closed.

3. Hang the door and adjust for proper clearances.

4. Prepare the frame by cleaning the jamb, header and stops where the S-88 seals will be applied.

5. Measure, cut and apply the S88 (teardrop-shaped) gasket to the frame stop, insuring a good seal in the corners (see photo 1). The Pemko S-88 should be full height or width of the opening and should not be spliced.

6. Turn the adjustment screw on the door bottom out to the point where the seal makes uniform firm contact with the sill when the door is closed. If a flat threshold is being used as the sill a sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Door bottoms should not be used over carpeted sills as this will not provide a good seal.

Photo 1



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ACOUSTIC GASKET SYSTEMS
Installation Instruction 111

Date: June, 2013

Eggers Industries

Installation of Perimeter Seals: Gasket System C

1. Install the Pemko 234 door shoe in the groove machined in to bottom of the door in accordance with the manufacturer's instructions prior to hanging the door.

2. Hang the door and adjust for proper clearances.

3. Install the Pemko 2005 threshold within the opening. The threshold should be installed parallel to the bottom of the door, shimming if required. When properly installed there should be a 1/8" clearance between the bottom of the door and the threshold when the door is closed. This will allow for 1/8" compression of the door shoe. A sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Thresholds should not be mounted over carpeting as this will not allow a good seal.

4. Prepare the frame by cleaning the jamb, header and stops where the S-88 seals will be applied.

5. Measure, cut and apply the S88 (teardrop-shaped) gasket to the frame stop, insuring a good seal in the corners (see photo 1). The Pemko S-88 should be full height or width of the opening and should not be spliced.

Photo 1



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Installation Instructions 112
Acoustic Gasket Systems

April, 2017

INSTALLATION OF PERIMETER SEALS: GASKET SYSTEM I

1. Install the automatic door bottom in accordance with the manufacturer's instructions prior to hanging the door.
2. Turn the adjustment screw on the door bottom in so the seal will not activate when the door is closed.
3. Hang the door and adjust for proper clearances.
4. Prepare the frame by cleaning the jamb, header, and stops where the perimeter seals will be applied.
5. Measure, cut, and apply the S88 (teardrop-shaped) gasket to the frame stop, insuring a good seal in the corners (see *Photo 1*). The Pemko S-88 should be full height or width of the opening and should not be spliced.
6. Turn the adjustment screw on the door bottom out to the point where the seal makes uniform firm contact with the sill when the door is closed. If a flat threshold is being used as the sill, a sealant such as silicone caulk should be used to prevent sound transmission between the threshold and floor. Installing a threshold or door bottom over carpeting will not provide a good seal and will void the STC guaranty.



Photo 1

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ACOUSTIC GASKET SYSTEMS
Installation Instruction 113

Date: June, 2013

Eggers Industries

Installation of Perimeter Seals: Gasket System K

1. Install the door bottom prior to hanging the door.
2. Hang the door and adjust for proper clearances.
3. Turn the adjustment screw on the door bottom in so that the seal will not activate when the door is closed.
4. Prepare the frame by cleaning the jamb, header and stops where the S-88 seals will be applied.
5. Measure, cut and apply the S88 (teardrop-shaped) gasket to the frame stop, insuring a good seal in the corners (see photo 1).

Photo 1



6. Locate the two foam pads for the frame jambs (these two pads do not have a beveled edge or vinyl facing).
7. Apply these two pads to the bottom of the jambs adjacent to the S-88 installed on the stops in step 2 (see photo 2).
8. Locate one foam pad for the header (this pad has a bevel on one edge and a vinyl facing).

Photo 2



Photo 3



9. Apply this pad centered over the meeting edges of the pairs on the header, with the beveled edge facing away from the stop, and adjacent to the S-88 installed on the stops in step 2 (see photo 3).
10. Measure, cut and apply the S88 (teardrop-shaped) gasket to the jambs and header so that it butts against the foam pads and forms a good seal in the corners (see photos 4 and 5).

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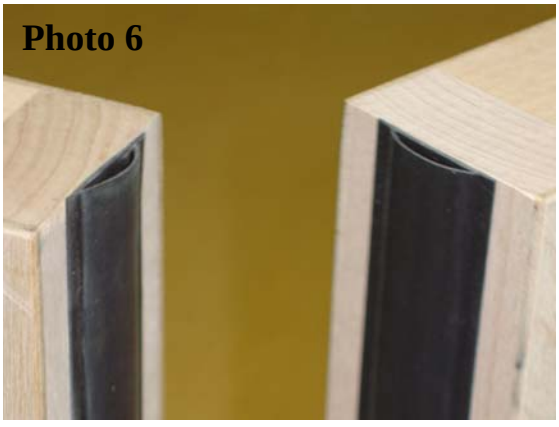
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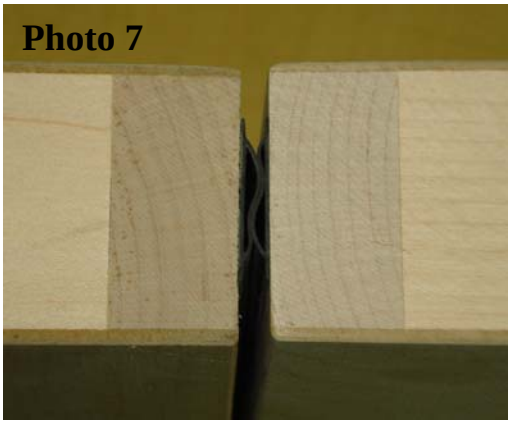




11. Clean the meeting edges of the doors.

12. Measure, cut and apply a strip of S1125 to the meeting edge of each leaf. Apply the strips at the same location on each leaf, at a point where they will make good contact with each other but not cause binding when the doors are closed (see photos 6 and 7).





13. Turn the adjustment screw on the door bottom out to the point where the seal makes uniform firm contact with the sill when the door is closed.

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ACOUSTIC GASKET SYSTEMS
Installation Instruction 114

Date: June, 2013

Eggers Industries

Installation of Perimeter Seals: Gasket System M

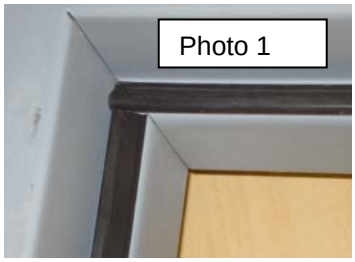
1. Install the Pemko 234 door shoe in the groove machined in to bottom of the door in accordance with the manufacturer's instructions prior to hanging the door.

2. Hang the door and adjust for proper clearances.

3. Install the Pemko 151 threshold within the opening. The threshold should be installed parallel to the bottom of the door, shimming if required. When properly installed there should be a 1/8" clearance between the bottom of the door and the threshold when the door is closed. This will allow for 1/8" compression of the door shoe gasket. A sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Thresholds should not be mounted over carpeting as this will not allow a good seal.

4. Prepare the frame by cleaning the jamb, header, and stops where the S-88 seals will be applied.

5. Measure, cut and apply the S88 (teardrop-shaped) gasket to the frame stop, insuring a good seal in the corners (see photo 1). The Pemko S-88 should be full opening width on the top, with the vertical legs extending from the top of the threshold and butted against the top strip. Use full-length pieces to avoid joint gaps.


Photo 1

6. The second row of S-88 should be applied to the jamb and header, centered approximately ½" from the stop, with the bubble nearest to the stop. Use full-length pieces to avoid joint gaps.

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ACOUSTIC GASKET SYSTEMS

Installation Instruction 125

Date: February, 2015

Eggers Industries

Installation of Perimeter Seals: Gasket System N

1. Cut the DHSI AMDB-3 to match the door machining (either full width or to the solid wood latch edge. Install to the bottom of the door using the screws supplied with the seal.

2. Hang the door and adjust for proper clearances.

3. Prepare the frame by cleaning the jambs and header where the frame seals will be applied.

4. Measure, cut and apply the DHSI 105 gasket on the frame jamb and header, adjacent to the stop. Trim the ends where they meet in the corners such that a good seal will be maintained when the door is in the closed position. The 105 gasket should be full height or width of the opening and should not be spliced.

5. Apply a piece of decibel plug to the bottom of both jambs, adjacent to the 105 gasket. The decibel plug should be sized as required during installation to 1-1/2" wide by the dimension between the top of the AMDB-3 and the sill (undercut + AMDB-3 mortise depth).

   Note: the thickness of the decibel plug will be 3/8" where the AMDB-3 is not visible on the edge of the door (solid wood edge) and ¼" where the AMDB-3 extends through the stile.

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ACOUSTIC GASKET SYSTEMS
Installation Instruction 116

Date: June, 2013

Eggers Industries

Installation of Perimeter Seals: Gasket System O

1. Install the Pemko 234 door shoe in the groove machined in to bottom of the door in accordance with the manufacturer's instructions prior to hanging the door.

2. Hang the door and adjust for proper clearances.

3. Install the Pemko threshold within the opening. The threshold should be installed parallel to the bottom of the door, shimming if required. When properly installed there should be a 1/8" clearance between the bottom of the door and the threshold when the door is closed. This will allow for 1/8" compression of the door shoe gasket. A sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Thresholds should not be mounted over carpeting as this will not allow a good seal.

4. Prepare the frame by cleaning the jamb, header and stops where the S-773 seals will be applied.

5. Cut a single length of S773 to apply to the frame header, spanning the full opening width. Apply it to the frame header adjacent to the stop such that the longest fin of the S773 is next to the stop. Cut two additional lengths of S773 equal to the dimension from the top of the threshold to the frame header. Apply these strips to the frame jambs, starting in the top corners, adjacent to the stops such that the longest fin of the S773 is next to the stop. To insure a good seal in the corners interlace the fins on the jamb with the fins on the header.

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ACOUSTIC GASKET SYSTEMS

Installation Instruction 116

Date: June, 2013

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ACOUSTIC GASKET SYSTEMS

Installation Instruction 126

Date: February, 2015

Eggers Industries

Installation of Perimeter Seals: Gasket System P

1. Cut the DHSI Cap Sweep (CS) to match the door width, and install it to the bottom of the door using a sealant such as 100% silicone, small screws, or a combination. Allow the sealant to cure prior to hanging the door.

2. Hang the door and adjust for proper clearances.

3. Prepare the frame by cleaning the jambs and header where the frame seals will be applied.

4. Measure, cut and apply the DHSI 105 gasket on the frame jamb and header, adjacent to the stop. Trim the ends where they meet in the corners such that a good seal will be maintained when the door is in the closed position. The 105 gasket should be full height or width of the opening and should not be spliced.

5. Apply a piece of decibel plug to the bottom of both jambs, adjacent to the 105 gasket. This decibel plug should be sized as required during installation to 1-1/2” wide by the dimension of the undercut.

6. Measure, cut and apply the DHSI Surface Astragal (SA) gasket. This seal should be located adjacent to the pull face of the frame on both jambs and the header. Trim the ends where they meet in the corners such that a good seal will be maintained when the door is in the closed position. The SA gasket should be full height or width of the opening and should not be spliced.

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ACOUSTIC GASKET SYSTEMS
Installation Instruction 118

Date: June, 2013

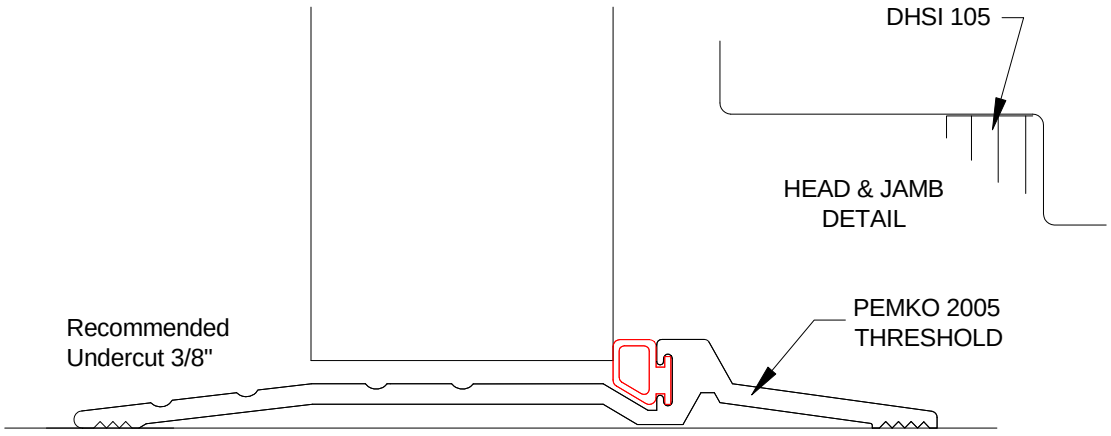
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Installation of Perimeter Seals: Gasket System Q

1. Hang the door and adjust for proper clearances.

2. Install the Pemko 2005 threshold within the opening. The threshold should be installed parallel to the bottom of the door, shimming if required. When properly installed there should be a 1/8” clearance between the bottom of the door and the threshold when the door is closed. The threshold seal should be in uniform contact with the door face and slightly compressed. A sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Thresholds should not be mounted over carpeting as this will not allow a good seal.

3. Install a strip of DHSI 150 seal to the jambs and the header with the longest fin adjacent to the frames stop. Fins should be interlaced where they meet in the corners.



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ACOUSTIC GASKET SYSTEMS

Installation Instruction 124

Date: February, 2015

Eggers Industries

Installation of Perimeter Seals: Gasket System R

1. Install the Zero 369 door bottom in accordance with the manufacturer's instructions prior to hanging the door.

2. Turn the adjustment screw on the door bottom in so that the seal will not activate when the door is closed.

3. Hang the door and adjust for proper clearances.

4. Prepare the frame by cleaning the jamb, header and stops where the frame seals will be applied.

5. Measure, cut and apply the Zero 8145S gasket on the frame jamb and header, adjacent to the stop. Trim the ends where they meet in the corners such that a good seal will be maintained when the door is in the closed position. The Zero 8145S should be full height or width of the opening and should not be spliced.

6. Measure, cut and apply the Zero 119W gasket on the frame jamb and header. This seal should be located adjacent to the pull face of the frame. Trim the ends where they meet in the corners such that a good seal will be maintained when the door is in the closed position. The Zero 119W should be full height or width of the opening and should not be spliced.

7. Turn the adjustment screw on the door bottom out to the point where the seal makes uniform firm contact with the sill when the door is closed. If a flat threshold is being used a sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Door bottoms should not be used over carpeted sills as this will not provide a good seal.

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ACOUSTIC GASKET SYSTEMS
Installation Instruction 120

Date: June, 2013

Eggers Industries

Installation of Perimeter Seals: Gasket System S

1. Hang the door and adjust for proper clearances.

2. Install the Pemko 2008STCxQ380 threshold within the opening. The threshold should be installed parallel to the bottom of the door, shimming if required. When properly installed there should be a 1/8” clearance between the bottom of the door and the threshold when the door is closed. The threshold seal should be in uniform contact with the door face and slightly compressed. A sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor/frame. Thresholds should not be mounted over carpeting as this will not allow a good seal.

3. Install a row of Pemko S44 seal to the leading edge of the jambs and the header.

4. Locate and attach the 312CR w/ER9 to the frame. When properly installed this seal and the threshold seal will provide continuous contact to the face of the door when it is latched closed.

- Refer to drawing on following pages -

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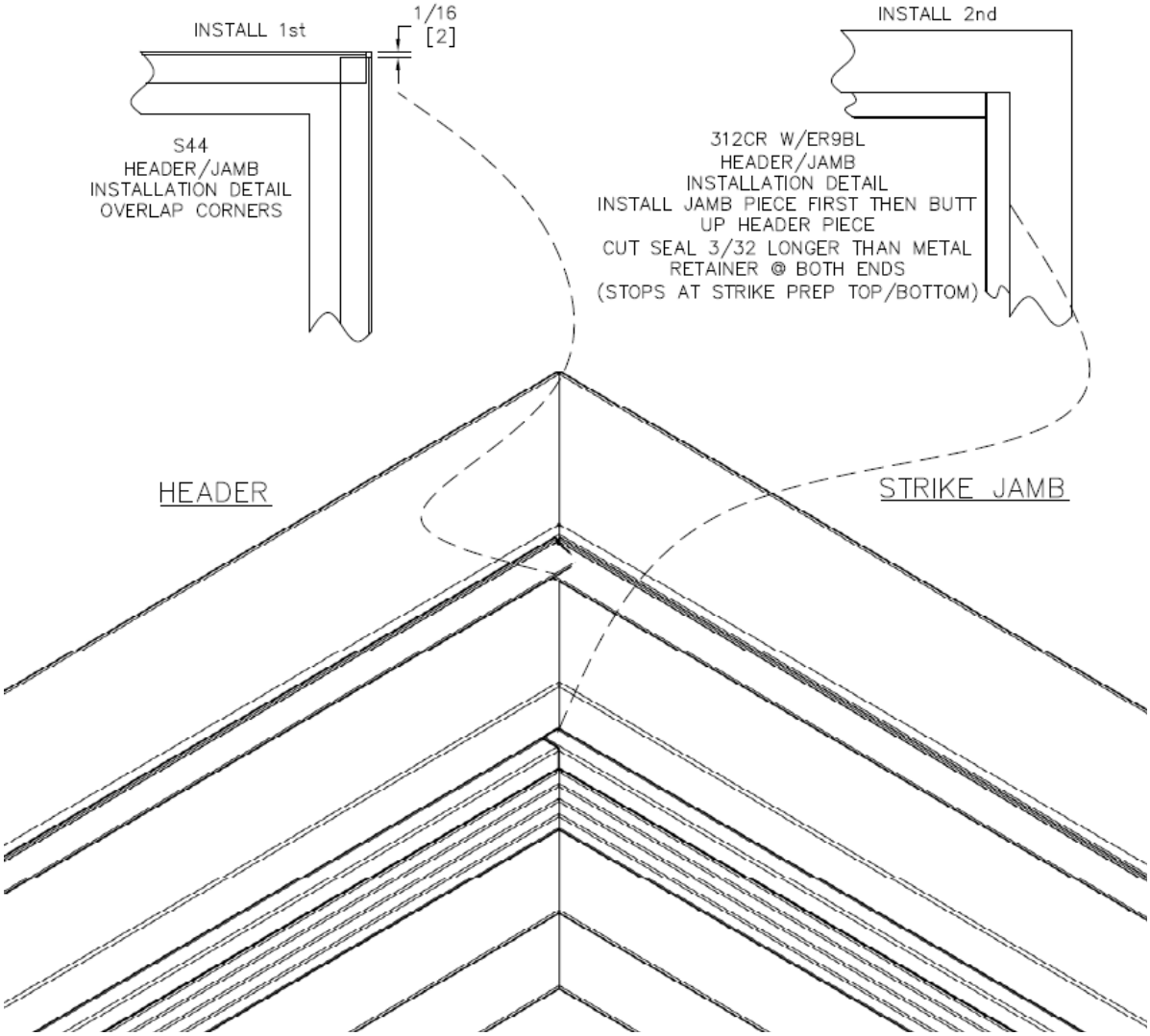
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ACOUSTIC GASKET SYSTEMS

Installation Instruction 120

Date: June, 2013

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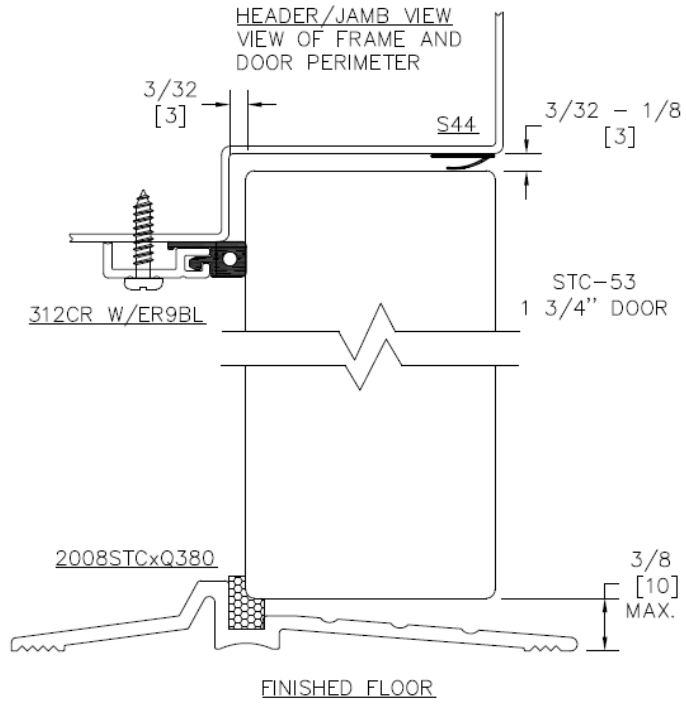
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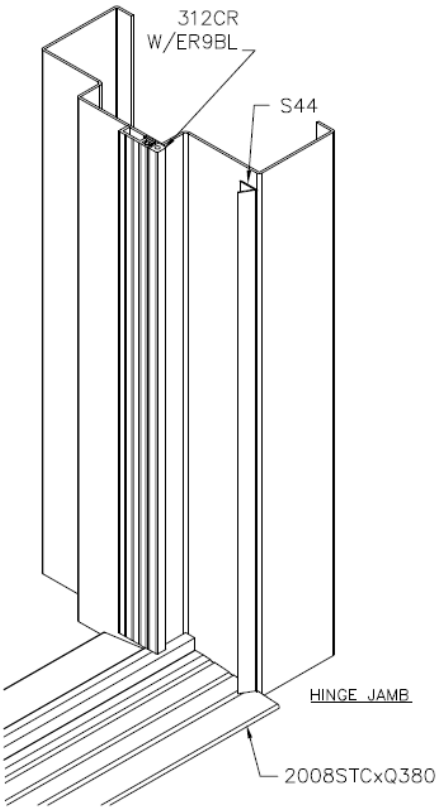
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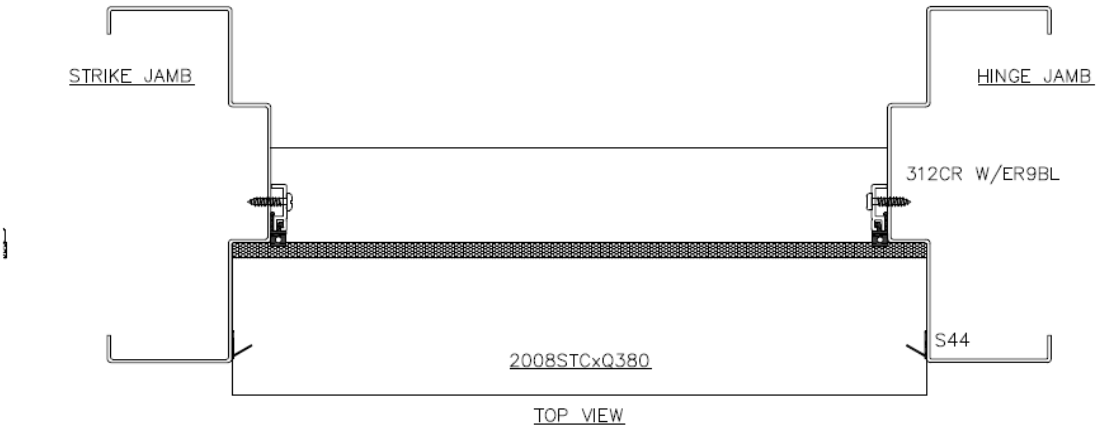
Installation Instruction 120

Date: June, 2013

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ACOUSTIC GASKET SYSTEMS
Installation Instruction 121

Date: June, 2013

Eggers Industries

Installation of Perimeter Seals: Gasket System T

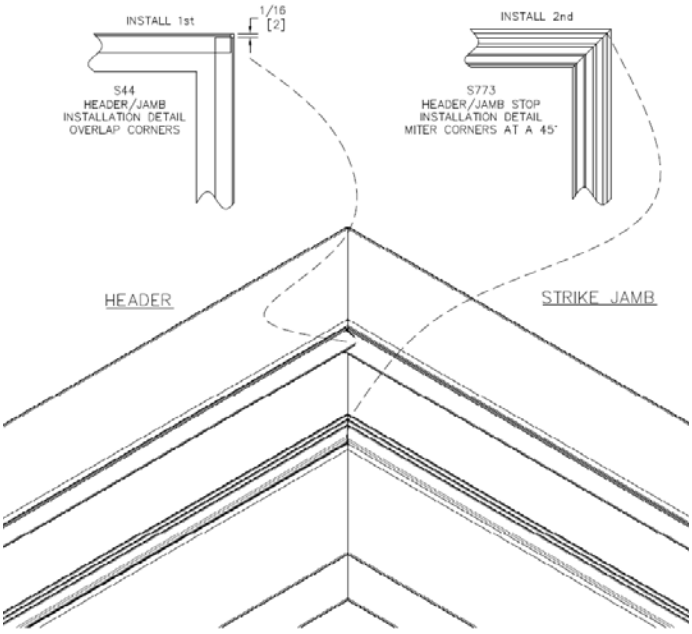
1. Hang the door and adjust for proper clearances.

2. Install the Pemko 2008STCxQ380 threshold within the opening. The threshold should be installed parallel to the bottom of the door, shimming if required. When properly installed there should be a 1/8" clearance between the bottom of the door and the threshold when the door is closed. The threshold seal should be in uniform contact with the door face and slightly compressed. A sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor/frame. Thresholds should not be mounted over carpeting as this will not allow a good seal.

3. Install a row of Pemko S44 seal to the leading edge of the jambs and the header.

4. Install a row of S773 to the header and jamb stop.

- Refer to drawings on following pages -



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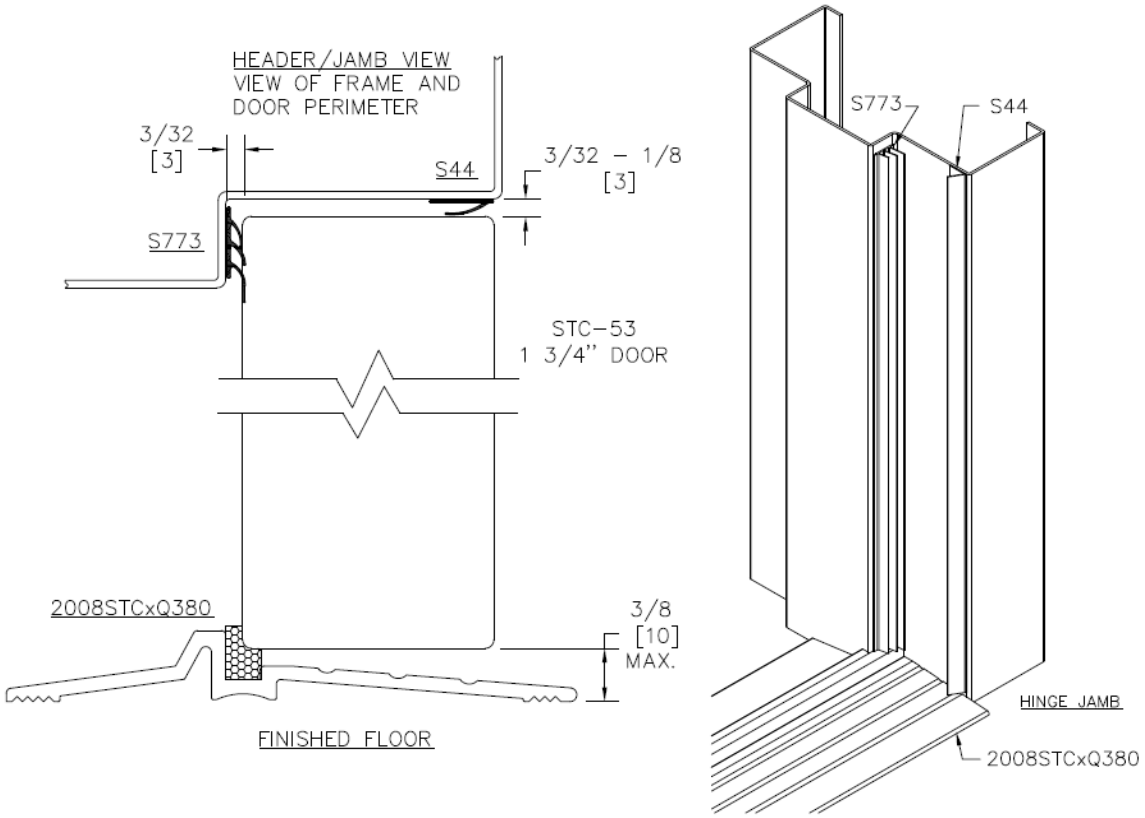
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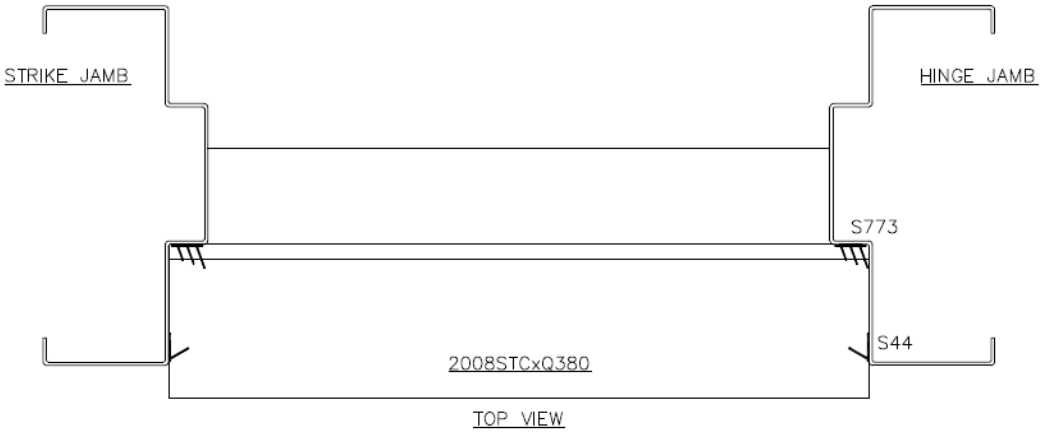
ACOUSTIC GASKET SYSTEMS

Installation Instruction 121

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ACOUSTIC GASKET SYSTEMS

Installation Instruction 122

Date: June, 2013

Eggers Industries

Installation of Perimeter Seals: Gasket System U

1. Install the PDB411AE door bottom in the machined channel. Door bottom should extend the full door width.

2. Hang the door and adjust for proper clearances.

3. Install a row of Pemko S44 seal to the leading edge of the jambs and the header.

4. Install a row of S773 to the header and jamb adjacent to the stop.

5. Attach the ACP112 pad between the S44 and S773 at the bottom of the frame jambs, trimming the S773 as required.

- Refer to drawings on following pages –

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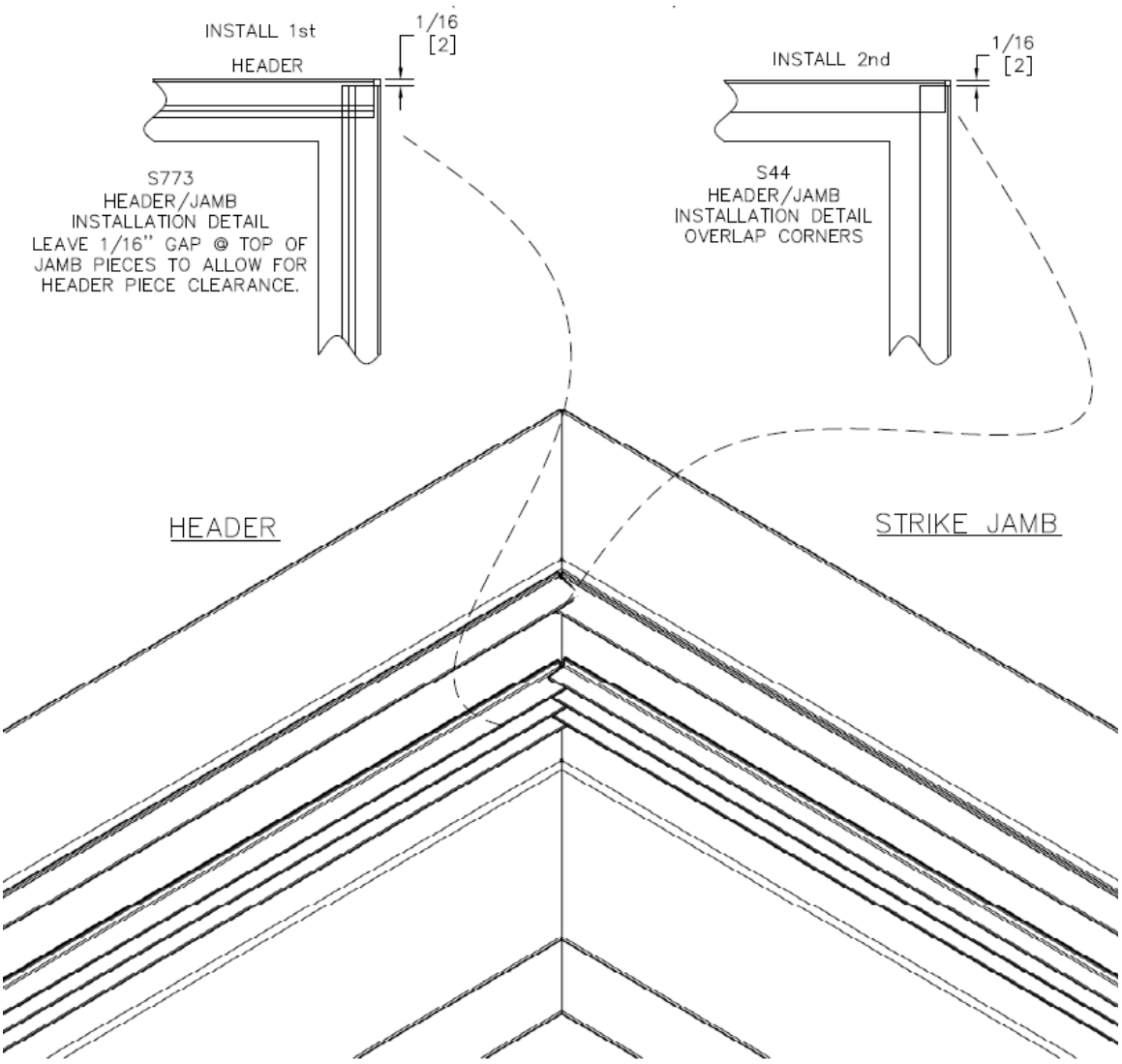
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Installation Instruction 122

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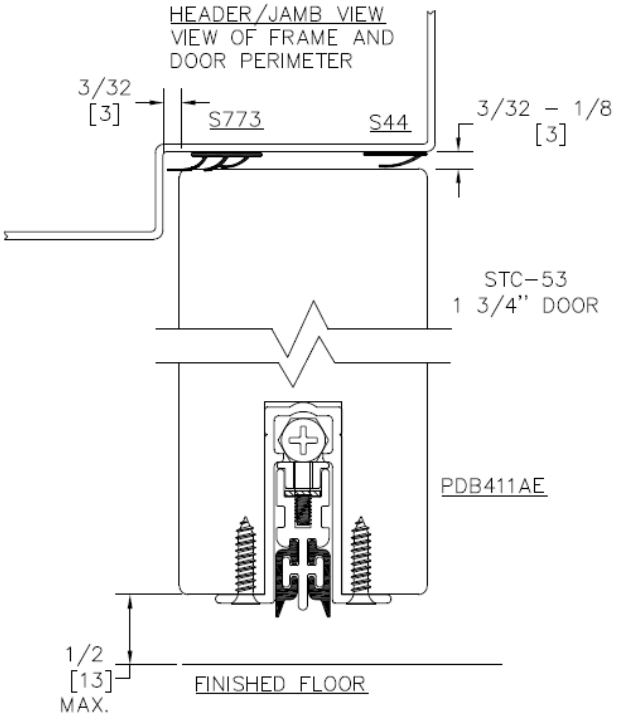
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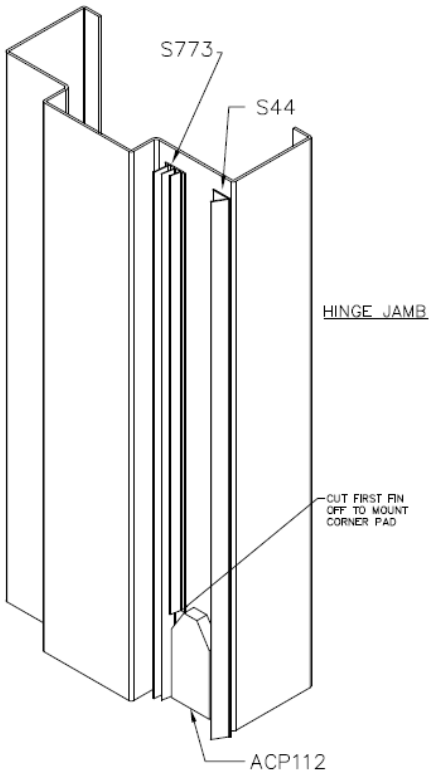
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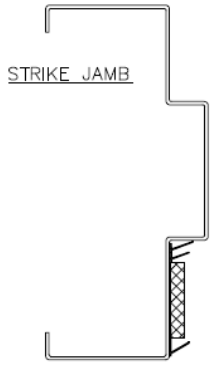
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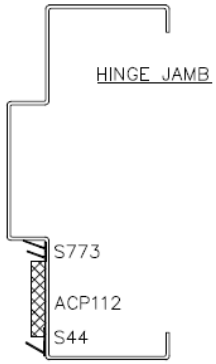
Date: June, 2013

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TOP VIEW

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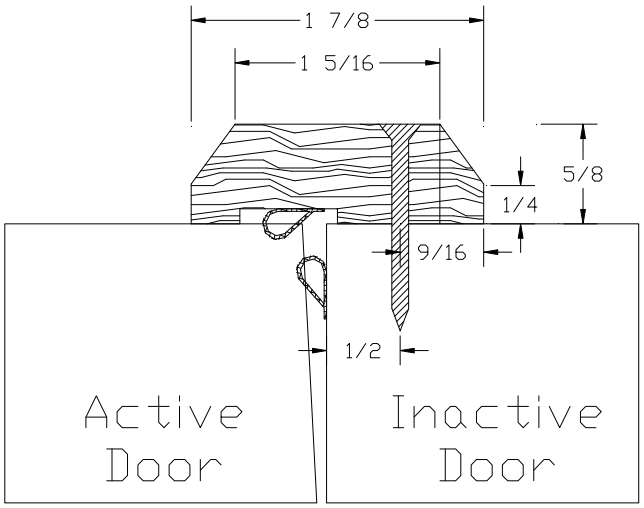
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Installation of Acoustic Wood Astragals
Installation Instruction 104

Date: July, 2012

Eggers Industries

Where acoustic doors are hung as active/inactive pairs the normal method of sealing the meeting edges is by use of an overlapping wood astragal and two rows of Pemko S-88. The astragal (shown below) is typically attached to the inactive leaf on the push side of the opening. Locate one screw in the top and bottom 6” of the astragal with no more 18” between additional screws. Use 1-1/2” long threaded to the head wood screws and pre-drill pilot holes. Apply the S-88 seals as shown below, making sure the bubble makes good contact with the opposing leaf.



NOTE: Gaskets shown in non-compressed position

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Care, Handling, and Maintenance

Installation Instruction 101

Date: September 2017

Eggers Industries

The information included in this guideline is presented to help maintain your high quality wood doors. It includes the same basic information published by the Window and Door Manufacturers Association in Industry Standard I.S.-1A, as well as additional instructions specific to maintaining specialty doors.

STORAGE AND HANDLING

1. Store doors flat on a level surface in a dry, well-ventilated building. Doors should be kept at least 4 in. (102 mm) off the floor and should have protective coverings under the bottom door and over the top. Covering should protect doors from dirt, water, and abuse but allow for air circulation under and around the stack.
2. Avoid exposure of interior doors to direct sunlight. Certain species (e.g., cherry, mahogany, walnut, and teak) are more susceptible to discoloration if exposed to sunlight or some forms of artificial light.
3. Do not subject interior doors to extremes of heat and/or humidity. Do not allow doors to come in contact with water. Buildings where humidity and temperature are controlled provide the best storage facilities (recommended conditions 25%-55% RH and 50°F-90°F (10°C to 32°C).
4. Do not install doors in buildings that have wet plaster or cement. Do not store doors in buildings with excessive moisture content – HVAC systems should be operating and balanced.
5. Doors should always be handled with clean dry hands or while wearing clean dry gloves.
6. Doors should be lifted and carried when being moved, not dragged across one another.

FINISHING

Eggers recommends factory finishing to insure the most durable surface and uniform appearance. Factory finishing will also slow the response to changes in humidity. The following points provide guidance for doors being field finished.

1. Wood is hygroscopic and dimensionally influenced by changes in moisture content caused by changes within its surrounding environment. To assure uniform moisture exposure and dimensional control, all surfaces must be finished equally.
2. Doors should not be considered ready for finishing when initially received. Before finishing, remove all handling marks, raised grain, scuffs, burnishes and other undesirable blemishes by block sanding all surfaces in a horizontal position with 150 or 180-grit sandpaper. Sanding of the overall surface will be required to open the veneer grain to receive a field applied finish evenly. To avoid cross grain scratches, sand with the grain.
3. Certain species of wood, particularly oak, may contain extractives which react unfavorably with foreign materials in the finishing system. Do not use steel wool on bare wood, rusty containers or any other contaminate in the finishing system.

4. A thinned coat of sanding sealer should be applied prior to staining to promote a uniform appearance and avoid sharp contrasts in color or a blotchy appearance. Eggers will not be responsible for the final appearance of field-finished doors. It is expected that the painting contractor will make adjustments as needed to achieve desired results.
5. The top and bottom rails are sealed at the factory. All other exposed, unfinished wood surfaces should be finished. Cutouts for hardware in exterior doors and doors located adjacent to areas where high moisture is expected should be sealed prior to installation of hardware.
6. Dark colored finishes should be avoided on all surfaces if the door is exposed to direct sunlight, in order to reduce the chance of warping or veneer checking.
7. Water-based coatings on unfinished wood may cause veneer splits, highlighted joints and raised wood grain. If used on exterior doors, the coating should be an exterior grade product. When installed in exterior applications, doors must be properly sealed and adequately protected from the elements. Refer to Eggers' warranty for protection requirements.
8. Be sure the door surface being finished is satisfactory in both smoothness and color after each coat. Allow adequate drying time between coats. Desired results are best achieved by following the finish manufacturer's recommendations.
9. Certain wood fire doors have fire retardant salts impregnated into various wood components. Lightly sand treated wood before finishing to remove any surface salt that may be present.

INSTALLATION

1. Eggers recommends factory machining of all doors to insure proper machining tolerances. All labeled doors are required to be machined under licensed inspection service by NFPA 80.
2. The utility or structural strength of the doors must not be impaired when fitting to the opening, in applying hardware, in preparing for lites, louvers, plant-ons or other detailing.
3. The general rule is to use two hinges for solid core doors up to 60 in. (1524 mm) in height, and an additional hinge for every 30 in. (762 mm) or fraction thereof. This matches the requirements for installing fire doors. Refer to Eggers warranty and approvals for special provisions. Consult hinge or pivot hardware manufacturer with regard to weight and size of hinges or pivots required.
4. The maximum clearance between the top, hinge edge and lock edge to the frame and meeting edge of pairs of doors, is 1/8 in. (3.2 mm). NFPA 80 allows a tolerance of +0 and -1/16″ to this dimension.
5. All hardware locations, preparations and methods of attachment must be appropriate for the specific door construction.
6. When lite or louver cutouts exist in exterior doors, they must be protected in order to prevent water from entering the door core.
7. Pilot holes must be drilled for all screws that act as hardware attachments. Full threaded screws should be used for fastening hardware to non-rated doors and are required on fire-rated doors. Eggers does not warrant the use of self-tapping or combination (wood/metal) screws for the attachment of hardware.

8. In fitting non-rated doors for height, do not trim top or bottom edge by more than 3/4 in. (20 mm) unless accommodated by additional blocking. Trimming of fire-rated doors must be in accordance with NFPA 80.
9. Doors and door frames should be installed plumb, square and level.

CLEANING AND TOUCHUP

1. Inspect all wood doors prior to hanging them on the job. Repair noticeable marks or defects that may have resulted from improper storage and handling.
2. Field repairs and touchups are the responsibility of the installing contractor upon completion of initial installation. Field touchup shall include the filling of exposed nail or screw holes, re-finishing of raw surfaces resulting from job fitting, repair of job inflicted scratches and mars and final cleaning of finished surfaces.
3. When cleaning door surfaces, use a non-abrasive commercial cleaner designed for cleaning wood door or paneling surfaces, that does not leave a film residue that would build up or affect the surface gloss of the door finish. Refer to Eggers' eiDoor Maintenance information bulletin for vinyl door requirements.

GENERAL ADJUSTMENT AND MAINTENANCE

1. Insure that all doors swing freely and do not bind in their frame. Adjust the finish hardware for proper alignment, smooth operation and proper latching without unnecessary force or excessive clearance.
2. Periodically inspect all doors for wear, damage and natural deterioration.
3. Periodically inspect and adjust all hardware to insure that it continues to function as it was originally intended.
4. Finishes on exterior doors may deteriorate due to exposure to the environment. See Eggers' warranty for refinishing requirements.

SPECIFIC ADJUSTMENT AND MAINTENANCE FOR ACOUSTIC DOORS

1. Fixed seals should be routinely wiped clean and inspected for damage. Components that are damaged or otherwise fail to provide a continuous seal between the door surface and fixed elements of the assembly should be replaced. Seals may be wiped with a silicone coated cloth to help reduce opening and closing friction.
2. Operational seals such as automatic door bottoms should be routinely wiped clean and inspected for damage. Damaged seals should be replaced. These components need to be checked for proper operation to insure they seal when the door is closed and retract when the door is opened to prevent wear or damage. Seals may require periodic adjustment, per the hardware manufacturer's instructions.
3. Extra attention should be given to the hinging, closing and latching hardware. Tighten or shim hinges, adjust closures, and adjust latch strikes as required to insure the door remains squarely in the opening and makes a uniform continuous contact with the acoustic seals.

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Fire Door Glazing Instructions

Installation Instruction 107

Date: June, 2013

Eggers Industries

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Pages	Installation Covered
2	Glazing 20 Minute Lites, including Full-Lites, with Pyroswiss-20 Glazing and Wood Beads
3-4	45-90 Minute Lites with Filmed or Laminated Ceramic Glazing and Veneer-Wrapped Beads
5-6	Glazing Instructions: 45-Minute, including Full-Lite, with Filmed or Laminated Ceramic Glazing and Wood Beads

***NOTE: The IBC does not allow an exception for the impact resistance for non-safety rated wired glass. All glazing used in fire doors must comply with CPSC 16 CFR1201, Category I or II, based on the application.**

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Glazing Instructions: 20-Minute Full-Lite with Pyroswiss-20 Glazing and Wood Beads

1. 20-Minute doors are supplied with the lite cutout pre-machined by Eggers Industries. The wood glazing bead will be mitered to fit and supplied loose.

2. Carefully remove the wood bead from the lite opening.

3. Lay the door flat, taking care to protect the surface from marring.


Fig 1

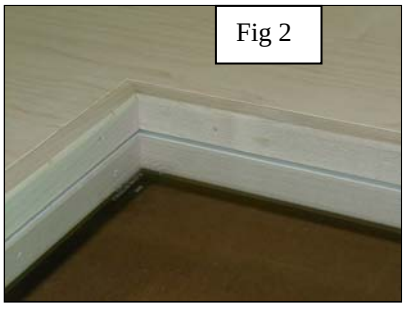
4. Secure the bead in one face of the lite opening using nails, supplied by the glazer, at least 1-3/16" in length and 18 gauge in diameter. Nails shall be located within 3" of the corners and no more than 6" between adjacent nails. (Fig 1). Pre-drill nail holes in the bead as required to prevent splitting.

5. Position the door so that the bead is at the bottom of the cut-out.

6. Position two 1/8" x 1/4" x 3" setting blocks (supplied with the glazing) at quarter points on the bottom of the lite opening (Fig 1)

7. Lay the glazing into the opening. It should be located against the setting blocks, leaving a gap between the glazing and cut-out of 1/8" at all four edges.

8. Position the remaining wood bead in the cut-out. The down-set of the beads will vary from door to door due to "tolerance stacking" of the door, wood bead and glazing dimensions. The wood beads have been profiled to allow a nominal 1/64" recess (down-set) at flush doors. If the recess is greater than this, a layer of appropriate thickness PVC glazing tape or a bead of 100% silicone caulk should be used between the back of the bead, and the glazing.


Fig 2

9. Secure the bead as described in step 4 above. (Fig 2).

10. Complete the installation by filling the nail holes with putty and sanding smooth.

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Date: June, 2013

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Glazing Instructions: 45-90 Minute Lites with Filmed or Laminated Ceramic Glazing and Veneer-Wrapped Beads

1. These doors are supplied with the lite cutout pre-machined by Eggers Industries. The perimeter of the cutout is machined with recessed pockets for 2-part metal glazing clips. The glazing clips and their nails (Fig 1), together with the bead nails, will be sent loose as an accessory kit. The veneer-wrapped glazing bead (Fig 2) will be mitered supplied loose.

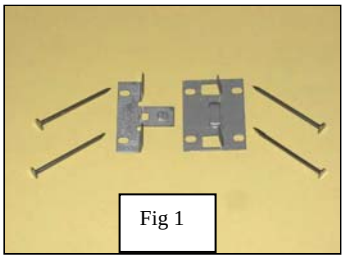


Fig 1

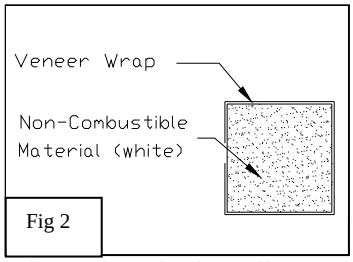


Fig 2

2. Carefully remove the wood bead from the lite opening. The glazing clip pockets are roughly centered within the door thickness.

3. Lay the door flat, taking care to protect the surface from marring.

4. Position the rectangular half of the glazing clip, with the tabs down, being sure it is centered within the door thickness. Secure it using two of the 1-9/16" long 4d nails inserted through the holes below the tabs (Fig 3). Where nails are hand driven into blocking, pre-drilling with a 5/64" bit is required. **Caution**: These clips are directional; insure correct positioning of the clips before beginning to nail them into place. **Note**: Clips are required in all of the machined pockets.

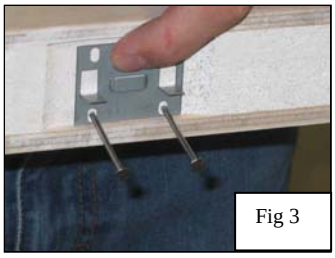


Fig 3

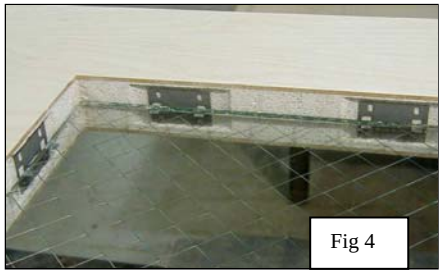


Fig 4

5. After installing the rectangular half of all of the clips in all of the pockets, position the glazing in the opening, resting it against the clip tabs (Fig 4).

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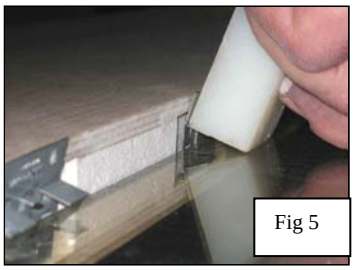
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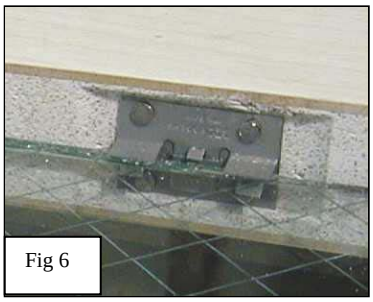
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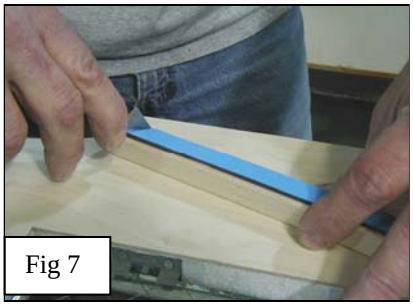

Fig 5

6. Install the second part of the clips by inserting the “tongue” into the raised slot until the locking tab engages (Fig 5).

7. Secure the second part of the clip to the cutout using two additional 1-9/16” nails. These nails should extend through the overlapping holes in both halves of the clips (Fig 6).


Fig 6

8. Attach double sided glazing tape to the back of the veneer wrapped bead, trimming it to match the mitered corners (Fig 7).


Fig 7

9. Position the wood bead in the cutout. The recess (down-set) of the beads will vary from door to door due to “tolerance stacking” of the door, wood bead and glazing dimensions. Because of this, the veneer-wrapped beads have been profiled to allow a nominal 1/32” recess after the glazing tape has been applied. If the recess is greater than this, thicker glazing tape may be used.

10. After satisfactorily positioning the glazing bead in the opening, secure it using one 16-gauge trim nail (or equivalent) centered between adjacent clips and at each end of the bead (Fig 8). **Note**: For hand nailing, use 2” long 6d finish nails and pre-drill the bead and any blocking material the nails will engage using a 5/64” bit is required.


Fig 8

11. Flip the door over and repeat steps 8, 9 and 10.

12. Putty and sand all nail holes before finishing.

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Fire Door Glazing Instructions

Installation Instruction 107

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Glazing Instructions: 45-Minute, including Full-Lite, with Filmed or Laminated Ceramic Glazing and Wood Beads

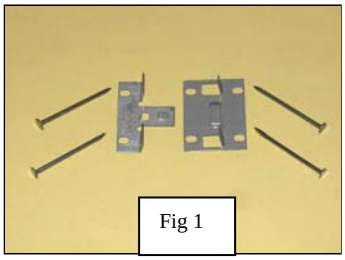


Fig 1

1. 45-Minute full-lite doors are supplied with the lite cutout pre-machined by Eggers Industries. The perimeter of the cutout is machined with recessed pockets for 2-part metal glazing clips. The glazing clips and their nails (Fig 1), together with the bead nails, will be sent loose as an accessory kit. The wood glazing bead will be mitered and supplied loose, with the required glazing tape applied (Fig 2).

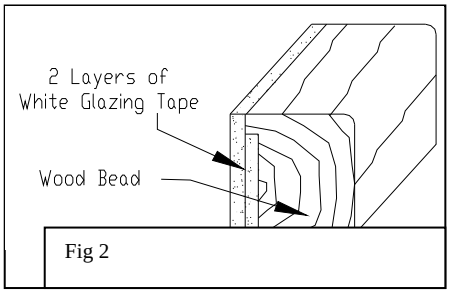


Fig 2

2. Carefully remove the wood bead from the lite opening. The glazing clip pockets are roughly centered within the door thickness.

3. Lay the door flat, taking care to protect the surface from marring.

4. Position the rectangular half of the glazing clip with the tabs down, being sure it is centered within the door thickness. Secure it using two of the 1-9/16” long 4d nails inserted through the holes below the tabs (Fig 3) Where nails are hand driven into blocking, pre-drilling with a 5/64” bit is required. **Caution**: These clips are directional; insure correct positioning of the clips before nailing them into place. **Note**: Clips are required in all of the machined pockets.

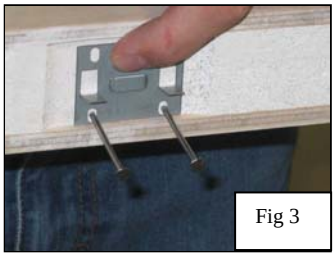


Fig 3

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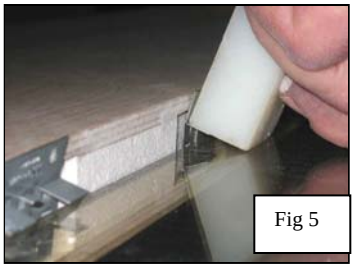
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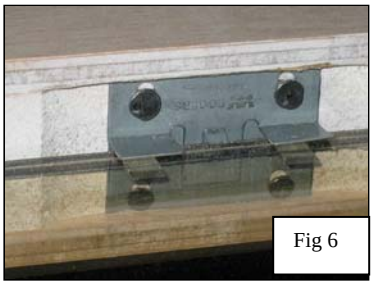
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Fig 4

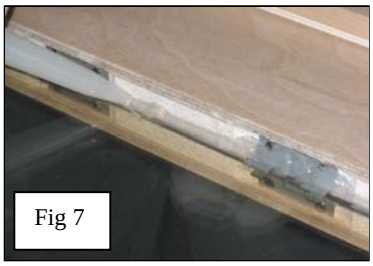
5. After installing the rectangular half of all of the clips in all of the pockets, position the glazing in the opening, resting it against the clip tabs (Fig 4).


Fig 5

6. Install the second part of the clips by inserting the “tongue” into the raised slot until the locking tab engages (Fig 5).


Fig 6

7. Secure the second part of the clip to the cutout using two additional 1-9/16” nails. These nails should extend through the overlapping holes in both halves of the clips (Fig 6).


Fig 7

8. Apply a bead of 100% silicone caulk around the perimeter of the glazing (Fig 7).

9. Position the wood bead in the cutout. The recess (down-set) of the beads will vary from door to door due to “tolerance stacking” of the door, wood bead and glazing dimensions. Because of this, the wood beads have been profiled to allow a nominal 1/32” recess. If the recess is greater than this, an additional bead of silicon can be added between the bead and glazing.

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10. After satisfactorily positioning the glazing bead in the opening, secure it using one two-inch nail (6d finish supplied or 16-gauge trim) centered between adjacent clips and at each end of the bead (Fig 8). Where nails are hand driven into blocking, pre-drilling with a 5/64” bit is required. **Note**: For hand nailing, pre-drilling the bead and any blocking material the nails will engage using a 5/64” bit is required.

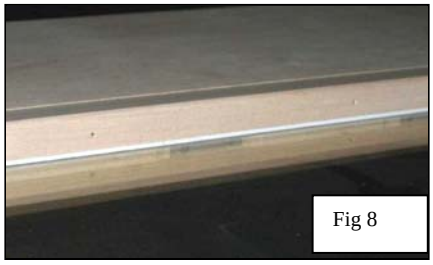


Fig 8

11. Flip the door over and repeat steps 8, 9 and 10.

12. Putty and sand all nail holes before finishing.

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4	45-90 Minute Applications (Single Swing and Pairs)
5	Dutch Doors and Door & Transom Applications
6	Auxiliary Fire Latches
7	UL Fire Label Information
8	Warnock Hersey Fire Label Information

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POSITIVE PRESSURE INSTALLATION INSTRUCTIONS

Retain these instructions. They will be required by the local code official or authority having jurisdiction (AHJ) to determine if the wood fire doors have been properly installed.

These instructions are required for the installation of fire doors that fall under the jurisdiction of building codes, including the International Building Code (IBC), which requires side hinged fire doors to meet positive pressure test methods.

These instructions cover the two parts of positive pressure testing, (1) fire resistance and (2) smoke control. All doors required to meet positive pressure must meet the specified fire resistance. The application and code determine if smoke control is also required. A brief description of each part, and the typical method of addressing it, are given below.

Part 1 – Fire Resistance:
Fire resistance requires the doors to pass the criteria of the positive pressure fire test method such as UL 10C or NFPA 252 (where the neutral plane is located at 40" above the sill). Doors that meet the fire resistance are designated as either Category A or Category B as described below. As seen in the descriptions, this designation indicates job-site actions required during the door installation.

CATEGORY "A": The door does not require any additional edge sealing system to meet fire resistance. This designation indicates the door has been specially manufactured to meet fire resistance, or has had the required edge sealing systems pre-installed in the door by the door labeler.

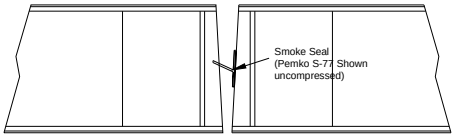
CATEGORY "B": The door requires additional edge sealing to meet fire resistance. This designation indicates the door will not meet fire resistance without the field application of an edge sealing material. This may involve an intumescent material, gasketing material, or combination of both.

Part 2 – Smoke Control:
Smoke control requires the doors to meet the air leakage criteria of UL 1784 or NFPA 105. This requirement is typically met by field application of a listed Category H gasketing material, indicating it has been evaluated for positive pressure. In some applications specific gasketing material may provide both the fire resistant edge seal and smoke control. The systems detailed in the following instructions are the systems provided with the doors if supplied by Eggers Industries.

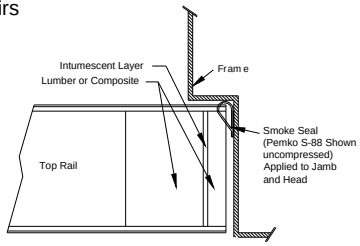
POSITIVE PRESSURE INSTALLATION INSTRUCTIONS
20 MINUTE APPLICATIONS

Category A

Meeting Edges of Pairs



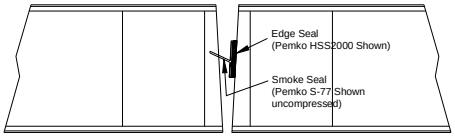
Singles and Hinge Edges of Pairs



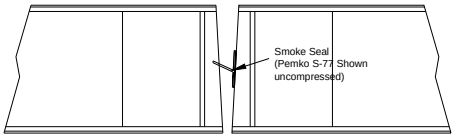
The smoke seal can be left out if smoke control ("S") is not required for Category A constructions.

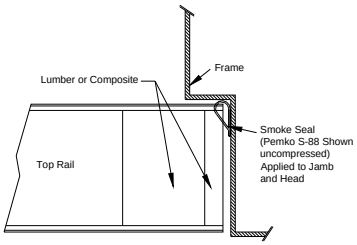
Category B

Meeting Edges of Pairs
(Category B)



Meeting Edges of Pairs
(Category A)





Singles and Hinge Edges of Pairs

The meeting edge gasketing can be left out if smoke control ("S") is not required. The frame gasketing is always required for Category B constructions.

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Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

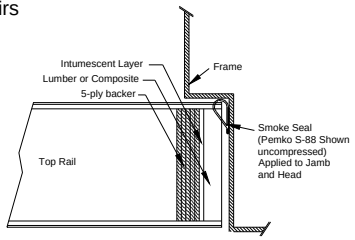
Architectural Veneer Faces, Custom Wood Products, Plywood

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2125 Lake Jericho Road
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POSITIVE PRESSURE INSTALLATION INSTRUCTIONS
45 -90 MINUTE APPLICATIONS

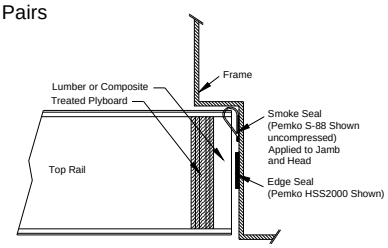
Category A

Singles and Hinge Edges of Pairs



Category B

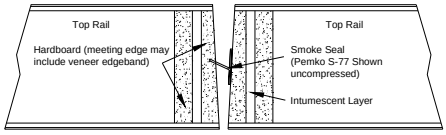
Singles and Hinge Edges of Pairs



The smoke seal can be left out if smoke control ("S") is not required.

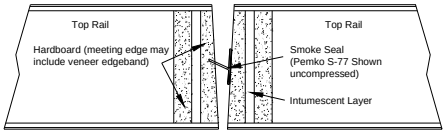
Category A

Meeting Edges of Pairs

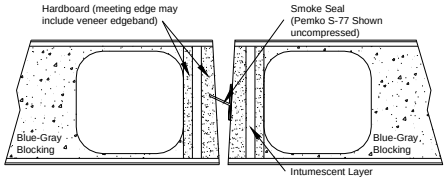


Full or partial height metal edges optional over the edges without additional intumescent

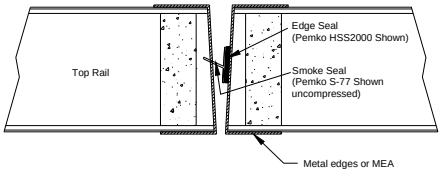
Category B



Full or partial height metal edges optional over the edges without additional intumescent



CVR applications (latch machining will vary)



The meeting edge gasketing can be left out if smoke control ("S") is not required.

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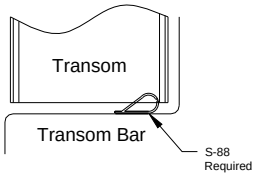
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164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces, Custom Wood Products, Plywood

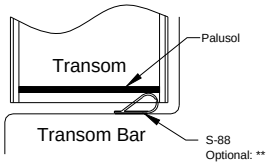
Kentucky Division
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Phone: 502.845.0154
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POSITIVE PRESSURE INSTALLATION INSTRUCTIONS DOOR/TRANSOM COMBINATIONS AND DUTCH DOORS

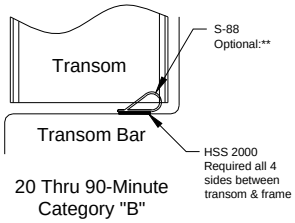
STRAIGHT CUT WITH HORIZONTAL TRANSOM BAR



20-Minute
Category "B"

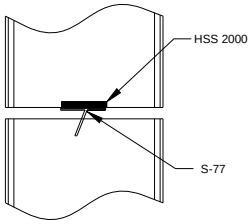


20 Thru 90-Minute
Category "A"

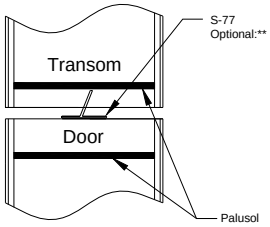


20 Thru 90-Minute
Category "B"

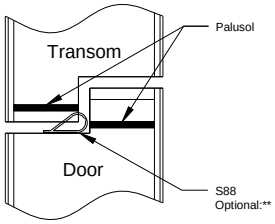
Category "A"



20-Minute
Dutch Door

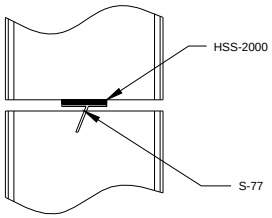


20 Thru 90-Minute
Straight Cut
Door & Transom

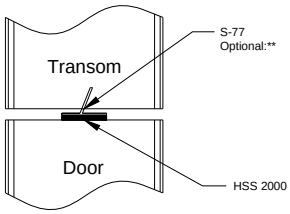


20 Thru 90-Minute
Rabbetted
Door & Transom

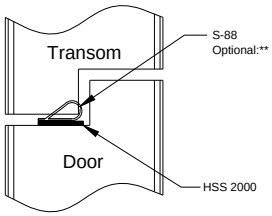
Category "B"



20-Minute
Dutch Door



20 Thru 90-Minute
Straight Cut
Door & Transom



20 Thru 90-Minute
Rabbetted
Door & Transom

** Smoke seal is required by code for "S" label.

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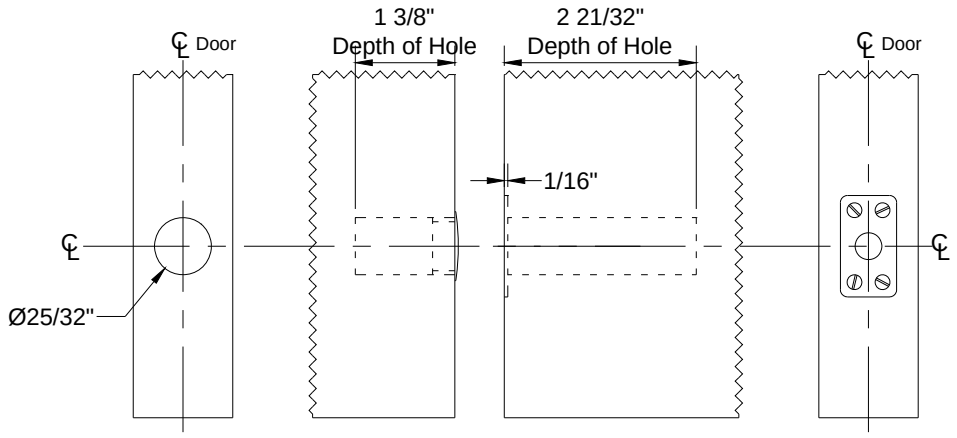
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POSITIVE PRESSURE INSTALLATION INSTRUCTIONS

AUXILIARY FIRE LATCH



STRIKE LATCH

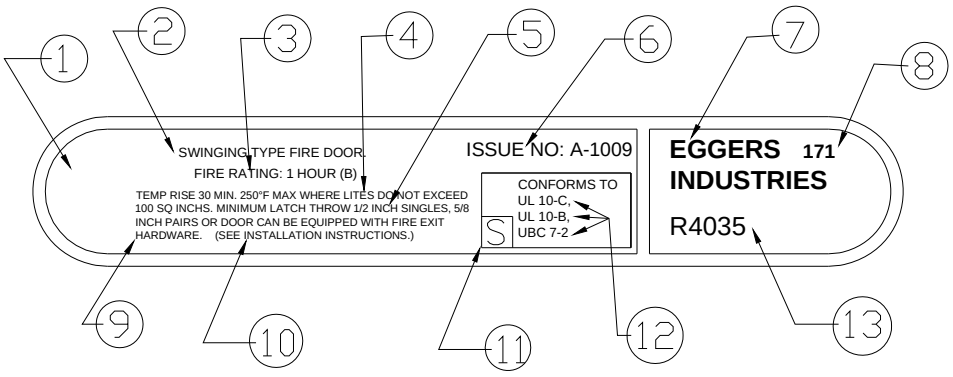
Several options are approved in our fire door procedures allowing auxiliary fire latches to be used in place of, or in addition to, bottom latching flush bolts, surface vertical rods, or concealed vertical rods. Where approved the fire door will be machined for the required fire latches.

The required latches are shipped in an accessory pack along with the doors, and must be installed to insure the fire protection rating. When the fire latches are required between the meeting stiles of pair doors the latch will be pre-machined in one door and the strike in the other door. Where the latch is required between the rail and floor, rail and frame header, or stile and frame jamb a corresponding strike must be machined in that surface opposite the fire latch. The strike hole should be covered with the plastic cap provided. Alternately, a dust proof strike of equal diameter may be used.

Note: Some hardware is furnished with its own auxiliary fire latches, and recommended fire latch locations. Where those locations or latch sizes vary from the door machining, the door machining takes precedence, and the hardware supplied with the door is to be used.

POSITIVE PRESSURE INSTALLATION INSTRUCTIONS

INFORMATION FOUND ON AN UNDERWRITERS LABORATORY LABEL



1. UL CLASSIFIED MARKING - Authorized mark verifying approval of label content
2. UL CATEGORY - Indicates product type
3. UL FIRE RATING - Hourly approval
4. TEMPERATURE RISE RATING - indicates the maximum temperature of the door face
5. MINIMUM LATCH THROW REQUIRED ON LOCK/LATCH.
6. MANUFACTURERS PERMANENT ISSUE NUMBER - This UL issued number indicates the label category. It replaces the earlier design using sequencial numbering.
7. MANUFACTURES NAME.
8. MANUFACTURES PART NUMBER.
9. STATES IF THE DOOR IS ELIGIBLE FOR FIRE EXIT HARDWARE.
10. REFERENCE TO INSTALLATION INSTRUCTIONS - Per code requirement, a packet of instructions are shipped with each fire door order. these are to aid the installer and are to be retained for the Authority Having Jurisdiction (AHJ) to use in determining code compliamce.
11. "S" MARK - Indicates the opening will meet smoke control requirements when gasketed per the installation instructions.
12. CONFORMANCE - Identifies the standard test methods the door has been evaluated to.
13. UL FILE NUMBER - The UL file established to document manufacturing approvals.

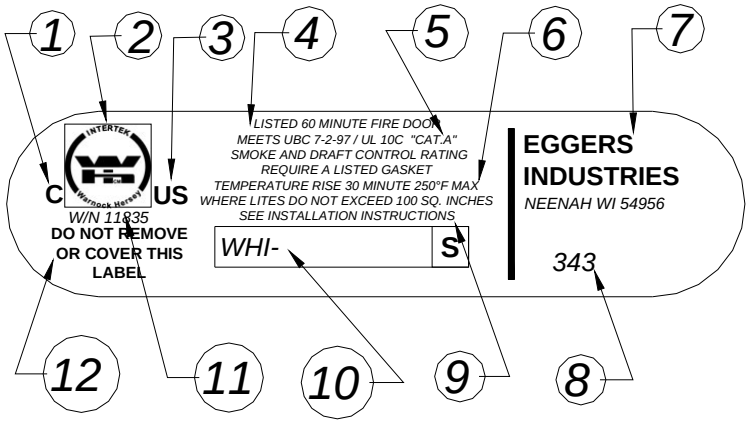
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INFORMATION FOUND ON A WARNOCK HERSEY LABEL



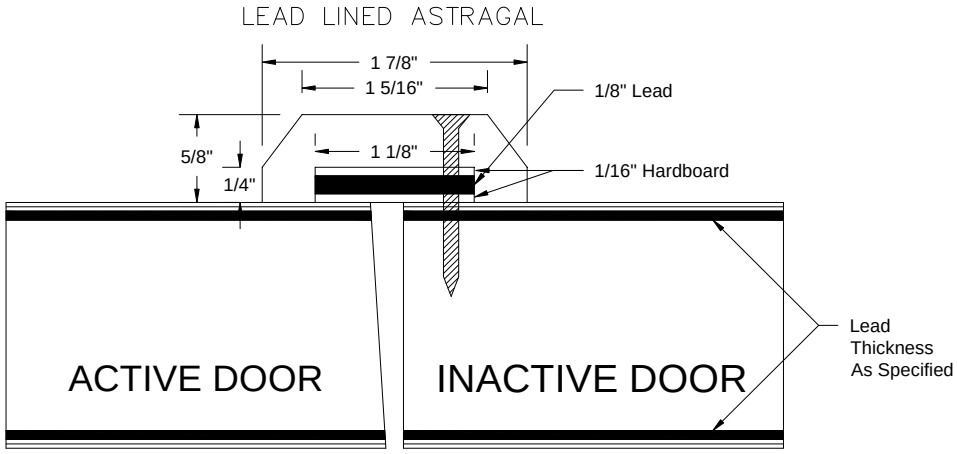
1. *Country identifier "C" for Canada and Hose Stream.*
2. *Warnock Hersey Certification Mark.*
3. *Country identifier "US" for United States.*
4. *LISTED, Fire Rating & Category "FIRE DOOR".*
5. *Positive Pressure & Smoke and Draft Control.*
6. *Limitation if a Temperature Rise door is required.*
7. *Listee's name and location.*
8. *Manufactures part number.*
9. *Due to changes in fire codes a set of Installation Instructions are sent with each order of fire doors. These instructions are to aid the authority having jurisdicion (AHJ) in determining if the opening is in code compliance.*
10. *Serial Number.*
11. *Intertek part number.*
12. *DO NOT REMOVE OR COVER THIS LABEL.*

Installation of Lead-Lined Wood Astragals
Installation Instruction 103

Date: July, 2012

Eggers Industries

Where lead lined doors are hung as active/inactive pairs the normal method of shielding the meeting edge gap is by use of an overlapping wood astragal lined with lead. The astragal (shown below) is typically attached to the inactive leaf on the push side of the opening. Locate one screw in the top and bottom 6” of the astragal with no more 18” between additional screws. Use 1-1/2” long threaded to the head wood screws and pre-drill pilot holes.



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Flush Doors

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Neenah, WI 54956
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Fax: 920.722.0357

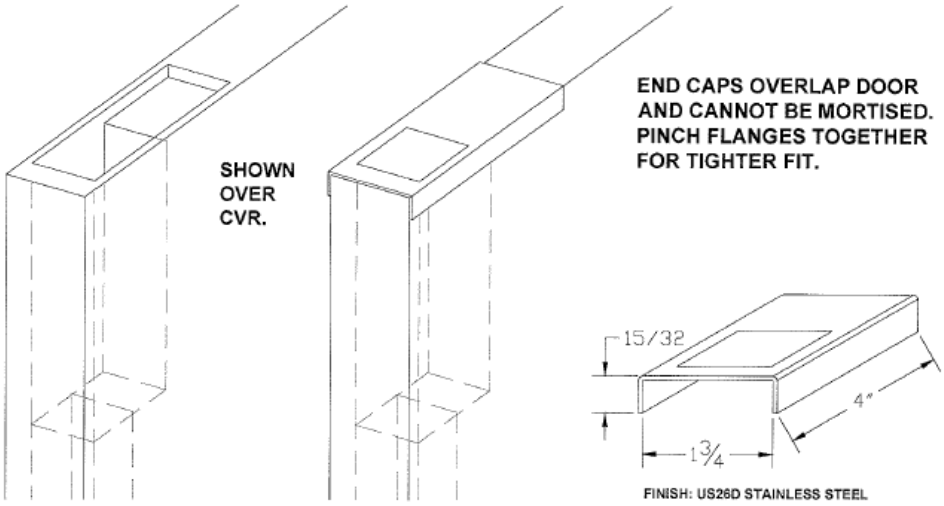
Architectural Veneer Faces, Custom Wood Products, Plywood

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INSTALLATION INSTRUCTIONS FOR METAL END CAPS FOR USE WITH CORNER MORTISED FLUSH BOLTS AND VON DUPRIN CVR HARDWARE

Note: This cap is not required for fire approval

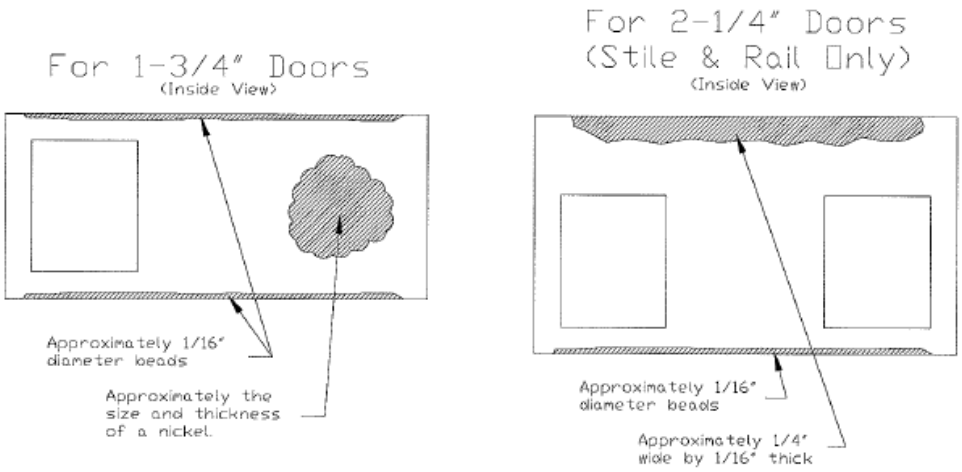
The caps described on this installation sheet must be attached to the top rail of doors machined for corner mortised flushbolts and Von Duprin CVR hardware to maintain warranty coverage. Eggers developed the stainless steel "end cap" to provide additional strength and to help prevent damage when these hardware applications are required. These caps were designed to be pinch fitted to the top rails and allow the latching bolt to project through the hole.



The instructions on the reverse side of this sheet describe the recommended method to provide permanent attachment of the cap for top and, optionally, bottom rail applications. These instructions assume clearances of at least 1/16" between the door and frame or sill. Adjust for proper clearance as needed before attaching the cap(s).

These instructions assume clearances of at least 1/16" between the door and frame or sill. Adjust for proper clearance as needed before attaching the cap(s).

1. Dry-fit the cap on the door, pinching or spreading the legs as needed to get a snug fit. Sanding the door edge lightly to increase the ease may provide a closer fit.
2. Mix an appropriate amount of 5-minute epoxy to cover to the shaded area of the cap (see drawings below).
3. Apply epoxy to the underneath corners and surface of the cap as shown below. Note the difference in application required based on the door thickness.
4. Apply the cap to the door using sufficient pressure to seat the cap tightly to the door rail. Failure to seat the cap tightly to the rail may result in binding.
5. Secure the cap in position, using "painters" masking tape, until the adhesive is cured.
6. Remove the tape and clean the door surface.



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Smoke Partition Doors

Installation Instruction 105

Date: August, 2012

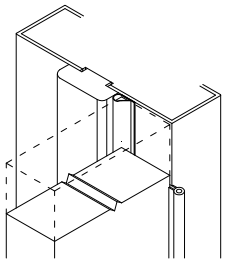
Eggers Industries

Doors intended for use in Smoke Partitions are, by code, non-rated". The label they bear indicates compliance with air leakage testing per UL-1784 only.

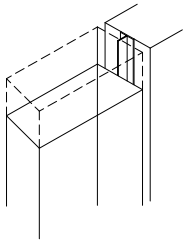
To comply with air leakage requirements a smoke control seal must be installed within the door-to-frame clearance as well as between leaves of pair doors or meeting rails of Dutch doors and door / transom assemblies.

The drawings below show typical installations. The seals indicated are for example, and any Category G smoke and draft control seal may be used. Different types of seals offer different advantages for specific applications. This instruction is not intended as a guide to the type of seal used for any specific opening.

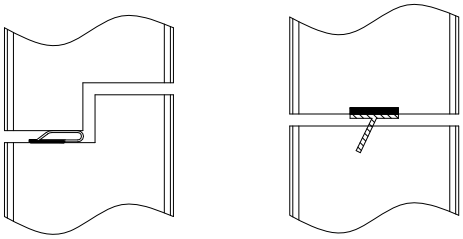
Door to Frame Seal



Seals between meeting edges of pair doors



Seals between meeting rails (Dutch doors or Door/Transom assemblies)



Eggers Industries

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email: sales@eggersindustries.com

Steel Frame Installation for Acoustic Doors

Installation Instruction T-102

Date: December, 2011

Eggers Industries

This instruction is provided as a guide for the installation of steel frames for use with Eggers acoustic doors. These instructions provide important details to insure an opening that will maintain the tested STC rating. They are not intended as a step-by-step instruction, and assume installer qualification and experience.

Most of Eggers acoustic doors have been tested in solid grouted steel frames. Specific applications or ratings may be installed in insulation-filled frames. See Eggers product offering chart for options.

1. Insure the frame is properly dimensioned for the ordered door size. The opening width at the header must be 1/8” wider than the door (+/- 1/16”) to insure proper sealing and fit.
2. The spreader bar typically supplied in the frame is primarily for shipping. It should be removed prior to installation.
3. Do not install frames that are damaged, twisted or warped.
4. Frames must be installed plumb, square and without twist to insure proper operation and sealing.
5. The floor, sill or threshold provide the fourth side of the opening and must be level and perpendicular to the frame jambs.
6. The frame must be filled with masonry grout or mineral wool as required by the STC rating (see Eggers product offering chart).
7. The frame must be securely anchored within in the opening to prevent movement or sagging when the door is installed and operated.
8. All joints between the frame and wall and between the sill (or threshold) and floor must include a continuous seal with an acoustic sealant.

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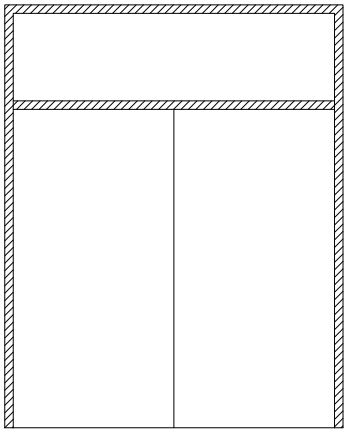
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Fax: 920.722.0357

email: sales@eggersindustries.com

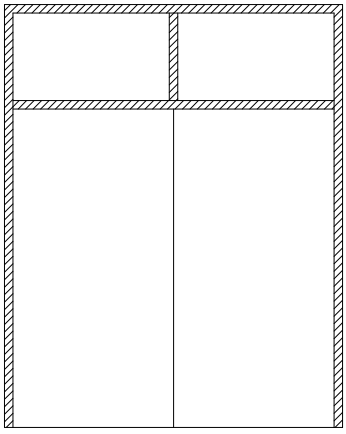
This bulletin addresses construction and installation details.
See product catalog for current sizes available.

Labeling



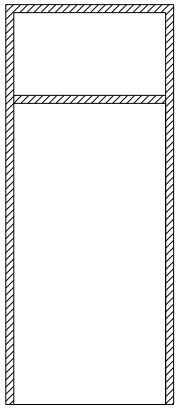
Pair doors with a full-width transom, separated by a transom bar:

1. Doors may be rated 45 thru 90 minutes. Transom can be construction tagged but not labeled.
2. 20-Minute full width transom can be labeled by UL only with or without a transom bar also can be rabbetted.
3. Available in neutral pressure or positive pressure Cat A or Cat B.



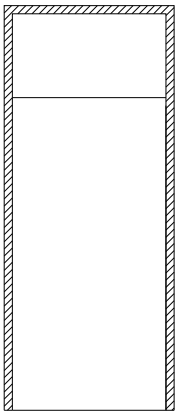
Pair doors with a split transom; doors and transoms separated by a transom bar:

1. Both the doors and transoms may be labeled for 20 thru 90 minutes.
2. Available in neutral pressure or positive pressure Cat A or Cat B.



Single door and transom separated by a transom bar:

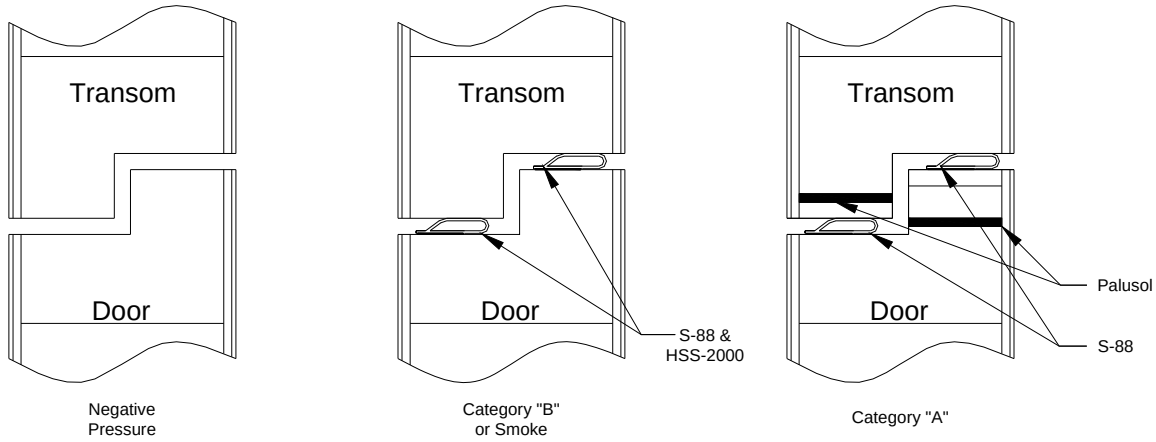
1. Both the doors and transoms may be labeled for 20 thru 90 minutes.
2. Available in neutral pressure or positive pressure Cat A or Cat B.



Rabbeted single door and transom:

1. Both the doors and transoms may be labeled for 20 thru 90 minutes.
2. Available in neutral pressure or positive pressure Cat A or Cat B.
3. When core is other than SCL and the closer will be screw attached to the transom, the transom requires a 5” bottom rail or 5” bottom blocking.

Gasketing



Clearances

	+ Pressure (A or B)	Non-Rated and Neutral Pressure
Transom with Transom Bar	1/4" width, 1/4" height	1/8" width, 1/8" height
Flat Cut Transom no Transom Bar	1/4" width, 1/8" height*	1/8" width, 1/16" height*
Rabbetted Cut Transom no Transom Bar	1/4" width, 1/8" height* (plus 1/2" for the rabbet)	1/8" width, 1/16" height* (plus 1/2" for the rabbet)

*The height clearance is for the transom to frame, the clearance between the door and transom are accounted for in the door trimming.

Lites in Labeled Transoms

1. Available with UL labels only for 20-90 minutes.
2. 20-minute transoms must have 5” from edge of door to edge of cutout.
3. 45, 60, 90 minute transoms must have 5 ½” from cutout to edge of door.
4. You could have multiple lites but margins must be adhered to.
5. Maximum height and square inches must be adhered to.
6. Any lite kit wood beads, veneered label beads, MVP’s can be used with the same restrictions as in doors.

Applied Molding on Labeled Transoms

1. Available with UL only for 20-90 minutes.
2. Untreated wood 1 ½” high maximum x 6” wide maximum x varying lengths.
3. No maximum area of coverage.
4. If the transom has lites, the molding can cover the bead. In this case the transoms would be required to be factory glazed.

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CHEMICAL OR COMMON NAME CAS #	%	EXPOSURE LIMITS
Wood CAS # None	75-93	OSHA PEL-TWA 5mg/m^3 (a) OSHA PEL-STEL 10mg/m^3 (a) ACGIH TLV-TWA 1mg/m^3 (b) WISHA PEL-TWA 5mg/m^3 (c) WISHA PEL-TWA 2.5mg/m^3 (d)
Door Faces • Wood CAS # None • Paper (cellulose) CAS #9004-34-6 • Plastic CAS # None	~ 17	See Above OSHA PEL-TWA 15mg/m^3 (e) OSHA PEL-TWA 5mg/m^3 (f) ACGIH TLV-TWA 10mg/m^3 (e) OSHA PEL-TWA 15mg/m^3 (e) OSHA PEL-TWA 5mg/m^3 (f) ACGIH TLV-TWA 10mg/m^3 (e)
Resin Solids (PVA) Vinyl Acetate CAS # None	<1	OSHA PEL-TWA – Not established ACGIH TLV-TWA 10 ppm (g) ACGIH TLV-STEL 15 ppm (g)

(a) softwood or hardwood total dust
(b) selected hardwood total dust beech, oak
(c) non-allergenic total dust
(d) allergenic total dust
(e) total dust
(f) respirable dust
(g) free gaseous formaldehyde

Appearance and Odor: Doors with a variety of grain patterns and hues. The products have a slight aromatic odor. Wood component may contain alder, ash, aspen, basswood, beech, birch, bubinga, cherry, chestnut, cottonwood, cypress, elm, fir, gum, hemlock, hickory, koa, mahogany (true or false), mansonia, maple, oak (red or white), pine, poplar, spruce, teak and/or walnut.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (F or C)	NAP
Vapor Pressure (mm Hg)	NAP
Vapor Density (Air=1)	NAP
Specific Gravity (H_2O=1)	0.40-0.80
Melting Point (F or C)	NAP
Evaporation Rate (Butyl Acetate=1)	NAP
Solubility in Water	<0.1%
% Volatile by Volume @ 70□F	0

FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): NAP

Flammable Limits:

LEL: See below under "Unusual Fire and Explosion Hazards"
UEL: NAP

Extinguishing Media: Water, carbon dioxide, sand

Autoignition Temperature (F or C): 400°F - 500°F (204°C - 260°C)

Special Firefighting Procedures: None

Unusual Fire and Explosion Hazards: Depending on moisture content and—more importantly—particle diameter, wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts.

REACTIVITY DATA

Stability: ( ) Unstable (X) Stable

Conditions to Avoid: NAP

Incompatibility (Materials to Avoid): Avoid contact with oxidizing agents. Avoid open flame. Product may ignite at temperatures in excess of 400□ F.

Hazardous Decomposition or By-Products: Depending on moisture content, availability of oxygen and temperature, thermal decomposition products include carbon monoxide, carbon dioxide, water, various aldehydes (both aliphatic and aromatic), tars and carbon.

Hazardous Polymerization: ( ) May Occur (X) Will Not Occur

Conditions to Avoid: NAP

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Not applicable for product in purchased form. Wood, paper or plastic dust(s) generated from sawing, sanding, drilling or routing of this product may be vacuumed or shoveled for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA approved respirator and goggles where ventilation is not possible.

Waste Disposal Method: Dry land disposal is acceptable in most states if disposed of or discarded in its purchased form. It is, however, the user's responsibility to determine at the time of disposal whether their product meets RCRA criteria for hazardous waste. Follow applicable federal, state and local regulations.

Precautions to be Taken in Handling and Storage: No special handling precautions are required. Keep in cool, dry place away from open flame. This product may release small amounts of gaseous formaldehyde. Store in well-ventilated area.

Other Precautions: A NIOSH/MSHA approved respirator and goggles should be worn when the allowable exposure limits may be exceeded.

HEALTH HAZARD DATA

Primary Health Hazards: The primary health hazards posed by this product are thought to be due to exposure to wood dust or free gaseous formaldehyde.

Primary Route(s) of Exposure:

( ) Ingestion
(X) Skin (Dust)
(X) Inhalation (Dust or Gas)

Acute Health Hazards: *Signs and Symptoms of Exposure—Emergency and First Aid Procedures.*

- INGESTION: Not applicable under normal use.
- EYE CONTACT: Gaseous formaldehyde may cause temporary irritation or a temporary burning sensation. Wood, paper or plastic dust(s) may cause mechanical irritation as a foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.
- SKIN CONTACT: Gaseous formaldehyde may cause allergic contact dermatitis in sensitized individuals, resulting in redness, itching and occasionally hives. Wood dust(s) of certain species may elicit allergic contact dermatitis in sensitized individuals, as well as mechanical irritation resulting in erythema and hives. Get medical help if rash, irritation, or dermatitis persists.
- SKIN ABSORPTION: Not know to occur with normal use.
- INHALATION: High concentrations of wood, paper or plastic dust(s) may cause unpleasant deposit/obstruction in the nasal passages, resulting in runny nose, dry cough and/or sneezing. Gaseous formaldehyde may temporarily irritate the nose and throat, and may aggravate preexisting respiratory conditions depending on the level of exposure. Remove to fresh air. Get medical help if persistent irritation, severe coughing or breathing difficulty occurs.

Medical Conditions Generally Aggravated by Exposure: Wood dust may aggravate preexisting respiratory conditions or allergies.

Chronic Health Hazards: Gaseous formaldehyde has been shown to cause cancer in certain laboratory animals after long-term exposure to very high concentrations (14+ppm), far above those normally found in the workplace with this product. Wood dust(s), depending on the species (for example, iroko, cocobolo), may cause allergic contact dermatitis with prolonged, repetitive contact, and respiratory sensitization after prolonged exposure to elevated dust levels (for example, western red cedar). Wood dust has been alleged to cause nasal/paranasal sinus cancer (certain European hardwoods: oak and beech).

Carcinogenicity Listing:

(X)	NTP	Formaldehyde
(X)	IARC Monographs	Formaldehyde
(X)	OSHA Regulated	Formaldehyde

CONTROL MEASURES - Personal Protective Equipment

- RESPIRATORY PROTECTION: Not applicable for product in purchased form. A NOSH/MSHA approved respirator is recommended when allowable exposure limits may be exceeded.
- PROTECTIVE GLOVES: Not required. However, cloth, canvas or leather gloves are recommended to minimize potential mechanical irritation from handling product.
- EYE PROTECTION: Not applicable for product in purchased form. Goggles or safety glasses are recommended when machining this product.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
- WORK/HYGIENE PRACTICES: Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation of this combustible material. Minimize blowdown or other practices that generate high airborne-dust concentrations.

Ventilation:

- LOCAL EXHAUST: Provide local exhaust as needed so that exposure limits are met.
- MECHANICAL (GENERAL): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.
- SPECIAL: Self-contained breathing apparatus (SCBA) is recommended when fighting fire.
- OTHER: NAP.

USER'S RESPONSIBILITY:
The information contained in this Material Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources believed to be accurate or otherwise technically correct. It is the user's responsibility to determine if this information is suitable for their applications and to follow safety precautions as may be necessary. The user has the responsibility to make sure that this sheet is the most up-to-date issue.

ADDITIONAL INFORMATION – Definition of Common Terms:

ACGIH	=	American Conference of Governmental Industrial Hygienists
C	=	Ceiling Limit
CAS #	=	Chemical Abstracts System Number
IARC	=	International Agency for Research on Cancer
MSHA	=	Mining Safety and Health Administration
NAP	=	Not Applicable
NAV	=	Not Available
NIOSH	=	National Institute of Occupational Safety and Health
NTP	=	National Toxicology Program
OSHA	=	Occupational Safety and Health Administration
PEL	=	Permissible Exposure Limit
STEL	=	Short-Term Exposure Limit (15 minutes)
TLV	=	Threshold Limit Value
TWA	=	Time-Weighted Average (8 hours)
WISHA	=	Washington Industrial Safety and Health Administration

Material Safety Data Sheet
Lead-Shielded Doors

No. 455-11-07

Eggers Industries

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION:

CHEMICAL OR COMMON NAME **CAS #**	**%**	**EXPOSURE LIMITS**	
Wood CAS # None	62-94	OSHA PEL-TWA OSHA PEL-STEL ACGIH TLV-TWA WISHA PEL-TWA WISHA PEL-TWA	5mg/m^3 (a) 10mg/m^3 (a) 1mg/m^3 (b) 5mg/m^3 (c) 2.5mg/m^3 (d)
Lead CAS #7439-92-1	3-20	OSHA PEL-TWA ACGIH TLV-TWA	50mg/m^3 (e) 150mg/ m^3 (e)
Door Faces • Wood CAS # None • Paper (cellulose) CAS #9004-34-6 • Plastic CAS # None	0-16	See Above OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA	 15mg/m^3 (f) 5mg/m^3 (g) 10mg/m^3 (f) 15mg/m^3 (f) 5mg/m^3 (g) 10mg/m^3 (f)
Resin Solids (ureaformaldehyde) CAS #9011-05-6	1-10	OSHA PEL-TWA OSHA PEL-STEL ACGIH TLV-TWA ACGIH TLV-STEL WISHA PEL-C OREGON PEL-TWA OREGON PEL-STEL	1ppm (h) 2ppm (h) 1ppm (h) 2ppm (h) 1ppm (h) 1ppm (h) 2ppm (h)
Wax CAS # None	~ <1	OSHA PEL-TWA ACGIH TLV-TWA	2mg/m^3 (i) 2mg/m^3 (b)

(a) softwood or hardwood total dust
(b) selected hardwood total dust beech, oak
(c) non-allergenic total dust
(d) allergenic total dust
(e) lead dust or fume
(f) total dust
(g) respirable dust
(h) free gaseous formaldehyde
(i) paraffin wax fume

Appearance and Odor: Doors with a variety of grain patterns and hues. The products have a slight aromatic odor. Wood component may contain alder, ash, aspen, basswood, beech, birch, bubinga, cherry, chestnut, cottonwood, cypress, elm, fir, gum, hemlock, hickory, koa, mahogany (true or false), mansonia, maple, oak (red or white), pine, poplar, spruce, teak and/or walnut.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (F or C)	NAP (Wood)	3164□F (lead)
Vapor Pressure (mm Hg)	NAP	
Vapor Density (Air=1)	NAP	
Specific Gravity (H_2O=1)	0.40-0.80 (wood)	11.3 (lead)
Melting Point (F or C)	NAP (wood)	621□F (lead)
Evaporation Rate (Butyl Acetate=1)	NAP	
Solubility in Water	<0.1%	
% Volatile by Volume @ 70°F	0	

FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): NAP

Flammable Limits:

LEL: See below under "Unusual Fire and Explosion Hazards"

UEL: NAP

Extinguishing Media: Water, carbon dioxide, dry chemical

Autoignition Temperature (F or C): 400°F - 500°F (wood)

Special Firefighting Procedures: None

Unusual Fire and Explosion Hazards: Depending on moisture content and – more importantly – particle diameter, wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts.

REACTIVITY DATA

Stability: ( ) Unstable (X) Stable

Conditions to Avoid: NAP

Incompatibility (Materials to Avoid): Avoid contact with oxidizing agents. Avoid open flame. Product may ignite at temperatures in excess of 400°F.

Hazardous Decomposition or By-Products: Depending on moisture content, availability of oxygen and temperature, thermal decomposition products include carbon monoxide, carbon dioxide, water, various aldehydes (both aliphatic and aromatic), tars and carbon, and lead/lead oxide fumes.

Hazardous Polymerization:

( ) May Occur (X) Will Not Occur

Conditions to Avoid: NAP

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Not applicable for product in purchased form. Wood, paper or plastic dust(s) generated from sawing, sanding, drilling or routing of this product may be vacuumed or shoveled for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA approved respirator and goggles where ventilation is not possible.

Waste Disposal Method: Dry land disposal is acceptable in most states if disposed of or discarded in its purchased form. It is, however, the user's responsibility to determine at the time of disposal whether their product meets RCRA criteria for hazardous waste. Follow applicable federal, state and local regulations.

Precautions to be Taken in Handling and Use: No special handling precautions are required. Keep in cool, dry place away from open flame. This product may release small amounts of gaseous formaldehyde. Store in well-ventilated area.

Other Precautions: A NIOSH/MSHA approved respirator and goggles should be worn when the allowable exposure limits may be exceeded.

HEALTH HAZARD DATA

Primary Health Hazards: The primary health hazards posed by this product are thought to be due to exposure to wood dust or gaseous formaldehyde.

Primary Route(s) of Exposure:

( ) Ingestion

(X) Skin (Dust)

(X) Inhalation (Dust or Gas)

Acute Health Hazards: *Signs and Symptoms of Exposure—Emergency and First Aid Procedures.*

- INGESTION: Not applicable under normal use.
- EYE CONTACT: Gaseous formaldehyde may cause temporary irritation or a temporary burning sensation. Wood, paper or plastic dust(s) may cause mechanical irritation as a foreign object. Treat dust in eye as a foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.
- SKIN CONTACT: Gaseous formaldehyde may cause allergic contact dermatitis in sensitized individuals, resulting in redness, itching and occasionally hives. Wood dust(s) of certain species may elicit allergic contact dermatitis in sensitized individuals, as well as mechanical irritation resulting in erythema and hives. Get medical help if rash, irritation, or dermatitis persists.
- SKIN ABSORPTION: Not know to occur with normal use.
- INHALATION: High concentrations of wood, paper or plastic dust(s) may cause unpleasant deposit/obstruction in the nasal passages, resulting in runny nose, dry cough and/or sneezing. Gaseous formaldehyde may temporarily irritate the nose and throat, and may aggravate preexisting respiratory conditions, depending on the level of exposure. Remove to fresh air. Get medical help if persistent irritation, severe coughing or breathing difficulty occurs.

Medical Conditions Generally Aggravated by Exposure: Wood dust may aggravate preexisting respiratory conditions or allergies.

Chronic Health Hazards: Gaseous formaldehyde has been shown to cause cancer in certain laboratory animals after long-term exposure to very high concentrations (14+ppm), far above those normally found in the workplace with this product. Wood dust(s), depending on the species (for example, iroko, cocobolo), may cause allergic contact dermatitis with prolonged, repetitive contact, and respiratory sensitization after prolonged exposure to elevated dust levels (for example, western red cedar). Wood dust has been alleged to cause nasal/paranasal sinus cancer (certain European hardwoods: oak and beech).

Carcinogenicity Listing:

(X)	NTP	Formaldehyde
(X)	IARC Monographs	Formaldehyde
(X)	OSHA Regulated	Formaldehyde

CONTROL MEASURES
Personal Protective Equipment:

- RESPIRATORY PROTECTION: Not applicable for product in purchased form. A NOSH/MSHA approved respirator is recommended when allowable exposure limits may be exceeded.
- PROTECTIVE GLOVES: Not required. However, cloth, canvas or leather gloves are recommended to minimize potential mechanical irritation from handling product.
- EYE PROTECTION: Not applicable for product in purchased form. Goggles or safety glasses are recommended when machining this product.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
- WORK/HYGIENE PRACTICES: Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation of this combustible material. Minimize blowdown or other practices that generate high airborne-dust concentrations.

Ventilation:

- LOCAL EXHAUST: Provide local exhaust as needed so that exposure limits are met.
- MECHANICAL (GENERAL): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.
- SPECIAL: Self-contained breathing apparatus (SCBA) is recommended when fighting fire.
- OTHER: NAP.

USER'S RESPONSIBILITY:

The information contained in this Material Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources believed to be accurate or otherwise technically correct. It is the user's responsibility to determine if this information is suitable for their applications and to follow safety precautions as may be necessary. The user has the responsibility to make sure that this sheet is the most up-to-date issue.

ADDITIONAL INFORMATION – Definition of Common Terms:

ACGIH	=	American Conference of Governmental Industrial Hygienists
C	=	Ceiling Limit
CAS #	=	Chemical Abstracts System Number
IARC	=	International Agency for Research on Cancer
MSHA	=	Mining Safety and Health Administration
NAP	=	Not Applicable
NAV	=	Not Available
NIOSH	=	National Institute of Occupational Safety and Health
NTP	=	National Toxicology Program
OSHA	=	Occupational Safety and Health Administration
PEL	=	Permissible Exposure Limit
STEL	=	Short-Term Exposure Limit (15 minutes)
TLV	=	Threshold Limit Value
TWA	=	Time-Weighted Average (8 hours)
WISHA	=	Washington Industrial Safety and Health Administration

Eggers Industries

Stile & Rail Doors, Door Frames, Plywood **Flush Doors**

East Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

www.eggersindustries.com email: sales@eggersindustries.com

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Chemical or Common Name **CAS #**	**%**	**Exposure Limits**	
Calcium Silicate CAS #1344-95-2	51-73	OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA	15mg/m^3 (a) 5mg/m^3 (b) 10mg/m^3 (c)
Inert Ingredients • Proprietary CAS # Proprietary	6-9	OSHA PEL-TWA OSHA PEL-TWA ACGIH TLB-TWA	15mg/m^3 (a) 0.1mg/m^3 (b) 0.1mg/m^3 (d)
Wood CAS # None	4-8	ACGIH TLV-TWA OSHA PEL-TWA	1mg/m^3 (e) 2.5mg/m^3 (f)
Resin Solids CAS # None	<1	None Established	
Composite Material • Proprietary CAS # Proprietary	0-15	OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV OSHA PEL-TWA ACGIH TLV-TWA OSHA PEL-TWA ACGIH TLV-TWA	15mg/m^3 (a) 5mg/m^3 (b) 10mg/m^3 (c) 0.1mg/m^3 (b) 0.1mg/m^3 (b) 5mg/m^3 (a) 10mg/m^3 (a)
Door Faces • Wood CAS # None • Paper (cellulose) CAS #9004-34-6 • Plastic CAS # None	17	See Above OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA	15mg/m^3 (a) 5mg/m^3 (b) 10mg/m^3 (a) 15mg/m^3 (a) 5mg/m^3 (b) 10mg/m^3 (a)

(a) total dust
(b) respirable dust
(c) total dust containing no asbestos and <1% crystalline silica
(d) respirable fraction containing respirable quartz
(e) selected hardwood total dust (beech, oak, others)
(f) western red cedar total dust

Based on 1989 OSHA Permissible Exposure Limits (PEL)

Note: Neither calcium silicate nor inert ingredients (complex metal silicates, etc.) contain any asbestos. Free silica (quartz) may be present in 1-2% by weight.

Appearance and Odor: Doors with a variety of grain patterns and hues. The products have a slight aromatic odor. Wood component may contain alder, ash, aspen, basswood, beech, birch, bubinga, cherry, chestnut, cottonwood, cypress, elm, fir, gum, hemlock, hickory, koa, mahogany (true or false), mansonia, maple, oak (red or white), pine, poplar, spruce, teak and/or walnut.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (1 atm)	NAP
Vapor Pressure (mm Hg)	NAP
Vapor Density (Air=1; 1 atm)	NAP
Specific Gravity (H_2O=1)	0.297 (Mineral Core) 0.40-0.80 (Wood)
Melting Point	NAP
Evaporation Rate (Butyl Acetate=1)	NAP
Solubility in Water (% by weight)	<0.1%
% Volatile by Volume	0

FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): NAP
Flammable Limits:
LEL: See below under "Unusual Fire and Explosion Hazards"
UEL: NAP
Extinguishing Media: Water, carbon dioxide, sand, dry chemical
Autoignition Temperature (F or C): 400°F - 500°F (204°C - 260°C) - Wood
Special Firefighting Procedures: None
Unusual Fire and Explosion Hazards: Depending on moisture content and--more importantly—particle diameter, wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts.

REACTIVITY DATA

Stability: ( ) Unstable (X) Stable
Conditions to Avoid: NAP
Incompatibility (Materials to Avoid):
Wood Components: Avoid contact with oxidizing agents. Avoid open flame and areas of high radiant heat flux.
Material Core Components: ammonium salts (sulfates, nitrates, phosphates or halides), in the presence of water, react with mineral core to release small amounts of ammonium gas.

Hazardous Decomposition or By-Products:
Wood Components: Depending on moisture content, availability of oxygen and temperature, thermal decomposition products include carbon monoxide, carbon dioxide, water, various aldehydes (both aliphatic and aromatic), tars and carbon.
Hazardous Polymerization: ( ) May Occur (X) Will Not Occur

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Not applicable for product in purchased form. Dust generated from sawing, sanding, drilling or routing of this product may be vacuumed or shoveled after wetting for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA approved respirator and goggles where ventilation is not possible.

Waste Disposal Method: Dry land disposal is acceptable in most states if disposed of or discarded in its purchased form. It is, however, the user's responsibility to determine at the time of disposal whether their product meets RCRA criteria for hazardous waste. Follow applicable federal, state and local regulations.

Precautions to be Taken in Handling and Storage: No special handling precautions are required for product in purchased form. Keep in cool, dry place away from open flame and areas of radiant heat flux. Store in well-ventilated area.

Other Precautions: A NIOSH/MSHA approved respirator and goggles should be worn when the allowable exposure limits may be exceeded.

HEALTH HAZARD DATA

Primary Health Hazards: The primary health hazards posed by this product are thought to be due to exposure to dust generated from sawing, sanding, drilling or routing of this product.

Primary Route(s) of Exposure:

( ) Ingestion
(X) Skin (Dust)
(X) Inhalation (Dust)

Acute Health Hazards: *Signs and Symptoms of Exposure—Emergency and First Aid Procedures.*

- INGESTION: Not applicable under normal use.
- EYE CONTACT: Dust may cause mechanical irritation. Treat dust in eye as a foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.
- SKIN CONTACT: Wood dust(s) of certain species may elicit allergic contact dermatitis in sensitized individuals, as well as mechanical irritation resulting in hives. Get medical help if rash, irritation, or dermatitis persists.
- SKIN ABSORPTION: Not know to occur with normal use.
- INHALATION: High concentrations of dust may cause unpleasant deposit/obstruction in the nasal passages, resulting in runny nose, dry cough and/or sneezing. Remove to fresh air. Get medical help if persistent irritation, severe coughing or breathing difficulty occurs.

Medical Conditions Generally Aggravated by Exposure: Dust may aggravate preexisting respiratory conditions or allergies.

Chronic Health Hazards: Wood dust(s), depending on the species, may cause allergic contact dermatitis with prolonged, repetitive contact, and respiratory sensitization after prolonged exposure to elevated dust levels. Long-term inhalation of silica dust may cause lung injury or disease (silicosis)).

Carcinogenicity Listing:

(X)	NTP	Crystalline silica
(X)	IARC Monographs	Crystalline silica
( )	OSHA Regulated	

Wood dust has been alleged to cause nasal/paranasal sinus cancer (certain European hardwoods: oak and beech).

Note: The IARC (International Agency for Research on Cancer) has categorized crystalline silica as a 2A carcinogen, meaning: (1) there is sufficient evidence for the carcinogenicity to experimental animals, and (2) there is limited evidence of the carcinogenicity to humans. The National Toxicology Program (NTP) has reported crystalline silica is reasonably anticipated to be a carcinogen, meaning there is limited evidence of carcinogenicity from studies in humans or sufficient evidence of carcinogenicity from studies in experimental animals.

CONTROL MEASURES

Personal Protective Equipment:

- RESPIRATORY PROTECTION: Not applicable for product in purchased form. A NOSH/MSHA approved respirator is recommended when allowable exposure limits may be exceeded.
- PROTECTIVE GLOVES: Not required. However, cloth, canvas or leather gloves are recommended to minimize potential mechanical irritation from handling product.
- EYE PROTECTION: Not applicable for product in purchased form. Goggles or safety glasses are recommended when machining this product.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
- WORK/HYGIENE PRACTICES: Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation. Minimize blowdown or other practices that generate high airborne-dust concentrations.

Ventilation:

- LOCAL EXHAUST: Provide local exhaust as needed so that exposure limits are met.
- MECHANICAL (GENERAL): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.
- SPECIAL: Self-contained breathing apparatus (SCBA) is recommended when fighting fire.
- OTHER: NAP.

TRANSPORATATION DATA:

DOT Proper Shipping Name: Not regulated.
Hazard Class/Division Number:
ID Number:
Packing Group:
Label/Placard Required:
DOT Hazardous Substance:

USER'S RESPONSIBILITY:

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ADDITIONAL INFORMATION – Definition of Common Terms:

ACGIH = American Conference of Governmental Industrial Hygienists
C = Ceiling Limit
CAS # = Chemical Abstracts System Number
IARC = International Agency for Research on Cancer
MSHA = Mining Safety and Health Administration
NAP = Not Applicable
NAV = Not Available
NIOSH = National Institute of Occupational Safety and Health
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration
PEL = Permissible Exposure Limit
STEL = Short-Term Exposure Limit (15 minutes)
TLV = Threshold Limit Value
TWA = Time-Weighted Average (8 hours)

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CHEMICAL OR COMMON NAME CAS #	%	EXPOSURE LIMITS	
Wood CAS # None	75-93	OSHA PEL-TWA OSHA PEL-STEL ACGIH TLV-TWA WISHA PEL-TWA WISHA PEL-TWA	5mg/m^3 (a) 10mg/m^3 (a) 1mg/m^3 (b) 5mg/m^3 (c) 2.5mg/m^3 (d)
Door Faces • Wood CAS # None • Paper (cellulose) CAS #9004-34-6 • Plastic CAS # None	~ 17	See Above OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA	 15mg/m^3 (e) 5mg/m^3 (f) 10mg/m^3 (e) 15mg/m^3 (e) 5mg/m^3 (f) 10mg/m^3 (e)
Resin Solids (ureaformaldehyde) CAS # 9011-05-6	1-10	OSHA PEL-TWA OSHA PEL-STEL ACGIH TLV-TWA ACGIH TLV-STEL WISHA PEL-C OREGON PEL-TWA OREGON PEL-STEL	1 ppm (g) 2 ppm (g) 1 ppm (g) 2 ppm (g) 1 ppm (g)) 1 ppm (g) 2 ppm (g)
Wax CAS # None	~ <1	OSHA PEL-TWA ACGIH TLV-TWA	2 mg/m (h) 2mg/m (h)

(a) softwood or hardwood total dust
(b) selected hardwood total dust beech, oak
(c) Non-allergenic total dust
(d) allergenic total dust
(e) total dust
(f) respirable dust
(g) free vinyl acetate
(h) paraffin wax fume

Appearance and Odor: Doors with a variety of grain patterns and hues. The products have a slight aromatic odor. Wood component may contain alder, ash, aspen, basswood, beech, birch, bubinga, cherry, chestnut, cottonwood, cypress, elm, fir, gum, hemlock, hickory, koa, mahogany (true or false), mansonia, maple, oak (red or white), pine, poplar, spruce, teak and/or walnut.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (F or C)	NAP
Vapor Pressure (mm Hg)	NAP
Vapor Density (Air=1)	NAP
Specific Gravity (H_2O=1)	0.40-0.80
Melting Point	NAP
Evaporation Rate (Butyl Acetate=1)	NAP
Solubility in Water	<0.1%
% Volatile by Volume @ 70°F	0

FIRE AND EXPLOSION HAZARD DATA
Flash Point (Method Used): NAP
Flammable Limits:
LEL: See below under "Unusual Fire and Explosion Hazards"
UEL: NAP
Extinguishing Media: Water, carbon dioxide, sand
Autoignition Temperature (F or C): 400°F - 500°F (204°C - 260°C)
Special Firefighting Procedures: None
Unusual Fire and Explosion Hazards: Depending on moisture content and–more importantly—particle diameter, wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts.

REACTIVITY DATA

Stability: ( ) Unstable (X) Stable

Conditions to Avoid: NAP
Incompatibility (Materials to Avoid): Avoid contact with oxidizing agents. Avoid open flame. Product may ignite at temperatures in excess of 400°F.

Hazardous Decomposition or By-Products: Depending on moisture content, availability of oxygen and temperature, thermal decomposition products include carbon monoxide, carbon dioxide, water, various aldehydes (both aliphatic and aromatic), tars and carbon.

Hazardous Polymerization: ( ) May Occur (X) Will Not Occur
Conditions to Avoid: NAP

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Not applicable for product in purchased form. Wood, paper or plastic dust(s) generated from sawing, sanding, drilling or routing of this product may be vacuumed or shoveled for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA approved respirator and goggles where ventilation is not possible.

Waste Disposal Method: Dry land disposal is acceptable in most states if disposed of or discarded in its purchased form. It is, however, the user's responsibility to determine at the time of disposal whether their product meets RCRA criteria for hazardous waste. Follow applicable federal, state and local regulations.

Precautions to be Taken in Handling and Storage: No special handling precautions are required. Keep in cool, dry place away from open flame. This product may release small amounts of gaseous formaldehyde. Store in well-ventilated area.

Other Precautions: A NIOSH/MSHA approved respirator and goggles should be worn when the allowable exposure limits may be exceeded.

HEALTH HAZARD DATA

Primary Health Hazards: The primary health hazards posed by this product are thought to be due to exposure to wood dust or free gaseous formaldehyde.

Primary Route(s) of Exposure:

( ) Ingestion

(X) Skin (Dust)

(X) Inhalation (Dust or Gas)

Acute Health Hazards: *Signs and Symptoms of Exposure—Emergency and First Aid Procedures.*

- INGESTION: Not applicable under normal use.

- EYE CONTACT: Gaseous formaldehyde may cause temporary irritation or a temporary burning sensation. Wood, paper or plastic dust(s) may cause mechanical irritation as a foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.

- SKIN CONTACT: Gaseous formaldehyde may cause allergic contact dermatitis in sensitized individuals, resulting in redness, itching and occasionally hives. Wood dust(s) of certain species may elicit allergic contact dermatitis in sensitized individuals, as well as mechanical irritation resulting in erythema and hives. Get medical help if rash, irritation, or dermatitis persists.

- SKIN ABSORPTION: Not know to occur with normal use.

- INHALATION: High concentrations of wood, paper or plastic dust(s) may cause unpleasant deposit/obstruction in the nasal passages, resulting in runny nose, dry cough and/or sneezing. Gaseous formaldehyde may temporarily irritate the nose and throat, and may aggravate preexisting respiratory conditions depending on the level of exposure. Remove to fresh air. Get medical help if persistent irritation, severe coughing or breathing difficulty occurs.

Medical Conditions Generally Aggravated by Exposure: Wood dust may aggravate preexisting respiratory conditions or allergies.

Chronic Health Hazards: Gaseous formaldehyde has been shown to cause cancer in certain laboratory animals after long-term exposure to very high concentrations (14+ppm), far above those normally found in the workplace with this product. Wood dust(s), depending on the species (for example, iroko, cocobolo), may cause allergic contact dermatitis with prolonged, repetitive contact, and respiratory sensitization after prolonged exposure to elevated dust levels (for example, western red cedar). Wood dust has been alleged to cause nasal/paranasal sinus cancer (certain European hardwoods: oak and beech).

Carcinogenicity Listing:

(X)	NTP	Formaldehyde
(X)	ARC Monographs	Formaldehyde
(X)	OSHA Regulated	Formaldehyde

CONTROL MEASURES - Personal Protective Equipment

- RESPIRATORY PROTECTION: Not applicable for product in purchased form. A NOSH/MSHA approved respirator is recommended when allowable exposure limits may be exceeded.
- PROTECTIVE GLOVES: Not required. However, cloth, canvas or leather gloves are recommended to minimize potential mechanical irritation from handling product.
- EYE PROTECTION: Not applicable for product in purchased form. Goggles or safety glasses are recommended when machining this product.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
- WORK/HYGIENE PRACTICES: Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation of this combustible material. Minimize blowdown or other practices that generate high airborne-dust concentrations.

Ventilation:

- LOCAL EXHAUST: Provide local exhaust as needed so that exposure limits are met.
- MECHANICAL (GENERAL): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.
- SPECIAL: Self-contained breathing apparatus (SCBA) is recommended when fighting fire.
- OTHER: NAP.

USER'S RESPONSIBILITY: The information contained in this Material Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources believed to be accurate or otherwise technically correct. It is the user's responsibility to determine if this information is suitable for their applications and to follow safety precautions as may be necessary. The user has the responsibility to make sure that this sheet is the most up-to-date issue.

ADDITIONAL INFORMATION – Definition of Common Terms:

ACGIH	=	American Conference of Governmental Industrial Hygienists
C	=	Ceiling Limit
CAS #	=	Chemical Abstracts System Number
IARC	=	International Agency for Research on Cancer
MSHA	=	Mining Safety and Health Administration
NAP	=	Not Applicable
NAV	=	Not Available
NIOSH	=	National Institute of Occupational Safety and Health
NTP	=	National Toxicology Program
OSHA	=	Occupational Safety and Health Administration
PEL	=	Permissible Exposure Limit
STEL	=	Short-Term Exposure Limit (15 minutes)
TLV	=	Threshold Limit Value
TWA	=	Time-Weighted Average (8 hours)
WISHA	=	Washington Industrial Safety and Health Administration

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CHEMICAL OR COMMON NAME CAS #	%	EXPOSURE LIMITS	
Wood CAS # None	75-93	OSHA PEL-TWA OSHA PEL-STEL ACGIH TLV-TWA WISHA PEL-TWA WISHA PEL-TWA	5mg/m^3 (a) 10mg/m^3 (a) 1mg/m^3 (b) 5mg/m^3 (c) 2.5mg/m^3 (d)
Door Faces • Wood CAS # None • Paper (cellulose) CAS #9004-34-6 • Plastic CAS # None	~ 17	See Above OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA	 15mg/m^3 (e) 5mg/m^3 (f) 10mg/m^3 (e) 15mg/m^3 (e) 5mg/m^3 (f) 10mg/m^3 (e)
Resin Solids (PVA) Vinyl Acetate CAS # None	<1	OSHA PEL ACGIH TLV-TWA ACGIH TLV-STEL	None Established 10 ppm (g) 15 ppm (g)

(a) softwood or hardwood total dust
(b) selected hardwood total dust beech, oak
(c) Non-allergenic total dust
(d) allergenic total dust
(e) total dust
(f) respirable dust
(g) free vinyl acetate

Appearance and Odor: Doors with a variety of grain patterns and hues. The products have a slight aromatic odor. Wood component may contain alder, ash, aspen, basswood, beech, birch, bubinga, cherry, chestnut, cottonwood, cypress, elm, fir, gum, hemlock, hickory, koa, mahogany (true or false), mansonia, maple, oak (red or white), pine, poplar, spruce, teak and/or walnut.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (F or C)	NAP
Vapor Pressure (mm Hg)	NAP
Vapor Density (Air=1)	NAP
Specific Gravity (H_2O=1)	0.40-0.80
Melting Point	NAP
Evaporation Rate (Butyl Acetate=1)	NAP
Solubility in Water	<0.1%
% Volatile by Volume @ 70°F	0

FIRE AND EXPLOSION HAZARD DATA
Flash Point (Method Used): NAP
Flammable Limits:
LEL: See below under "Unusual Fire and Explosion Hazards"
UEL: NAP
Extinguishing Media: Water, carbon dioxide, sand
Autoignition Temperature (F or C): 400°F - 500°F (204°C - 260°C)
Special Firefighting Procedures: None
Unusual Fire and Explosion Hazards: Depending on moisture content and–more importantly—particle diameter, wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts.

REACTIVITY DATA

Stability: ( ) Unstable (X) Stable

Conditions to Avoid: NAP
Incompatibility (Materials to Avoid): Avoid contact with oxidizing agents. Avoid open flame. Product may ignite at temperatures in excess of 400°F.

Hazardous Decomposition or By-Products: Depending on moisture content, availability of oxygen and temperature, thermal decomposition products include carbon monoxide, carbon dioxide, water, various aldehydes (both aliphatic and aromatic), tars and carbon.

Hazardous Polymerization: ( ) May Occur (X) Will Not Occur
Conditions to Avoid: NAP

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Not applicable for product in purchased form. Wood, paper or plastic dust(s) generated from sawing, sanding, drilling or routing of this product may be vacuumed or shoveled for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA approved respirator and goggles where ventilation is not possible.

Waste Disposal Method: Dry land disposal is acceptable in most states if disposed of or discarded in its purchased form. It is, however, the user's responsibility to determine at the time of disposal whether their product meets RCRA criteria for hazardous waste. Follow applicable federal, state and local regulations.

Precautions to be Taken in Handling and Storage: No special handling precautions are required. Keep in cool, dry place away from open flame. This product may release small amounts of gaseous formaldehyde. Store in well-ventilated area.

Other Precautions: A NIOSH/MSHA approved respirator and goggles should be worn when the allowable exposure limits may be exceeded.

HEALTH HAZARD DATA

Primary Health Hazards: The primary health hazards posed by this product are thought to be due to exposure to wood dust or free gaseous formaldehyde.

Primary Route(s) of Exposure:

( ) Ingestion

(X) Skin (Dust)

(X) Inhalation (Dust or Gas)

Acute Health Hazards: *Signs and Symptoms of Exposure—Emergency and First Aid Procedures.*

- INGESTION: Not applicable under normal use.

- EYE CONTACT: Gaseous formaldehyde may cause temporary irritation or a temporary burning sensation. Wood, paper or plastic dust(s) may cause mechanical irritation as a foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.

- SKIN CONTACT: Gaseous formaldehyde may cause allergic contact dermatitis in sensitized individuals, resulting in redness, itching and occasionally hives. Wood dust(s) of certain species may elicit allergic contact dermatitis in sensitized individuals, as well as mechanical irritation resulting in erythema and hives. Get medical help if rash, irritation, or dermatitis persists.

- SKIN ABSORPTION: Not know to occur with normal use.

- INHALATION: High concentrations of wood, paper or plastic dust(s) may cause unpleasant deposit/obstruction in the nasal passages, resulting in runny nose, dry cough and/or sneezing. Gaseous formaldehyde may temporarily irritate the nose and throat, and may aggravate preexisting respiratory conditions depending on the level of exposure. Remove to fresh air. Get medical help if persistent irritation, severe coughing or breathing difficulty occurs.

Medical Conditions Generally Aggravated by Exposure: Wood dust may aggravate preexisting respiratory conditions or allergies.

Chronic Health Hazards: Gaseous formaldehyde has been shown to cause cancer in certain laboratory animals after long-term exposure to very high concentrations (14+ppm), far above those normally found in the workplace with this product. Wood dust(s), depending on the species (for example, iroko, cocobolo), may cause allergic contact dermatitis with prolonged, repetitive contact, and respiratory sensitization after prolonged exposure to elevated dust levels (for example, western red cedar). Wood dust has been alleged to cause nasal/paranasal sinus cancer (certain European hardwoods: oak and beech).

Carcinogenicity Listing:

(X)	NTP	Formaldehyde
(X)	ARC Monographs	Formaldehyde
(X)	OSHA Regulated	Formaldehyde

CONTROL MEASURES - Personal Protective Equipment

- RESPIRATORY PROTECTION: Not applicable for product in purchased form. A NOSH/MSHA approved respirator is recommended when allowable exposure limits may be exceeded.
- PROTECTIVE GLOVES: Not required. However, cloth, canvas or leather gloves are recommended to minimize potential mechanical irritation from handling product.
- EYE PROTECTION: Not applicable for product in purchased form. Goggles or safety glasses are recommended when machining this product.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
- WORK/HYGIENE PRACTICES: Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation of this combustible material. Minimize blowdown or other practices that generate high airborne-dust concentrations.

Ventilation:

- LOCAL EXHAUST: Provide local exhaust as needed so that exposure limits are met.
- MECHANICAL (GENERAL): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.
- SPECIAL: Self-contained breathing apparatus (SCBA) is recommended when fighting fire.
- OTHER: NAP.

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ADDITIONAL INFORMATION – Definition of Common Terms:

ACGIH	=	American Conference of Governmental Industrial Hygienists
C	=	Ceiling Limit
CAS #	=	Chemical Abstracts System Number
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NAP	=	Not Applicable
NAV	=	Not Available
NIOSH	=	National Institute of Occupational Safety and Health
NTP	=	National Toxicology Program
OSHA	=	Occupational Safety and Health Administration
PEL	=	Permissible Exposure Limit
STEL	=	Short-Term Exposure Limit (15 minutes)
TLV	=	Threshold Limit Value
TWA	=	Time-Weighted Average (8 hours)
WISHA	=	Washington Industrial Safety and Health Administration

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Chemical or Common Name **CAS #**	**%**	**Exposure Limits**
Wood CAS # None	~68	OSHA PEL-TWA 5mg/m^3 (a) OSHA PEL-STEL 10mg/m^3 (a) ACGIH TLV-TWA 1mg/m^3 (b) WISHA PEL-TWA 5mg/m^3 (c) WISHA PEL-TWA 2.5mg/m^3 (d)
Plastic Core CAS # None	~18	OSHA PEL-TWA 15mg/m^3 (e) OSHA PEL-TWA 5mg/m^3 (f) ACGIH TLV-TWA 10mg/m^3 (e)
Door Faces • Wood CAS # None • Paper (cellulose) CAS #9004-34-6 • Plastic CAS # None	~13	See Above OSHA PEL-TWA 15mg/m^3 (e) OSHA PEL-TWA 5mg/m^3 (f) ACGIH TLV-TWA 10mg/m^3 (e) OSHA PEL-TWA 15mg/m^3 (e) OSHA PEL-TWA 5mg/m^3 (f) ACGIH TLV-TWA 10mg/m^3 (e)
Resin Solids (Polymeric MDI) Type Diisocyanate CAS #9016-87-9	1-10	TLV & PEL – Not established

(a) softwood or hardwood total dust
(b) selected hardwood total dust beech, oak
(c) non-allergenic total dust
(d) allergenic total dust
(e) total dust
(f) respirable dust

Appearance and Odor: Color (light or dark) and odor are dependent on wood species. Wood component may contain alder, ash, aspen, basswood, beech, birch, bubinga, cherry, chestnut, cottonwood, cypress, elm, fir, gum, hemlock, hickory, koa, mahogany (true or false), mansonia, maple, oak (red or white), pine, poplar, spruce, teak and/or walnut

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (F or C)	NAP
Vapor Pressure (mm Hg)	NAP
Vapor Density (Air=1)	NAP
Specific Gravity (H_2O=1)	0.40-0.80 (wood)
Melting Point (F or C)	1.8-2.0 (sound deadening material)
Evaporation Rate (Butyl Acetate=1)	NAP
Solubility in Water	NAP
% Volatile by Volume @ 70°F	<0.1%
	0

FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): NAP
Flammable Limits: LEL: See below under "Unusual Fire and Explosion Hazards" UEL: NAP
Extinguishing Media: Water, carbon dioxide, dry chemicals or foam.
Autoignition Temperature (F or C): 400°F - 800°F
Special Firefighting Procedures: Use full-body protective clothing and full-face piece, self-contained breathing apparatus operated in positive pressure mode.
Unusual Fire and Explosion Hazards: Hydrochloric acid and phosgene vapors and gases are formed during combustion. Depending on moisture content and, more importantly–particle diameter–wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts.

REACTIVITY DATA

Stability: ( ) Unstable (X) Stable
Conditions to Avoid: NAP
Incompatibility (Materials to Avoid): Avoid open flame. Product may ignite at temperatures in excess of 400°F.
Hazardous Decomposition or By-Products: Depending on moisture content, availability of oxygen and temperature, thermal decomposition products include carbon monoxide, carbon dioxide, water, various aldehydes (both aliphatic and aromatic), tars and carbon. Hydrochloric acid and phosgene vapors and gases may also be released under thermal decomposition.
Hazardous Polymerization: ( ) May Occur (X) Will Not Occur
Conditions to Avoid: NAP

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Not applicable for product in purchased form. Wood, paper or plastic dust(s) generated from sawing, sanding, drilling or routing of this product may be vacuumed or shoveled for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA approved respirator and goggles where ventilation is not possible.
Waste Disposal Method: Dry land disposal is acceptable in most states if disposed of or discarded in its purchased form. It is, however, the user's responsibility to determine at the time of disposal whether their product meets RCRA criteria for hazardous waste. Follow applicable federal, state and local regulations.
Precautions to be Taken in Handling and Storage: No special handling precautions are required. Keep in cool, dry place away from open flame. This product may release small amounts of gaseous formaldehyde. Store in well-ventilated area.
Other Precautions: A NIOSH/MSHA approved respirator and goggles should be worn when the allowable exposure limits may be exceeded.

HEALTH HAZARD DATA

Primary Health Hazards: The primary health hazards posed by this product are thought to be due to exposure to wood dust or gaseous formaldehyde.

Primary Route(s) of Exposure:
( ) Ingestion
(X) Skin (Dust)
(X) Inhalation (Dust or Gas)

Acute Health Hazards: *Signs and Symptoms of Exposure—Emergency and First Aid Procedures.*

- INGESTION: Not applicable under normal use.
- EYE CONTACT: Gaseous formaldehyde may cause temporary irritation or a temporary burning sensation. Wood, paper or plastic dust(s) may cause mechanical irritation as a foreign object. Treat dust in eye as a foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.
- SKIN CONTACT: Gaseous formaldehyde may cause allergic contact dermatitis in sensitized individuals, resulting in redness, itching and occasionally hives. Wood dust(s) of certain species may elicit allergic contact dermatitis in sensitized individuals, as well as mechanical irritation resulting in erythema and hives. Get medical help if rash, irritation, or dermatitis persists.
- SKIN ABSORPTION: Not known to occur with normal use.
- INHALATION: High concentrations of wood, paper or plastic dust(s) may cause unpleasant deposit/obstruction in the nasal passages, resulting in runny nose, dry cough and/or sneezing. Gaseous formaldehyde may temporarily irritate the nose and throat, and may aggravate preexisting respiratory conditions, depending on the level of exposure. Remove to fresh air. Get medical help if persistent irritation, severe coughing or breathing difficulty occurs.

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Carcinogenicity Listing:

(X)NTP Formaldehyde

(X)IARC Monographs Formaldehyde

(X)OSHA Regulated Formaldehyde

CONTROL MEASURES

Personal Protective Equipment:

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- **PROTECTIVE GLOVES:** Not required. However, cloth, canvas or leather gloves are recommended to minimize potential mechanical irritation from handling product.
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- **OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
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Ventilation:

- LOCAL EXHAUST: Provide local exhaust as needed so that exposure limits are met.
- MECHANICAL (GENERAL): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.
- SPECIAL: Self-contained breathing apparatus (SCBA) is recommended when fighting fire.
- OTHER: NAP.

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WISHA = Washington Industrial Safety and Health Administration

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Eggers Industries

Stile & Rail Doors, Door Frames, Plywood
Flush Doors

East Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

www.eggersindustries.com email: sales@eggersindustries.com

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Chemical or Common Name CAS #	**%**	**Exposure Limits**	
Wood CAS # None	~68	OSHA PEL-TWA OSHA PEL-STEL ACGIH TLV-TWA WISHA PEL-TWA WISHA PEL-TWA	5mg/m^3 (a) 10mg/m^3 (a) 1mg/m^3 (b) 5mg/m^3 (c) 2.5mg/m^3 (d)
Plastic Core CAS # None	~18	OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA	15mg/m^3 (e) 5mg/m^3 (f) 10mg/m^3 (e)
Door Faces • Wood CAS # None • Paper (cellulose) CAS #9004-34-6 • Plastic CAS # None	~13	See Above OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA	 15mg/m^3 (e) 5mg/m^3 (f) 10mg/m^3 (e) 15mg/m^3 (e) 5mg/m^3 (f) 10mg/m^3 (e)
Lead CAS #7439-92-1	3-20	OSHA PEL-TWA ACGIH TLV-TWA	50mg/m^3 (g) 150mg/m^3 (g)
Resin Solids (Polymeric MDI) Type Diisocyanate CAS #9016-87-9	1-10	TLV & PEL – Not established	

a. softwood or hardwood total dust
b. selected hardwood total dust beech, oak
c. non-allergenic total dust
d. allergenic total dust
e. total dust
f. respirable dust
g. lead dust or fume

Appearance and Odor: Color (light or dark) and odor are dependent on wood species. Wood component may contain alder, ash, aspen, basswood, beech, birch, bubinga, cherry, chestnut, cottonwood, cypress, elm, fir, gum, hemlock, hickory, koa, mahogany (true or false), mansonia, maple, oak (red or white), pine, poplar, spruce, teak and/or walnut.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (F or C)	NAP
Vapor Pressure (mm Hg)	NAP
Vapor Density (Air=1)	NAP
Specific Gravity (H_2O=1)	0.40-0.80 (wood)
Melting Point (F or C)	1.8-2.0 (sound deadening material)
Evaporation Rate (Butyl Acetate=1)	NAP
Solubility in Water	NAP
% Volatile by Volume @ 70°F	<0.1%
	0

FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): NAP
Flammable Limits:
LEL: See below under "Unusual Fire and Explosion Hazards"
UEL: NAP

Extinguishing Media: Water, carbon dioxide, dry chemicals or foam.

Autoignition Temperature (F or C): 400°F - 800°F

Special Firefighting Procedures: Use full-body protective clothing and full-face piece, self-contained breathing apparatus operated in positive pressure mode.

Unusual Fire and Explosion Hazards: Hydrochloric acid and phosgene vapors and gases are formed during combustion. Depending on moisture content and, more importantly–particle diameter–wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts.

REACTIVITY DATA

Stability: ( ) Unstable (X) Stable

Conditions to Avoid: NAP

Incompatibility (Materials to Avoid): Avoid open flame. Product may ignite at temperatures in excess of 400°F.

Hazardous Decomposition or By-Products: Depending on moisture content, availability of oxygen and temperature, thermal decomposition products include carbon monoxide, carbon dioxide, water, various aldehydes (both aliphatic and aromatic), tars and carbon. Hydrochloric acid and phosgene vapors and gases may also be released under thermal decomposition.

Hazardous Polymerization:
( ) May Occur (X) Will Not Occur

Conditions to Avoid: NAP

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Not applicable for product in purchased form. Wood, paper or plastic dust(s) generated from sawing, sanding, drilling or routing of this product may be vacuumed or shoveled for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA approved respirator and goggles where ventilation is not possible.

Waste Disposal Method: Dry land disposal is acceptable in most states if disposed of or discarded in its purchased form. It is, however, the user's responsibility to determine at the time of disposal whether their product meets RCRA criteria for hazardous waste. Follow applicable federal, state and local regulations.

Precautions to be Taken in Handling and Storage: No special handling precautions are required. Keep in cool, dry place away from open flame. This product may release small amounts of gaseous formaldehyde. Store in well-ventilated area.

Other Precautions: A NIOSH/MSHA approved respirator and goggles should be worn when the allowable exposure limits may be exceeded.

HEALTH HAZARD DATA

Primary Health Hazards: The primary health hazards posed by this product are thought to be due to exposure to wood dust or gaseous formaldehyde.

Primary Route(s) of Exposure:
( ) Ingestion
(X) Skin (Dust)
(X) Inhalation (Dust or Gas)

Acute Health Hazards: *Signs and Symptoms of Exposure—Emergency and First Aid Procedures.*

- INGESTION: Not applicable under normal use.
- EYE CONTACT: Gaseous formaldehyde may cause temporary irritation or a temporary burning sensation. Wood, paper or plastic dust(s) may cause mechanical irritation as a foreign object. Treat dust in eye as a foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.
- SKIN CONTACT: Gaseous formaldehyde may cause allergic contact dermatitis in sensitized individuals, resulting in redness, itching and occasionally hives. Wood dust(s) of certain species may elicit allergic contact dermatitis in sensitized individuals, as well as mechanical irritation resulting in erythema and hives. Get medical help if rash, irritation, or dermatitis persists.
- SKIN ABSORPTION: Not known to occur with normal use.
- INHALATION: High concentrations of wood, paper or plastic dust(s) may cause unpleasant deposit/obstruction in the nasal passages, resulting in runny nose, dry cough and/or sneezing. Gaseous formaldehyde may temporarily irritate the nose and throat, and may aggravate preexisting respiratory conditions, depending on the level of exposure. Remove to fresh air. Get medical help if persistent irritation, severe coughing or breathing difficulty occurs.

Medical Conditions Generally Aggravated by Exposure: Wood dust may aggravate preexisting respiratory conditions or allergies.

Chronic Health Hazards: Gaseous formaldehyde has been shown to cause cancer in certain laboratory animals after long-term exposure to very high concentrations (14+ppm), far above those normally found in the workplace with this product. Wood dust(s), depending on the species (for example, iroko, cocobolo), may cause allergic contact dermatitis with prolonged, repetitive contact, and respiratory sensitization after prolonged exposure to elevated dust levels (for example, western red cedar). Wood dust has been alleged to cause nasal/paranasal sinus cancer (certain European hardwoods: oak and beech).

Carcinogenicity Listing:

(X)NTP Formaldehyde

(X)IARC Monographs Formaldehyde

(X)OSHA Regulated Formaldehyde

CONTROL MEASURES

Personal Protective Equipment:

- **RESPIRATORY PROTECTION:** Not applicable for product in purchased form. A NOSH/MSHA approved respirator is recommended when allowable exposure limits may be exceeded.
- **PROTECTIVE GLOVES:** Not required. However, cloth, canvas or leather gloves are recommended to minimize potential mechanical irritation from handling product.
- **EYE PROTECTION:** Not applicable for product in purchased form. Goggles or safety glasses are recommended when machining this product.
- **OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
- **WORK/HYGIENE PRACTICES:** Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation of this combustible material. Minimize blowdown or other practices that generate high airborne-dust concentrations.

Ventilation:

- LOCAL EXHAUST: Provide local exhaust as needed so that exposure limits are met.
- MECHANICAL (GENERAL): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.
- SPECIAL: Self-contained breathing apparatus (SCBA) is recommended when fighting fire.
- OTHER: NAP.

ADDITIONAL INFORMATION – Definition of Common Terms

ACGIH = American Conference of Governmental Industrial Hygienists
C = Ceiling Limit
CAS # = Chemical Abstracts System Number
IARC = International Agency for Research on Cancer
MSHA = Mining Safety and Health Administration
NAP = Not Applicable
NAV = Not Available
NIOSH = National Institute of Occupational Safety and Health
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration
PEL = Permissible Exposure Limit
STEL = Short-Term Exposure Limit (15 minutes)
TLV = Threshold Limit Value
TWA = Time-Weighted Average (8 hours)
WISHA = Washington Industrial Safety and Health Administration

USER'S RESPONSIBILITY

The information contained in this Material Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources believed to be accurate or otherwise technically correct. It is the user's responsibility to determine if this information is suitable for their applications and to follow safety precautions as may be necessary. The user has the responsibility to make sure that this sheet is the most up-to-date issue.

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CHEMICAL OR COMMON NAME CAS #	%	EXPOSURE LIMITS
Wood CAS # None	75-93	OSHA PEL-TWA 5mg/m^3 (a) OSHA PEL-STEL 10mg/m^3 (a) ACGIH TLV-TWA 1mg/m^3 (b) WISHA PEL-TWA 5mg/m^3 (c) WISHA PEL-TWA 2.5mg/m^3 (d)
Door Faces • Wood CAS # None • Paper (cellulose) CAS #9004-34-6 • Plastic CAS # None	~ 17	See Above OSHA PEL-TWA 15mg/m^3 (e) OSHA PEL-TWA 5mg/m^3 (f) ACGIH TLV-TWA 10mg/m^3 (e) OSHA PEL-TWA 15mg/m^3 (e) OSHA PEL-TWA 5mg/m^3 (f) ACGIH TLV-TWA 10mg/m^3 (e)
Resin Solids (PVA) Vinyl acetate CAS #None	<1	OSHA PEL – none established ACGIH TLV-TWA 10 ppm (g) ACGIH TLV-STEL 15 ppm (g)

(a) softwood or hardwood total dust
(b) selected hardwood total dust beech, oak
(c) Non-allergenic total dust
(d) allergenic total dust
(e) total dust
(f) respirable dust
(g) free vinyl acetate

Appearance and Odor: Doors with a variety of grain patterns and hues. The products have a slight aromatic odor. Wood component may contain alder, ash, aspen, basswood, beech, birch, bubinga, cherry, chestnut, cottonwood, cypress, elm, fir, gum, hemlock, hickory, koa, mahogany (true or false), mansonia, maple, oak (red or white), pine, poplar, spruce, teak and/or walnut.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (F or C)	NAP
Vapor Pressure (mm Hg)	NAP
Vapor Density (Air=1)	NAP
Specific Gravity (H_2O=1)	0.40-0.80
Melting Point	NAP
Evaporation Rate (Butyl Acetate=1)	NAP
Solubility in Water	<0.1%
% Volatile by Volume @ 70°F	0

FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): NAP

Flammable Limits:

LEL: See below under "Unusual Fire and Explosion Hazards"

UEL: NAP

Extinguishing Media: Water, carbon dioxide, sand

Autoignition Temperature (F or C): 400°F - 500°F (204°C - 260°C)

Special Firefighting Procedures: None

Unusual Fire and Explosion Hazards: Depending on moisture content and–more importantly—particle diameter, wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts.

REACTIVITY DATA

Stability: ( ) Unstable (X) Stable

Conditions to Avoid: NAP

Incompatibility (Materials to Avoid): Avoid contact with oxidizing agents. Avoid open flame. Product may ignite at temperatures in excess of 400°F.

Hazardous Decomposition or By-Products: Depending on moisture content, availability of oxygen and temperature, thermal decomposition products include carbon monoxide, carbon dioxide, water, various aldehydes (both aliphatic and aromatic), tars and carbon.

Hazardous Polymerization: ( ) May Occur (X) Will Not Occur

Conditions to Avoid: NAP

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Not applicable for product in purchased form. Wood, paper or plastic dust(s) generated from sawing, sanding, drilling or routing of this product may be vacuumed or shoveled for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA approved respirator and goggles where ventilation is not possible.

Waste Disposal Method: Dry land disposal is acceptable in most states if disposed of or discarded in its purchased form. It is, however, the user's responsibility to determine at the time of disposal whether their product meets RCRA criteria for hazardous waste. Follow applicable federal, state and local regulations.

Precautions to be Taken in Handling and Storage: No special handling precautions are required. Keep in cool, dry place away from open flame. This product may release small amounts of gaseous formaldehyde. Store in well-ventilated area.

Other Precautions: A NIOSH/MSHA approved respirator and goggles should be worn when the allowable exposure limits may be exceeded.

HEALTH HAZARD DATA

Primary Health Hazards: The primary health hazards posed by this product are thought to be due to exposure to wood dust or free gaseous formaldehyde.

Primary Route(s) of Exposure:

( ) Ingestion

(X) Skin (Dust)

(X) Inhalation (Dust or Gas)

Acute Health Hazards: *Signs and Symptoms of Exposure—Emergency and First Aid Procedures.*

- INGESTION: Not applicable under normal use.

- EYE CONTACT: Gaseous formaldehyde may cause temporary irritation or a temporary burning sensation. Wood, paper or plastic dust(s) may cause mechanical irritation as a foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.

- SKIN CONTACT: Gaseous formaldehyde may cause allergic contact dermatitis in sensitized individuals, resulting in redness, itching and occasionally hives. Wood dust(s) of certain species may elicit allergic contact dermatitis in sensitized individuals, as well as mechanical irritation resulting in erythema and hives. Get medical help if rash, irritation, or dermatitis persists.

- SKIN ABSORPTION: Not know to occur with normal use.

- INHALATION: High concentrations of wood, paper or plastic dust(s) may cause unpleasant deposit/obstruction in the nasal passages, resulting in runny nose, dry cough and/or sneezing. Gaseous formaldehyde may temporarily irritate the nose and throat, and may aggravate preexisting respiratory conditions depending on the level of exposure. Remove to fresh air. Get medical help if persistent irritation, severe coughing or breathing difficulty occurs.

Medical Conditions Generally Aggravated by Exposure: Wood dust may aggravate preexisting respiratory conditions or allergies.

Chronic Health Hazards: Gaseous formaldehyde has been shown to cause cancer in certain laboratory animals after long-term exposure to very high concentrations (14+ppm), far above those normally found in the workplace with this product. Wood dust(s), depending on the species (for example, iroko, cocobolo), may cause allergic contact dermatitis with prolonged, repetitive contact, and respiratory sensitization after prolonged exposure to elevated dust levels (for example, western red cedar). Wood dust has been alleged to cause nasal/paranasal sinus cancer (certain European hardwoods: oak and beech).

Carcinogenicity Listing:

(X)	NTP	Formaldehyde
(X)	ARC Monographs	Formaldehyde
(X)	OSHA Regulated	Formaldehyde

CONTROL MEASURES - Personal Protective Equipment

- RESPIRATORY PROTECTION: Not applicable for product in purchased form. A NOSH/MSHA approved respirator is recommended when allowable exposure limits may be exceeded.
- PROTECTIVE GLOVES: Not required. However, cloth, canvas or leather gloves are recommended to minimize potential mechanical irritation from handling product.
- EYE PROTECTION: Not applicable for product in purchased form. Goggles or safety glasses are recommended when machining this product.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
- WORK/HYGIENE PRACTICES: Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation of this combustible material. Minimize blowdown or other practices that generate high airborne-dust concentrations.

Ventilation:

- LOCAL EXHAUST: Provide local exhaust as needed so that exposure limits are met.
- MECHANICAL (GENERAL): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.
- SPECIAL: Self-contained breathing apparatus (SCBA) is recommended when fighting fire.
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ADDITIONAL INFORMATION – Definition of Common Terms:

ACGIH	=	American Conference of Governmental Industrial Hygienists
C	=	Ceiling Limit
CAS #	=	Chemical Abstracts System Number
IARC	=	International Agency for Research on Cancer
MSHA	=	Mining Safety and Health Administration
NAP	=	Not Applicable
NAV	=	Not Available
NIOSH	=	National Institute of Occupational Safety and Health
NTP	=	National Toxicology Program
OSHA	=	Occupational Safety and Health Administration
PEL	=	Permissible Exposure Limit
STEL	=	Short-Term Exposure Limit (15 minutes)
TLV	=	Threshold Limit Value
TWA	=	Time-Weighted Average (8 hours)
WISHA	=	Washington Industrial Safety and Health Administration

Care, Handling, and Maintenance

Installation Instruction 101

Date: September 2017

Eggers Industries

The information included in this guideline is presented to help maintain your high quality wood doors. It includes the same basic information published by the Window and Door Manufacturers Association in Industry Standard I.S.-1A, as well as additional instructions specific to maintaining specialty doors.

STORAGE AND HANDLING

1. Store doors flat on a level surface in a dry, well-ventilated building. Doors should be kept at least 4 in. (102 mm) off the floor and should have protective coverings under the bottom door and over the top. Covering should protect doors from dirt, water, and abuse but allow for air circulation under and around the stack.
2. Avoid exposure of interior doors to direct sunlight. Certain species (e.g., cherry, mahogany, walnut, and teak) are more susceptible to discoloration if exposed to sunlight or some forms of artificial light.
3. Do not subject interior doors to extremes of heat and/or humidity. Do not allow doors to come in contact with water. Buildings where humidity and temperature are controlled provide the best storage facilities (recommended conditions 25%-55% RH and 50°F-90°F (10°C to 32°C).
4. Do not install doors in buildings that have wet plaster or cement. Do not store doors in buildings with excessive moisture content – HVAC systems should be operating and balanced.
5. Doors should always be handled with clean dry hands or while wearing clean dry gloves.
6. Doors should be lifted and carried when being moved, not dragged across one another.

FINISHING

Eggers recommends factory finishing to insure the most durable surface and uniform appearance. Factory finishing will also slow the response to changes in humidity. The following points provide guidance for doors being field finished.

1. Wood is hygroscopic and dimensionally influenced by changes in moisture content caused by changes within its surrounding environment. To assure uniform moisture exposure and dimensional control, all surfaces must be finished equally.
2. Doors should not be considered ready for finishing when initially received. Before finishing, remove all handling marks, raised grain, scuffs, burnishes and other undesirable blemishes by block sanding all surfaces in a horizontal position with 150 or 180-grit sandpaper. Sanding of the overall surface will be required to open the veneer grain to receive a field applied finish evenly. To avoid cross grain scratches, sand with the grain.
3. Certain species of wood, particularly oak, may contain extractives which react unfavorably with foreign materials in the finishing system. Do not use steel wool on bare wood, rusty containers or any other contaminate in the finishing system.

4. A thinned coat of sanding sealer should be applied prior to staining to promote a uniform appearance and avoid sharp contrasts in color or a blotchy appearance. Eggers will not be responsible for the final appearance of field-finished doors. It is expected that the painting contractor will make adjustments as needed to achieve desired results.
5. The top and bottom rails are sealed at the factory. All other exposed, unfinished wood surfaces should be finished. Cutouts for hardware in exterior doors and doors located adjacent to areas where high moisture is expected should be sealed prior to installation of hardware.
6. Dark colored finishes should be avoided on all surfaces if the door is exposed to direct sunlight, in order to reduce the chance of warping or veneer checking.
7. Water-based coatings on unfinished wood may cause veneer splits, highlighted joints and raised wood grain. If used on exterior doors, the coating should be an exterior grade product. When installed in exterior applications, doors must be properly sealed and adequately protected from the elements. Refer to Eggers' warranty for protection requirements.
8. Be sure the door surface being finished is satisfactory in both smoothness and color after each coat. Allow adequate drying time between coats. Desired results are best achieved by following the finish manufacturer's recommendations.
9. Certain wood fire doors have fire retardant salts impregnated into various wood components. Lightly sand treated wood before finishing to remove any surface salt that may be present.

INSTALLATION

1. Eggers recommends factory machining of all doors to insure proper machining tolerances. All labeled doors are required to be machined under licensed inspection service by NFPA 80.
2. The utility or structural strength of the doors must not be impaired when fitting to the opening, in applying hardware, in preparing for lites, louvers, plant-ons or other detailing.
3. The general rule is to use two hinges for solid core doors up to 60 in. (1524 mm) in height, and an additional hinge for every 30 in. (762 mm) or fraction thereof. This matches the requirements for installing fire doors. Refer to Eggers warranty and approvals for special provisions. Consult hinge or pivot hardware manufacturer with regard to weight and size of hinges or pivots required.
4. The maximum clearance between the top, hinge edge and lock edge to the frame and meeting edge of pairs of doors, is 1/8 in. (3.2 mm). NFPA 80 allows a tolerance of +0 and -1/16″ to this dimension.
5. All hardware locations, preparations and methods of attachment must be appropriate for the specific door construction.
6. When lite or louver cutouts exist in exterior doors, they must be protected in order to prevent water from entering the door core.
7. Pilot holes must be drilled for all screws that act as hardware attachments. Full threaded screws should be used for fastening hardware to non-rated doors and are required on fire-rated doors. Eggers does not warrant the use of self-tapping or combination (wood/metal) screws for the attachment of hardware.

8. In fitting non-rated doors for height, do not trim top or bottom edge by more than 3/4 in. (20 mm) unless accommodated by additional blocking. Trimming of fire-rated doors must be in accordance with NFPA 80.
9. Doors and door frames should be installed plumb, square and level.

CLEANING AND TOUCHUP

1. Inspect all wood doors prior to hanging them on the job. Repair noticeable marks or defects that may have resulted from improper storage and handling.
2. Field repairs and touchups are the responsibility of the installing contractor upon completion of initial installation. Field touchup shall include the filling of exposed nail or screw holes, re-finishing of raw surfaces resulting from job fitting, repair of job inflicted scratches and mars and final cleaning of finished surfaces.
3. When cleaning door surfaces, use a non-abrasive commercial cleaner designed for cleaning wood door or paneling surfaces, that does not leave a film residue that would build up or affect the surface gloss of the door finish. Refer to Eggers' eiDoor Maintenance information bulletin for vinyl door requirements.

GENERAL ADJUSTMENT AND MAINTENANCE

1. Insure that all doors swing freely and do not bind in their frame. Adjust the finish hardware for proper alignment, smooth operation and proper latching without unnecessary force or excessive clearance.
2. Periodically inspect all doors for wear, damage and natural deterioration.
3. Periodically inspect and adjust all hardware to insure that it continues to function as it was originally intended.
4. Finishes on exterior doors may deteriorate due to exposure to the environment. See Eggers' warranty for refinishing requirements.

SPECIFIC ADJUSTMENT AND MAINTENANCE FOR ACOUSTIC DOORS

1. Fixed seals should be routinely wiped clean and inspected for damage. Components that are damaged or otherwise fail to provide a continuous seal between the door surface and fixed elements of the assembly should be replaced. Seals may be wiped with a silicone coated cloth to help reduce opening and closing friction.
2. Operational seals such as automatic door bottoms should be routinely wiped clean and inspected for damage. Damaged seals should be replaced. These components need to be checked for proper operation to insure they seal when the door is closed and retract when the door is opened to prevent wear or damage. Seals may require periodic adjustment, per the hardware manufacturer's instructions.
3. Extra attention should be given to the hinging, closing and latching hardware. Tighten or shim hinges, adjust closures, and adjust latch strikes as required to insure the door remains squarely in the opening and makes a uniform continuous contact with the acoustic seals.

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Two Rivers Division
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Flush Doors, eiDoor®
Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

TRUE STILE AND RAIL AND 5-PLY FLUSH DOORS
Warranty Information

Date: February, 2017

Eggers Industries

DURATION OF WARRANTIES

DOOR TYPE	INTERIOR USE	EXTERIOR USE
Particle, Agrifiber	Life of original installation	Not warranted
SCL	Life of original installation	Three years from date of original installation
Stave	Life of original installation	Not warranted
Plastic	Life of original installation	Not warranted
Mineral Core	Life of original installation	Not warranted
Acoustical	Life of original installation	Not warranted
Acoustical Airport – Flush	Life of original installation	Five years from date of original installation
Lead Shielded	Life of original installation	Not warranted
Stile & Rail - Non-Rated	Life of original installation	Three years from date of original installation
Stile & Rail - 20 Minute	Life of original installation	Not warranted
Stile & Rail - 45, 60, 90 Minute	Life of original installation	Not warranted
Full Lite Construction	Life of original installation	Not warranted
Bullet Resistant	Life of original installation	Three years from date of original installation
Foam Core	Life of original installation	Not warranted

All doors manufactured by EGGERS INDUSTRIES of Neenah, Wisconsin and EGGERS INDUSTRIES of Two Rivers, Wisconsin (hereinafter referred to as Eggers) are warranted to be free from defects in material and workmanship which would render them unserviceable or unfit for the ordinary, recommended use for the time periods as set forth below. This warranty automatically applies to purchasers of doors from Eggers and extends on resale of the product. Claims should be processed through the intermediate suppliers. It is the responsibility of Eggers' intermediate suppliers to make the initial jobsite visit on a complaint to verify the issue and collect necessary documentation (i.e., sizes, pictures, etc.). On occasion, it may be necessary for Eggers to send a representative to the jobsite. If an Eggers representative is required to go to the jobsite and the issue is determined not be a manufacturer's issue, then the intermediate supplier will be charged for all applicable expenses related to the jobsite visit.

LIMITATIONS OF LIABILITY

Eggers shall not be liable for incidental, indirect or consequential damages arising from the manufacture, use or sale of these goods. (This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.) Eggers' liability is expressly limited to the repair or replacement of non-conforming goods or the refund of the purchase price, at the option of Eggers

If any door becomes defective after installation, Eggers agrees to bear the **reasonable expense** of repairs, rework, machining, finishing, removing and rehanging such repairs. Rework, removal and rehanging shall be performed only after approval is obtained from Eggers and the cost of such work has been determined. **In the event the defect for which the doors are being rejected was apparent prior to hanging, Eggers is not obligated to pay removal and rehanging charges.**

NOTICE REQUIREMENT

Since Eggers cannot control the handling or exposure of doors after shipment, a specific duty of inspection is imposed upon the purchaser as a condition precedent to any claim under this warranty. Such inspection must be made upon receipt of the goods and written notice of any claim must be received by Eggers within 30 days of receipt of the goods, or discovery of the defect. NO CLAIM UNDER THIS WARRANTY SHALL BE ACTIONABLE UNLESS THE FOREGOING NOTICE IS GIVEN AS SET FORTH HEREIN.

It shall not be the policy of Eggers Industries to inspect finished installations for the sole purpose of certifying that the installation is within warranty.

MATTERS EXCLUDED FROM THIS WARRANTY

TRUE STILE AND RAIL AND 5-PLY FLUSH DOORS
Warranty Information

Date: February, 2017

Eggers Industries

Since methods and conditions or installation and use are beyond the control of Eggers, this warranty is not effective unless the doors are stored, handled, finished, used and installed in strict accordance with the provisions set in the following guidelines of this warranty.

Eggers Door Warranty
Tolerances, Exclusions and Instructions

TOLERANCES

1. Stile, rail and core show-through (telegraphing) shall not be considered a defect unless the face of the door varies from a true plane in excess of 1/100 (.010) in any 3 span.
2. Warp shall not be considered a defect unless it exceeds 1/4 in the plane of the door itself. For doors 1-3/4″ or thicker, warp shall not exceed 1/4 in doors 3'6″ x 7'0″ or smaller, nor shall it exceed 1/4 in any 3'6″ x 7'0″ section of larger doors. For doors less than 1-3/4 thick, warp shall not exceed 1/4 in doors 3'0″ x 7'0″ or smaller. Warp is any distortion in the door itself and does not refer to the relationship of the door to the frame, jamb, or adjacent doors. Warp is measured by placing a straight edge on the concave face and determining the maximum distance from straight edge to door face.
3. Tolerances for all applied moulding locations are ± 1/8″ reference to all margins.

HANDLING, FINISHING AND INSTALLATION INSTRUCTIONS

1. Store doors flat on a level surface in a dry, well-ventilated building. Protect doors with an opaque covering that does not permit light to penetrate to keep the doors clean and avoid discoloration. Covering must allow air circulation. If doors are to be stored more than a week, all edges should be sealed. Deliver doors or frames to building site after HVAC system is operating and balanced and plaster or cement is dry.
2. Doors should not be subjected to extreme heat and/or humidity. Relative humidity should not be less than 25% or greater than 55% and temperatures should not be less than 50 degrees F. or greater than 90 degrees F.
3. Handle with clean gloves and do not drag doors across one another or across other surfaces.
4. The utility or structural strength of the doors must not be impaired in the fitting of the door, the application of hardware or cutting and altering for lites, louvers, panels or any other special details.
5. Use three hinges for doors 7'6″ in height or less, and one additional hinge for each incremental 30 of height over 7′6″.
6. Allow a fitting clearance of 1/16″ to 1/8″ at each side and at the top.
7. Seal all edges immediately after field fitting.
8. Prior to field applied finishes, doors must be sanded. The finisher should thoroughly sand the doors with 150-grit sandpaper going with the grain direction of the veneer. A hand block should be used to remove all scuffs, handling marks, scratches, raised grain, burnishes and effects of exposure to moisture that may occur during handling, unloading and storage.
9. Some woods, particularly oak, contain chemicals which react with iron. Do not use steel wool on oak doors.
10. Doors prefinished at the factory should be checked against approved finish sample prior to hanging. (Installation of prefinished doors shall constitute acceptance.)
11. Stile and rail doors not prefinished at the factory must be stained and sealed, or painted, within 10 working days after the doors arrive from Eggers. Stile and rail doors supplied to Hawaii or Alaska must be factory finished.
12. Pilot holes must be drilled for all screws that act as hardware attachments. Self-tapping or combination wood/metal screws are not warranted for use on wood doors.

EXCLUSIONS

This warranty does not cover:

1. The appearance of field finished doors.
2. Natural variations in the color, texture, character, or cut of the wood.
3. Doors with cutouts closer than 5″ to the door edge or doors with adjacent cutouts such as hardware, lites, louvers, etc. closer than stated minimums.
4. Doors which have cutout areas exceeding 54″ door height. However, waivers in writing from the factory are available on a per job basis. This exclusion is waived on special full lite construction warranted for life of original installation for interior use.
5. Doors that are improperly hung and door frames that are not plumb, square and level and do not allow the door to swing freely.
6. Warpage of doors less than 1-3/4 thick which are wider than 3'0″ or higher than 7'0″.
7. Normal wear and tear including wear-through of finish.
8. Doors supplied outside the United States for telegraphing or warpage unless approved by the factory.
9. Cracking of plastic laminated surfaced doors with openings cut by other than Eggers or its authorized representative. Radius of 1/4 at corners of openings must be maintained.
10. Incompatibility of hardware with a particular door construction. This includes mortises such as concealed closers, magnetic holders, etc. deeper than 2″ or wider than 1-1/4″ and concealed vertical rod devices, unless special reinforced construction is ordered.
11. Constructions involving different species, face materials, or veneer grain configurations on opposite sides of the door. This includes doors with different plastic colors or patterns on each face. This may create an unbalanced condition not warranted against warpage, cracking, delaminations, etc. Exclusion may be waived for SCL core flush doors or stile and rail doors with proper approval in the form of a letter from manufacturing.
12. Constructions, other than flush SCL, involving appliques (excluding applied moulding) that are applied to only one face of the door.
13. Doors that are not stored as outlined in the Handling, Finishing and Installation Instructions.
14. Doors stored longer than six months.

TRUE STILE AND RAIL AND 5-PLY FLUSH DOORS
Warranty Information

Date: February, 2017

Eggers Industries

15. OEM's warranty applies to all accessories supplied by Eggers.
16. Doors that have any form of face grooving which penetrate the crossbanding in excess of limitations set by the factory.
17. Doors altered by others for size by re-railing or re-stiling or refacing or defects resulting from other machining or alterations performed by others.
18. Stylus moulding on one side of the door. Applied moulding on one side of door if moulding is over 1-3/4″ wide, 3/4″ high or over 24 lineal feet. Miter joints and flatness on mouldings over 3″ in width.
19. Doors up to 7'6″ in height with less than three hinges and doors with less than one additional hinge for each incremental 30 of height over 7'6″. This exclusion is waived on non-rated particle, agrifiber, or stave core up to 8'0″, stile & rail doors up to 8'0″ and SCL core doors up to 9′0″ when installed with top and bottom pivot hardware.
20. Doors machined for corner mortised flush bolts unless installed with metal edges or flush bolt cap.
21. Doors machined for specified concealed vertical rods unless installed with metal CVR cap. Consult factory for applicable CVR devices.
22. Lites not glazed by Eggers, including glass breakage and damage to the door.

NOTE: Action on any claim for warp or telegraphing defects may be deferred at the option of the manufacturer for a period not to exceed 12 months to permit conditioning of the doors to temperature and humidity conditions.

EXTERIOR FLUSH AND STILE AND RAIL DOOR GUIDELINES
An exterior door is defined as one that cannot be controlled on both sides for temperature and humidity.

When exterior doors are machined for hardware or a lite opening, opportunity exists for moisture penetration into the door which will eventually cause deterioration. Therefore, the existence of the following conditions will void the warranty for exterior installations:
1. Doors installed outside the continental 48 states.
2. Failure to double seal all machined surfaces including openings and hardware cuts with exterior sealer.
3. Failure to properly protect lite cutouts in exterior doors to prevent moisture from seeping into the core. Lip mouldings and exterior caulk are required. The top of an exterior door must be properly protected by flashing (except STC doors for airport housing).
4. Failure to provide adequate overhead protection. Adequate overhead protection includes a maximum of 4 ft. between the top of the door and the bottom of the overhead, a minimum overhead protection of 4′ out from the face of the door and a minimum protection extension of 4′ out from each side of the door.
5. Failure to provide the entire door including top and bottom edges with two coats of a good quality paint, varnish or lacquer.
6. This warranty does not cover telegraphing and checking of exterior doors.

Additional Exterior Guidelines
1. Eggers will not quote the Stylus door for an exterior application.
2. Eggers will not quote exterior doors with concealed hardware (vertical rods, flush bolts and closers/holders/stops).
3. Eggers will not quote exterior doors with machining for pivots and magnetic switches in the top rail of the door.
4. Eggers will not quote exterior doors with louvers.
5. Eggers will quote 20-minute flush doors for exterior applications.
6. Eggers will not quote 45, 60 and 90-minute flush doors for exterior application.
7. Eggers will not quote doors for applications with applied moulding and reveals.
8. Eggers will not quote 20, 45, 60 and 90-minute stile and rail doors for exterior applications.

Exterior finishes should be used on the exterior faces and all edges of exterior doors. A complete and continuous finish must be maintained on all surfaces of the door and must be refinished annually.

Airport Housing Projects
STC doors have been approved for residences around airports in Southern California and the Southwest with a five-year warranty. Contact the factory regarding exterior STC door requirements for airport housing projects in other locations. Top flashing not required on STC doors.

It should be noted that both the WDMA and AWI Standards indicate that wood doors are not recommended for exterior use.

Eggers Industries
www.eggersindustries.com
sales@eggersindustries.com

Stile and Rail Doors, Door Frames, Plywood, Veneered Components
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One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

Flush Doors, eiDoor®
Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces, Custom Wood Products, Plywood
Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.845.0615

STANDARD TERMS OF SALE

Date: January, 2017

Eggers Industries

1. **Purpose and Acceptance of Order** – These terms are presented to avoid a misunderstanding between the customer and the vendor. Our acceptance of your order is expressly conditioned upon your confirming the accuracy of your order as acknowledged and your acceptance of our terms and conditions set forth. Our terms and conditions may be different from or additional to the terms of your purchase order.
2. **Credit Terms** - If vendor extends credit to customer, payment terms shall be Net 30 days from date of invoice. Vendor may change or withdraw credit amounts or payment terms at any time for any reason. If customer fails to make any payment when due, vendor may suspend or cancel performance on any orders in which vendor has extended credit to customer. Vendor's' suspension of performance may result in rescheduling delays. If, in vendor's judgment, customer's financial condition does not justify the payment terms specified herein, then Eggers may require customer to immediately pay for all materials that have been shipped/delivered and pay in advance for all materials yet to be shipped/delivered. Suspension in accordance with this clause shall not affect vendor's right to pursue any other available remedies.
3. **Price** – These prices are based on the order as written, not necessarily on your inquiry or original quotation. Prices as shown on the acknowledgment are final and will be invoiced on the date of shipment.
4. **Cancellation of Order** – Upon cancellation of an order in process, billing will be made to the customer for all work and materials expended up to the cancellation date. The order will be completed and/or materials shipped only at specific request of the customer. It is the manufacturer's option to use any materials from a cancelled order elsewhere, anytime following the cancellation of the order, and cancellation charges are based on this option.
5. **Change/Revision Charge** – Any change to an order that has already been released out of sales will be assessed a charge of $250/order plus any applicable material and labor costs associated with the change.
6. **Damaged Material** – This material will be carefully inspected and in good condition when accepted by the carrier. If damage occurs, it is your responsibility to immediately notify the transportation company to make an inspection prior to discarding packaging material. If packaging material is damaged, you must make the request upon receipt of the materials. The customer must not sign an inspection receipt that puts responsibility of damage on the shipper because of insufficient protection of materials without the consent of the shipper. If you feel the damage occurred prior to shipping, or is our responsibility, contact our company representative. The packaging material must be saved for our inspection. We will accept full responsibility for damaged material only if all of the above procedures are followed.
7. **Freight Allowance** – All quotations made with freight allowance are FOB Factory and based on method of shipment quoted. Should the customer request an alternate method of shipment, additional freight charges will be assessed.
8. **Required Customer Information** – If the customer fails to supply adequate hardware machining information or fails to agree on a finish sample, the company reserves the right to credit the charges for these items and ship the door without pre-machining or pre-finishing the product.
9. **Appearance** – All doors must be visually inspected for face grade, color, match, and other defects by the customer prior to further work or installation. If manufacturing defects are detected after staining or sealing, no additional coat of finish may be applied without approval of the manufacturer. We are responsible for repairing or replacing material as originally furnished, but not refinishing or reinstallation if the defect could be detected prior to further work or installation.
10. **Sanding Prior to Finishing** – Prior to field applied finishes, doors must be sanded. The finisher should thoroughly sand the doors with 150-grit sandpaper going with the grain direction of the veneer. A hand block should be used to remove all scuffs, handling marks, scratches, raised grain, burnishes and effects of exposure to moisture that may occur during handling, unloading and storage.
11. **End Matching** – An end match variation of grain pattern is considered acceptable for face of panels of 3/8" and back of panels of 7/8".
12. **Storage and Installation Conditions** – It is the responsibility of the customer to store and install the product in an enclosed area where the relative humidity is maintained between 25% and 55%. Certain veneers such as Cherry, Mahogany, Teak, Walnut, etc. may be damaged if exposed to either sunlight or forms of artificial light. Cover doors to keep clean and avoid discoloration with an opaque covering which does not permit light to penetrate during storage or staging. Covering must allow for air circulation. If doors are to be stored for more than one week, all edges should be sealed.
13. **Industry Standards** – For items not covered by these Standard Terms of Sale, these industry standards apply:
    a. Hardwood Plywood Veneer Association (HPVA), or
    b. Window & Door Manufacturers Association (WDMA), or
    c. Architectural Wood Institute (AWI), or
    d. Woodwork Institute (WI)
14. **Warranty** – Our sole and exclusive warranty to you under this contract is that the goods sold pursuant to this Contract will be as described and be free of any defects in parts and workmanship, if used under normal circumstances and in accordance with any instructions given to you. Except as expressly provided to the contrary in

paragraphs 10 and 11. **WE EXPRESSLY DISCLAIM ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSES OF THE BUYER AS PROVIDED BY THE UNIFORM COMMERCIAL CODE.** It is also agreed that our remedies to you for your breach under this Contract shall consist of the following, any or all of which may be exercised by us at our sole option and no others:

a. Repair the product without charges to you,
b. Replace the product without charge in the same stage of installation and/or finishing as originally supplied to you, or
c. Refund the purchase price.

If requested by the customer, only an Eggers Warranty will be issued for the project upon receipt of full payment as acknowledged by Eggers.

15. **Consequential Damages** – In the event that we breach this Contract, we shall not be liable to you for any consequential damages arising out of such breach. In the event that any other term of this Contract is found unconscionable or unenforceable for any reason, or the remedies identified in paragraph 12 above fail of their essential purpose, the provision of waiver by agreement of consequential damages shall continue in full force and effect.
16. **Shipping Delays** – We are excused from performing any of our obligations under this Contract which are prevented or delayed by any occurrence not within our control, including, but not limited to, destruction or damage to the goods of our manufacturing plant, strikes or other labor matters, floods, fire, accidents, riots, explosion, or any regulations, rules, ordinances or orders of any governmental authority, federal, state, or local.
17. **Choice of Law** – The terms, rights, and obligations under this Contract shall be construed under the laws of the State of Wisconsin.

Cancellation Charge	
Orders not started in production	No charge
Order that is in production	$200 per order plus the cost of rework, restock, etc. as well as labor expended.
All Fast Track Orders	$200 per order plus the cost of rework, restock, etc. as well as labor expended.

Change/Revision Charge	
Any change to an order that has been released out of sales	$250/order plus any applicable material and labor costs associated with the change.

STANDARD TERMS OF SALE

Date: January, 2017

Eggers Industries

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Fax: 502.845.0615

STILE & RAIL DOORS

Eggers stile & rail doors set the standard for architectural entryways. Our doors make a strong and lasting impression while surpassing every expectation of quality and value.

Eggers Industries



Turning nature's beauty into works of art

TRUE STILE & RAIL DOORS

Eggers doors are expertly manufactured for lasting service and impressive aesthetics. By creating our own veneer faces and components, including louvers, we're able to offer our customers greater quality control and compatibility.

At Eggers, we can create and match a variety of custom architectural designs, ranging from the most contemporary styles to historical renovations. Many of our configurations are available with up to 90-minute fire ratings.



ENGINEERING SPECIFICATIONS	NON-RATED STILE & RAIL DOORS

Size	4’ x 11’ - Single 8’ x 11’ - Pairs					
Thickness	1-3/4”, 1-3/8” and 2-1/4”					
Face Veneers	Cherry	Mahogany	Natural Birch	Red Oak	Walnut	White Birch
	White Maple	White Oak	PG Poplar	PS Birch	Other available upon request	
Doors	Pressed Panel (Standard) 1-3/8” thick doors - 3/4” panels with 1/4” tongue 1-3/4” thick doors - 1-1/8” panels with 5/8” tongue 2-1/4” thick doors - 1-1/8” panels with 5/8” tongue 2” radius with a 2 degree bevel Max. panel size is 36” x 92” Min. panel size is 7” x 7” Rim Banded Panel (Optional) 3-ply, 1/40” face, lumber-banded particleboard or MDF core, mitered corners, compatible with face species 1-3/8” thick doors - 1-1/8” thick standard 1-3/4” thick doors - 1-1/8” thick standard, 1-1/2”, 1-5/8” optional 2-1/4” thick doors - 1-1/2” thick standard, 1-5/8” optional Min. panel size is 4-1/2” x 4-1/2” Flat Panels (Optional) 1-3/8” - 1/4” standard thickness 1-3/4” - 2-1/4” - 5/8” standard thickness Min. panel size is 4-1/2” x 4-1/2”					
Dimension		Standard	Minimum if Specified			
	Stile Face	6”[1]	5”[1], or 2-1/2” if under 1’9” wide			
	Top Rail Face	6”	5”			
	Bottom Rail Face	10”[2]	8”			
	Cross Rail Face	5”	2-1/2”			
	Mullion Face	5”	2-1/2”			
Machining	Mortise for appropriate hardware No preparation for surface-mounted hardware					
Factory Finish	UV-cured, primed and painted as specified					
Details	Standard sticking - see website	Wood preservative	Sketch face panels			
	Custom sticking with factory approval	Grillwork with factory approval	Panel matching standard per AWS/WDMA			
	Radiused head doors	Dutch doors or acoustical doors				
Warranty	Interior: Life of original installation					
Standards	WDMA I.S. 6A-11; AWS Section 9 Edition 2					

[1]Requiring 1” from edge of face of stile to edge of lock cutout on prefit door. [2] Meets ADA requirements.





ENGINEERING SPECIFICATIONS	20-MINUTE STILE & RAIL DOORS

Sizes	Max. 4' x 10' - Single Max. 8' x 10' - Pairs Double egress available
Thickness	1-3/4" and 2-1/4"
Face Veneers	Cherry Mahogany Natural Birch Red Oak Walnut White Birch White Maple White Oak PG Poplar PS Birch Others available upon request
Pairs	20-minute negative pressure pairs require fire retardant meeting edges or metal t-astragal Double egress with label available
Panels	Min. size: 7" x 7" (standard pressed) 4-1/2" x 4-1/2" (optional rim banded) Min. thickness: 1-1/8" raised or 5/8" flat panel
Dimension	Stile Face: Standard 6"[1], Minimum if Specified 5"[1] Top Rail Face: 6", 5" Bottom Rail Face: 10"[2], 8-3/4"[3] Cross Rail: 5", 2-1/2" Mullion Face: 5", 2-1/2" Mullions between Lite Faces: 5", 2-1/2"
Approved Hardware **Cylindrical Lock**	Per NFPA 80 and UL approvals Min. 1/2" latch throw on singles; 5/8" on pairs
Max. Backset	5"
Lock Sets	UL listed and approved mortise or cylindrical locks for wood doors
Concealed Vertical Rods	UL listed and approved concealed vertical rods without metal channel min. stile width 6" next to panels and 7" next to lite opening
Hinges	Min. 4-1/2" x 4-1/2" x .134" steel per NFPA 80; three each to 90" high; additional hinge for each 30" or portion UL listed mortise, surface or spring pivots or hinges per NFPA 80 pivots require intermediate pivot
Automatic Flush Bolts	UL listed for use in wood doors Some flush bolts may require end caps for warranty
Door Viewers	Listed viewer requiring max. 1" diameter hole – must be located in a mullion, crossrail or min. 1" thick panel and be a min. of 12" from other hardware
Closers	UL listed mortise closer arms with mortise not to exceed 1-9/32" W x 1-1/2" D x 23-5/8" L
Lites[4] **1/4" Clear Glass**	Min. 1-1/2" from adjacent hardware cutouts Max. 87-9/16" high visible glass True divided lites - total opening max. 35-7/8" x 89-5/8"
Factory Finish	UV-cured, primed or painted as specified
Details	Standard sticking – see website Wood preservative Sketch face panels Custom sticking with factory approval Grillwork with factory approval Panel matching standard is per AWS/WDMA Radiused head doors Dutch doors or acoustical doors
Warranty	Interior: Life of original installation
Standards	WDMA I.S. 6A-11; AWS Section 9 Edition 2; UL10B, UL10C, NFPA 80, IBC

1 Requiring 1-1/2" from edge of face of stile to edge of lock cutout on prefit door, lite doors. 1" at panel doors. **2** Meets ADA minimum requirements. **3** Minimum on prefit door. **4** Warranty excludes lites not glazed by Eggers, including glass breakage and damage to the door.

Suggested Specs for Non-Rated/20-Minute Doors

- Stiles, rails and mullions are to have a 1/16" face veneer before sanding.
- Stiles, rails and mullions to be assembled with dowels and glued under pressure.

Lite Bead Compatibility for Non-Rated/ 20-Minute Doors

- 20-minute doors come standard with Pyroswiss glass.
- The raised panel thickness is 1-1/8".

Suggested Specs for 45- and 60-Minute Doors

- Stiles, rails and mullions are 1-3/4" thick, 5-ply with 1/16" face veneer before sanding.
- Stiles, rails and mullions are to be assembled with dowels and glued under pressure.

Lite Bead Compatibility for 45- and 60-Minute Doors

- The lite beads on 45- and 60-minute doors do not match lite beads in 20-minute and non-label doors.
- The profile of lite beads in 20-minute and non-label doors may be changed by specifying a 5/8" square bead to match the 45- and 60-minute lite bead.
- The profile of the 45- and 60-minute lite bead cannot be changed.

Suggested Specs for 90-Minute Doors

- Stiles, rails and mullions are 2-1/4" thick, 5-ply with 1/16" face veneer.
- Stiles, rails and mullions are to be assembled with dowels and glued under pressure.

Lite Bead Compatibility for 90-Minute Doors

- The lite beads on the 90-minute doors do not match the beads on non-rated, 20-, 45- and 60-minute doors.
- The profile on the 45- through 90-minute lite bead cannot be changed.

Paint Grade Stile and Rail

The upscale look of a stile and rail door at an attractive price point. This 1-3/4" MDF construction provides options for premachining, lites, 20-minute fire ratings and opaque or primed finishing.

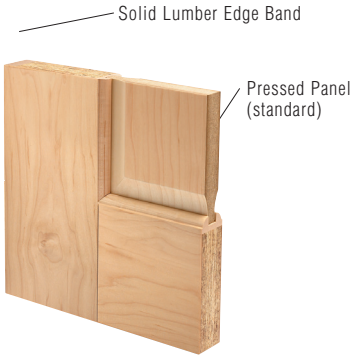
Acoustical Doors

Eggers acoustical doors have the highest STC ratings in the industry. Our capabilities allow you to combine the privacy of acoustical performance with other special functionality to meet the design requirements and building codes for your projects. Eggers' offerings include, but are not limited to:

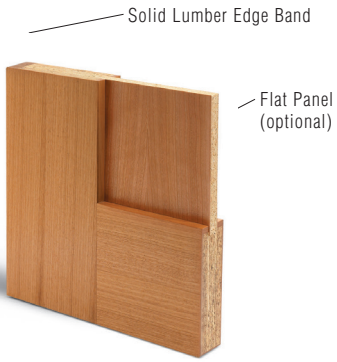
- Acoustical designs fire-rated up to 90-minute.
- STC ratings up to 40 for stile & rail doors.
- Lite openings up to 1,296 sq. in.
- Veneer or HDF faces.
- A variety of gasket system options with or without
- raised thresholds and automatic door bottoms.
- Complete gasket system and installation
- instructions provided with STC doors.
- Combined STC, LEED® and FSC® certified offerings.

Door Patterns

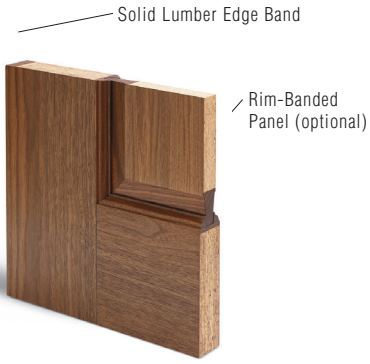
Please contact Eggers or go to the Eggers' website, www.eggersindustries.com, to view all door patterns.



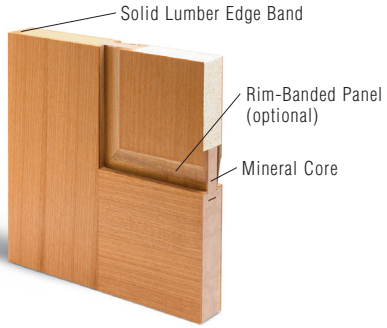
Non-Rated/20-Minute Pressed Panel Standard Construction



Non-Rated/20-Minute Flat Panel



Non-Rated/20-Minute Rim-Banded Panel



60-Minute/Fire-Rated Positive Pressure

ENGINEERING SPECIFICATIONS[6]	45- & 60-MINUTE STILE & RAIL DOORS **			
	45-Minute Singles	45-Minute Pairs[1]	60-Minute Singles	60-Minute Pairs[1]
Max. Size	4' x 9'	8' x 8' Std. & Dbl. Egress	4' x 9'	8' x 8' Std. & Dbl. Egress
Thickness	1-3/4"			
Stile Face	Standard 6"; Minimum 6" with mortise lock; Minimum 5" with 2-3/4" backset cylinder lock			
Top Rail Face	Standard 6"; Minimum 5"			
Crossrail Face	Standard 5"; Minimum 3"			
Bottom Rail Face	Standard 10"[8]; Minimum 8-3/4"[10]			
Mullion Face	Standard 5"; Minimum 3"			
Raised Panels	Thickness: 1-11/16"; Minimum Size: 6" x 6"; Maximum Size: 38-1/8" x 80"			
Flat Panels	Thickness: 1-1/8"; Minimum Size: 4-1/2" x 4-1/2"; Maximum Size: 38-1/8" x 80"			
Rabbeted Transom[2, 3]	Max. 3' x 3' Transom Max. 3' x 9' Frame	N/A	Max. 3' x 3' Transom Max. 3' x 9' Frame	N/A
Straight Cut Transom	Max. 3' x 3' when used with a transom bar			
Lock Sets	UL listed and approved mortise or cylindrical locks for wood covered composite doors			
Closers	UL listed mortise closer arms with mortise not to exceed 1-9/32" W x 1-1/2" D x 23-5/8" L			
Dead Bolts	With single point latching mechanism - min. 6" above latch			
Fire Exit Hardware	Listed and approved fire exit hardware, no prep for surface-mounted - UL listed and approved concealed vertical rods (CVR) available without metal edges (CVR not available on single door doors)			
Top and Bottom Bolts[9]	N/A	Listed surface, automatic or manual bolts up to 24" with 28 ga. liner	N/A	Listed surface, automatic or manual bolts up to 24" with 28 ga. liner
Louver[5]	Max. 24" x 30" UL listed fusible link louver Not allowed in doors with lite openings or fire exit hardware			

1 Pairs with steel astragal set at meeting edges and single point latching mechanism at active leaf are available at additional cost. **2 Stanley #1697 spring bolts for transom installation. **3** Meeting edges of rabbeted door transom from white, high-density mineral boards. May be wood veneer wrapped. **4** Minimum 3" margins from edge of lite opening to adjacent cutouts for hardware or door edges. **5** Minimum 10" margins from edge of louver opening to bottom of door. **6** Fire doors will be manufactured and labeled in accordance with procedures and product approvals established by and between Eggers Industries and Underwriter's Laboratories. Construction details may change without notice. **7** 60-minute doors with more than 100 sq. in. of visible glass will not have a temperature rise rating on the label. **8** Meets ADA minimum requirements. **9** Some flush bolts require end caps for warranty. **10** Minimum on prefit door.

Special Details for 45-, 60-, 90-Minute Stile & Rail Doors

- Sketch face panels, applied moulding and grillwork with factory approval - panel matching is standard per AWS/WDMA
- Acoustical doors for 60-minute pairs and 90-minute singles and pairs (please visit eggersindustries.com for more information)

Face Veneers

Cherry, White Maple, Walnut, Mahogany, White Oak, White Birch, Natural Birch, PG Poplar, Red Oak, PS Birch and others available upon request.

Hardware Machining

Hinges / Pivots - Min. 4-1/2" x 4-1/2" x .134" steel per NFPA 80; three each to 90" high; additional hinge for each 30" or portion. UL listed mortise, surface or spring pivots or hinges per NFPA 80. UL listed and approved pivots for wood composite doors; pivots require intermediate pivots.

Factory Finishing

UV-cured, primed or painted as specified - interior only.

Warranty

Life of original installation, not warranted for exterior installation.

Standards

WDMA I.S. 6A-11, AWS Section 9 Edition 2; UL10B, UL10C, NFPA80, IBC

ENGINEERING SPECIFICATIONS[6]	90- Minute WHI Singles		90-Minute WHI Pairs	90-MINUTE STILE & RAIL DOORS 90-Minute UL Singles	90-Minute UL Pairs
Max. Size	3'6" x 8'	4' x 7'	7' x 8' std. swing	4' x 9'	8' x 8' st. & dbl. egress
Thickness	1-3/4"		1-3/4" [1]	2-1/4"	2-1/4" [1]
Stile Face	Minimum 4-1/2" with surface exit hardware, minimum 5" with 2-3/4" backset cylinder lock, minimum 6" with mortise lock			Minimum 6" with mortise lock; 5" minimum with 2-3/4" backset cylinder lock	
Top Rail Face	Minimum 4-1/2"			Minimum 5"	
Crossrail Face	Minimum 3-1/2"			Minimum 3"	
Bottom Rail Face	Minimum 6" [10]			Minimum 8-3/4" [10]	
Mullion Face	Minimum 3-1/2"			Minimum 3"	
Raised Panels Thickness:	1-1/2"	1-5/8"	1-5/8"	1-3/4"	
Minimum Size:	6" x 6"			6" x 6"	
Maximum Size:	N/A			38-1/8" x 80"	
Flat Panels Thickness:	5/8"	7/8"	7/8"	1-3/16"	
Min. Panel Qty:	N/A	N/A	N/A	N/A	
Minimum Size:	6" x 6"			4-1/2" x 4-1/2"	
Maximum Size:	N/A			38-1/8" x 80"	
Rabbeted Transom[2,3]	N/A			Max: 3' x 3' transom Max: 3' x 9' frame	N/A
Straight Cut Transom	N/A			Max. 3' x 3' with a transom bar	
Lock Sets	UL listed and approved mortise or cylinder locks for wood covered composite doors			UL listed and approved mortise or cylinder locks for wood covered composite doors	
Closers	Surface closers and listed mortise closer arms with mortise not to exceed 17-5/16"L X 1-1/4"W X 1-1/8"D			Surface closers and listed mortise closer arms with mortise not to exceed 17-5/16"L X 1-1/4"W X 1-1/8"D	
Dead Bolts	N/A			With single point latching mechanism, minimum 6" above latch	
Fire Exit Hardware	Top & bottom mortise rim or surface only, no prep for surface mounted.			UI listed and approved fire exit hardware, no prep for surface mounted; concealed vertical rods (CVR) available without metal edges (CVR not available on single doors)	
Top and Bottom Bolts[9]	N/A		Listed surface or mortise automatic only	N/A	Listed surface or mortise automatic only
Louver[5]	N/A			Maximum 24" x 30" fusible link louver. Not allowed in doors with lite openings or fire exit hardware.	

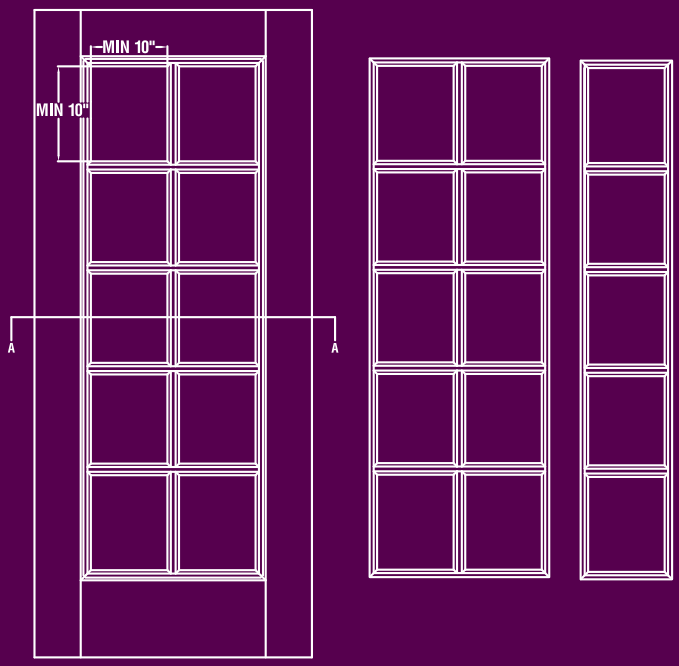
1 Pairs with steel astragal set at meeting edges and single point latching mechanism at active leaf are available at additional cost. **2 Stanley #1697 spring bolts for transom installation. **3** Meeting edges of rabbeted door transom from white, high-density mineral boards. May be wood veneer wrapped. **4** Minimum 3" margins from edge of lite opening to adjacent cutouts for hardware or door edges. **5** Minimum 10" margins from edge of louver opening to bottom of door. **6** Fire doors will be manufactured and labeled in accordance with procedures and product approvals established by and between Eggers Industries, Underwriter's Laboratories. and Warnock Hersey. Construction details may change without notice. **7** 90-minute doors with more than 100 sq. in. of visible glass will not have a temperature rise rating on the label. **8** Meets ADA minimum requirements. **9** Some flush bolts require end caps for warranty. **10** Minimum on prefit door.

REMOVABLE TRUE-DIVIDED LITE GRILLWORK

Removable true-divided lite grillwork is a new and innovative offering from Eggers Industries. It's a cost-effective and practical alternative to traditional true-divided lites. The grillwork provides a high-end appearance without the need for high maintenance. It easily snaps in and out of door lite openings for effortless cleaning.



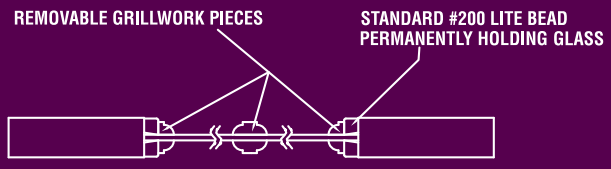
Layout Examples



Grillwork Specifications

- Glass is held permanently in place with our standard lite bead.
- Minimum visible glass in each lite opening is 100 sq. in. with minimum dimension of 10" x 10".
- Grillwork is not available in any curved profile or layout.
- Grillwork is suitable only with 1/4" glass.
- Interior use only, not available for exterior doors.
- Not available in fire-rated doors.
- Grillwork will be the same specie as the lite beads.
- Maximum lite size is 80" high x 40" wide.

Section A-A



Eggers Industries

www.eggersindustries.com
sales@eggersindustries.com

Stile and Rail Doors, Door Frames Veneered Components, Plywood

Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces, Custom Wood Products, Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.845.0615

Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supersede those in print.

The FSC certification ensures responsible use of forest products. 501-12-15
Look for FSC certified products.

FSC www.fsc.org FSC® C019991
The mark of responsible forestry

RAINFOREST ALLIANCE CERTIFIED

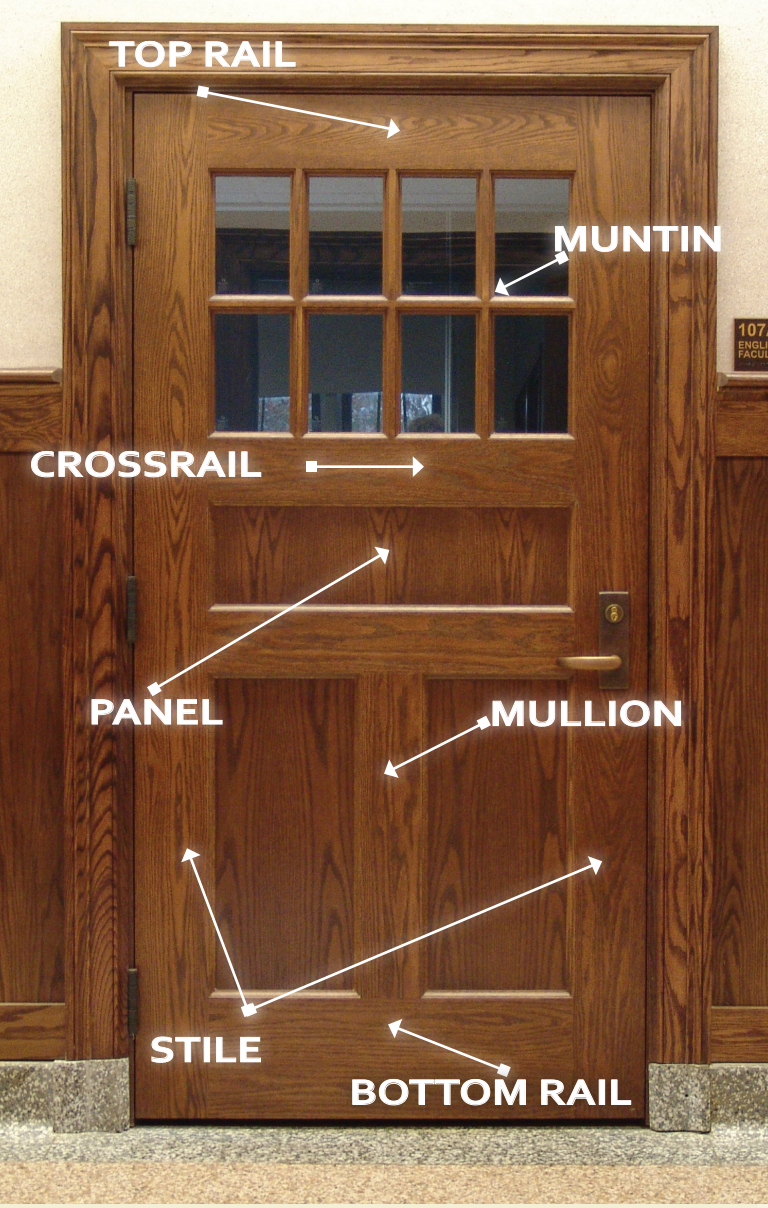
CERTIFIED ARCHITECTURAL WOODWORK INSTITUTE QUALITY WOODWORK

CERTIFIED INDOOR AIR QUALITY IAQ GLOBAL SERVICES
INDOOR ADVANTAGE GOLD BUILDING MATERIALS

Eggers Industries

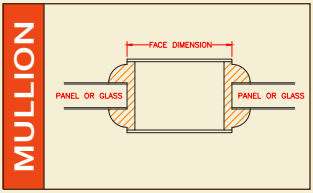
Give your project the *Style* it deserves with Eggers' Stile & Rail Doors

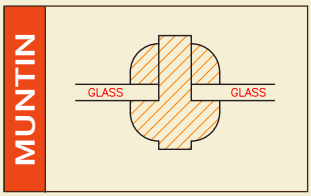




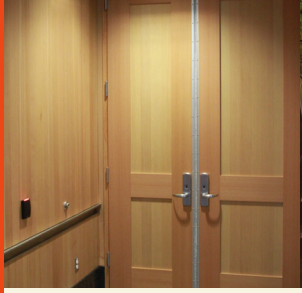
OTHER STILE & RAIL COMPONENTS

Mullions are the upright or vertical components located between panels or lites. Their function is similar to a crossrail.
Muntins are used at glass openings. They are a shorter, horizontal or vertical member extending from a mutin bar to a stile, rail or another mutin bar.





STILE & RAIL - It's in the Details





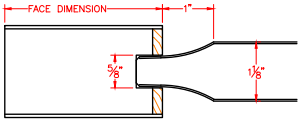
- Eggers' standard construction is to use a 10" bottom rail as this complies with ADA requirements.
- True rim banded construction is an option as well as membrane pressed and flat panels.
- FSC® certified and no urea-formaldehyde requirements are available on Stile & Rail doors.
- Available with acoustical ratings up to STC 40.
- Lite capabilities up to 1,714 sq. in. on 45-minute 1-3/4" doors with veneer-wrapped bead; 1,296 sq. in. on 90-minute 2-1/4" doors.
- Pair matching is not available on Stile & Rail doors, all pairs will be pleasing match.
- Package Stile & Rail doors perfectly with matching Wood Jambs.
- Sketchface panels within the door are an option.
- Three year exterior warranty now standard for Stile & Rail doors.
- True AWS or WDMA premium grade construction with AA grade veneer available.

STANDARD PROFILES

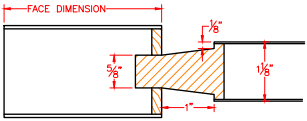
Sticking vs Bead

What is the difference?

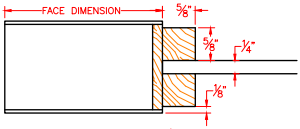
SQUARE



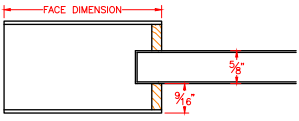
MEMBRANE RAISED PANEL



RIM BANDED RAISED PANEL

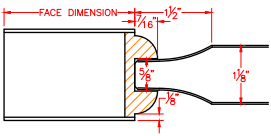


BEAD LOOSE 2 SIDE / GLASS

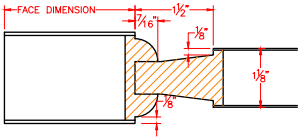


FLAT PANEL

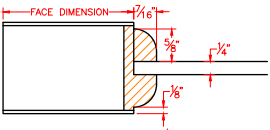
QUARTER ROUND



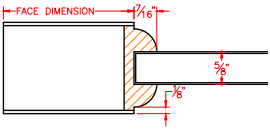
MEMBRANE RAISED PANEL



RIM BANDED RAISED PANEL



BEAD LOOSE 1 SIDE / GLASS



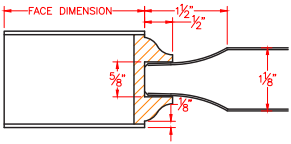
FLAT PANEL

Did you know?

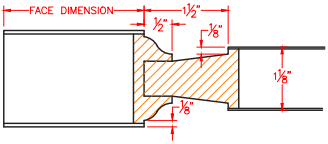
Submittal drawings are available for all Stile & Rail quotes. This professional document is ready for you to submit Eggers with confidence for your next Stile & Rail project.

Sticking holds the panels in place and is fixed to the stiles, therefore, cannot be removed. Bead is offered loose on one side or two.

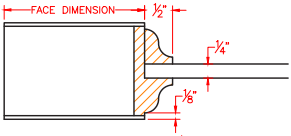
OGEE



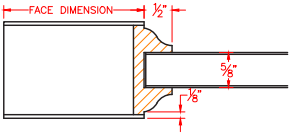
MEMBRANE RAISED PANEL



RIM BANDED RAISED PANEL

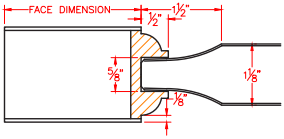


BEAD LOOSE 1 SIDE / GLASS

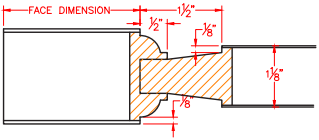


FLAT PANEL

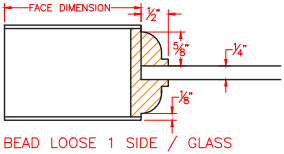
OVOLO



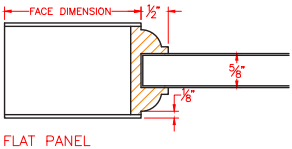
MEMBRANE RAISED PANEL



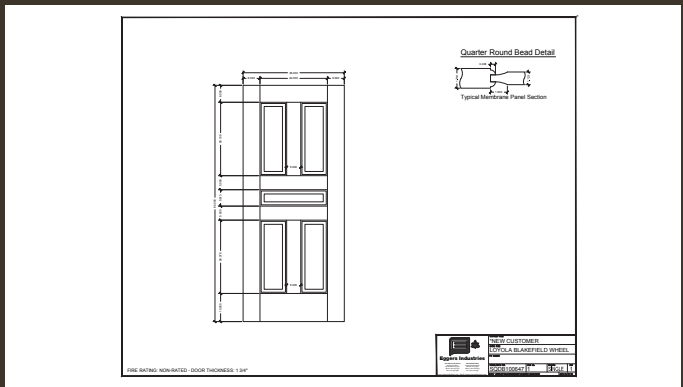
RIM BANDED RAISED PANEL



BEAD LOOSE 1 SIDE / GLASS



FLAT PANEL



THE EGGERS ADVANTAGE

Our exquisite craftsmanship and attention to detail is evident in our standard Stile & Rail designs but don't let that limit you. Eggers is ready to bring life to your custom layouts, profiles, sticking and design intentions.

Historical renovations, projects utilizing exotic veneers or thin veneers, and intricate sketchface panel designs are all opportunities for you to impress your customer.



FIRE-RATED STILE & RAIL



1-3/4” 45-60-minute
2-1/4” 90-minute

- Non-Combustible Gypsum Core
- Positive Pressure Cat A - No-Metal Edge
- Single: 4'-0" x 9'-0" max size
- Pair: 8'-0" x 8'-0" max size
- Full-Lite 45-Min. Option
- Custom Designs Available

1-3/4" 90-minute

- Single: 3'-6" x 8'-0" or 4'-0" x 7'-0" max size
- Pair: 7'-0" x 8'-0" max size
- Stiles and Top Rail Min. = 4.5"
- Crossrails / Mullions Min. = 3"
- Hardware:
  - Standard butt hinges, offset pivots and continuous hinges
  - Mortise and cylindrical locks and SVR’s
  - Mortised auto flushbolts
  - Concealed closer track (ITS 96-1 with closer body in the frame)
- Lites - not available

Eggers Industries

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sales@eggersindustries.com

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Plywood
Kentucky Division
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Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.849.0444

SOUNDWOOD ACOUSTICAL PRODUCTS

Eggers Industries melds technology with style to produce beautiful, high-performing acoustical doors and frames.

Eggers Industries

Soundwood™
ACOUSTICAL WOOD PRODUCTS BY EGGERS



Turning nature's beauty into works of art



SOUNDWOOD ACOUSTICAL PRODUCTS

Eggers' sound control openings have the highest STC ratings in the industry, made of solid wood and wood composite based materials. Our capabilities allow combinations of acoustical performance and other special functionalities to meet design requirements and building codes. Eggers' STC doors and frames are found in airports, healthcare, and hospitality facilities, government and municipal buildings as well as educational institutions. Typical applications of our acoustical doors and frames include performance venues, conference rooms, lecture halls, auditoriums, and classrooms.

Our acoustical products include doors and frames that have been evaluated for sound transmission at a qualified testing laboratory using ASTM standard test method E-90-XX (where XX refers to the year). To ensure applicable data, make certain the products you are specifying reference an acceptable revision date of the test method. Products tested with old standards may not provide the same level of performance as those tested with newer versions.

Acoustical Performance Testing Methods

There are two ways to test and report the acoustical performance of doors. The first is as a fixed panel. This is done by fully sealing the door to frame perimeter and eliminating any sound leaks around the door perimeter. This type of test is helpful in determining the performance of the basic construction, but does not represent an operational application.

The second method is to test an operable assembly. In this case, the door is installed in a frame, including hinging and latching hardware as well as a gasketing system. In addition to including all of the required components of an operable assembly, the test method requires the door be operated normally through five open/close cycles, without subsequent adjustments, prior to running the acoustic test. This test method provides more useful performance values than an inoperable test. When comparing STC ratings, be sure that the ratings represent operable doors. While Eggers conducts research and development tests of many of our constructions as sealed panels, the advertised STC numbers are always for operable assemblies.

Eggers has generally limited the variables tested to the door construction, application and the gasketing system. With a few notable exceptions shown on our product matrix, we have limited our testing to readily available hardware and gasketing materials, ADA approved thresholds (where applicable), and steel frames. A special note regarding frames is appropriate here. Where steel frames are used in testing, they are normally fully grouted with cement. This is a standard method of installation at testing laboratories and is done to insure the resulting STC rating represents only the doors and gasketing system. This is not meant to restrict the openings in which acoustic doors are used. In many circumstances, existing frames or installation conditions may prevent the use of a solid filled frame. Where other types of fill are used, an acoustic consultant should be employed to determine if the alternate fill will maintain the desired acoustic performance for the opening. As long as the framing provides an acoustic performance equal or greater than the door rating, the advertised STC will be maintained.

The relevance chart below is given as a general guideline of the effect various STC ratings have on speech being heard through the door.

Advantages of Eggers Acoustic Doors

Eggers has conducted acoustic tests on all of our standard door constructions. In many cases where the acoustics properties need to be known, but are not the primary objective, gasketing a standard door construction may be all that is required. When the project design requires acoustic performance above and beyond the standard doors, Eggers has designed and tested a full line of specialty constructions. Benefits offered by this broad range of products include:

STC Rating	Speech heard through the door
30	Loud speech can be understood fairly well
35	Loud speech audible but not understandable
40	Loud speech audible as a murmur
45	Loud speech barely audible
50	Loud speech not audible

- STC ratings ranging from 38 through 52
- Applications that include single swing, standard swing pairs, doors and transoms and dutch doors
- Acoustic rating for both flush doors and stile and rail doors.
- Applications without lites, with small lites (100 sq. in.), medium sized lites (400 sq. in.), large lites (1296 sq. in.) and even full lites
- Applications with 20-minute, 45-minute, 60-minute, and 90-minute fire ratings
- Applications that provide x-ray protection as well as acoustical performance
- Applications tested in wood frames
- Applications for airport housing noise abatement programs

Specialized Constructions

A variety of components are used to provide the performance range of our acoustic products, alone or in combination with applicable fire, bullet-resistance, and X-ray protection. These components make 4' x 8' the practical maximum door dimension. Contact the technical department for applications requiring larger doors.

Guaranteed STC Ratings

The STC rating of acoustic doors depends on two things: the components used (doors and gasketing) and their installation. While Eggers does not perform installation, we are still able to guarantee our doors meet the advertised STC ratings when properly installed using the door construction, hardware, seals, and where applicable, the lites described in our STC Product Offering Matrix. This guarantee is given with confidence because of the stringent tests we conduct on all acoustic assemblies. The Eggers name alone is your assurance of the highest standards possible.

While we encourage use of these tested assemblies, we also recognize the need for substitutions such as a different type of glazing or alternate gasketing. In such cases where there is no test report for the final assembly, Eggers will provide the same door construction used for the tested assembly, but without a “guaranteed” STC rating. This allows for increased design flexibility starting with a proven door construction. We recommend the use of an acoustic consultant to review the final assembly whenever substitutions are made.

As stated above, the final performance depends heavily on the installation. The best acoustic doors will fail to meet expectations if they are improperly installed. Acoustic applications are special, they generally involve close tolerances that require square and plumb openings. The acoustic assemblies have been designed such that the seals are uniform between the door and the fixed elements of the opening. Do not expect an acoustic door to compensate for poor frame installation. It is better to fix the opening before installing the door. Likewise, insuring properly installed and adjusted gasketing will avoid remedial work. Extra time spent ensuring a good installation will pay off in superior quality sound control.

When gasketing an acoustic opening, a good analogy is to think about sealing out sound like you would seal out light in a dark room. Wherever light can leak through the opening, so will sound. A simple field test after the assembly is fully installed is to close the door, turn out the lights on one side of the door and, after allowing your eyes to adjust to the darkness, inspect the seals for light leaking through the assembly. To further aid in this test, have someone shine a bright light around the perimeter on the opposite side as you inspect for leaks. Preventing or solving installation issues will address over 95% of unsatisfactory acoustic assemblies.

STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Single Swing	52	1-3/4"	NR	S or T	NA	---	---	12.0	C5765.03	SG14
	51	1-3/4"	NR	S, T, or U	NA	---	---	12.0	C5765.03	SG14
	51	2 1/4"	20	A	NA	---	---	15.8	TL94-37	SG6
	50	1-3/4"	NR	S, T, or U	NA	---	---	12.0	C5765.03	SG14
	50	1-3/4"	NR	S or T	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C5765.04	SG14
	49	1-3/4"	NR	U	NA	---	---	12.0	C5765.03	SG14
	49	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	49	1-3/4"	NR	S or T	NA	---	---	10.5	"E1460.03-113-11-R0 C7672.03A"	SG16A
	48	1-3/4"	NR	S, T, or U	NA	---	---	10.5	"E1460.03-113-11-R0 C7672.03B"	SG16A
	48	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	48	1-3/4"	20	A	NA	---	---	13.7	TL97-320	SG5
	48	2-1/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	15.8	TL95-350	SG6
	47	1-3/4"	NR	S, T, or U	NA	---	---	10.5	"E1460.03-113-11-R0 C7672.03A"	SG16
	47	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	47	2 1/4"	20	A	VP:110-D2	Pyroswiss / 1/2" Laminated	400 (max)	15.8	TL95-351	SG6
	47	1-3/4"	60-45	A	NA	NA	NA	15.7	TL03-023	SG8
	47	1-3/4"	60-45	S, T, or U	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	15.4	"E1460.05-113-11-R0 C7672.02K-113-17-R0"	SG8
	46	1-3/4"	NR	S, T, or U	NA	---	---	10.5	"1460.03-113-11-R0 C7672.03A"	SG16
	46	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	45	1-3/4"	20	A	NA	---	---	7.7	TL94-220	SG4
	44	1-3/4"	20	I	NA	---	---	7.7	TL10-134	SG4 (4)
	43	1-3/4"	NR	P	NA	---	---	7.9	100534284CRT-001k	SG4
	43	1-3/4"	20	A	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	100 (max)	7.7	TL03-020	SG4
	43	1-3/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	7.7	TL03-019	SG4
	43	1-3/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	13.6	TL03-022	SG5
	42	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	42	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	42	1-3/4"	NR	A	Bead: 107	1/2" Laminated	400 (max)	7.7	TL03-021	SG4
	42	1-3/4"	60-45	S	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	13.6	"E1460.06-113-11-R0 C7672.02M-113-17-R0"	SG13
	42	1-3/4"	60-45	T	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	13.6	"E1460.06-113-11-R0 C7672.02M-113-17-R0"	SG13

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STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Single Swing	41	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	41	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	41	1-3/4"	NR	B	Bead: 107	1/2" Laminated	400 (max)	6.5	TL03-012	SG3
	41	1-3/4"	NR	B	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	6.5	TL03-013	SG3
	41	1-3/4"	20	A	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	400 (max)	7.7	TL95-348	SG4
	41	1-3/4"	60-45	S or T	NA	---	---	13.6	"E1460.06-113-11-R0 C7672.02O-113-17-R0"	SG13
	41	1-3/4"	60-45	U	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	13.6	"E1460.06-113-11-R0 C7672.02N-113-17-R0"	SG13
	40	1-3/4"	45	S or T	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	7.6	"E1460.04-113-11-R0 C7672.02G-113-17-R0"	SG7
	40	1-3/4"	60-45	U	NA	---	---	13.6	"E1460.06-113-11-R0 C7672.02P-113-17-R0"	SG13
	40	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	40	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	40	1-3/4"	NR	M	Bead: 110	1-1/8" Non-Rated IGU	1296 (max)	6.7	TL10-141	SG3
	40	1-3/4"	20	B	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	400 (max)	7.7	TL95-347	SG4
	40	1-3/4"	90-60-45	C	NA	---	---	7.6	TL06-051	SG9
	39	1-3/4"	45	S	NA	---	---	7.6	"E1460.04-113-11-R0 C7672.02I-113-17-R0"	SG7
	39	1-3/4"	45	T	NA	---	---	7.6	"E1460.04-113-11-R0 C7672.02I-113-17-R0"	SG7
	39	1-3/4"	45	U	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	7.6	"E1460.04-113-11-R0 C7672.02H-113-17-R0"	SG7
	39	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	39	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	39	1-3/4"	90-60-45	I	NA	---	---	7.7	TL06-053	SG9
	38	1-3/4"	45	U	NA	---	---	7.6	"E1460.04-113-11-R0 C7672.02J-113-17-R0"	SG7
	38	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	38	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	38	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (max)	6.7	C7672.01B	SG3
	37	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (max)	6.7	C7672.01B	SG3
	37	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	37	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	37	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	Full Lite (min 47% of area)	5.9	TL05-052	SCL
	37	1-3/4"	60-45	I	VP: 115-L1	Firelite Plus / Leaded	100 (max)	10.3	TL05-126	SG13
	37	1-3/4"	20	I	Bead: 100	Firelite Plus	400 (max)	6.0	TL05-051	SG3
	36	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (max)	6.7	C7672.01B	SG3
	36	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	36	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	36	1-3/4"	20	P	NA	---	---	6.3	100534284CRT-001l	SG11

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STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Single Swing	36	1-3/4"	60-45	I	NA	---	---	10.2	TL05-125	SG13
	36	1-3/4"	20	N	NA	---	---	7.1	100534284CRT-001f	SG3
	35	1-3/4"	20	M	NA	---	---	10.0	TL10-142	BR3
	35	1-3/4"	90-60-45	U	NA	---	---	7.2	A5305.02-113-11	GC
	35	1-3/4"	NR	I	Bead: 107	1/2" Laminated	1296 (min)	6.2	TL10-138	PC
	35	1-3/4"	NR	O	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	7.3	TL10-144	SG11
	35	1-3/4"	20	I	NA	---	---	7.3	TL10-136	SG11
	35	1-3/4"	NR	I	NA	---	---	7.3	TL10-136	SG11
	35	1-3/4"	20	U	NA	---	---	7.3	TL10-136	SG11
	35	1-3/4"	NR	U	NA	---	---	7.3	TL10-136	SG11
	34	1-3/4"	NA	B	Bead: 107	1/2" Laminated	1296 (min)	6.2	TL10-138	PC
	34	1-3/4"	NA	I	LoPro IS	1/2" Laminated	400 (min)	6.1	TL10-135	PC
	33	1-3/4"	NA	I	Bead: 107	1/2" Laminated	400 (min)	6.1	TL10-133	PC
	33	1-3/4"	20	Q	NA	---	---	6.9	100534284CRT-001n	SCL
	32	1-3/4"	20	Q	NA	---	---	5.5	100534284CRT-001o 100534284CRT-001p	PC
	32	1-3/4"	20	I	NA	---	---	6.9	TL06-059	SCL
	32	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	6.9	TL06-059 & TL97-313	SCL
	32	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	6.9	TL06-059 & TL03-013	SCL
	32	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	6.9	TL06-059 & TL03-012	SCL
	32	1-3/4"	20	N	NA	---	---	6.9	100534284CRT-001b	SCL
	31	1-3/4"	20	I	NA	---	---	5.8	TL06-058, TL10-129	PC
	31	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	5.8	TL06-058 & TL97-313	PC
	31	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	5.8	TL06-058 & TL03-013	PC
	31	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	5.8	TL06-058 & TL03-012	PC
	31	1-3/4"	NR	N	NA	---	---	5.5	100534284CRT-001a	PC
	30	1-3/4"	20	I	NA	---	---	4.6	TL06-056	SLC
	30	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	4.6	TL06-056 & TL97-313	SLC
	30	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	4.6	TL06-056 & TL03-013	SLC
	30	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	4.6	TL06-056 & TL03-012	SLC
	29	1-3/4"	90-60-45	I	NA	---	---	4.4	TL06-057	MC
	27	1-3/4"	20	I	NA	---	---	4.9	TL07-035	AGR
	27	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	4.9	TL07-035 & TL97-313	AGR
	27	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	4.9	TL07-035 & TL03-013	AGR
	27	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	4.9	TL07-035 & TL03-012	AGR
Stylus	33	1-3/4"	20	I	NA	---	---	5.5	TL07-057	PC
	32	1-3/4"	20	I	NA	---	---	6.2	TL07-058	SCL
	31	1-3/4"	90-60-45	I	NA	---	---	4.3	TL07-059	MC

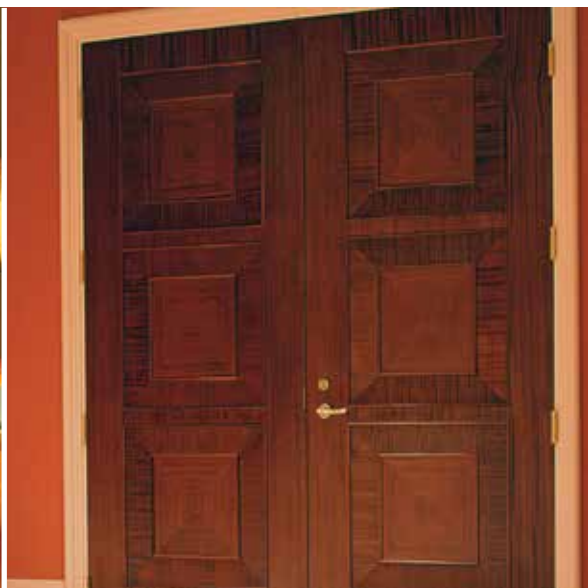
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STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Active-Inactive Pairs[1]	49	1-3/4"	20	A	NA	---	---	13.7	TL98-238	SG5
	44	1-3/4"	20	A	NA	---	---	7.7	TL98-236	SG4
	41	1-3/4"	20	B	NA	---	---	7.7	TL98-233	SG4
Flush Active-Active Pairs [2]	41	1-3/4"	20	K	NA	---	---	6.2	TL08-007	SG3
	40	1-3/4"	NR	K	Bead: 100	1/2" Laminated	400 (max)	6.3	TL08-009	SG3
	34	1-3/4"	45	K	VP: Lo-Pro IS	Superlite II-XL-45	Full Lite (min 47% of area)	6.5	TL11-111	MC
	31	1-3/4"	90-60-45	K	NA	---	---	7.2	TL11-110	GC
	31	1-3/4"	20	K	NA	---	---	6.4	TL11-112 TL11-113	SCL
Dutch Door	44	1-3/4"	20	A	NA	---	---	7.7	TL98-237	SG4
Door & Transom	44	1-3/4"	20	A	NA	---	---	7.7	TL98-237	SG4
Communicating	53	1-3/4"	20	B	NA	---	---	7.7	TL93-219	SG4
Stile & Rail Single Swing	40	1-3/4" (1-11/16")	NR	B	NA	---	---	8.3	TL99-120	SG12
	40	1-3/4" (1-11/16")	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	8.3	TL99-122	SG12
	39	1-3/4" (1-11/16")	NR	I	Bead: 110	1-1/8" Non-Rated IGU	1296 (max)	7.0	TL05-123	SG12
	38	1-3/4" (1-11/16")	NR	S or T	NA	---	---	7.6	"E1460.07-113-11-R0 C7672.02Q-113-17-R0"	SG12
	38	2 ¼" (1-7/8")	90-60-45	A	NA	---	---	12.5	TL97-321	MC
	37	1-3/4" (1-11/16")	NR	U	NA	---	---	7.6	"E1460.07-113-11-R0 C7672.02R-113-17-R0"	SG12
	37	2 ¼" (1-7/8")	90-60-45	B	NA	---	---	12.5	TL97-312	MC
	36	1-3/4" (1-3/4")	60-45	B	NA	---	---	9.7	TL97-317	MC
	33	1-3/4" (1-1/2")	20	B	NA	---	---	5.9	TL94-41	SCL
	33	2 ¼" (1-1/2")	20	B	NA	---	---	6.9	TL97-311	SCL
Stile & Rail Active-Active Pairs	37	1-3/4" (1-11/16")	NR	K	NA	---	---	7.9	TL11-109	SG12
	35	1-3/4" (1-3/4")	60-45	K	NA	---	---	10.2	TL11-108	MC
	32	1-3/4" (1-1/2")	20	K	NA	---	---	5.9	TL11-107	SCL

[1] Test was conducted as an active/inactive pair installation and requires Eggers' overlapping wood astragal.
[2] Test was conducted as an active/active pair with top latching surface hardware.







ACOUSTICAL GASKETING AND UNDERCUTTING		
Gasket System	**Components**	**Required Undercut**
A	Double row Pemko S-88 gasket, Pemko 434_ARL door bottom, Pemko 2005_AT threshold	1/2"
B	Double row Pemko S-88 gasket, Pemko 434_ARL door bottom	1/4"
C	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 2005_AT threshold	3/8"
I	Double row Pemko S-88 gasket, Pemko PDB411_AE door bottom	3/8" (1/4"-1/2")
K	Double row Pemko S-88 gasket and pad on frame, Pemko PDB411_AE door bottom, one row of Pemko S-1125 on each meeting edge	3/8" (1/4"-1/2")
M	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 151 flat threshold	3/8"
N	DHSI 105, DHSI AMDB3-3, & DP*	1/4"
O	Pemko 773, Pemko 234 door shoe, Flat smooth threshold	3/8"
P	DHSI 105, SA, CS, DP	3/8"
Q	DHSI 105, Pemko 2005_AT	3/8"
S	2008_APK Threshold, S44 and 312R	3/8"
T	2008_APK Threshold, S773 and S44	3/8"
U	Pemko PDB411_AE, S773, S44 and ACP112	3/8" (1/4"-1/2")

**DP375 is used for the Solid Wood Edge Option (SWE); DP250 is used for full width mortise or CS*





SOUNDWOOD ACOUSTICAL WOOD FRAMES

Eggers' acoustical wood jambs allow the beauty of our doors to be accented with matching wood frames designed to create a cohesive look metal frames cannot match. Create a masterpiece, knowing Eggers will work diligently to make your acoustical door and frame a perfect match. Available with an STC sound test report up to an STC 45, Eggers' two piece acoustical frame is sold exclusively in combination with Eggers' acoustical doors.

Elegant

Eggers' acoustical frames are available in virtually any veneer and finish color and offers quality control unparalleled in the acoustical wood door market. No longer is a metal frame with wood casing necessary for aesthetic appeal. Perfect for the grand entrance to a concert hall or the distinction of a boardroom, Eggers' acoustical wood frames complement our acoustical doors perfectly.

Functional

Eggers' STC doors and frames are found in healthcare and hospitality facilities, government and municipal buildings as well as educational institutions. Typical applications include performance venues, conference rooms, lecture halls, auditoriums, and classrooms.

Two Piece Acoustical Jamb Installation Instructions

Maximum Overall Opening	50-11/16" wide x 121-11/32" high (frame buck opening)
Maximum Door Opening	Single–4-0 x 10-0
Wall Depth	Minimum–4-7/8"
Wall Type	Wall must be constructed to meet the STC rating and lined with a wood stud for jamb attachment
Gasketing	Refer to gasketing installation instructions for the specific STC door rating selected from the STC Product Offerings chart

Note: Soundwood Acoustical Frames are veneer-wrapped and will maintain the opening rating with doors rated up to STC 45.

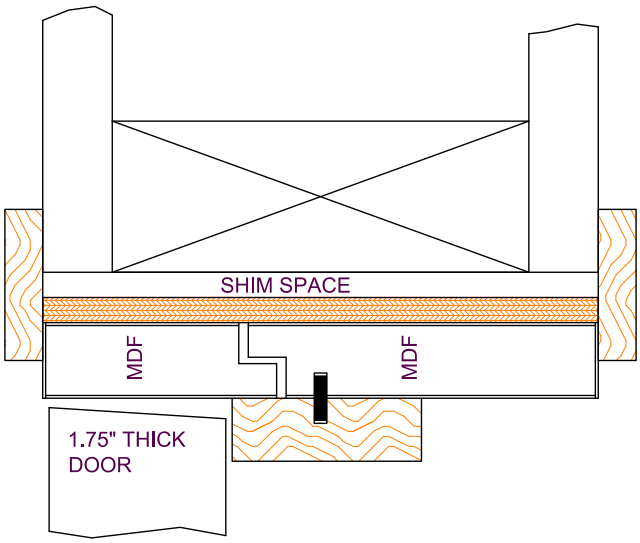
Door side of jamb is shimmed and installed first with #8 x 1-1/2" screws spaced a maximum of 4" from each end and 24" on center.

Stop side of jamb is then installed flush with the wall. Space in between the two jamb components is okay.

Attach stop side of jamb with #8 x 2" screws or 8d finishing nails spaced a maximum of 6" from the end and 24" on center. Fasteners can be located underneath the stop.

One #8 x 2" screw or 8d finish nail should be located at each hinge pocket and strike pocket on the door side of jamb before the hardware is installed.

Shim space is a maximum of 1/4" and must be tightly filled with fiberglass insulation



Flat Stop

Minimum 5/8" thick x 1-1/2" wide. Flat stops are installed with a 1/8" x 7/16" HDF spline and #4 finish nails or 18 gage x 1-1/2" long brads spaced maximum 4" from each end and 16" on center.

Casing

Minimum 3/8" thick x 1-1/2" wide. Casing is installed with minimum #4 finish nails spaced maximum 4" from each end and 16" on center and staggered.

ECOUSTICS

Acoustical Architectural Plywood



Plywood that looks beautiful and creates an environment that sounds great too. Eggers' acoustical plywood helps to reduce reverberation and noise pollution overall. Functionality and high-quality performance are matched with the beauty of an Eggers' plywood product.

SOUNDWOOD ACOUSTICAL PLYWOOD PANELS

Acoustical Performance Testing Methods

The Soundwood Ecoustics line of architectural plywood is tested differently from our acoustical door line. Two different values are captured:

- NRC–Noise Reduction Coefficient: a measure of how effective a material is at absorbing sound.
- SAA–Sound Absorption Average: the amount of sound absorbed by a surface finish.

There are two common mounting methods for plywood paneling, known as “A” mounting and “E” mounting. The “A” mounting is used to test wall panels. The “E” mounting is used to test ceiling panels and is typically given a three digit suffix, e.g. “E-400.” This represents the depth (in millimeters) of the sealed airspace behind the acoustical material tested. The “E” mounting method is typically used for acoustical ceiling tiles.

The ASTM C423 test standard is the standard test method for sound absorption and sound absorption coefficients by the reverberation room method.

All building materials have some acoustical properties that they will absorb, reflect, or transmit sound striking them. Conventionally speaking, acoustical materials are those materials designed and used for the purpose of absorbing sound that might otherwise be reflected. Sound absorption is defined as the incident sound that strikes a material and is not reflected back.

For the vast majority of conventional acoustical materials, the material thickness has the greatest impact on the material’s sound absorbing qualities. While the inherent composition of the acoustical material determines the material’s acoustical performance, other factors can improve or influence the acoustical performance. Incorporating an air space behind an acoustical ceiling or wall panel often serves to improve low frequency performance.





Installation Instructions

The manufacturers of the gasketing, door bottom, thresholds will generally provide a set of installation instructions with their components. In addition, Eggers has developed a set of installation instructions for each of the gasketing systems indicated in the product offering chart. This information is meant to augment those instructions.

Perimeter gasketing is intended to form a seal between the door leaf and the frame. Most of the systems used with Eggers doors include a double row of frame applied seals to accomplish this. If necessary due to installation clearances the seals allow a limited amount of re-positioning to assure adequate contact with the closed door.

Where used, raised thresholds should be adjusted and secured based on the position of the closed door. The threshold seal should make uniform contact with the door surface. Avoid excessive force between the door and threshold as this can hold the door away from the frame seals.

Auto door bottoms should be properly sized to the door width. Avoid undersizing them as this will prevent a good seal and allow sound to “leak” past.

There are several glazing options within Eggers approvals. Eggers recommends factory glazing of acoustic doors, where our controlled environment and installers familiar with the process can ensure proper sealing.

Where doors are to be field glazed, a good seal must be made between all of the components, regardless of the glazing system used. The best way to do this is with a small bead of 100% pure silicone. The seal does not have to be thick, but it must be continuous.

Eggers Industries
www.eggersindustries.com
sales@eggersindustries.com

Stile and Rail Doors, Door Frames, Plywood, Veneered Components

Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

Flush Doors, eiDoor®

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces, Custom Wood Products, Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.845.0615

Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supersede those in print.

The FSC certification ensures responsible use of forest products. 301-08-15

Look for FSC certified products.

R08.17

FSC www.fsc.org FSC® C019991 The mark of responsible forestry

RAINFOREST ALLIANCE CERTIFIED

CERTIFIED QUALITY WOODWORK

EGGERS' GREEN CAPABILITIES

Eggers' expertise in sustainable practices can help contribute towards green building credits for nationally recognized environmental building programs.

Eggers Industries



Turning nature's beauty into works of art

ARCHITECTURAL DOORS, PANELING AND VENEER MATCHING

Conserving our natural resources is as much an honor as it is a responsibility at Eggers Industries. It's a philosophy and a practice that echoes throughout Eggers.



We are certified by the Rainforest Alliance to manufacture products in accordance with the Forest Stewardship Council™(FSC®) standards. Our commitment to our customers and the environment is not only a guarantee of high-quality, custom wood products, but also a promise of credits toward the Leadership in Energy and Environmental Design (LEED®) program.

- Eggers offers agricultural fiber based particleboard as well as FSC certified structural composite lumber core, stave, and particleboard core types for flush doors.
- As an FSC Chain of Custody Certified Supplier by the Rainforest Alliance, all FSC certified materials meet or exceed requirements set by the FSC. These products come from managed forests that exercise selective harvesting.
- Eggers can provide you with FSC certified wood doors, frames and architectural plywood panels within one facility. Custom applications also include ceiling tiles and office components.
- Eggers' UV cured finishing system consists of water-based stains and 100 percent solid clear coats that are free of Volatile Organic Compounds (VOC).

In addition to providing sustainable manufacturing, Eggers follows environmentally-conscious practices as a company. Recycling is a primary focus at Eggers, both in our offices and our plants. We also harness energy from waste materials to heat our facilities.

LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED®)

The United States Green Building Council (USGBC) developed LEED as a set of guidelines to provide a national standard for green building design. It's the most recognized rating system for evaluating environmental performance of commercial, institutional, governmental and high-rise residential buildings. The information provided here is based on LEED 2009-NC. You can learn more about LEED by visiting their website at usgbc.org.

Green Design incorporates design and construction practices to greatly reduce or eliminate the negative impact of buildings on the environment and occupants through:

- Sustainable site planning
- Safeguarding water and water efficiency
- Energy efficiency
- Conservation of materials and resources
- Indoor environmental quality

The LEED program is a certification process to provide a sustainability rating system. Eggers' architectural wood doors, panels and other products can assist building owners and design teams toward certification by contributing to points in the **Materials & Resources** category, as well as **Indoor Environmental Quality.** Depending on the number of points earned, the buildings can achieve Certified (40-49 points), Silver (50-59 points), Gold (60-79 points) or Platinum (80+ points) status.

LEED-2009-NC Rating System

Credits		Points
17	Sustainable Sites	**26**
4	Water Efficiency	**10**
8	Energy and Atmosphere	**35**
8	Materials and Resources	**14**
22	Indoor Environmental Quality	**15**
4	Design Process and Innovation	**10**
	Total Points Possible	**110**

Due to recent changes in FSC regulations, your company may be required to complete certification through an FSC agency. Please contact USGBC for additional information.

LEED® OPPORTUNITIES AVAILABLE WITH EGGERS' PRODUCTS

EGGERS' FLUSH DOORS[1]		MR 4: Recycled Content[3]	MR 6: Rapidly Renewable Materials	MR 7: Certified Wood[3]	EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]	Total Point Contribution with Eggers' Flush Doors
Particleboard Core		2				**2**
No UF Particleboard		2			1	**3**
FSC Certified Particleboard				1	1	**2**
Agrifiber		2	1		1	**4**
Agrifiber with FSC Certified Components		2	1	1	1	**5**
Stave Lumber		2			1	**3**
FSC Certified Stave Lumber				1	1	**2**
SCL		2			1	**3**
FSC Certified SCL				1	1	**2**
45-90 Minute Mineral Core		2			1	**3**
EGGERS' STILE & RAIL DOORS[1]		**MR 4: Recycled Content[3]**	**MR 6: Rapidly Renewable Materials**	**MR 7: Certified Wood[3]**	**EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]**	**Total Point Contribution with Eggers' S & R Doors**
SCL Core - Lite Door		2			1	**3**
SCL Core- Panel Options	Particleboard	2				**2**
	MDF	2				**2**
	No UF MDF	2			1	**3**
FSC Certified Stave Core - Lite Door		2		1	1	**4**
FSC Certified Stave Core - Panel Options	FSC Certified/No UF MDF	2		1	1	**4**
45-90 Minute - Lite Door		2			1	**3**
45-90 Minute Panel Options	Membrane	2			1	**3**
	Rim	2			1	**3**
EGGERS' DOOR FRAMES[1]		**MR 4: Recycled Content[3]**	**MR 6: Rapidly Renewable Materials**	**MR 7: Certified Wood[3]**	**EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]**	**Total Point Contribution with Eggers' Door Frames**
Lumber				1	1	**2**
MDF		2				**2**
No UF MDF		2			1	**3**
FSC Certified		2		1	1	**4**
90-Minute					1	**1**
EGGERS' PANELS[1]		**MR 4: Recycled Content[3]**	**MR 6: Rapidly Renewable Materials**	**MR 7: Certified Wood[3]**	**EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]**	**Total Point Contribution with Eggers' Panels**
Particleboard or MDF*		2				**2**
No UF Particleboard or MDF*		2			1	**3**
FSC Certified Particleboard or MDF		2		1	1	**4**
Veneer Core					1	**1**

[1] Additional point contributions may be available for MR #5.1 and MR #5.2 if the materials are extracted, harvested, recovered and manufactured within 500 miles of the jobsite and Eggers' manufacturing facilities. Contributions are contingent on the design and layout of the product in question. [2] The product construction is only urea-formaldehyde free if it is ordered as urea-formaldehyde free. The core is urea-formaldehyde free, but the doors need to be constructed urea-formaldehyde free to contribute to this credit. [3] Per USGBC guidelines, the value of any content that contributes to MR #4 cannot be attributed to MR #7.0 calculation.* Only particleboard is available as UL Class A Label.

LEED® QUICK REFERENCE CHART FOR DOORS

Credit	Criteria	Intent
MATERIALS & RESOURCES		
4.0	**Recycled Content** 10 percent (post-consumer + 1/2 pre-consumer)	Increase demand for building products that incorporate recycled content materials, thereby reducing impact resulting from extraction and processing of virgin material
	Recycled Content 20 percent (post-consumer + 1/2 pre-consumer)	
5.0	**Regional Materials** 10 percent extracted, processed and manufactured regionally	Increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting indigenous resources and reducing environmental impact from transportation
	Regional Materials 20 percent extracted, processed and manufactured regionally	
6.0	**Rapidly Renewable Materials**	Reduce the use and depletion of finite raw materials and long-cycle renewable materials by replacing them with rapidly renewable materials
7.0	**Certified Wood**	Encourage environmentally responsible forest management
INDOOR ENVIRONMENTAL QUALITY		
4.4	**Low-Emitting Materials** Composite wood and agrifiber contains no added urea-formaldehyde	Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants





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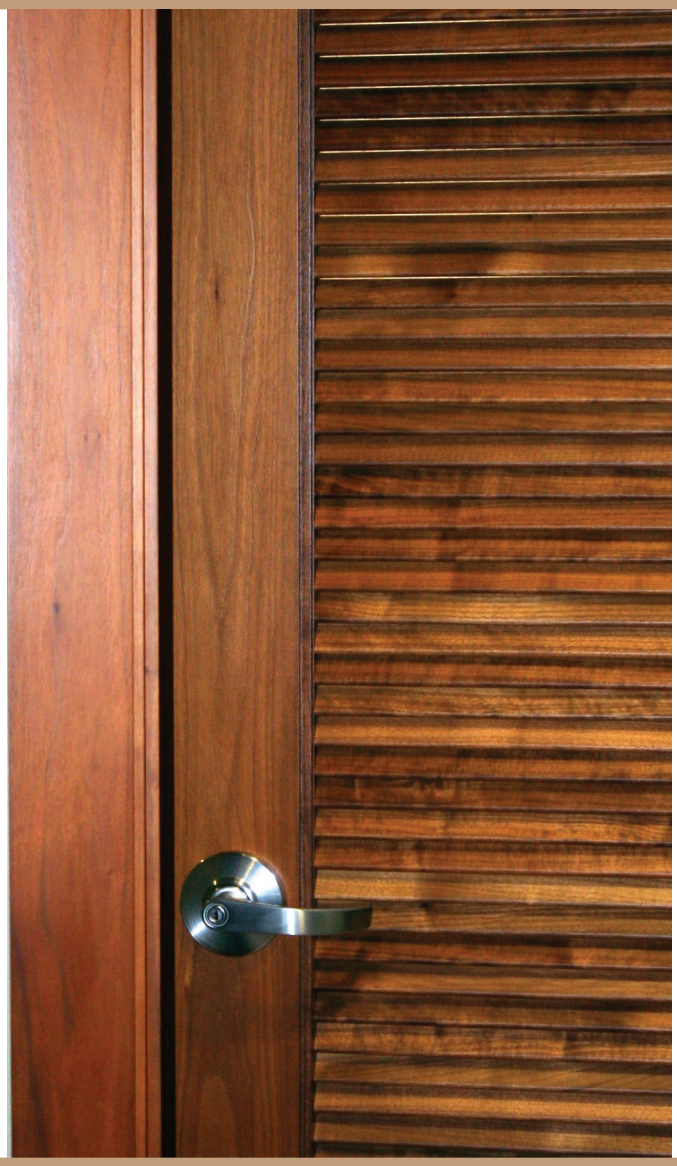
CERTIFIED ARCHITECTURAL WOODWORK INSTITUTE QUALITY WOODWORK

CERTIFIED INDOOR AIR QUALITY SCS GLOBAL SERVICES
INDOOR ADVANTAGE GOLD BUILDING MATERIALS

Eggers Industries

Louver OFFERINGS

Whether you call it a Louver or a Louvre, these architectural blinds or shutters are designed with horizontal slats to serve many purposes. They are angled to keep out light, preserve privacy or improve ventilation, all while creating an aesthetic effect to any architectural wood door.





Eggers' New Plantation Louver

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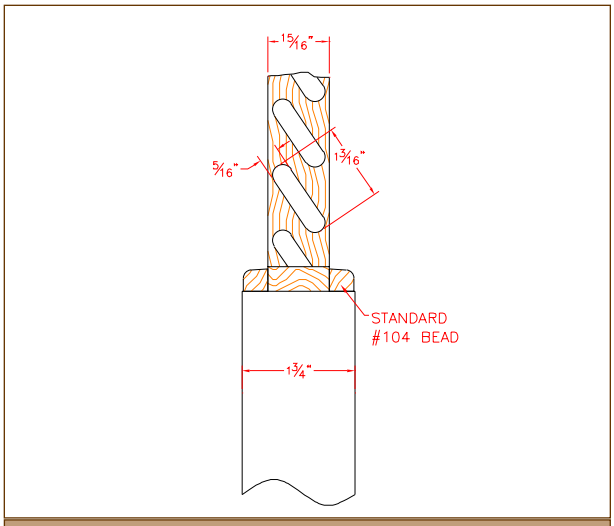
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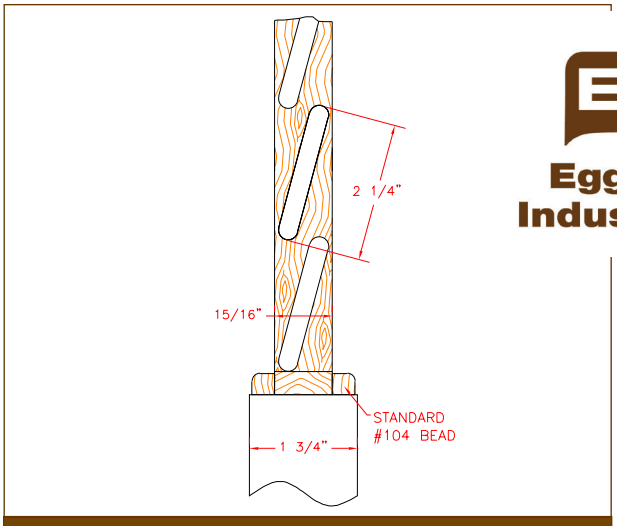
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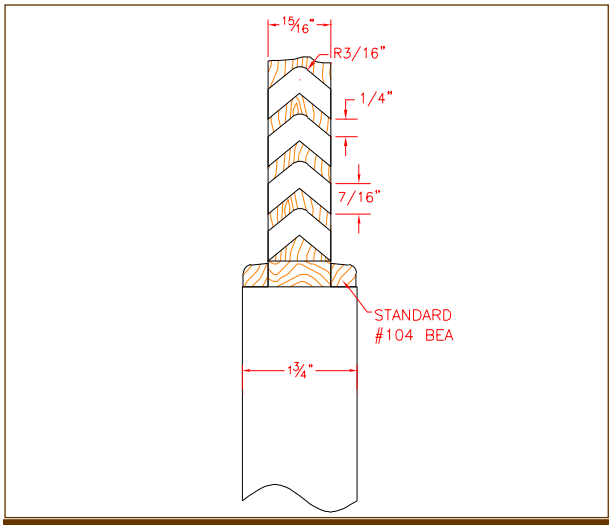
#109 Oval Slat[1,4]

24% Free Area



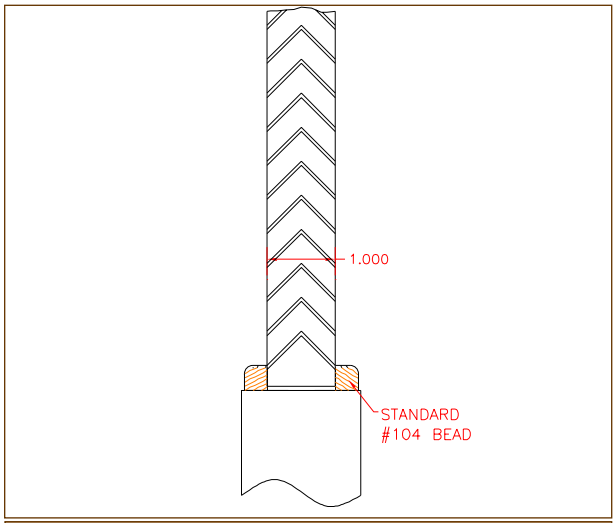
#110 Plantation Slat[1,4]

12% Free Area



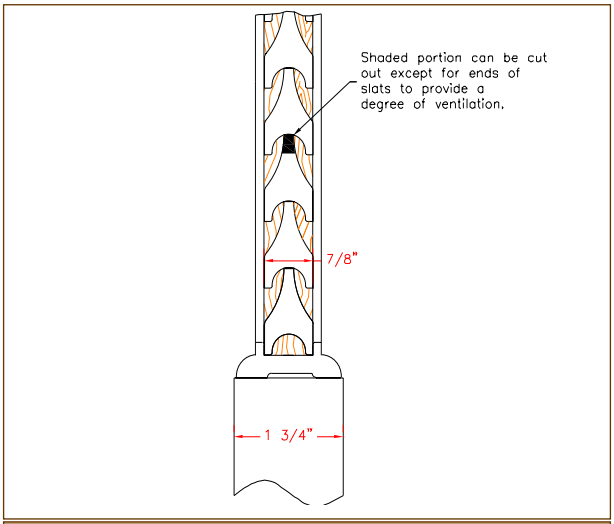
#111 Chevron Slat[2,3,4]

28% Free Area



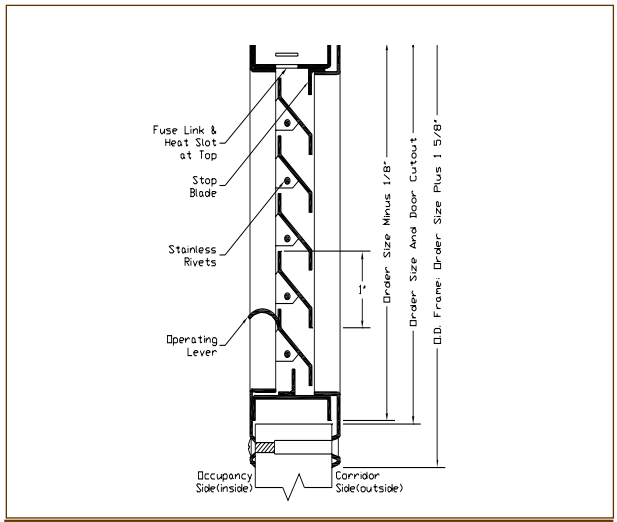
#112 Metal Louver with 104 Wood Beads

60% Free Area



#114 Wood Louver[4]

15% Free Area



Fusible Link Louver

Please Note: [1]Wood louvers over 22" in width will have a center mullion. [2]Wood louvers over 19-15/16" in width will have a center mullion. [3]Eggers' standard is not to provide bead that covers up the center mullion unless requested. [4]Minimum width and length for wood louver openings is 6". Door thickness 1-3/4" or 2-1/4."

Silhouettes™

SPECIALTY GLASS COLLECTION

Eggers Industries

The *Silhouettes*™ Specialty Glass Collection from Eggers enhances the richness and beauty of wood entryways through the sublime interplay of glass and light.



Turning nature's beauty into works of art

NATURAL BEAUTY. NATURAL FUNCTIONALITY.

The *Silhouettes*™ Specialty Glass Collection features a variety of glass styles, thicknesses and translucency levels. Whichever option you choose, you can rest assured that your *Silhouettes* Specialty Glass is as arresting in beauty as it is in functionality.

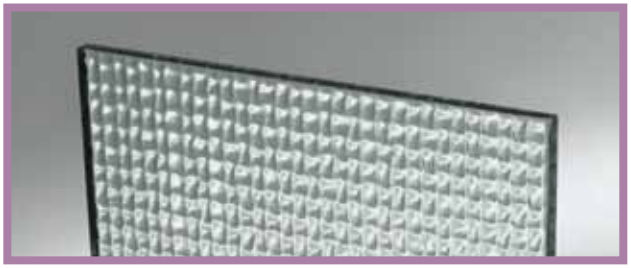
In addition to the Specialty Glass selection featured here, Eggers offers a wide variety of unique style options to make your doors as distinctive as possible.



Glue Chip



Spraylite



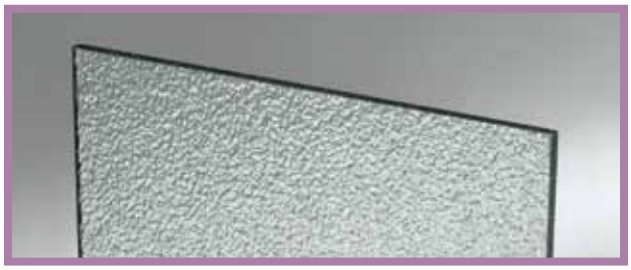
Flax



Niagara



White Laminated



Pattern 516



Skytex



Matelux



English Reeded

SPECIALTY GLASS

Glass Type	Pattern 516	Niagra	Spraylite	Flax	Skytex	White Laminated	Matelux	English Reeded	Glue Chip
Thickness	3/16"	3/16"	3/16"	3/16"	3/16"	1/4"	1/4"	1/4"	1/4"
Tempered	YES	YES	YES	YES	YES	NO	YES	YES	YES
ANSI Z97.1	YES	YES	YES	YES	YES	NO	YES	YES	YES
CPSC 16 CFR 1201 Category I	YES	YES	YES	YES	YES	NO	YES	YES	YES
CPSC 16 CFR 1201 Category II	YES	YES	YES	YES	YES	NO	YES	YES	YES



MINI-BLIND GLASS UNITS

Eggers' mini-blind glass units are the perfect solution for privacy. These blinds are placed between 2 pieces of 1/8" tempered glass. They come in several sizes with options for tilting and raising the blinds. With the tilt and raise controllers available on one side only, the customer must specify which side of the door receives the controller.

The units can only be installed in non-rated doors and must be factory glazed. Due to the bead size, the visible lite will be approximately 1" less in width and height than the glass unit size.

Mini-blind units have not been evaluated for use on acoustic doors, and are not approved for use on fire-rated , x-ray or bullet-resistant doors.

- Thickness of Unit - 1-1/16"
- Wood Bead - #115
- Slat Material - Aluminum
- Alternate Glazing - Not Available

Glass Size	Cut-Out Size	Visible Lite	Tilt/Raise
7" x 64"	7-1/8" x 64-1/8"	6" x 63"	Tilt and Lift
8" x 36"	8-1/8" x 36-1/8"	7" x 35"	Tilt and Lift
8" x 64" *	8-1/8" x 64-1/8"	7" x 63"	Tilt and Lift
14" x 64"	14-1/8" x 64-1/8"	13" x 63"	Tilt and Lift
20" x 64" *	20-1/8" x 64-1/8"	19" x 63"	Tilt and Lift
20" x 80"	20-1/8" x 80-1/8"	19" x 79"	Tilt and Lift
22" x 36" *	22-1/8" x 36-1/8"	21" x 35"	Tilt and Lift
22" x 48"	22-1/8" x 48-1/8"	21" x 47"	Tilt and Lift
22" x 64" *	22-1/8" x 64-1/8"	21" x 63"	Tilt and Lift
22" x 80"	22-1/8" x 80-1/8"	21" x 79"	Tilt and Lift

*Tan slats are options for these sizes. All sizes available with bright white slats.

THE BEAUTY OF SAFETY – GENERAL GLAZING INSTRUCTIONS

Eggers' specialty glass glazing options currently include: Textured, Tinted and Laminated, with or without colored film. These are in addition to our standard glazing options, which are wired, tempered, bullet-resistant, acoustical and fire-rated. Specialty glass is not meant for use in bullet-resistant, acoustical or fire-rated doors.

Glazing options for fire-rated doors continue to increase. There are now options for ceramic glazing materials, high tempered clear glazing, laminated glazing, clear composite glazing panels as well as traditional wired glass. There are also approvals gained by the manufacturers of metal vision frames, intumescent producers and door manufacturers. As the number of options increases, so does the complexity of installations.

Many of these approvals require very specific glazing parameters. These include limitations to the type and rating of the doors they may be installed in, stop heights, clearances between glazing and door cutout and use of setting blocks to support and center the glazing within the frame. The complexity of specific requirements increases exponentially with the use of different types of caulk, glazing tape, intumescent tapes and combinations to ensure that the final installation will meet fire labeling requirements.

Eggers recommends factory glazing for proper glass installation, especially special purpose doors such as fire and acoustics. Check with applicable codes as the current version of NFPA-80 requires new wood fire doors to be glazed under third party labeling service.

Eggers has developed a set of glazing instructions to address these installation issues, as well as meet the market demand for field glazing options. These instructions are shipped with each door order. They detail the four most commonly ordered bead installations:

- 20-minute lites with 3/16" to 5/16" glazing in wood beads (also applicable for non fire-rated installations).
- 20-minute full-lites with Pyroedge glazing and wood beads.
- 45-minute full-lites with Firelite Plus glazing in wood beads.
- 45- through 90-minute lites with wired glass or ceramic glazing in veneer wrapped lite beads.

Additional instructions may be added to this set as warranted by the market. Glazing instructions are also available on our website at www.eggersindustries.com.

It is the glass installer's responsibility to ensure installation instructions used are correct for the specific application. For metal vision panel applications, please refer to the manufacturers' instructions provided with their frame. You can also call 920.722.6444 for technical assistance and guidance for other applications.

Eggers will continue to develop additional tools to effectively correct specification and installation of fire-rated doors. As they become available, we will post them on our website for your immediate benefit.

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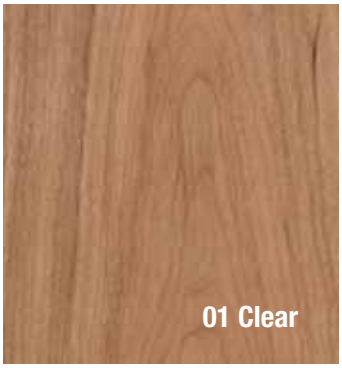
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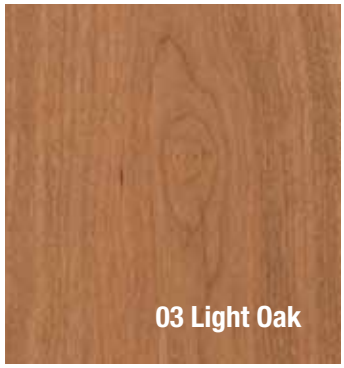
CERTIFIED QUALITY WOODWORK

STANDARD FINISH SELECTOR GUIDE

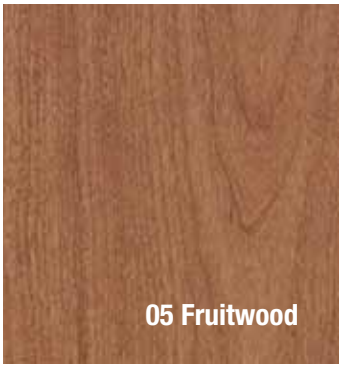
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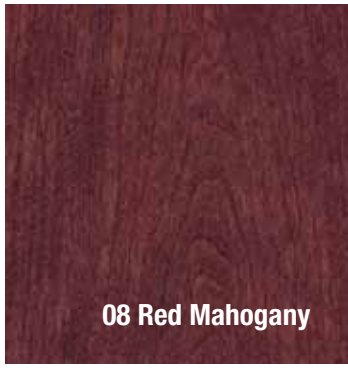












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for cherry doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



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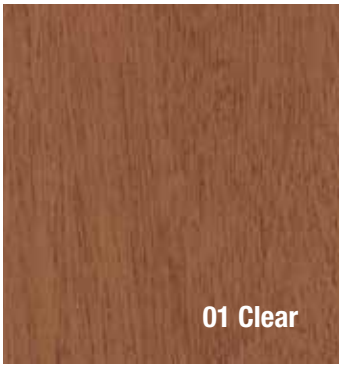
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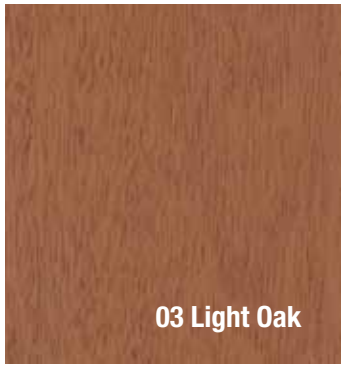
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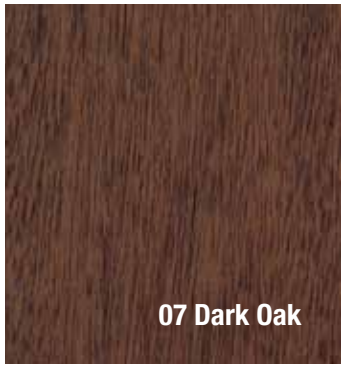


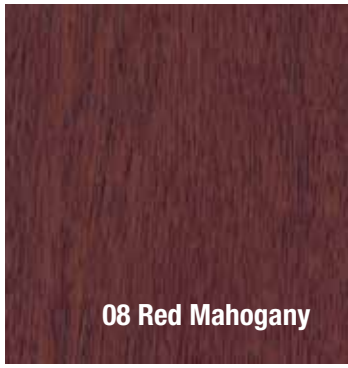












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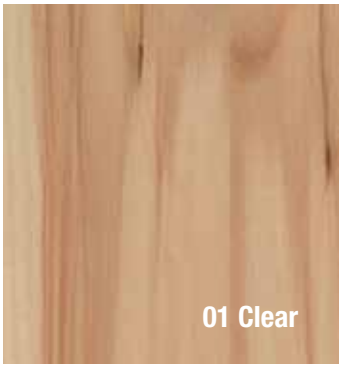
Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357
email: sales@eggersindustries.com

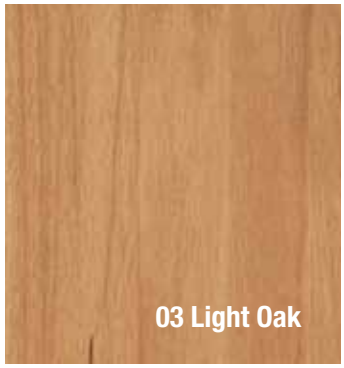
Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supercede those in print. 711-05-12

STANDARD FINISH SELECTOR GUIDE

These samples represent Eggers' standard finish colors. They should be used only as a guideline for selecting your finish. Please contact Eggers for samples for final color approval.



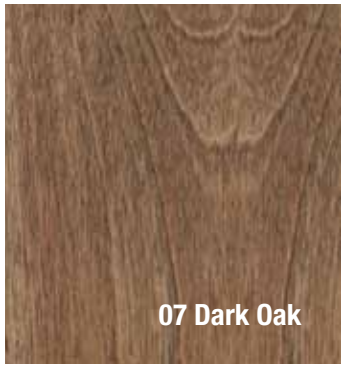


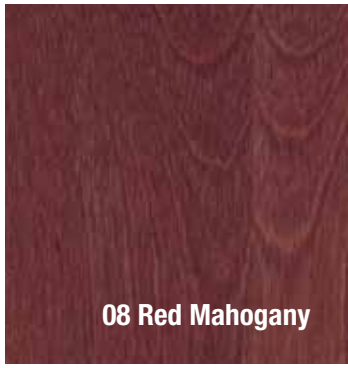












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for natural birch doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



Eggers Industries

Stile & Rail Doors, Door Frames, Plywood

Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958
www.eggersindustries.com

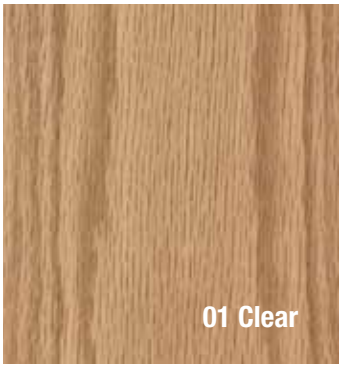
Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357
email: sales@eggersindustries.com

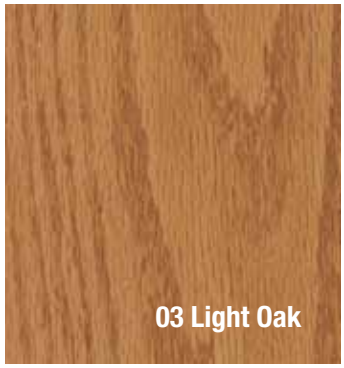
Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supercede those in print. 712-05-12

STANDARD FINISH SELECTOR GUIDE

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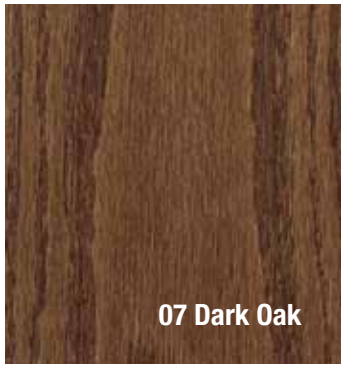


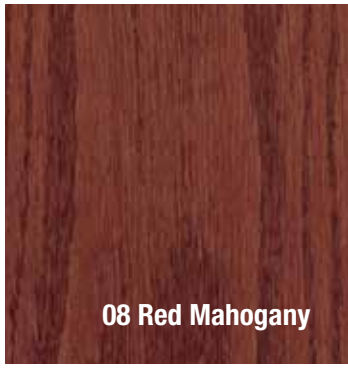












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for red oak doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



Eggers Industries

Stile & Rail Doors, Door Frames, Plywood

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One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958
www.eggersindustries.com

Flush Doors

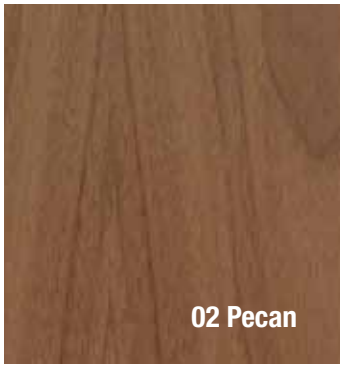
Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357
email: sales@eggersindustries.com

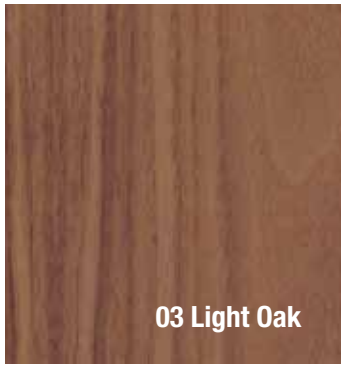
Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supercede those in print. 713-05-12

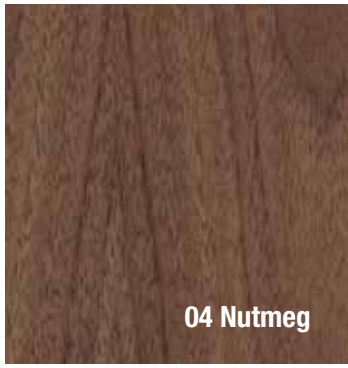
STANDARD FINISH SELECTOR GUIDE

These samples represent Eggers' standard finish colors. They should be used only as a guideline for selecting your finish. Please contact Eggers for samples for final color approval.

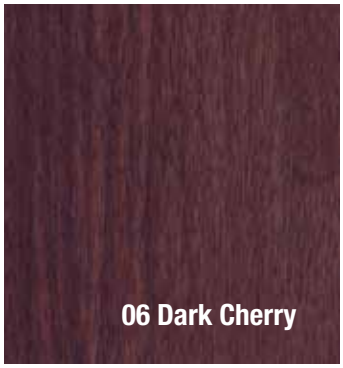


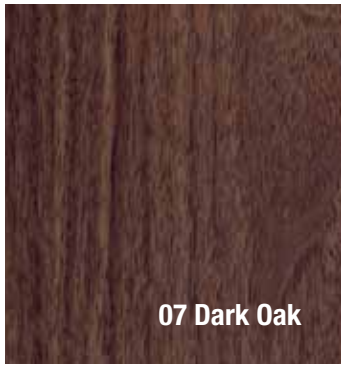














Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for walnut doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



Eggers Industries

Stile & Rail Doors, Door Frames, Plywood

Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958
www.eggersindustries.com

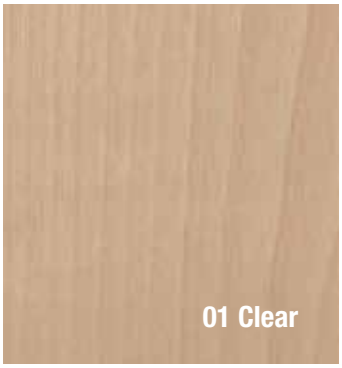
Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357
email: sales@eggersindustries.com

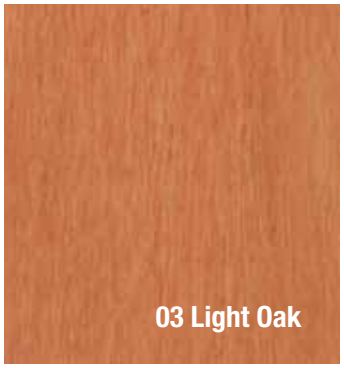
Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supercede those in print. 714-05-12

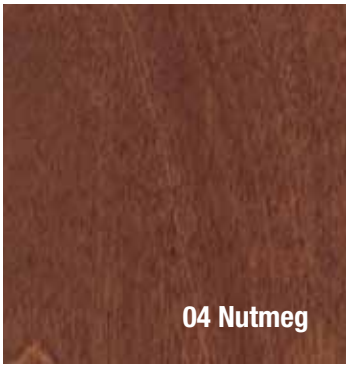
STANDARD FINISH SELECTOR GUIDE

These samples represent Eggers' standard finish colors. They should be used only as a guideline for selecting your finish. Please contact Eggers for samples for final color approval.



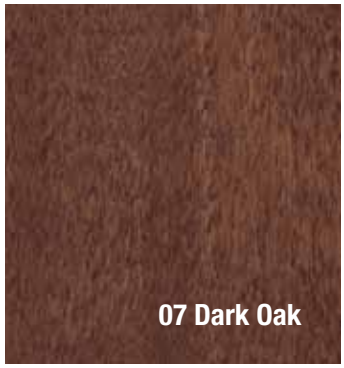














Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for white birch doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



Eggers Industries

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Door Frames, Plywood

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Phone: 920.793.1351
Fax: 920.793.2958
www.eggersindustries.com

Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357
email: sales@eggersindustries.com

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STANDARD FINISH SELECTOR GUIDE

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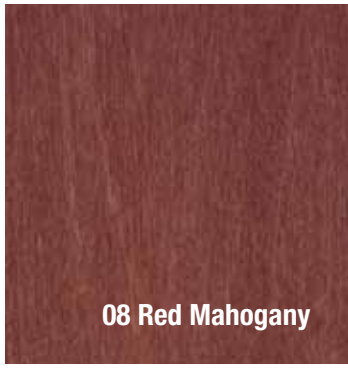












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for white maple doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



Eggers Industries

Stile & Rail Doors,
Door Frames, Plywood

Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958
www.eggersindustries.com

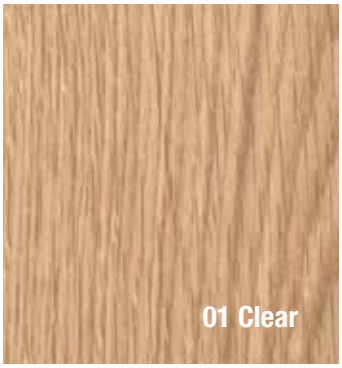
Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357
email: sales@eggersindustries.com

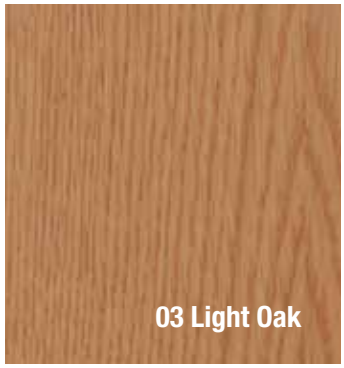
Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supercede those in print. 716-05-12

STANDARD FINISH SELECTOR GUIDE

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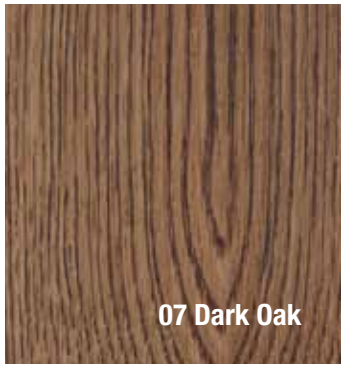


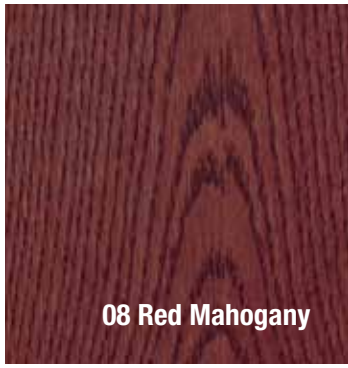












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for white oak doors that are unfinished, finished clear, or finished with stains.

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Eggers Industries

Stile & Rail Doors,
Door Frames, Plywood

Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958
www.eggersindustries.com

Flush Doors

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164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
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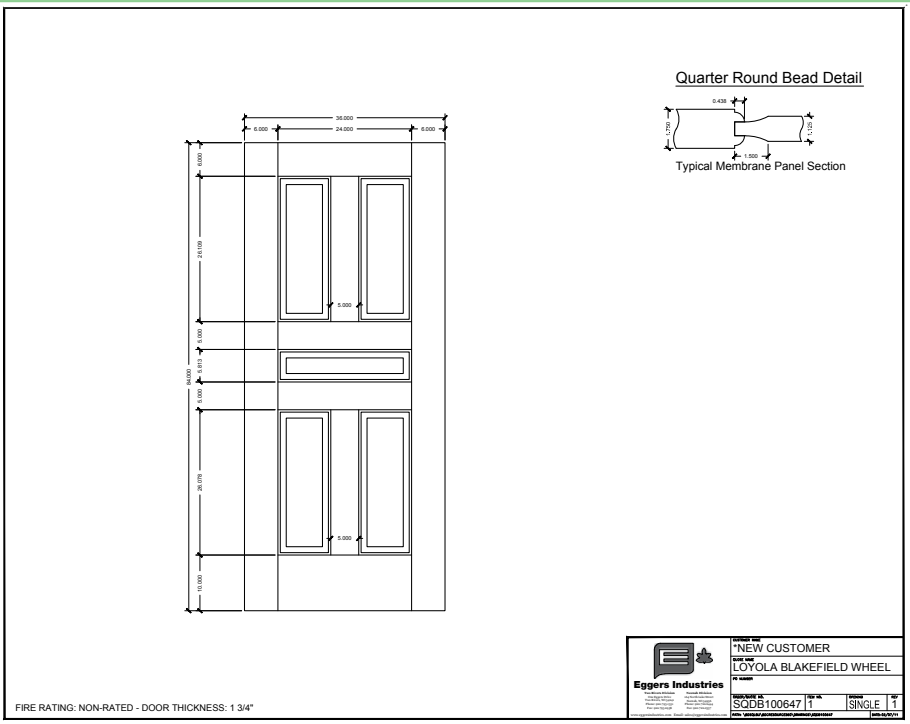
Stile & Rail Submittal Drawings

Available at Quote Time

Eggers Industries will now be providing Stile and Rail submittal drawings for you with all Stile and Rail quote requests. The convenience of having all bid documents at the time of quote will make your bid process a little easier. Eggers Online users will also be able to quickly and easily generate these drawings.

Our submittal drawings, provided in PDF format, come complete with the detailed information you require ~

- Elevation Drawing with Detailed Measurements
- Cross-section of Bead Detail
- Fire-Rating and Door Thickness
- Customer name, Quote name and Quote Number



Eggers Industries

Stile & Rail Doors, Door Frames, Plywood, Veneered Components

Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

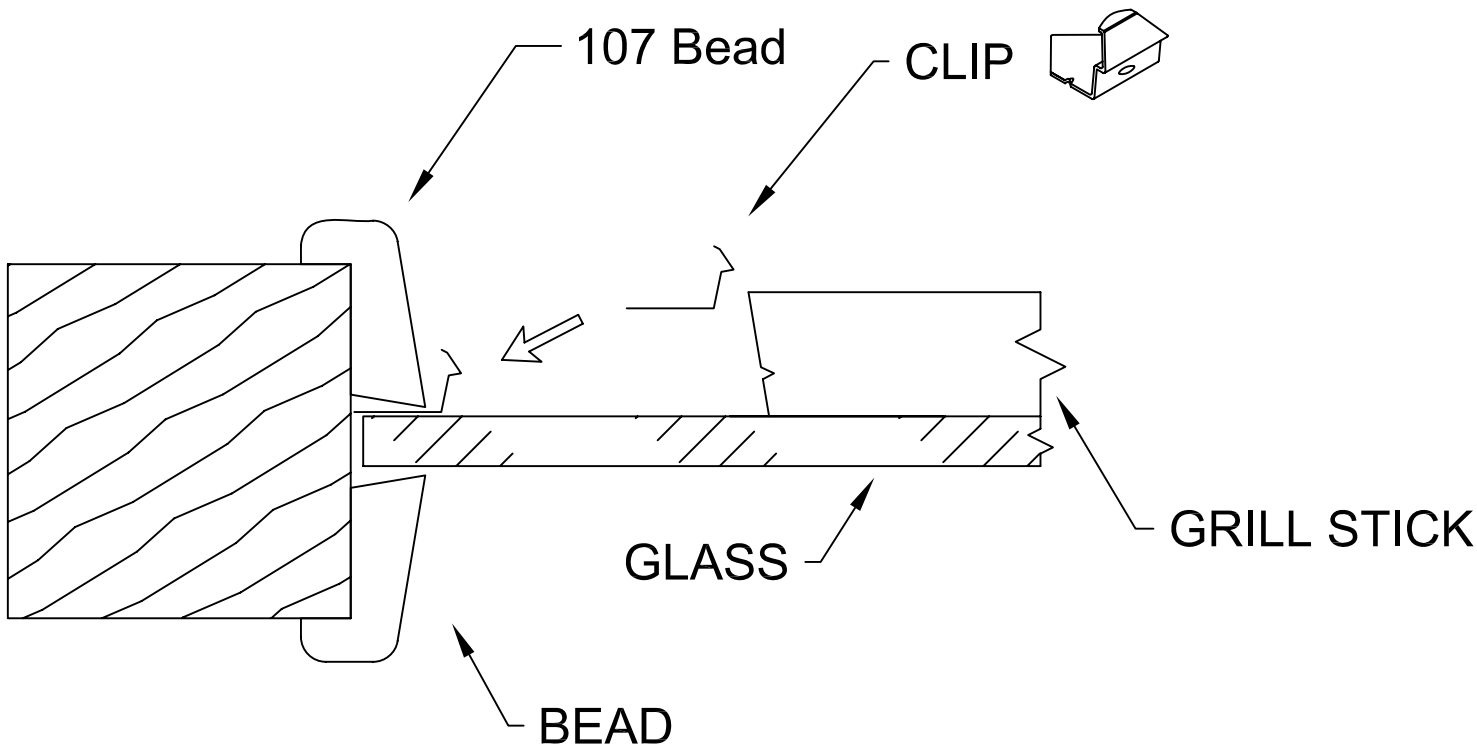
www.eggersindustries.com

Flush Doors

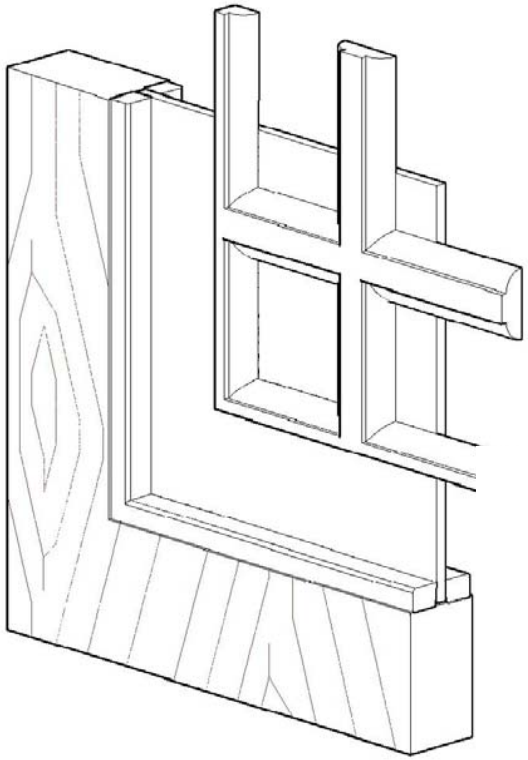
Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

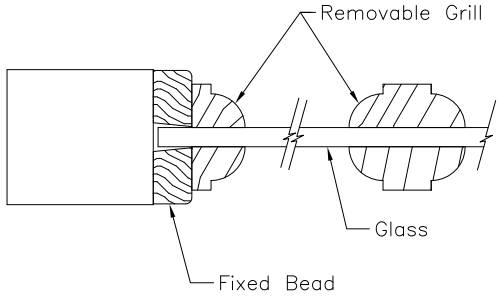
email: sales@eggersindustries.com

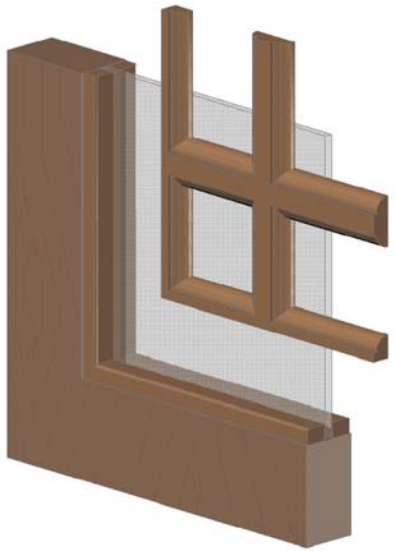
Eggers *CLIP-IN GRILLWORK*



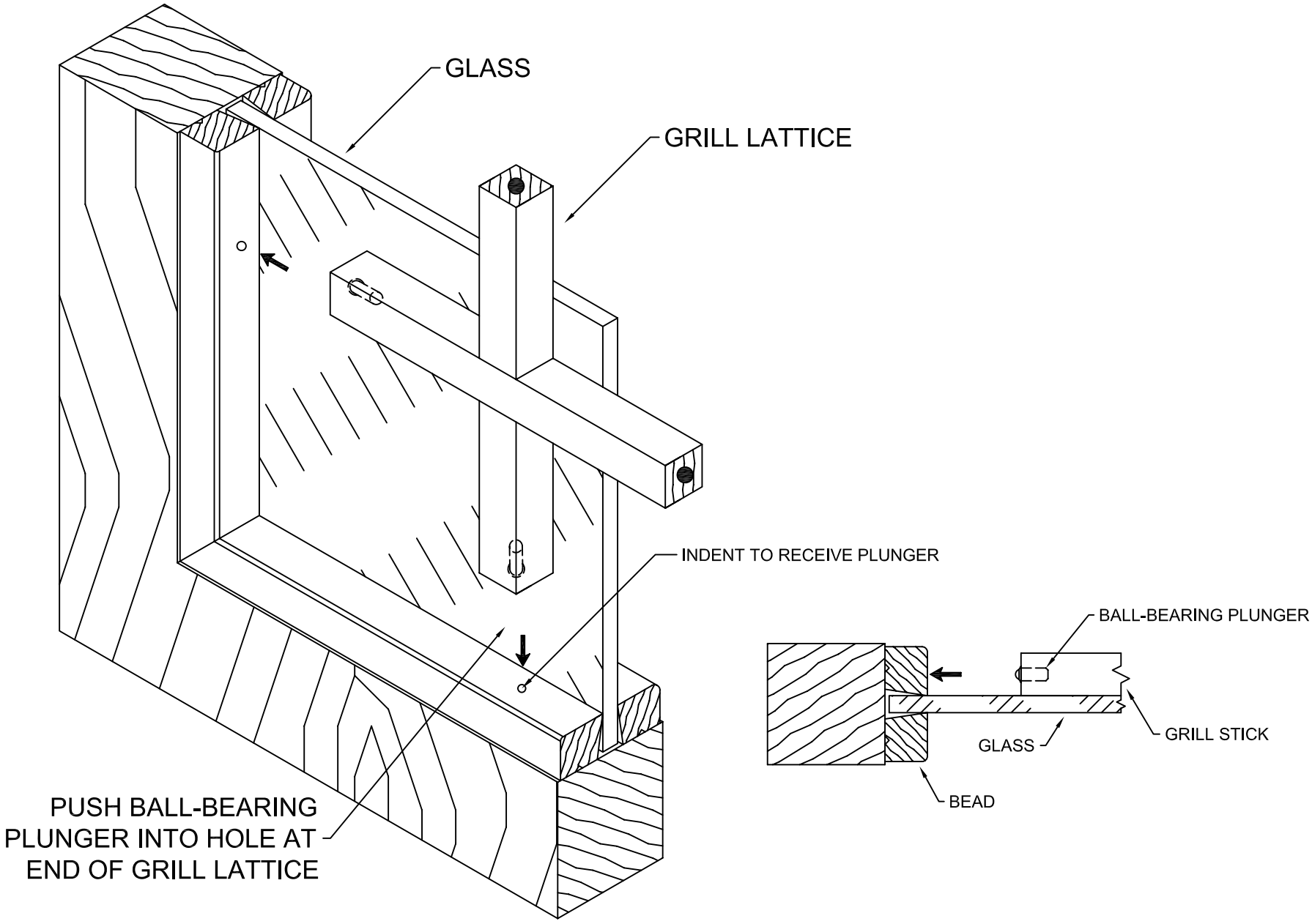
Eggers REMOVABLE GRILLWORK



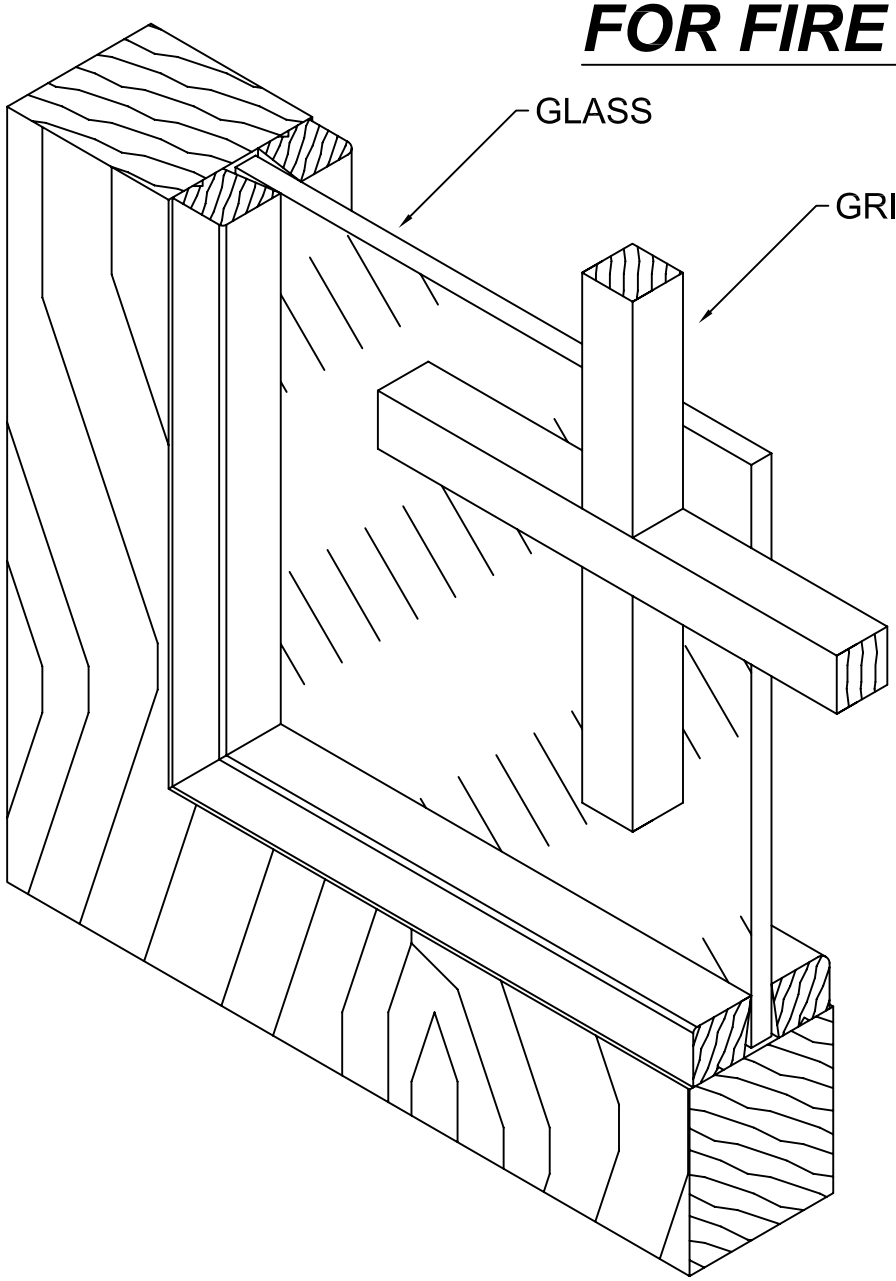


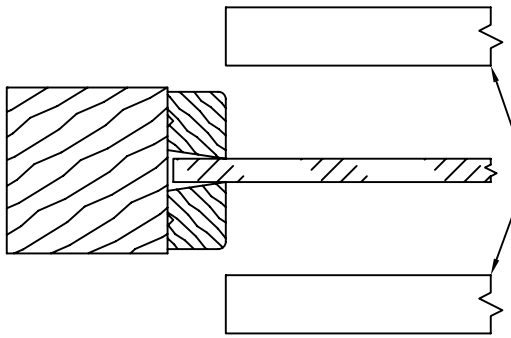


Eggers *SNAP-IN GRILLWORK*



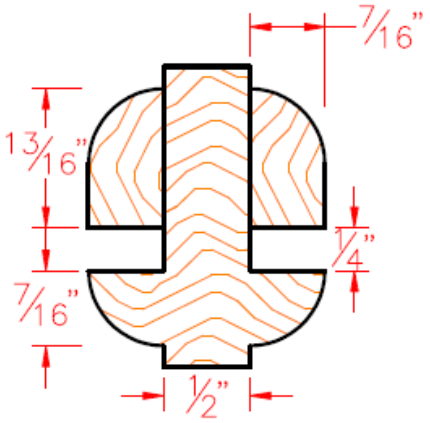
Eggers *TAPE-ON GRILLWORK FOR FIRE RATED DOORS*



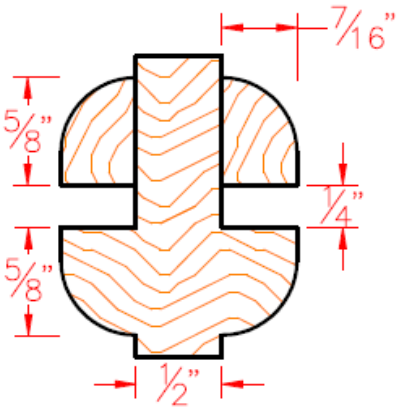


GRILL STICK WITH
2-SIDED TAPE ON BACK
(FOR AESTHETIC GRILLWORK
IS ONLY AVAILABLE BOTH SIDES
OF GLASS)

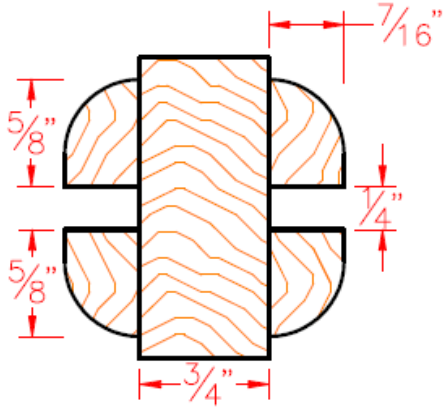
STANDARD S&R TRUE DIVIDED LITE/SASH DETAILS



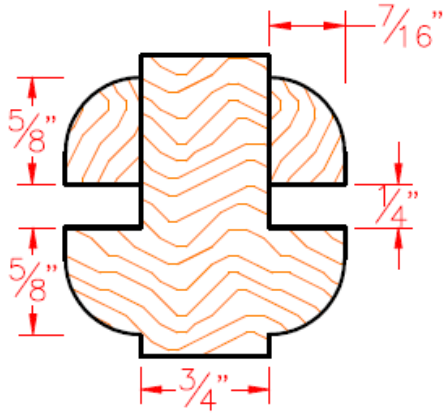
1–3/4" SASH LITE
DETAIL – NON RATED



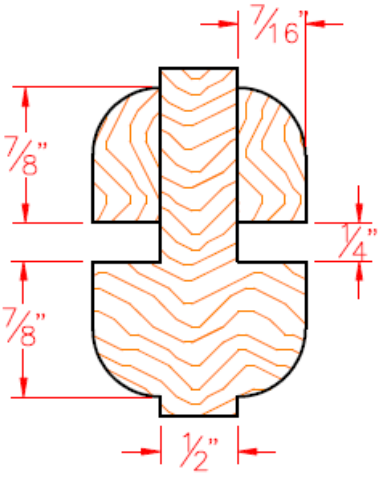
1–3/4" FRENCH DOOR
BAR & MUNTIN – NON RATED



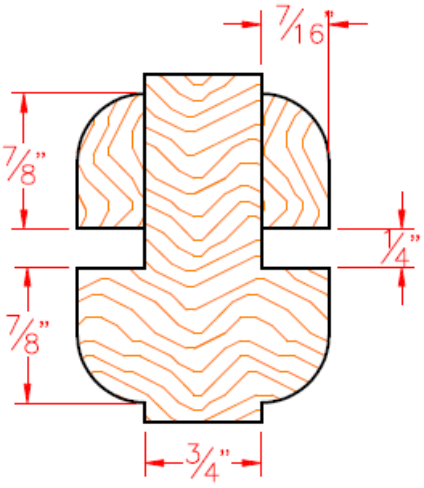
1–3/4" SASH LITE
DETAIL – 20 MIN



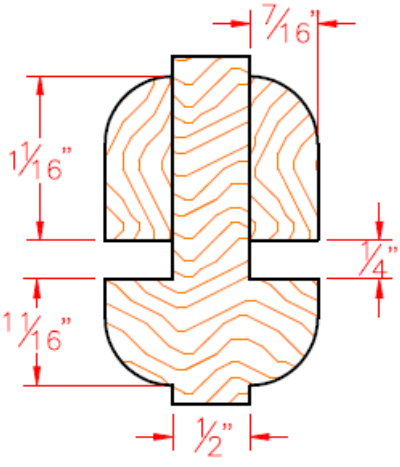
1–3/4" FRENCH DOOR
BAR & MUNTIN – 20 MIN



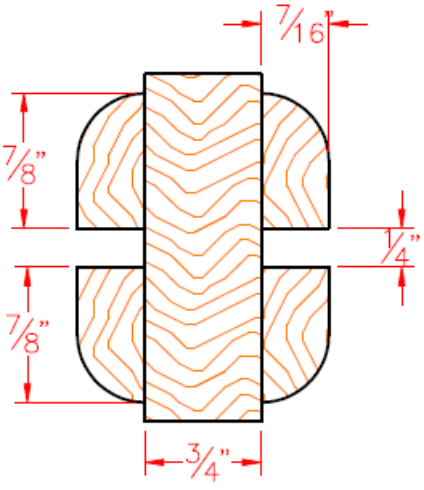
2–1/4" FRENCH DOOR
BAR & MUNTIN – NON RATED



2–1/4" FRENCH DOOR
BAR & MUNTIN – 20 MIN

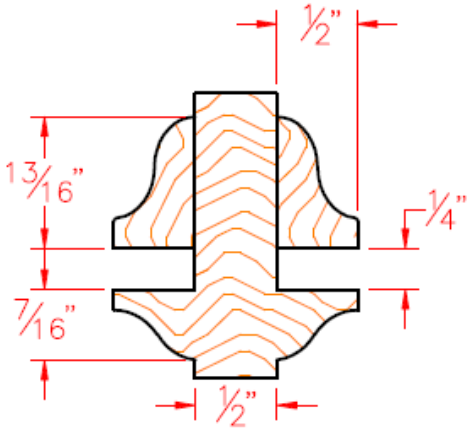


2–1/4" SASH LITE
DETAIL – NON RATED

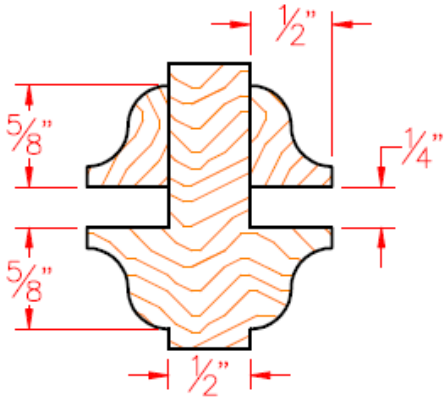


2–1/4" SASH LITE
DETAIL – 20 MIN

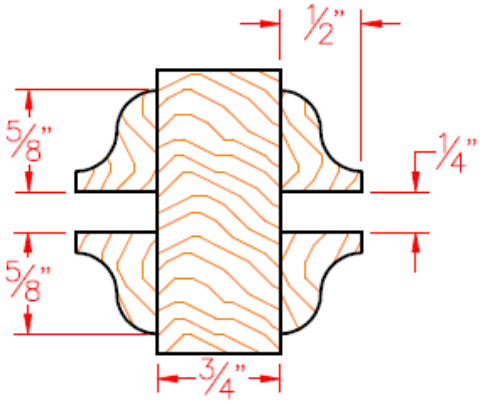
STANDARD S&R OGEE TRUE DIVIDED LITE/SASH DETAILS



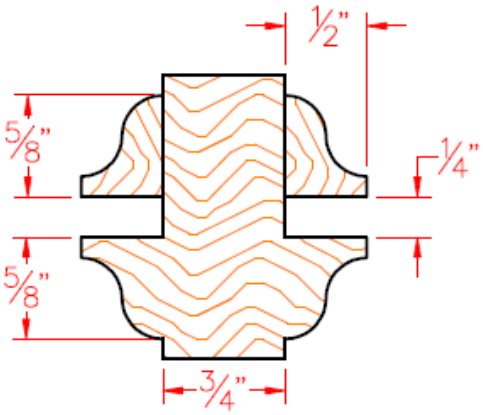
1–3/4" SASH LITE
DETAIL – NON RATED



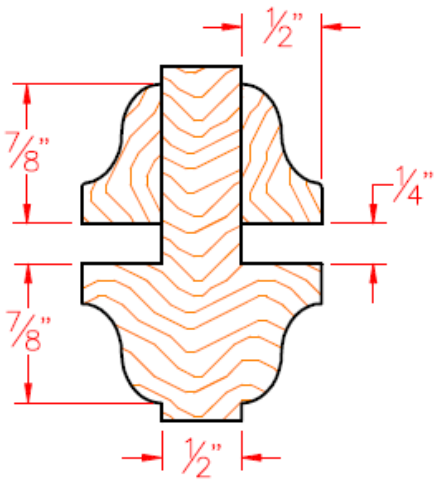
1–3/4" FRENCH DOOR
BAR & MUNTIN – NON RATED



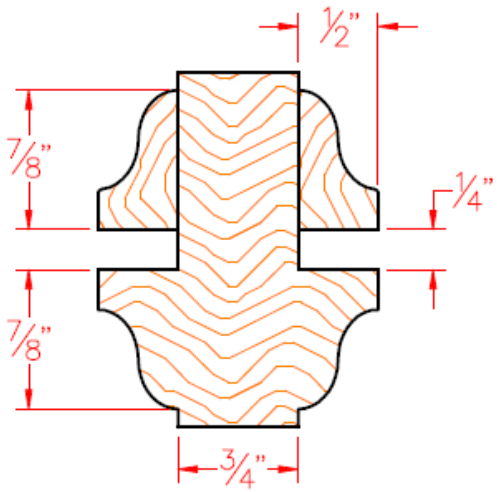
1–3/4" SASH LITE
DETAIL – 20 MIN



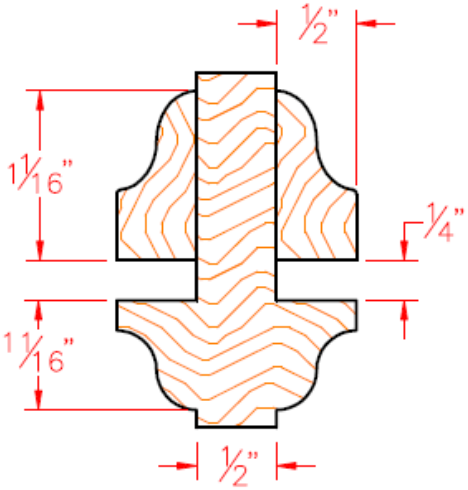
1–3/4" FRENCH DOOR
BAR & MUNTIN – 20 MIN



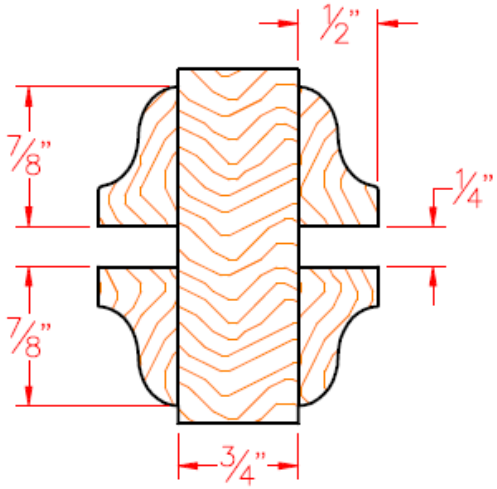
2–1/4" FRENCH DOOR
BAR & MUNTIN – NON RATED



2–1/4" FRENCH DOOR
BAR & MUNTIN – 20 MIN

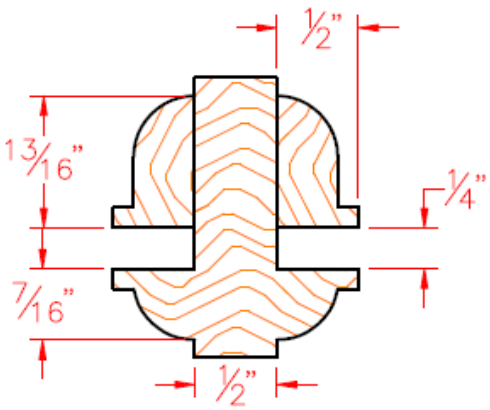


2–1/4" SASH LITE
DETAIL – NON RATED

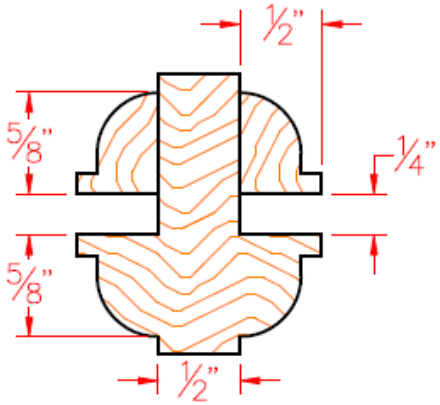


2–1/4" SASH LITE
DETAIL – 20 MIN

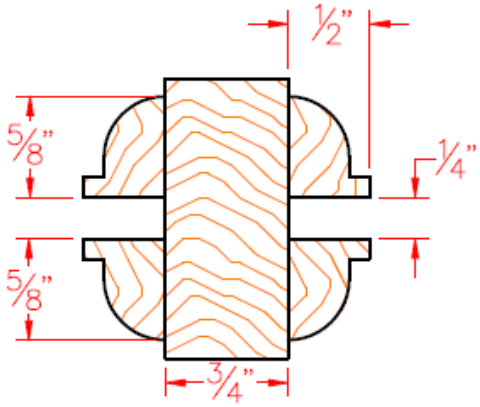
STANDARD S&R OVOLO TRUE DIVIDED LITE/SASH DETAILS



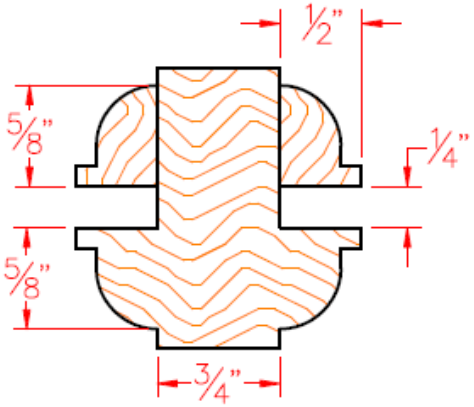
1–3/4" SASH LITE
DETAIL – NON RATED



1–3/4" FRENCH DOOR
BAR & MUNTIN – NON RATED



1–3/4" SASH LITE
DETAIL – 20 MIN

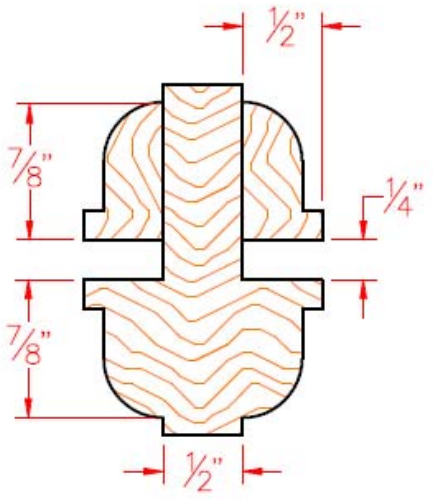


1–3/4" FRENCH DOOR
BAR & MUNTIN – 20 MIN

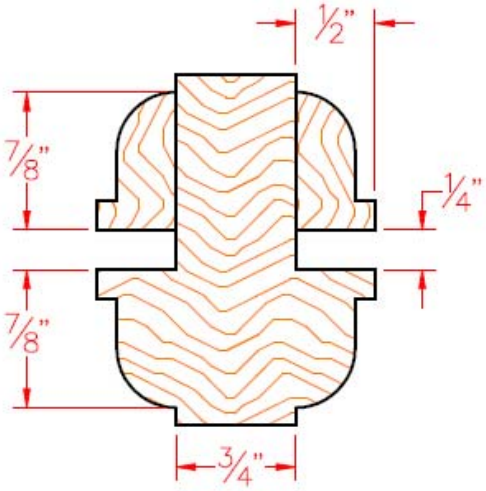
Stile & Rail True Divided Lite Details
Construction Details

No. 293-04-09

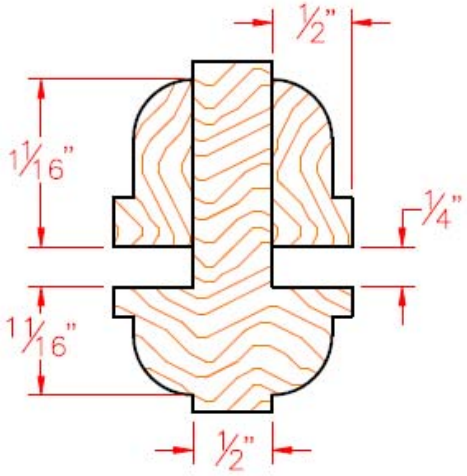
Eggers Industries



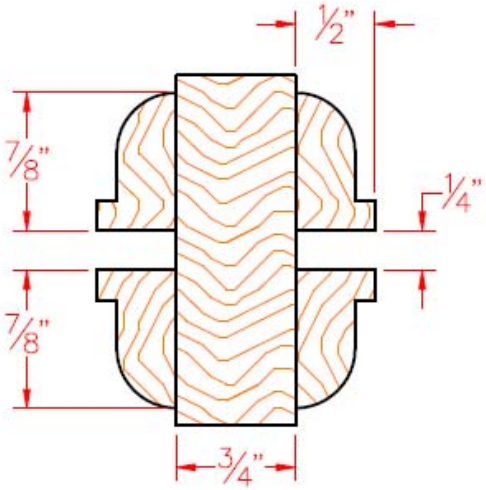
2–1/4" FRENCH DOOR
BAR & MUNTIN – NON RATED



2–1/4" FRENCH DOOR
BAR & MUNTIN – 20 MIN



2–1/4" SASH LITE
DETAIL – NON RATED



2–1/4" SASH LITE
DETAIL – 20 MIN

Eggers Industries

Stile & Rail Doors, Door Frames, Plywood, Veneered Components

Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

www.eggersindustries.com

Flush Doors

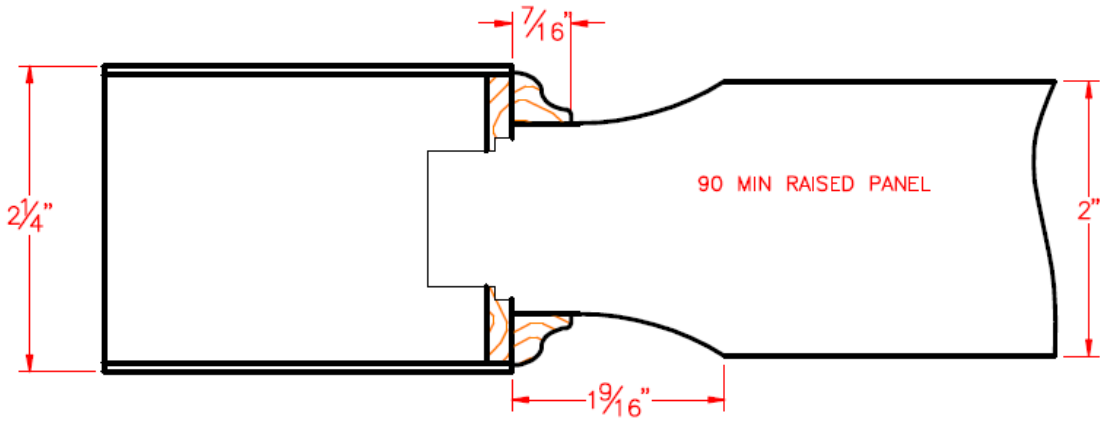
Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

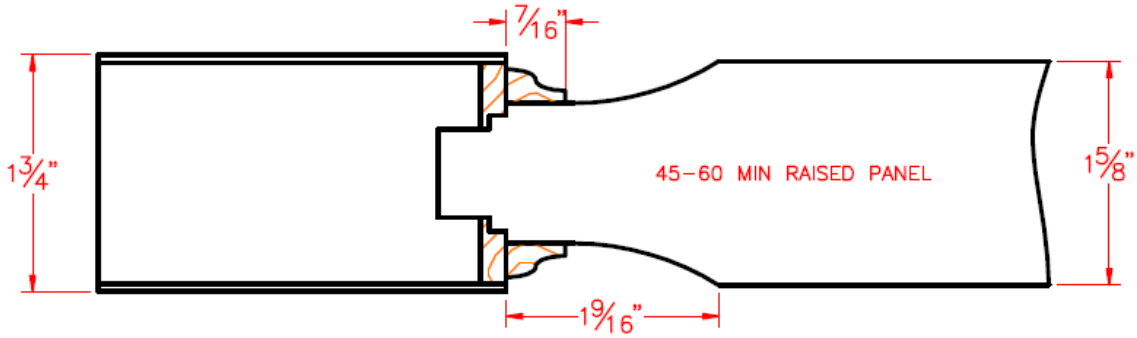
email: sales@eggersindustries.com

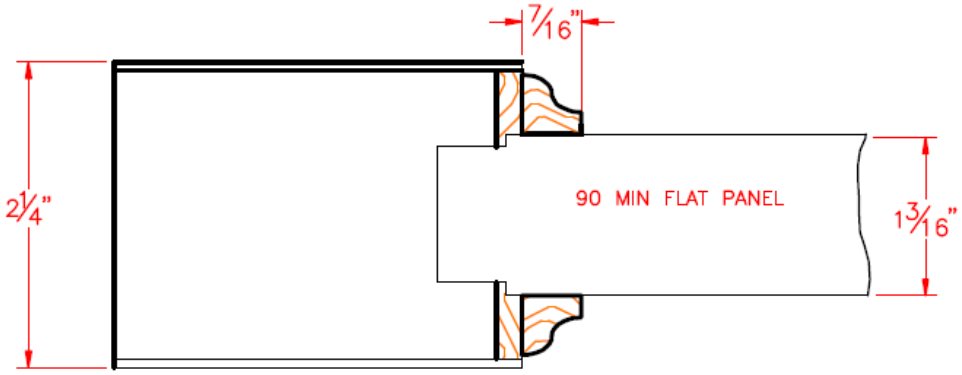
Standard 45-90 Minute Panels with Ogee
Construction Details

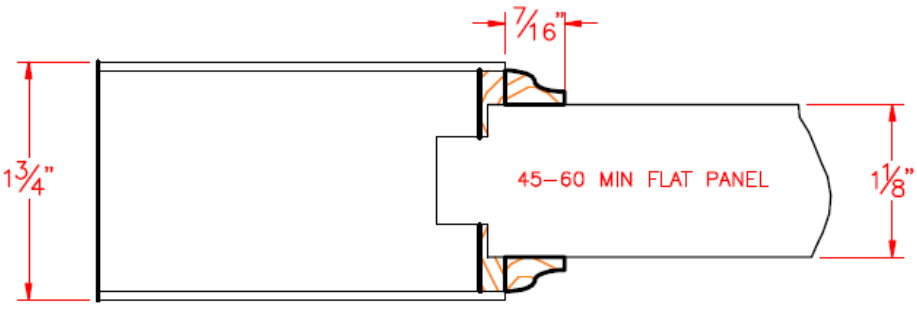
No. 740-08-09

Eggers Industries





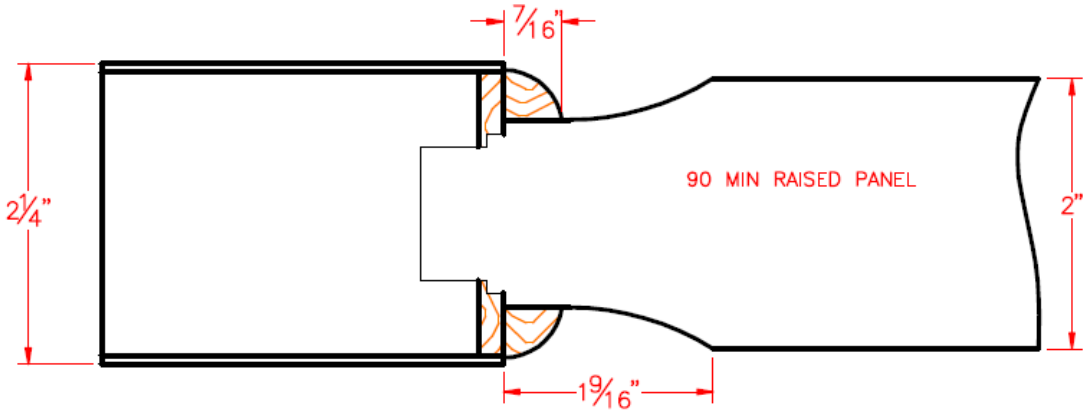


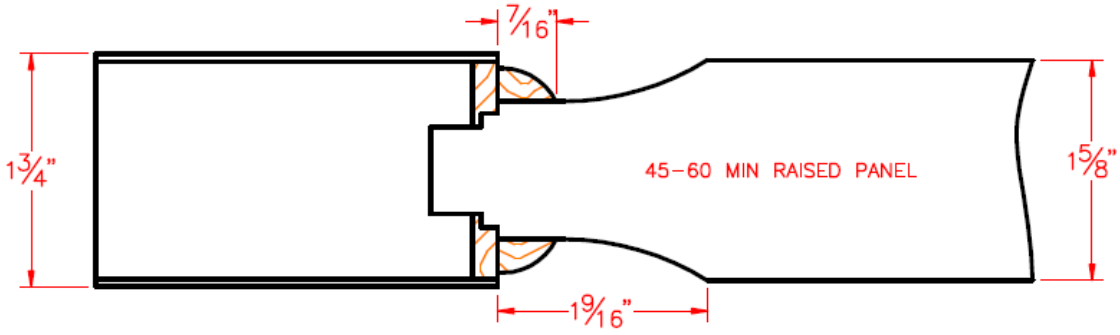


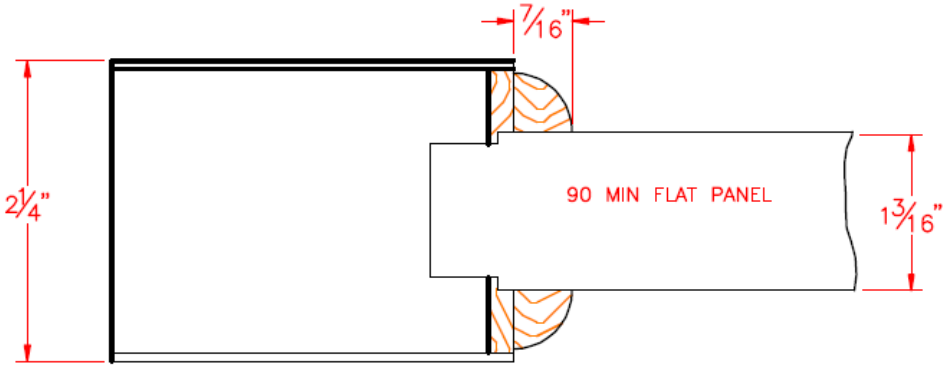
Standard 45-90 Minute Panels with Quarter Round
Construction Details

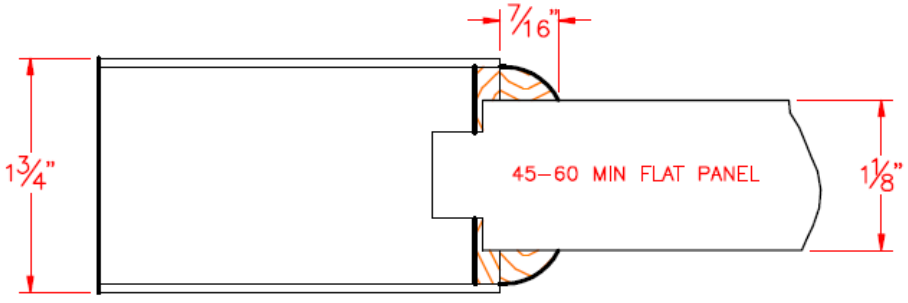
No. 740-08-09

Eggers Industries





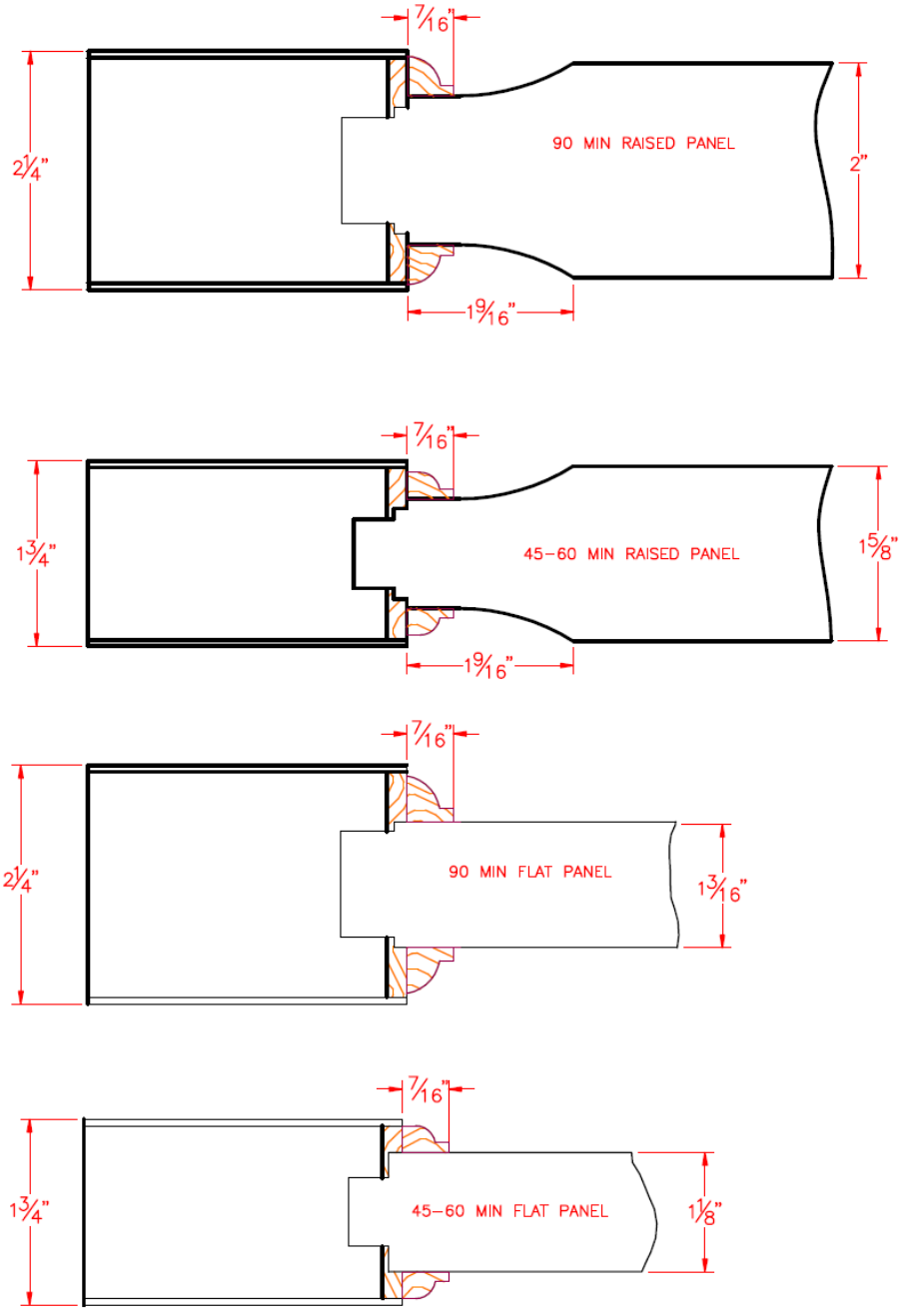




Standard 45-90 Minute Panels with Ovolo
Construction Details

No. 740-08-09

Eggers Industries



Eggers Industries

Stile & Rail Doors, Door Frames, Plywood, Veneered Components

Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

www.eggersindustries.com

Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

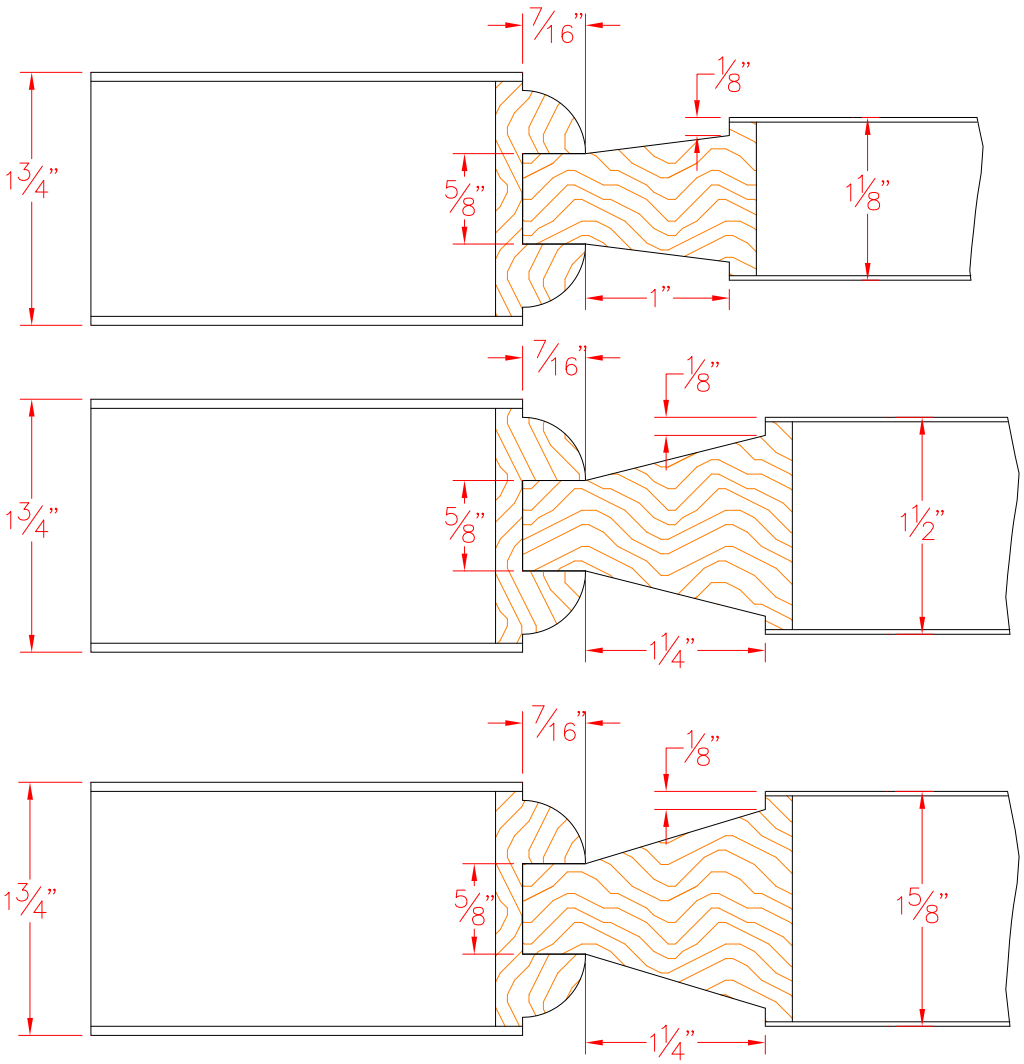
email: sales@eggersindustries.com

True Stile and Rail Doors
Optional Rim Banded Profiles

Information Bulletin 191

Date: September, 2011

Eggers Industries



Eggers Industries

Stile & Rail Doors, Door Frames, Plywood, Veneered Components

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Two Rivers, WI 54241
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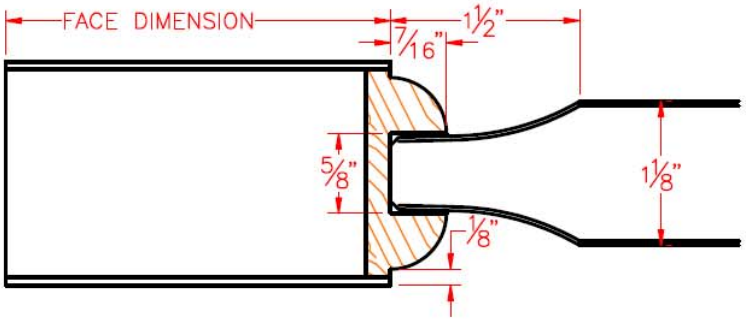
Standard Non-Rated and 20-Minute Profiles

Information Bulletin 190

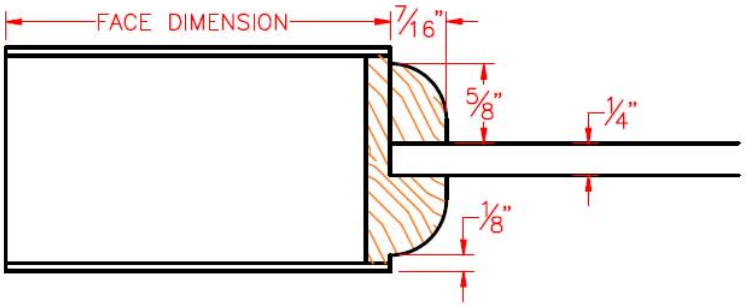
Date: June, 2011

Eggers Industries

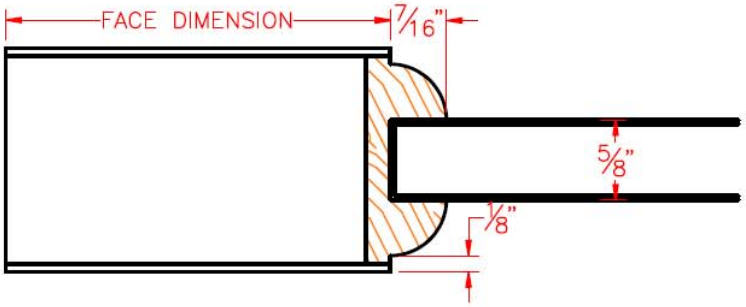
QUARTER ROUND PROFILE



QUARTER ROUND PROFILE / MEMBRANE RAISED PANEL



QUARTER ROUND PROFILE / BEAD LOOSE 1 SIDE / GLASS



QUARTER ROUND PROFILE / FLAT PANEL

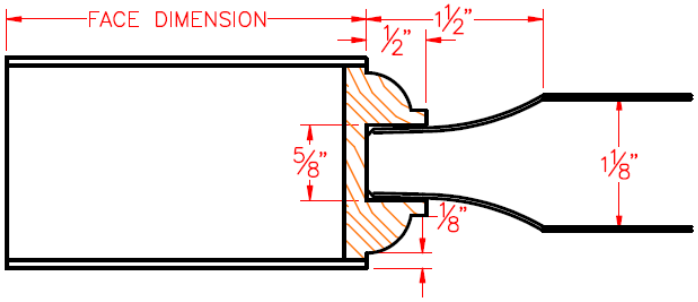
Standard Non-Rated and 20-Minute Profiles

Information Bulletin 190

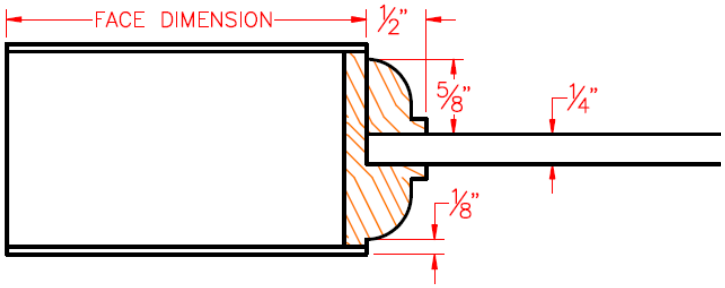
Date: June, 2011

Eggers Industries

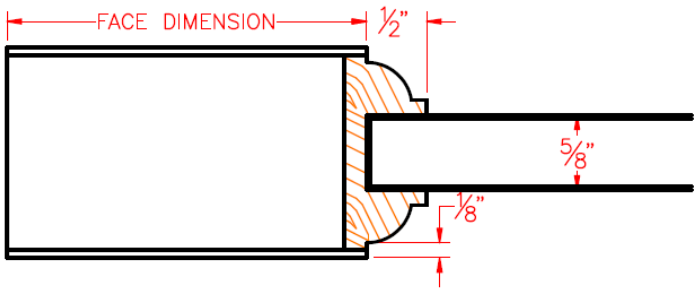
OVOLO PROFILE



OVOLO PROFILE / MEMBRANE RAISED PANEL



OVOLO PROFILE / BEAD LOOSE 1 SIDE / GLASS



OVOLO PROFILE / FLAT PANEL

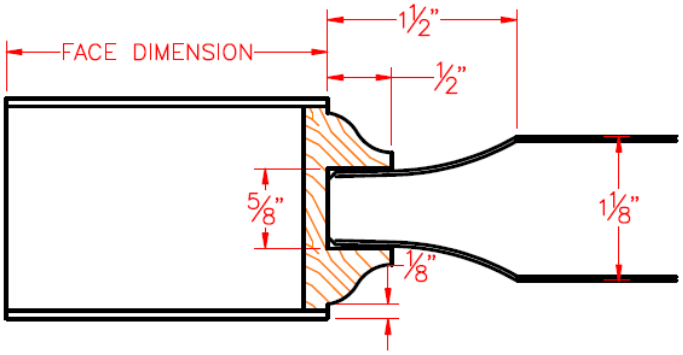
Standard Non-Rated and 20-Minute Profiles

Information Bulletin 190

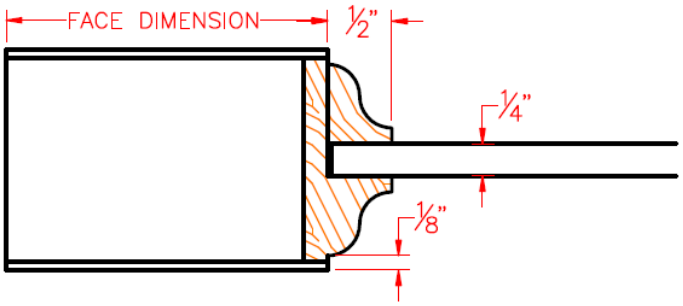
Date: June, 2011

Eggers Industries

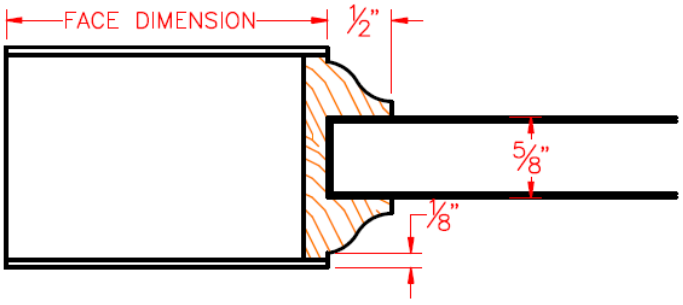
OGEE PROFILE



OGEE PROFILE / MEMBRANE RAISED PANEL



OGEE PROFILE / BEAD LOOSE 1 SIDE / GLASS



OGEE PROFILE / FLAT PANEL

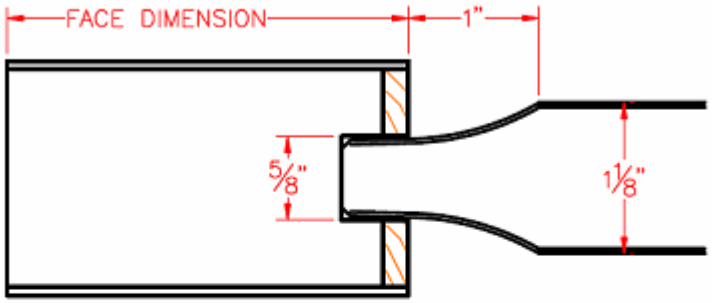
Standard Non-Rated and 20-Minute Profiles

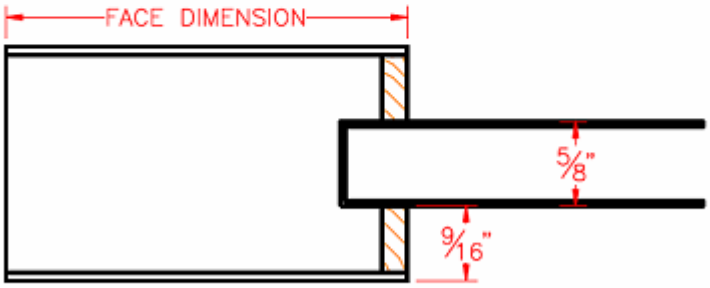
Information Bulletin 190

Date: June, 2011

Eggers Industries

SQUARE PROFILE





SQUARE PROFILE / FLAT PANEL

Eggers Industries

Stile & Rail Doors, Door Frames, Plywood, Veneered Components

Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

www.eggersindustries.com

Flush Doors

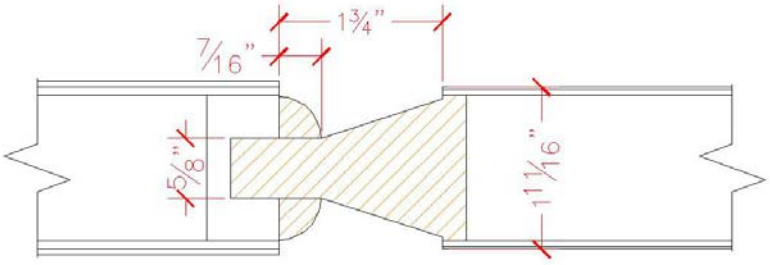
Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

email: sales@eggersindustries.com

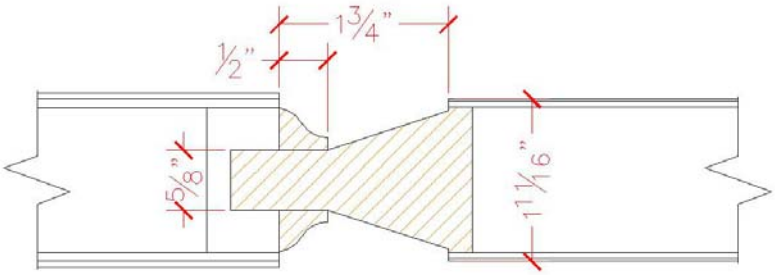
STC 40 – Stile and Rail Profiles
Construction Details

Date: January, 2013

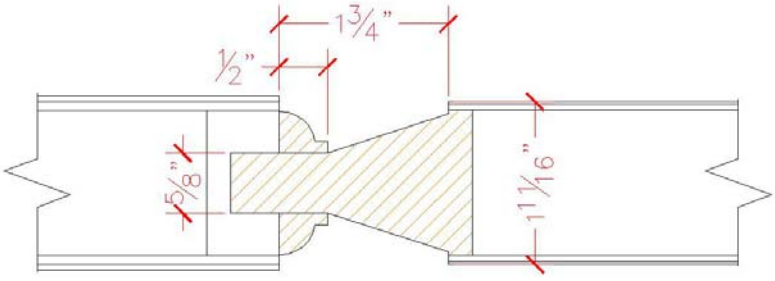
Eggers Industries



Quarter Round Profile



Ogee Profile



Ovolo Profile

Eggers Industries

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sales@eggersindustries.com

Stile and Rail Doors,
Door Frames, Plywood
Veneered Components

Two Rivers Division
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Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces,
Custom Wood Products,
Plywood

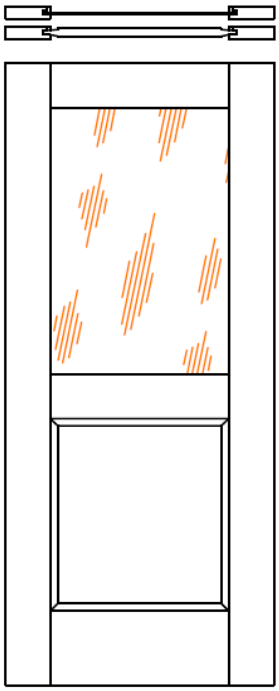
Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.849.0444

Non-Rated Tongue and Lap/Square Profile

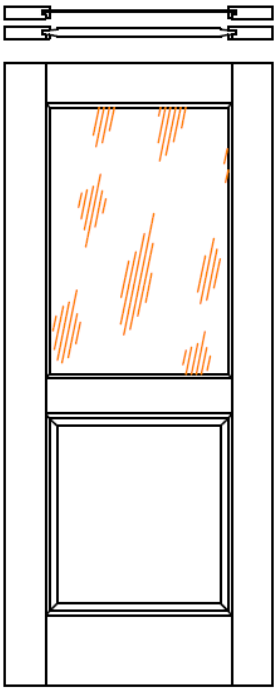
Sash Door Detail

No. 731-08-09

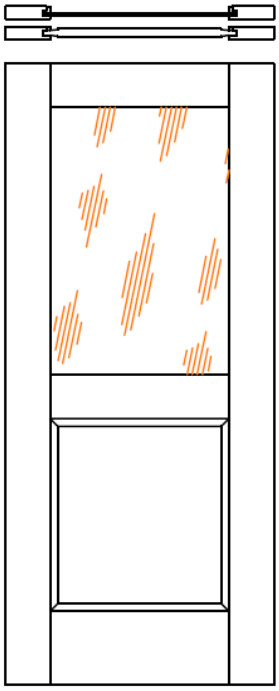
Eggers Industries



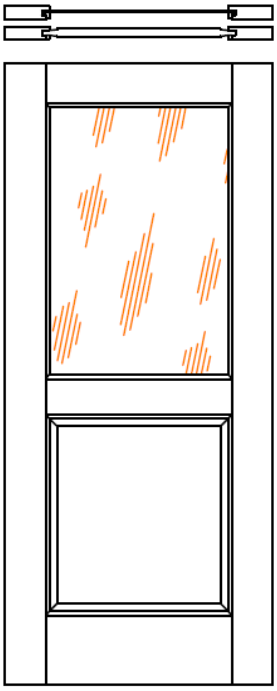
FACE SIDE =
NARROW SIDE =
OUTSIDE
(LH/RH)



BACK SIDE =
WIDE SIDE =
INSIDE
(LH/RH)



FACE SIDE =
WIDE SIDE =
OUTSIDE
(LHR/RHR)



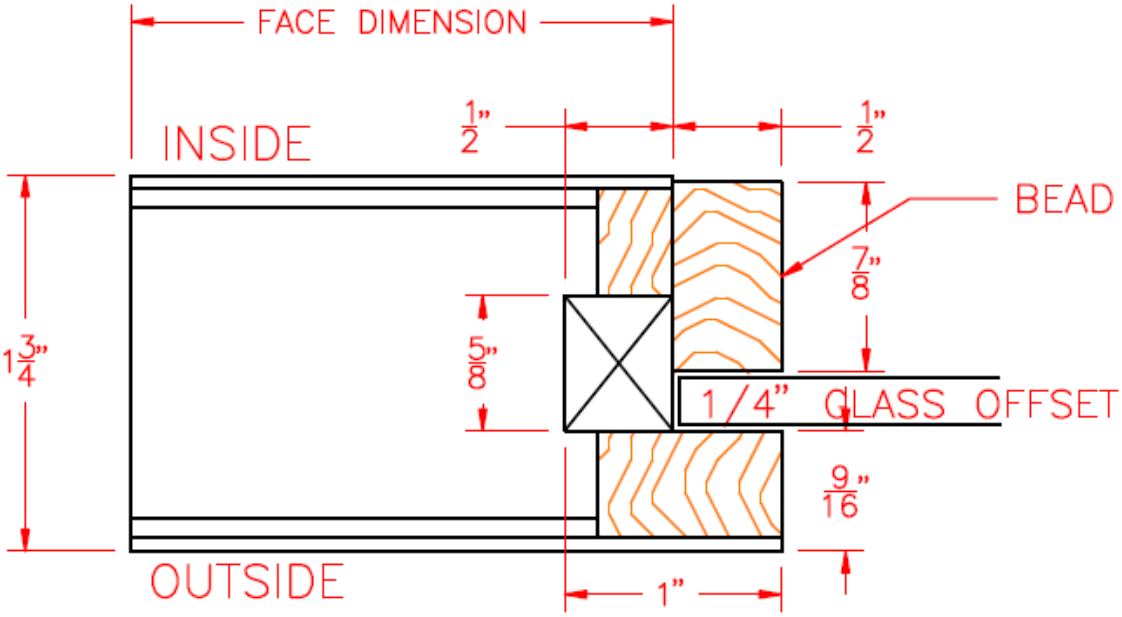
BACK SIDE =
NARROW SIDE =
INSIDE
(LHR/RHR)

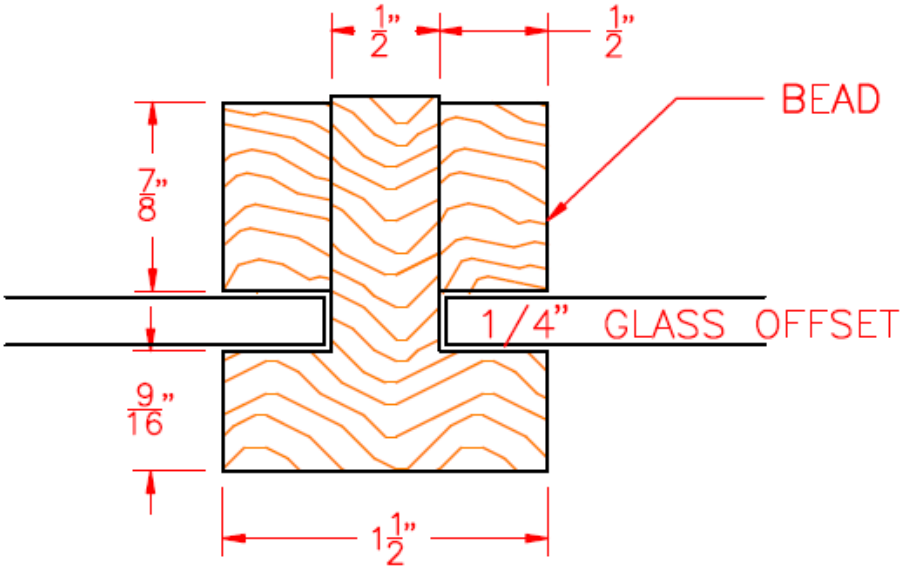
Non-Rated Tongue and Lap/Square Profile

Sash Door Detail

No. 731-08-09

Eggers Industries



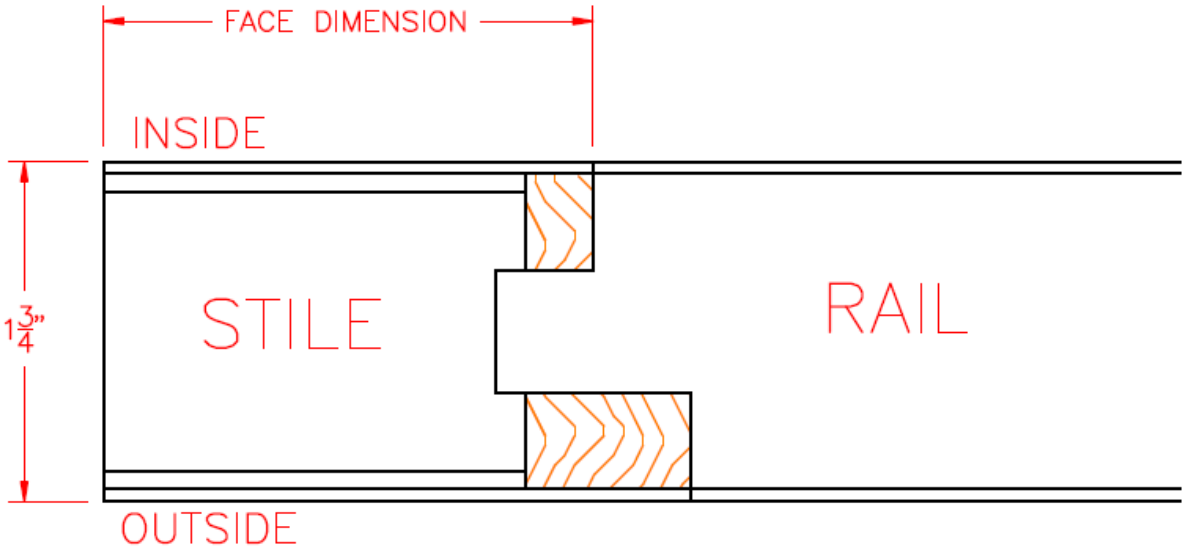


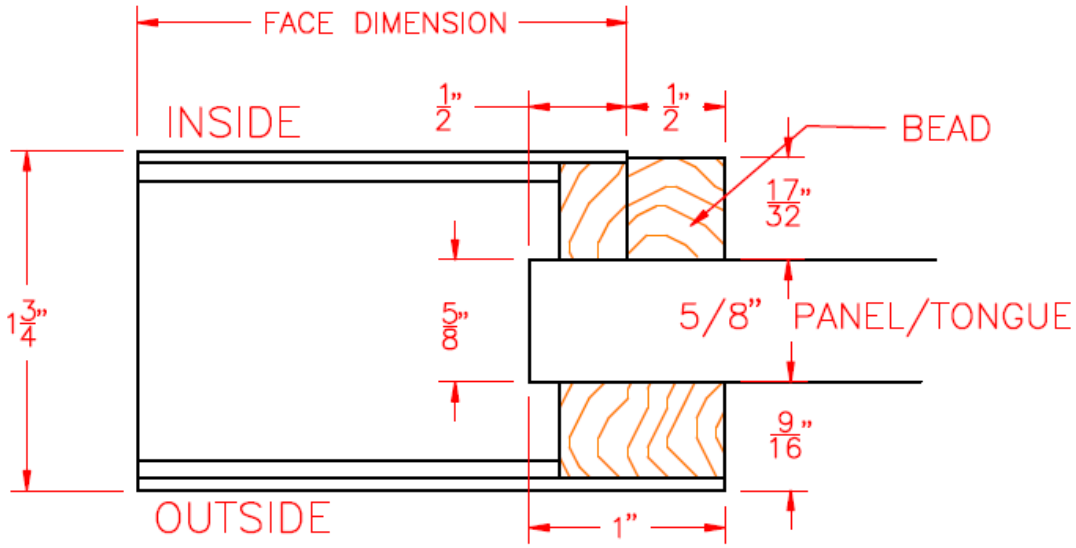
Non-Rated Tongue and Lap/Square Profile

Sash Door Detail

No. 731-08-09

Eggers Industries





Eggers Industries

Stile & Rail Doors, Door Frames, Plywood, Veneered Components

Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

www.eggersindustries.com

Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

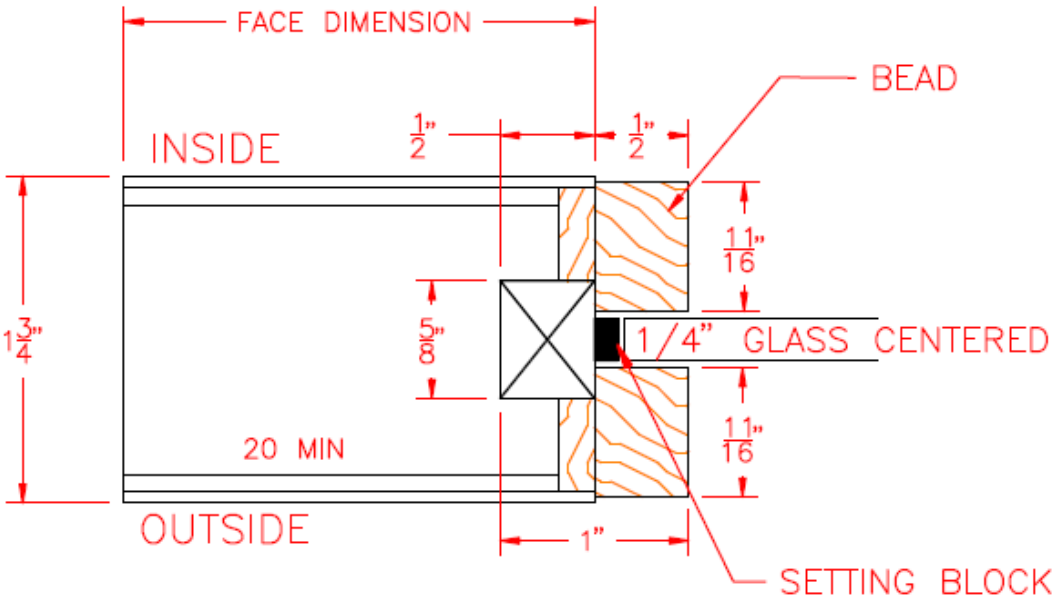
email: sales@eggersindustries.com

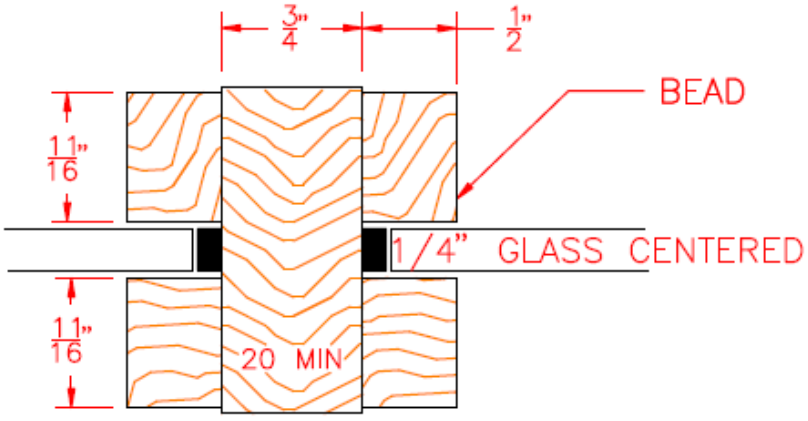
20-Minute Rated Sash Doors – Lite Detail

Door Elevation

No. 730-08-09

Eggers Industries



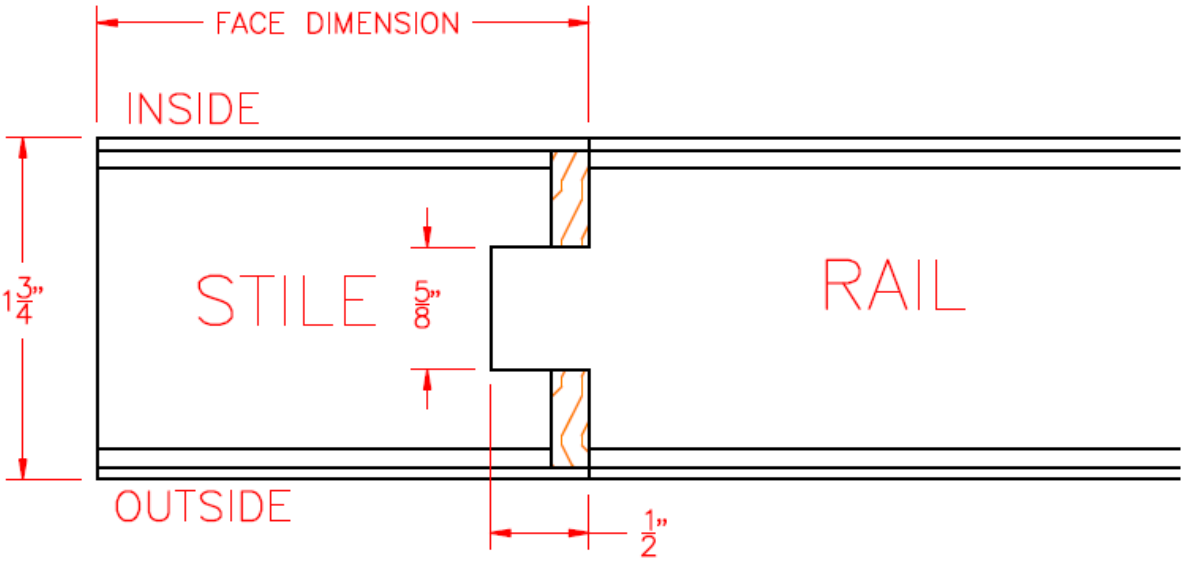


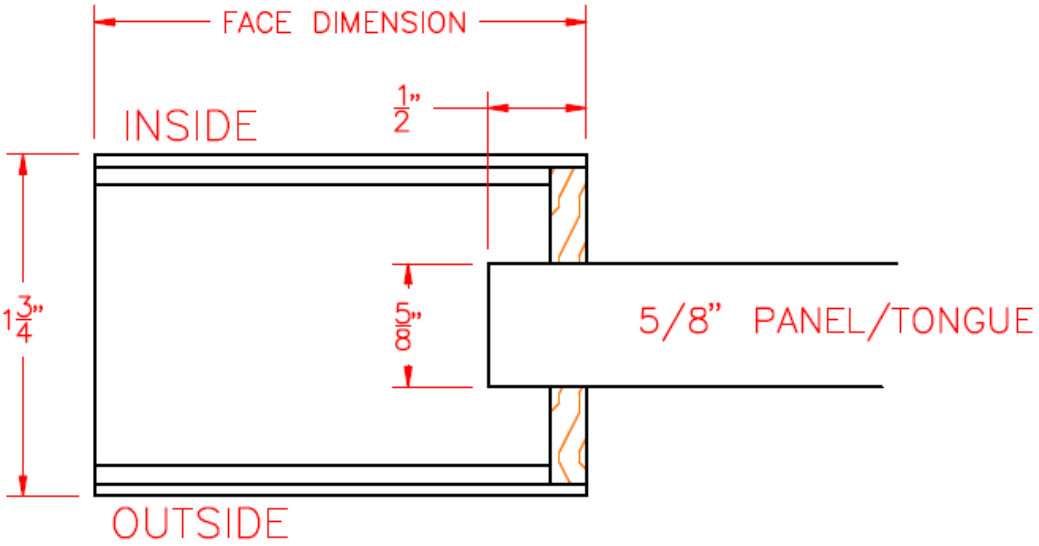
20-Minute Rated Sash Doors – Panel Detail

Door Elevation

Eggers Industries

No. 730-08-09





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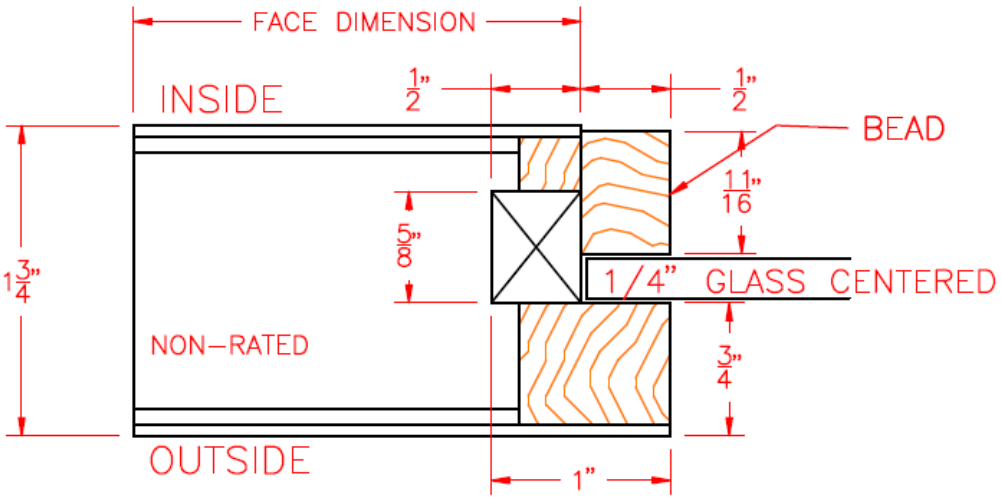
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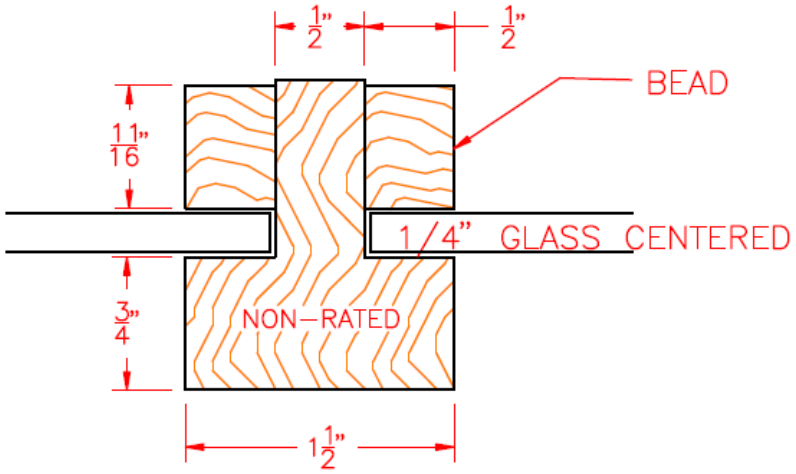
Non-Rated Full Lite with Square Profile (Tongue & Lap)

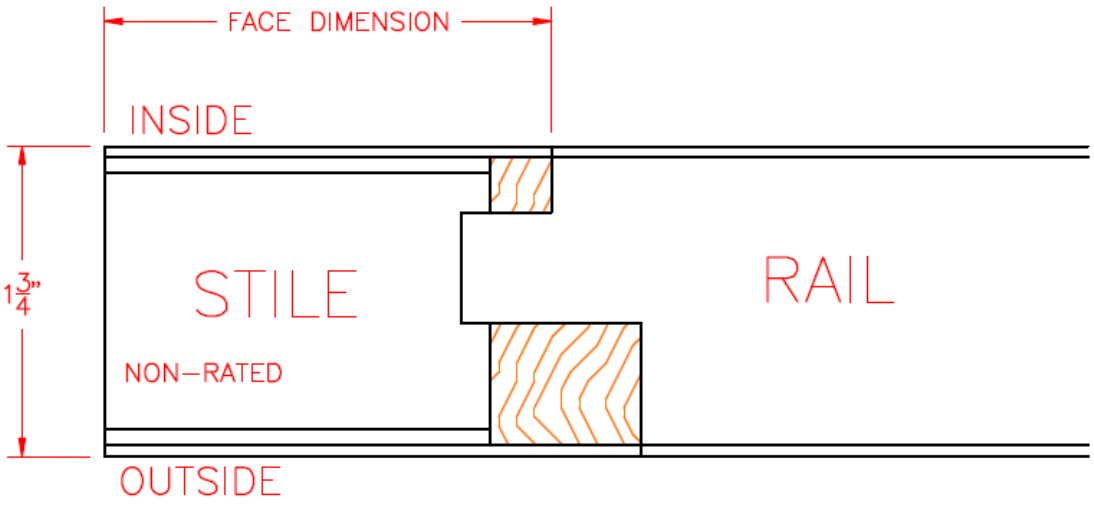
Construction Details

No. 734-07-09

Eggers Industries





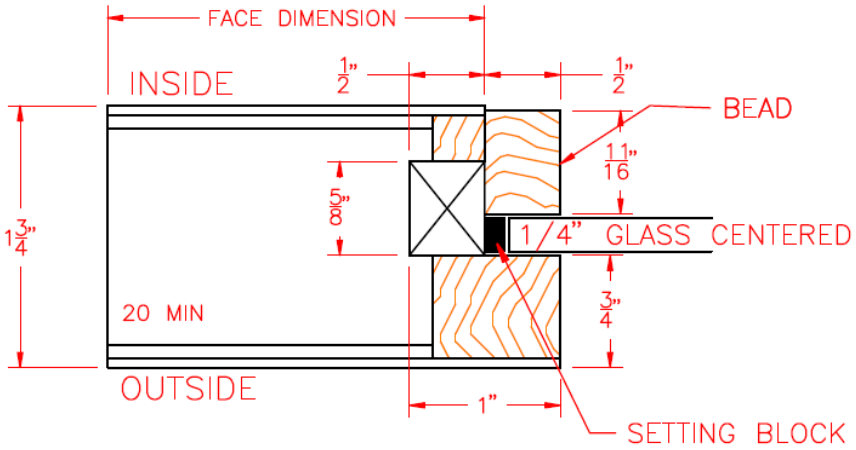


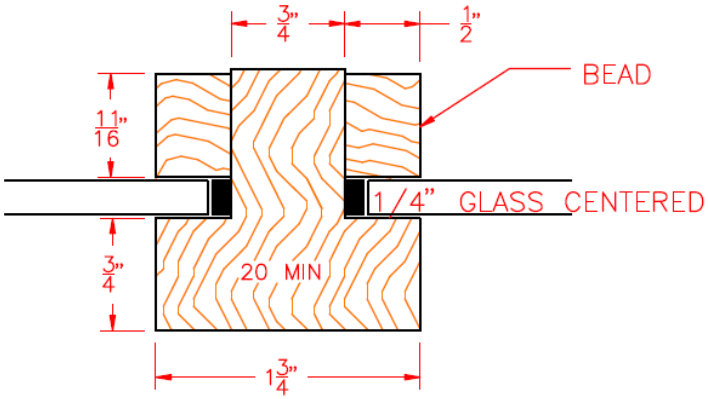
20-Minute Full Lite with Square Profile (Tongue & Lap)

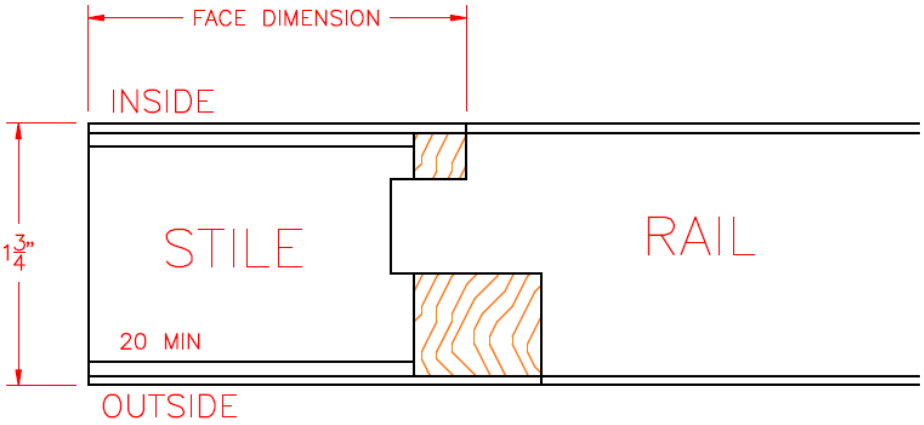
Construction Details

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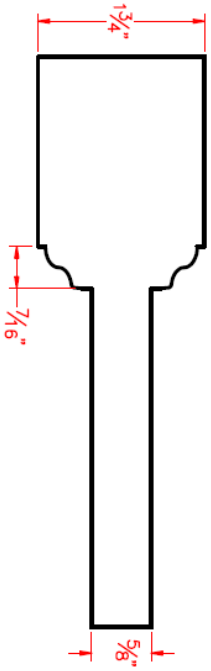
1-3/4" 90-Minute Profile and Panel Options

Door Elevations

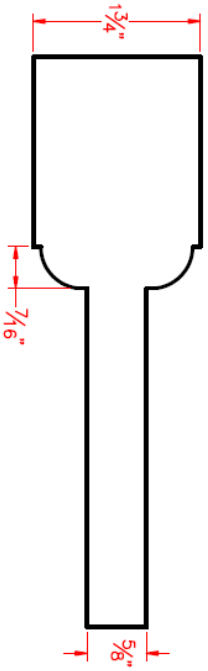
No. 742-07-09

Eggers Industries

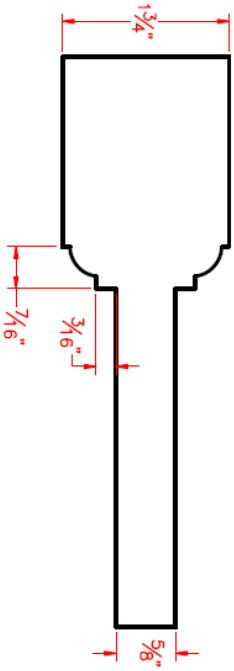
SINGLE MAX 42" WIDE FLAT PANEL DETAIL



OGEE STICKING DETAIL

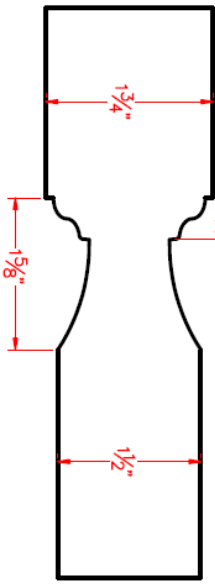


QUARTER ROUND STICKING DETAIL

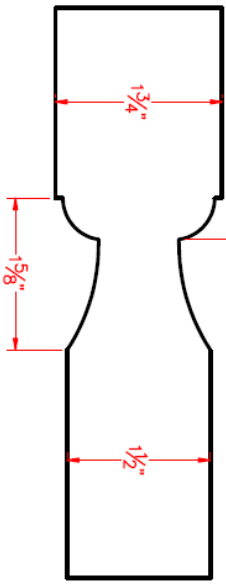


OVOLO STICKING DETAIL

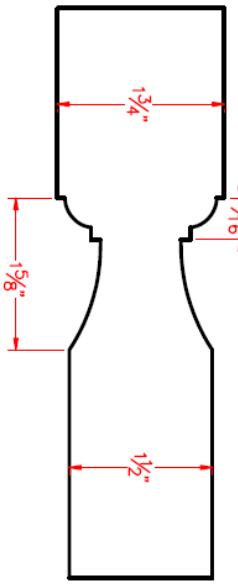
SINGLE MAX 42" WIDE RAISED PANEL DETAIL



OGEE STICKING DETAIL



QUARTER ROUND STICKING DETAIL



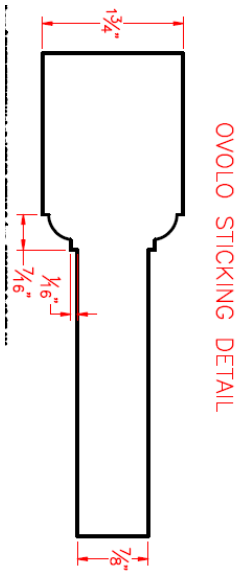
OVOLO STICKING DETAIL

1-3/4" 90-Minute Profile and Panel Options
Door Elevations

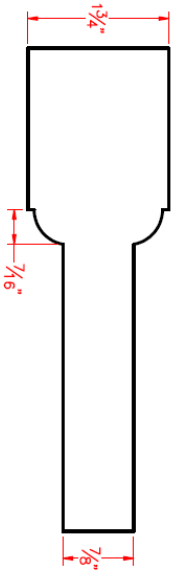
No. 742-07-09

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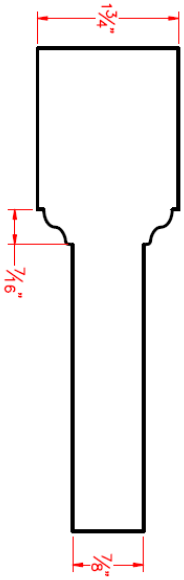
PAIR FLAT
PANEL DETAIL
SINGLE OVER 3'6" WIDE
PANEL DETAIL



OVOLO STICKING DETAIL

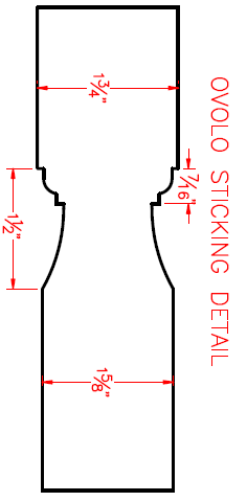


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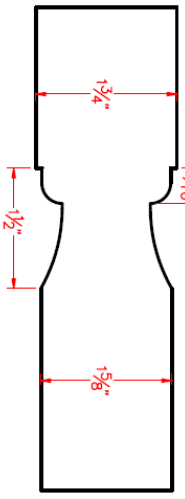


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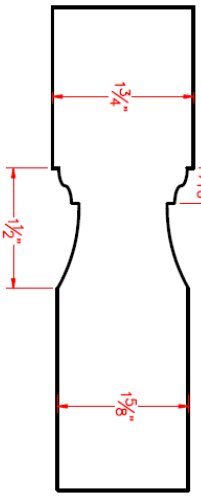
PAIR RAISED
PANEL DETAIL
SINGLE OVER 3'6" WIDE
PANEL DETAIL



OVOLO STICKING DETAIL



QUARTER ROUND STICKING DETAIL



OGEE STICKING DETAIL

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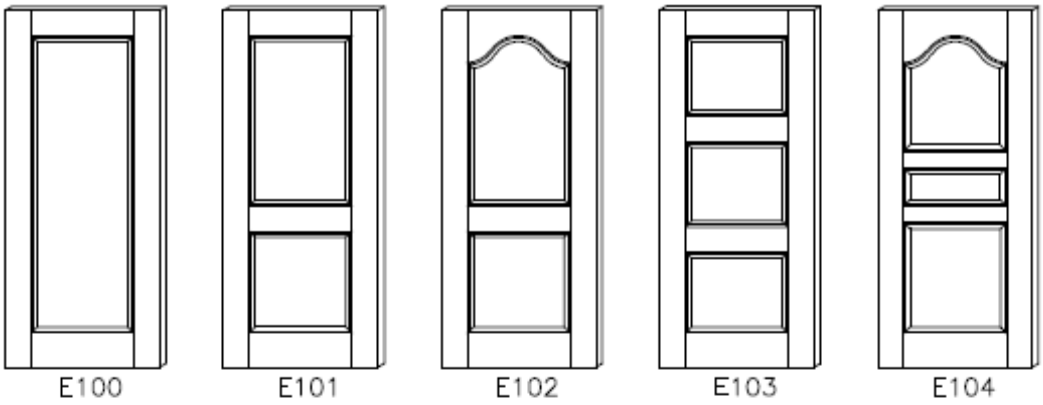
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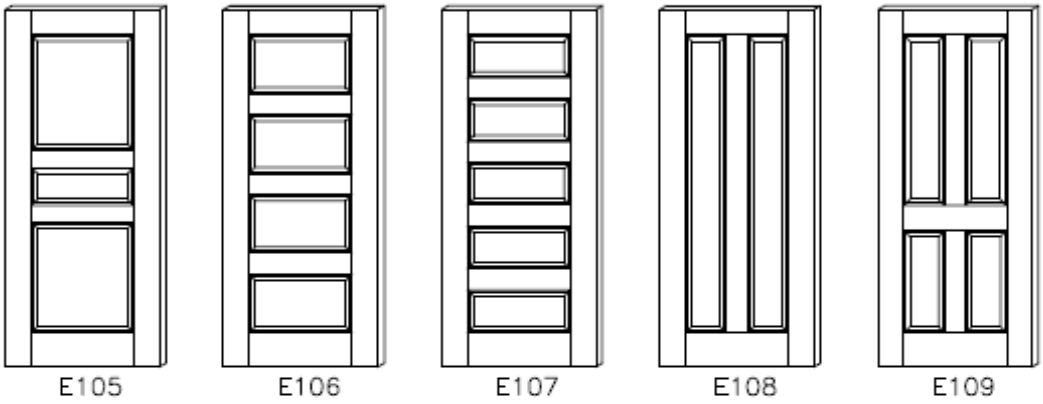
True Stile & Rail Doors

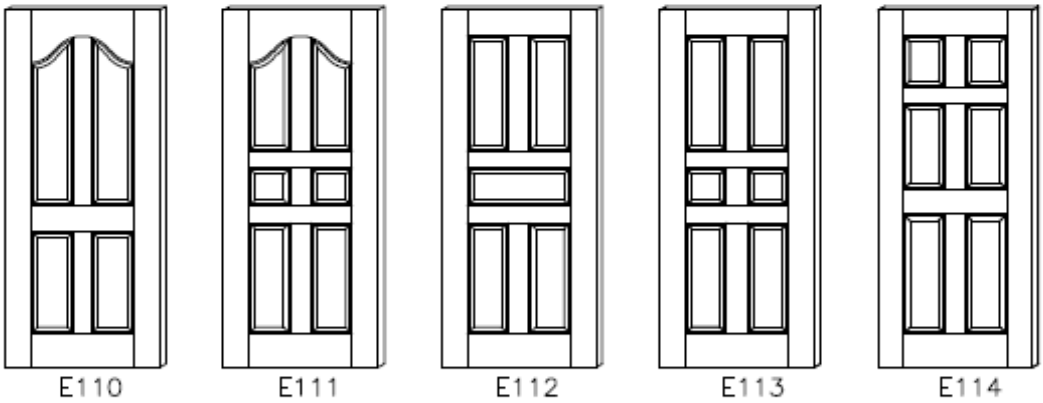
Standard Door and Sidelite Patterns

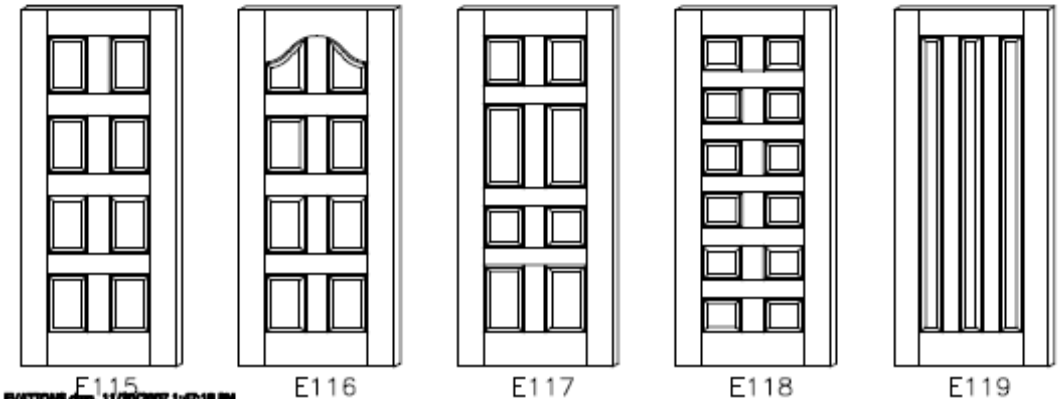
No. 298-12-07

Eggers Industries







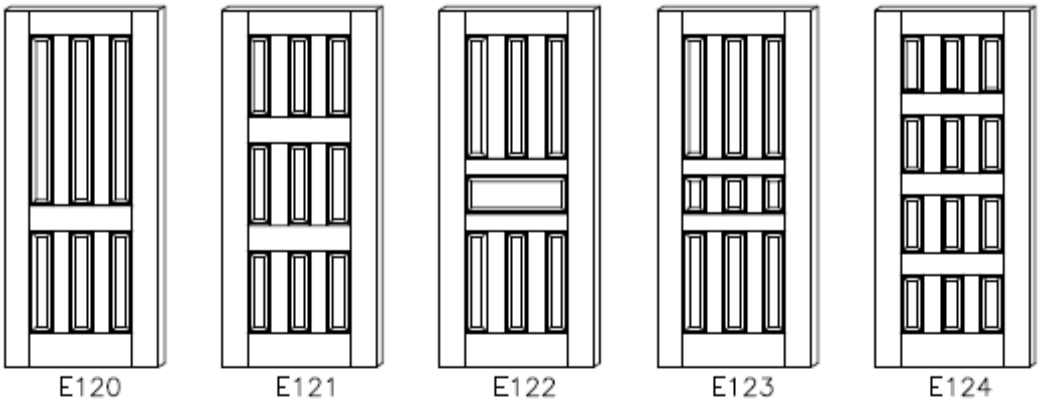


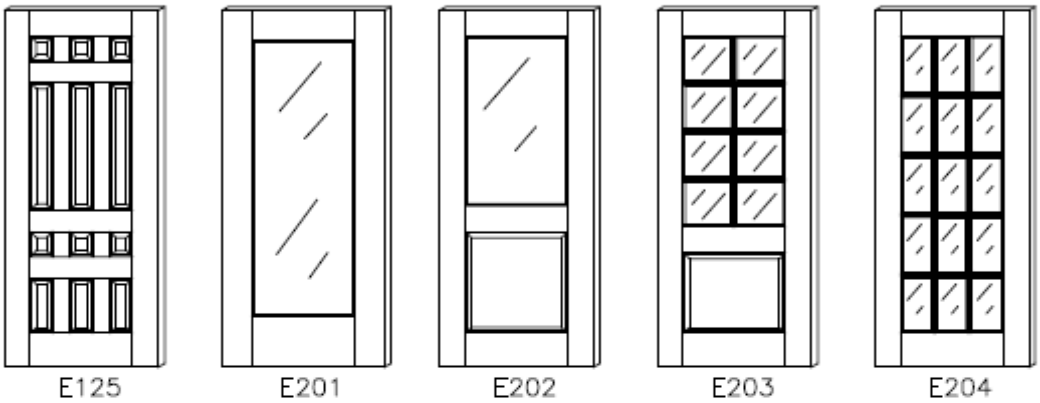
True Stile & Rail Doors

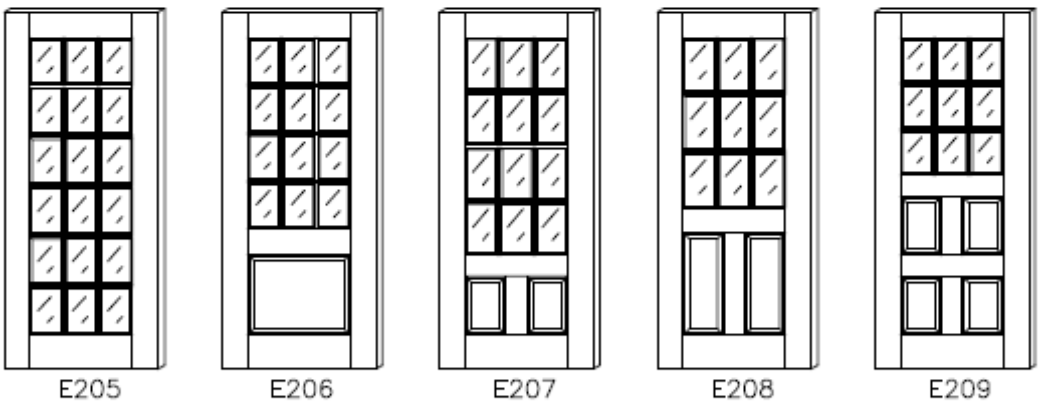
Standard Door and Sidelite Patterns

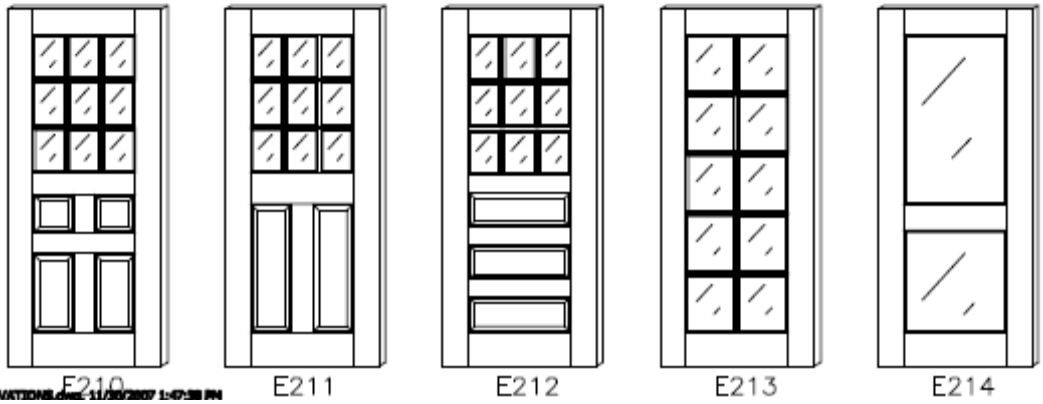
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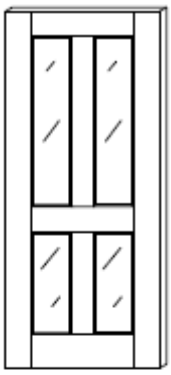


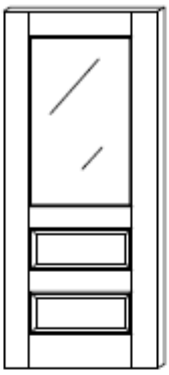
True Stile & Rail Doors

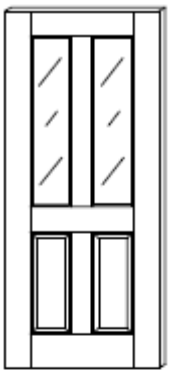
Standard Door and Sidelite Patterns

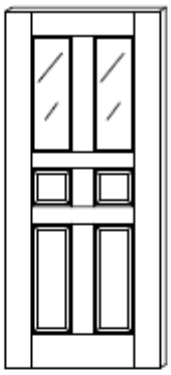
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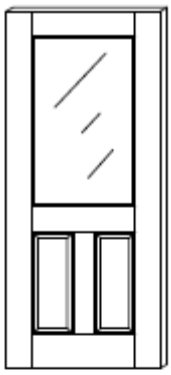
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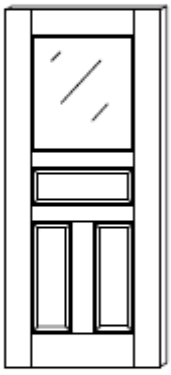

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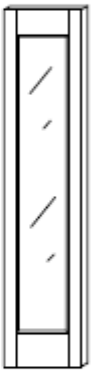

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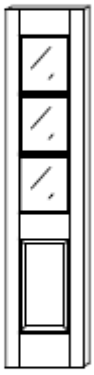

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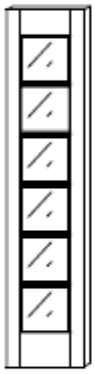

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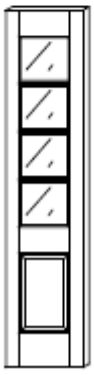

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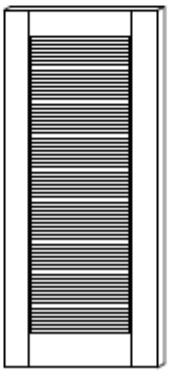

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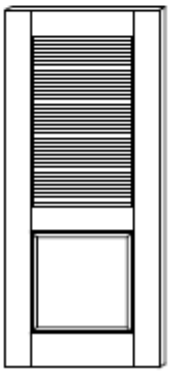

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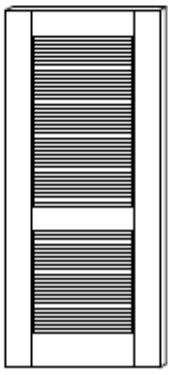

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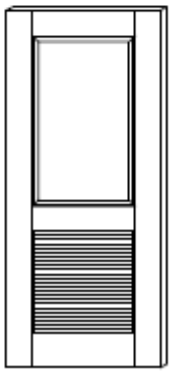

E605


E607


E801


E802


E803


E807

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SOUNDWOOD ACOUSTICAL CAPABILITIES

Product Offering Chart

Date: April, 2014

Eggers Industries

DOOR TYPE & SWING	STC RATING	DOOR THICK-NESS	AVAILABLE FIRE RATING	GASKET SYSTEM	GLAZING SYSTEM	GLAZING TYPE	GLAZING AREA (sq in)	WEIGHT (sq ft)	TEST REPORTS
Flush Single Swing	52 [1]	1-3/4"	NR	S or T	NA	---	---	12.0	C5765.03
	51 [1]	1-3/4"	NR	U	NA	---	---	12.0	C5765.03
	51	2 1/4"	20	A	NA	---	---	15.8	TL94-37
	50 [1]	1-3/4"	NR	S or T	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C5765.04
	49 [1]	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A
	48	1-3/4"	20	A	NA	---	---	13.7	TL97-320
	48	2 1/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	15.8	TL95-350
	47	2 1/4"	20	A	VP:110-D2	Pyroswiss / 1/2" Laminated	400 (max)	15.8	TL95-351
	47	1-3/4"	60-45	A	NA	NA	NA	15.7	TL03-023
	46	1-3/4"	60-45	A	VP: Lo Pro IS	1" Rated IGU	100 (max)	15.7	TL03-024
	45	1-3/4"	20	A	NA	---	---	7.7	TL94-220
	44	1-3/4"	20	I	NA	---	---	7.7	TL10-134
	43	1-3/4"	NR	P	NA	---	---	7.9	100534284CRT-001k
	43	1-3/4"	20	A	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	100 (max)	7.7	TL03-020
	43	1-3/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	7.7	TL03-019
	43	1-3/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	13.6	TL03-022
	42	1-3/4"	20	U	NA	---	---		C5765.01
	42	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j
	42	1-3/4"	NR	A	Bead: 107	1/2" Laminated	400 (max)	7.7	TL03-021
	41	1-3/4"	NR	B	Bead: 107	1/2" Laminated	400 (max)	6.5	TL03-012
	41	1-3/4"	NR	B	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	6.5	TL03-013
	41	1-3/4"	20	A	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	400 (max)	7.7	TL95-348
	41	1-3/4"	45	B	VP: Lo Pro IS	1" Rated IGU	400 (max)	9.2	TL97-313
	40	1-3/4"	NR	M	Bead: 110	1-1/8" Non-Rated IGU	1296 (max)	6.7	TL10-141
	40	1-3/4"	20	B	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	400 (max)	7.7	TL95-347
	40	1-3/4"	45	A	NA	---	---	9.2	TL95-349
	40	1-3/4"	90-60-45	C	NA	---	---	7.6	TL06-051
	39	1-3/4"	45	B	NA	---	---	9.2	TL95-346
	39	1-3/4"	90-60-45	I	NA	---	---	7.7	TL06-053
	38	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (min)	6.7	C7672.01B
	37	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	Full Lite (min 47% of area)	5.9	TL05-052
	37	1-3/4"	60-45	I	VP: 115-L1	Firelite Plus / Leaded	100 (max)	10.3	TL05-126
	37	1-3/4"	20	I	Bead: 100	Firelite Plus	400 (max)	6.0	TL05-051
	36 [2]	1-3/4"	20	P	NA	---	---	6.3	100534284CRT-001l
	36	1-3/4"	60-45	I	NA	---	---	10.2	TL05-125
	36	1-3/4"	20	N	NA	---	---	7.1	100534284CRT-001f
	35	1-3/4"	20	M	NA	---	---	10.0	TL10-142
	35	1-3/4"	90-60-45	R	NA	---	---	7.2	A5305.02-113-11
	35	1-3/4"	NR	I	Bead: 107	1/2" Laminated	1296 (min)	6.2	TL10-138
	35 [2]	1-3/4"	NR	O	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	7.3	TL10-144
	35 [2]	1-3/4"	20	I	NA	---	---	7.3	TL10-136
	34	1-3/4"	NA	B	Bead: 107	1/2" Laminated	1296 (min)	6.2	TL10-138
	34	1-3/4"	NA	I	LoPro IS	1/2" Laminated	400 (min)	6.1	TL10-135
	34 [2]	1-3/4"	20	Q	NA	---	---	6.3	100534284CRT-001m
	33	1-3/4"	NA	I	Bead: 107	1/2" Laminated	400 (min)	6.1	TL10-133
	33	1-3/4"	20	Q	NA	---	---	6.9	100534284CRT-001n
	33 [2]	1-3/4"	20	N	NA	---	---	6.3	100534284CRT-001d 100534284CRT-001e
	32	1-3/4"	20	Q	NA	---	---	5.5	100534284CRT-001o 100534284CRT-001p
	32	1-3/4"	20	I	NA	---	---	6.9	TL06-059
	32	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (max)	6.9	TL06-059 & TL97-313
	32	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	6.9	TL06-059 & TL03-013
	32	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (max)	6.9	TL06-059 & TL03-012
	32	1-3/4"	20	N	NA	---	---	6.9	100534284CRT-001b
	31	1-3/4"	20	I	NA	---	---	5.8	TL06-058, TL10-129
	31	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (max)	5.8	TL06-058 & TL97-313
	31	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	5.8	TL06-058 & TL03-013
	31	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (max)	5.8	TL06-058 & TL03-012
	31	1-3/4"	NR	N	NA	---	---	5.5	100534284CRT-001a

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SOUNDWOOD ACOUSTICAL CAPABILITIES

Product Offering Chart

Date: April, 2014

Eggers Industries

	30	1-3/4"	20	I	NA	---	---	4.6	TL06-056
	30	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (max)	4.6	TL06-056 & TL97-313
	30	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	4.6	TL06-056 & TL03-013
	30	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (max)	4.6	TL06-056 & TL03-012
	29	1-3/4"	90-60-45	I	NA	---	---	4.4	TL06-057
	27	1-3/4"	20	I	NA	---	---	4.9	TL07-035
	27	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (max)	4.9	TL07-035 & TL97-313
	27	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	4.9	TL07-035 & TL03-013
	27	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (max)	4.9	TL07-035 & TL03-012

Please note: All acoustic doors are available as "No Added UF" and "Phase 2 Carb Compliant" [1] U.S. Patent No. 8,573,357 [2] Available as FSC® certified

DOOR TYPE & SWING	STC RATING	DOOR THICK-NESS	AVAILABLE FIRE RATING	GASKET SYSTEM	GLAZING SYSTEM	GLAZING TYPE	GLAZING AREA (sq in)	WEIGHT PER SQ. FT.	TEST REPORTS
Stylus	33	1-3/4"	20	I	NA(7)	---	---	5.5	TL07-057
	32	1-3/4"	20	I	NA(7)	---	---	6.2	TL07-058
	31	1-3/4"	90-60-452	I	NA	---	---	4.3	TL07-059
Flush Active-Inactive Pairs (2)	49	1-3/4"	20	A	NA	---	---	13.7	TL98-238
	44	1-3/4"	20	A	NA	---	---	7.7	TL98-236
	41	1-3/4"	20	B	NA	---	---	7.7	TL98-233
Flush Active-Active Pairs (3)	41	1-3/4"	20	K	NA	---	---	6.2	TL08-007
	40	1-3/4"	NR	K	Bead: 100	1/2" Laminated	400 (max)	6.3	TL08-009
	34	1-3/4"	45	K	VP: Lo-Pro IS	Superlite II-XL-45	Full Lite (min 47% of area)	6.5	TL11-111
	31	1-3/4"	90-60-45	K	NA	---	---	7.2	TL11-110
	31	1-3/4"	20	K	NA	---	---	6.4	TL11-112 TL11-113
Dutch Door	44	1-3/4"	20	A	NA	---	---	7.7	TL98-237
Door & Transom	44	1-3/4"	20	A	NA	---	---	7.7	TL98-237
Communicating	53	1-3/4"	20	B	NA	---	---	7.7	TL93-219
Stile & Rail Single Swing	40	1-3/4"	NR	B	NA	---	---	8.3	TL99-120
	40	1-3/4"	NR	A	Bead: 110	Non-Rated IGU	400 (max)	8.3	TL99-122
	39	1-3/4"	NR	I	Bead: 110	Non-Rated IGU	1296 (max)	7.0	TL05-123
	38	2 ¼"	90-60-45	A	NA	---	---	12.5	TL97-321
	37	2 ¼"	90-60-45	B	NA	---	---	12.5	TL97-312
	36	1-3/4"	60-45	B	NA	---	---	9.7	TL97-317
	33	1-3/4"	20	B	NA	---	---	5.9	TL94-41
	33	2 ¼"	20	B	NA	---	---	6.9	TL97-311
Stile & Rail Active-Active Pairs	37	1-3/4"	NR	K	NA	---	---	7.9	TL11-109
	35	1-3/4"	60-45	K	NA	---	---	10.2	TL11-108
	32	1-3/4"	20	K	NA	---	---	5.9	TL11-107

(1) All acoustic doors are available as "No Added UF" and "Phase 2 Carb Compliant"

(2) Test was conducted as an active/inactive pair installation and requires Eggers overlapping wood astragal

(3) Test conducted as an active/active pair with top latching surface hardware

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SOUNDWOOD ACOUSTICAL CAPABILITIES

Product Offering Chart

Date: April, 2014

Eggers Industries

ACOUSTICAL GASKETING AND UNDERCUTTING		
GASKET SYSTEM	**COMPONENTS**	**REQUIRED UNDERCUT**
A	Double row Pemko S-88 gasket, Pemko 434 door bottom, Pemko 2005 threshold	1/2"
B	Double row Pemko S-88 gasket, Pemko 434 door bottom	1/4"
C	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 2005 threshold	3/8"
I	Double row Pemko S-88 gasket, Zero 369 door bottom	5/8"
K	Double row Pemko S-88 gasket and pad on frame, Zero 369 door bottom, one row of Pemko S-1125 on each meeting edge	5/8"
M	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 151 flat threshold	3/8"
N	DHSI 105, DHSI AMDB3-3, & DP*	1/4" to 3/8"
O	Pemko 773, Pemko 234 door shoe, Flat smooth threshold	3/8"
P	DHSI 105, SA, CS, DP	3/8"
Q	DHSI 105, Pemko 2005	3/8"
R	Zero 119W, Zero 8145S, Zero 369	5/8"
S	2008STCxQ380 Threshold, S44 and 312R	3/8"
T	2008STCxQ380 Threshold, S773 and S44	3/8"
U	Pemko PDB411, S773, S44 and ACP112	3/8" (1/4"-1/2")
* DP375 is used for the Solid Wood Edge Option (SWE); DP250 is used for full width mortise or CS		
Notes:Eggers standard offering for the Pemko 434 is the ARL seal and for the Pemko 2005 is the AT seal		

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Barber Pole
Information Bulletin

No. 280-01-08

Eggers Industries

"Barber Pole" is a noticeable color variation between the individual flitches in book matched veneer. This variation may be objectionable to the end-user, even though the doors meet prevailing AWI and WDMA specifications. **"Barber Pole" is not considered a manufacturing defect and therefore claims related to its appearance will not be honored.**

The pictures below illustrate the typical appearance of "Barber Pole" in book matched door faces.



Plain Sliced Red Oak Book Matched



Plain Sliced White Maple Book Matched

This characteristic may occur in most species and in any cuts of book matched veneer. However, it is most prominent in Rift and Quarter Cut veneer. It is unpredictable in its frequency and severity of occurrence.

Specifying slip match rather than book match may minimize this condition. However, slip matching will slightly alter the grain appearance of the door face, as illustrated below.



Plain Sliced Red Oak Book Matched



Plain Sliced Red Oak Slip Matched

Slip match slightly increases the cost of a door and must be specified prior to order entry at the factory.

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Natural Face Veneers
Information Bulletin

No. 300-09-07

Eggers Industries

Your door quote to us specifies a Natural veneer (Ash, Beech, Birch, Maple, or Poplar). **When specifying NATURAL, veneers contain unlimited amounts of sapwood and/or heartwood.** Natural veneer has extreme variation in the appearance of heartwood (the dark portions in the illustrations below, usually red/brown in an actual piece of veneer) and sapwood (the light portions in the illustrations below, usually white in an actual piece of veneer). **This variation cannot be controlled, and will vary both within individual door faces and between door faces.**

In Natural veneer door faces, there is no predictability of how and where heartwood and sapwood will appear. If the doors for your job require a similar appearance, either within a door face or from door to door, it will not be achieved with these species. **If you have a consistent appearance requirement for your wood doors, please contact Eggers for suitable alternatives.**



MOSTLY HEARTWOOD **MOSTLY SAPWOOD**

These veneer examples are typical of grain and color variations found within "A" grade plain sliced natural birch and plain sliced natural maple. However, even these do not represent the widest range possible.

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Clear (01-CLEAR) Sample Submittal Waiver

Date:

I am requesting that Eggers Industries not submit a clear (01-Clear) physical sample for approval for the order listed below and understand that the order will be finished with Eggers' standard clear (01-Clear) finish. By signing this request below, I understand that I am relieving Eggers Industries of any liabilities that may occur due to not having a physical sample produced for this project.

Customer Name:

Project Name:

PO #:

Veneer cut & species:

Signed By:

Date:

Print Name:

Eggers Finishing Systems

Information Bulletin 454

Date: May, 2015

Eggers Industries

Eggers provides the widest selection of finishing systems in the industry. Our wide range of finish systems are anchored by Gardall, consisting of water based stains and 100% solid clear coats which contain no VOC's. Gardall is an environmentally friendly finish system.

Eggers' Gardall finish system meets or exceeds the performance standards set by WDMA and AWS for UV-cured finish systems. Eggers' broad selection of finishing systems provides a cost effective alternative to field finishing. With factory finishing, you can expect superior color consistency and uniformity.

Neenah Division Finishing Process:
Our Neenah division utilizes a precision roll coating finishing process that results in six coats of finish with a final dry coating thickness of 1.5 mils. Multiple thin coats of material offer a high-quality smooth appearance with the durability that is essential in the commercial door industry.

Two Rivers Division Finishing Process:
Our Two Rivers Division utilizes a top-of-the-line spray finishing system with automatic spray guns all in an enclosed chamber. Eggers has implemented strict manufacturing procedures and processes to address and avoid the common finishing issues and we take great pride in the superior quality our finishing system provides.

OTHER SYSTEMS AVAILABLE

Gardall Plus
This is the same Gardall finish system but it has additional sealer and/or topcoats applied. This is used for specifications that call out filled effect finish or semi-filled. Ask for clarification whenever filled effect is listed in a specification.

Opaque Finish
Our opaque finish is offered as an AWS system 5 for opaque finishes and we can match any color. This finish is often referred to as a “painted finish”. AWI does not recognize “paint” as a finish system, only opaque varnishes, as “paint” is too generic of a term to be used as a designated architectural grade finish.

Ebonized Finish
This finish blackens the veneer and is done in one of two methods depending upon the look that is desired. We will either utilize stain or diluted opaque varnishes to obtain the desired color.

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Eggers Finishing Systems
Information Bulletin 454

Date: May, 2015

Eggers Industries

Whitewash Finish
A white stain is used to achieve this specialty look.

Toned / NGR Finishes
These systems are available by special request. These non-wiping stain application (NGR) finishes have the colorants incorporated into the transparent finish coats.

Exterior Finish
Exterior finish is different than any other finish system we offer. All exterior doors are finished with an exterior grade spar urethane, a water and UV resistant finish. This is a specially formulated finish designed to withstand extreme environmental conditions, the finish expands and contracts with wood as the humidity and temperature change.

These are not permanent finishes and will require yearly maintenance to preserve the integrity of the finish. Our exterior finish includes the preservative treatment which is a fungicide and mildew-resistant treatment that is sprayed on the doors prior to stain and topcoats. It contains water repellants to aid in control of checking and grain raising.

Due to the preservative treatment and the general characteristics of spar varnish, the overall appearance of an exterior finish is different than our interior finishes. Sample approval for both interior and exterior finishes will be required for all projects.

Factory Finish Specifications
Section 08200, Part II, Prefinish:
Doors to be factory finished to meet or exceed WDMA I.S. 1A-13 specifications for a TR-8 UV-cured finish system or AWI Section 5 specifications for a UV curable polyester urethane finish system.

Specify Eggers' Gardall – a water-based stain and UV curable polyester urethane finish system which complies with all applicable Federal and State regulations for Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAP) emission limitations per the EPA Clean Air Act.

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Eggers Finishing Systems
Information Bulletin 454

Date: May, 2015

Eggers Industries

Additional Specification Information:
Industry standards allow doors with a full range of color and grain that exist naturally in species. Veneer color and characteristic may vary between species, within the same specie, and potentially within a flitch. Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly or match uniformly in color or grain must be specified at the time of quotation.

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Puttying Nail Holes

Information Bulletin 274

Date: February, 2013

Eggers Industries

In Applied Moulding:

Eggers standard application of moulding is with adhesive only. Where nails are required per the door construction or moulding dimensions (see info bulletin #238). Nail holes will be treated as follows:

Doors Finished***** at Eggers – Nail holes will be filled to match the finish
Doors Primed at Eggers – Nail holes will be puttied but not primed
Doors shipped without finish – Nail holes will not be filled

In Beads (for Louver or Lites installed at Eggers)

Beads are secured in the opening with nails (brads). Nail holes will be treated as follows:

Doors Finished***** at Eggers – Nail holes will be filled to match the finish
Doors Primed at Eggers – Nail holes will be puttied but not primed
Doors shipped without finish – Nail holes will not be filled

***** This includes clear, stained and painted finish options

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20-Minute Fire Rated Doors

20-Minute Pyroswiss Glass

No. 432-07-08

Eggers Industries

Our standard non-wired glass offering for 20-minute doors is Pyroswiss.

This glazing:

- is nominally 1/4” thick.
- is available with any of our standard wood beads having a stop height of at least 3/8”
- requires 1/8” clearance between the glass and cutout on all four edges
- is fire rated for 20 minute doors only
- is safety rated
- is approved for a maximum height of 87-9/16”
- is approved for a maximum area of 2,868 sq. inches
- is not available in dimensions where the length is greater than 10 times the width
- has the following restrictions:
  - ✓ Minimum dimension of 4” (length or width)
  - ✓ Standard minimum diagonal dimension of 14” visible

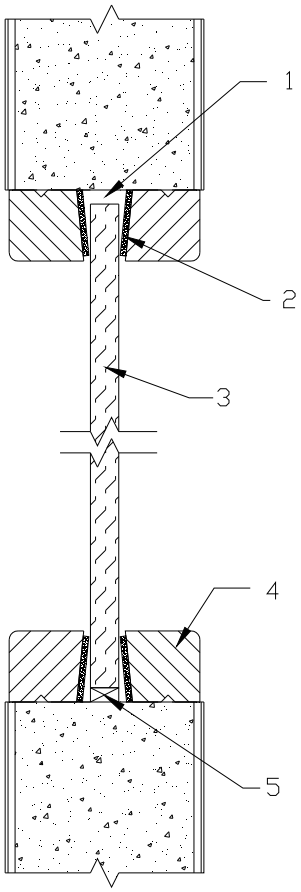
The following can be done with Pyroswiss (we will need to contact the manufacturer for prices):

- Glass can be radiused convex but not concave (the minimum radius for use with a wood bead is 6”)
- Can be etched (design or logo)
- Can have beveled edges
- Can be obscured

Note: Pyroswiss glazing must be allowed room to expand, and will be installed using 1/8” setting blocks (See Eggers glazing instructions for a full description of the installation procedure). Check with Eggers’ product development department before specifying for use in a metal vision panel, as the required setting blocks are incompatible with many metal vision panels.

Pyroswiss Glass in Wood Bead

1. 1/8" clearance between glass and cutout
2. Glazing tape or caulk
3. 1/4" Pyroswiss glass
4. Wood Bead (shown with #100 profile)
5. 1/8"x 1/8"x 3" neoprene setting block (at quarter points of cut-out)



Glazing Dimension:
Width = Cutout minus 1/4"
Length = Cutout minus 1/4"

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Doors used for Smoke Control

Information Bulletin 462

Date: March, 2013

Eggers Industries

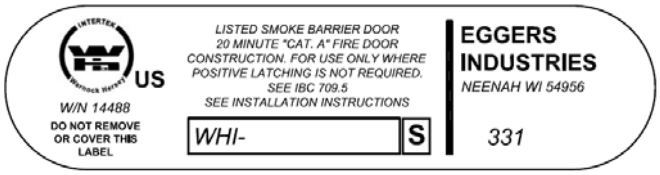
Smoke Barriers and Smoke Partitions are terms used in the building codes to define two different applications.

Typically doors in smoke barriers are rated doors however there is an exception for a specific non-latching cross-corridor double–egress application. When we used the term smoke barrier door or smoke barrier label we are referring to this exception.

Smoke partitions are non-rated and the doors protecting their openings are non-rated. They are however required to be self-closing and gasketed to meet air leakage requirements.

The table below compares the door allowed for the smoke barrier exception and smoke partition doors.

	Smoke Barrier Door	Smoke Partition Door
Intended Use	Double egress pairs installed across a rated egress corridor, healthcare	Non-rated partitions where smoke control is required
Closing	Requires self-closing hardware	Requires self-closing hardware
Latching	Push-Pull hardware allowed in lieu of self-latching hardware	Typically requires self-latching hardware, but it does not have to be machined under label inspection
Construction	20-minute constructed – leaf sizes, glazing, construction, clearances all per fire door approvals	Non-rated construction and glazing; restriction based on warranty not approvals
Labeling	Warnock Hersey has a special label for this (see sample below); not available with a UL label	Non-Agency Eggers label (see sample below)





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Dutch Doors

Information Bulletin 317

Date: June, 2011

Eggers Industries

General Information

If a shelf required, we will need to know

- Will the shelf be top-mounted or side-mounted?
- If it is a single shelf, which side of the door will it be on?
- If the door is unfinished, is the shelf to be installed or shipped loose? Will it be a Standard Eggers shelf at 1-1/8” thickness or a custom shelf? If custom, what will the thickness be?

Standard shelf information

- If the door is pre-finished the shelf must be factory installed.
- If a shelf is going to be mounted on the top of the bottom leaf the factory will cut the door down to accept the shelf, whether shelf is shipped loose or installed.
- If there is no shelf or the shelf is side-mounted, the top rail of the bottom leaf will be veneered as standard procedure.
- If door has a plastic laminate shelf the brackets will be plastic laminated.

20-Min Applications

UL approval is for both positive and neutral pressure applications up to 4-0 x 10-0.
Warnock Hersey approval is for neutral pressure applications up to 4-0 x 8-0.
Both approvals allow the Dutch door to be provided with a single shelf or without a shelf.

Intumescent seals are required for all applications (Cat A, Cat B, Neutral) not using a metal astragal. These seals will be installed in the bottom rail of the top leaf during manufacturing.

All labeled openings require doors to self-close and self-latch latching devices. With a labeled Dutch door there are several options to accomplish this and maintain the label validity.

Dutch Doors

Information Bulletin 317

Date: June, 2011

Eggers Industries

- Self-closing: Both leaves may include independent closers; a closer may be used on one leaf with an approved astragal between the leaves serving to close the second leaf; Spring hinges may be used to close one or both leaves (in accordance with the hinge listing or leaf sizes per NFPA-80).

- Latching: Both leaves may include independent latches; one leaf may latch into the other leaf; where an astragal is used the latch is only required in one leaf where the latched leaf prevents the second leaf from opening.

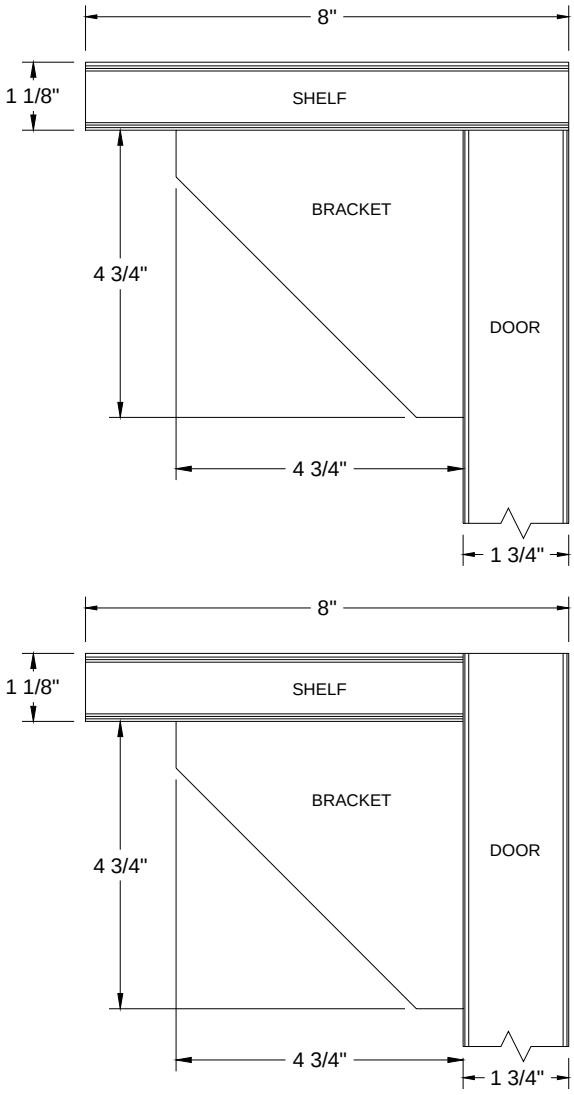
Dutch doors are constructed as two dependant leaves; they are not approved as stand alone items. The doors are constructed, and the identification marks applied, to show they belong in the same opening. Eggers will apply the fire label to the top leaf; the bottom leaf depends on its association and common mark number for its fire rating.

Dutch Doors
Information Bulletin 317

Date: June, 2011

Eggers Industries

STANDARD DUTCH DOOR
SHELF & BRACKET ONE SIDE
TOP MOUNTED VERSUS SIDE MOUNTED



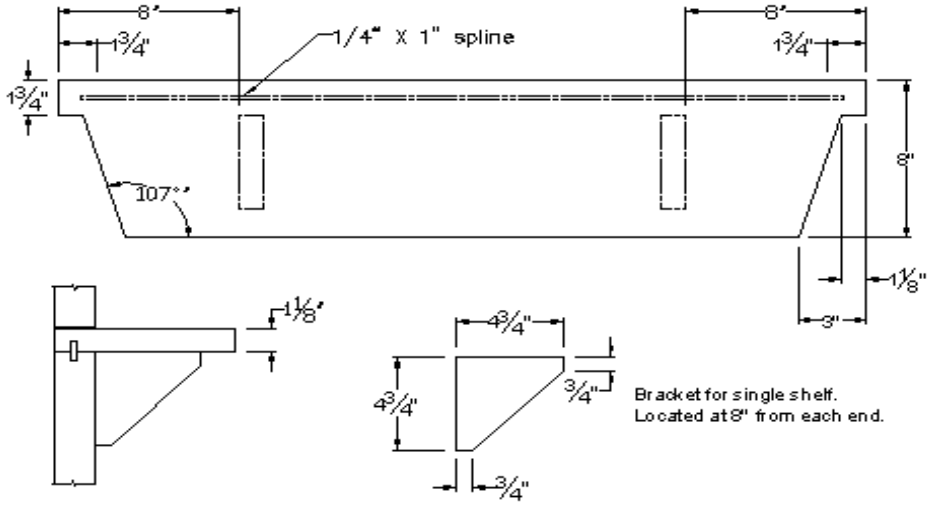
Dutch Doors
Information Bulletin 317

Date: June, 2011

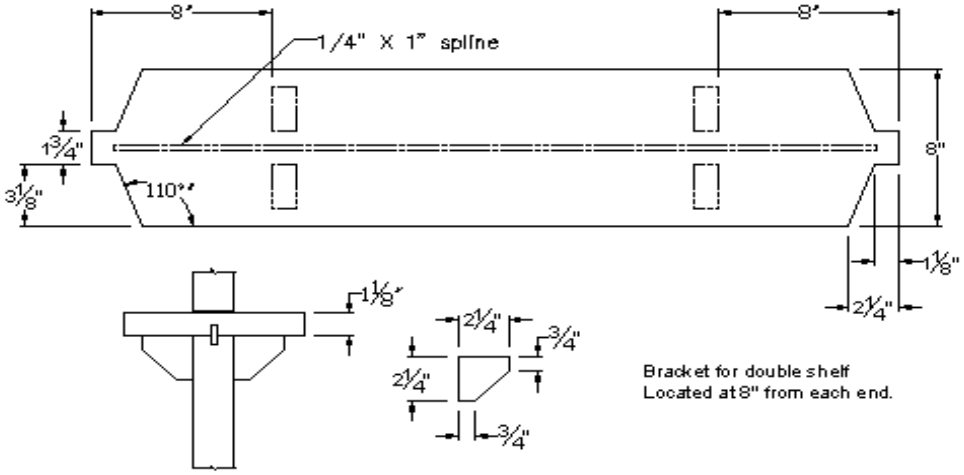
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Standard Dutch Door Shelf

Shelf brackets furnished as shown: Shelves are 1 1/8" thick
2 per single shelf, 4 per double shelf. Shelves and brackets packed together but not installed unless requested.



Bracket for single shelf.
Located at 8" from each end.



Bracket for double shelf
Located at 8" from each end.

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Fire-Rated doors with a Mullion

Information Bulletin #353

Date: April, 2012

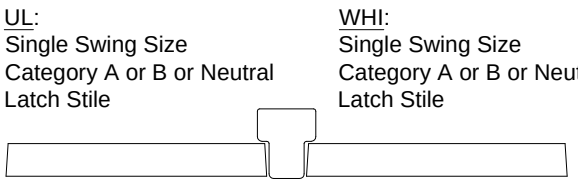
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The inclusion of a mullion in a door opening can affect the door construction required for the opening. There are two basic types of mullions to be considered. Those located **behind** the doors and those located **between** the doors. The exact shape and dimensions are not important. The basic question is whether there is metal between the meeting edges of the doors.

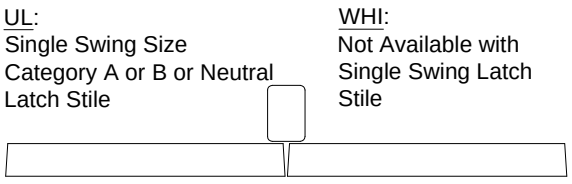
Underwriters Laboratories considers fire rated doors, 20 through 90 minute, as single swing whether the mullion is between or behind the doors. The maximum door size is per our single swing approvals. This applies for applications where both leaves are active, including mortised exits, rim exits, and other single or two point latch options (any single swing latch option).
Warnock Hersey (ITS) considers fire rated doors, 20 through 90 minute, as single swing if the mullion is between the doors. If the mullion is located behind the doors they are still considered a pair. The maximum sizes therefore vary depending on whether the mullion is between the doors or not.

These interpretations apply to neutral pressure, as well as Category A and B positive pressure.
For manufacturing reasons, applications where the mullion is behind the doors will only be offered with a UL label.

These options are summarized in the following drawings:



Mullion Between Doors



Mullion Behind Doors

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Fire Rated Glazing
Information Bulletin #447

Date: December 2016

Eggers Industries

The following 4 pages include an approvals matrix of glazing products available for use as lites in fire rated doors and an installation matrix of the installation options available for each glazing type. Please contact Product Development regarding glass types not shown.

The dimensions shown are based on the door and glazing approvals. These may be further restricted by the approval of the vision frame selected.

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Fire Rated Glazing
Information Bulletin #447

Date: December 2016

Eggers Industries

Approvals

WIRED GLASS		Thickness	Safety (Impact) Rated	Passes Hose stream Test	Option to Factory Glazing	Max size in 20-min std construction	Max size in 20-min full-lite construction	Max size in 45-min std construction	Max size in 45-min full-lite construction	Max size in 60-min std construction	Max size in 90-min std construction
Superlite I-W	Non-Temperature Rise Doors	5/16" (0.304)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq inches	36" wide, 84" high, 2856 sq inches	36" wide, 54" high, 1296 sq inches	36" wide, 54" high, 1296 sq inches	12" wide, 54" high; 648 sq inches	10" wide, 33" high; 100 sq inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq. inches	10" wide, 33" high, 100 sq. inches
SAFE-Wire	Non-Temperature Rise Doors	1/4"	Yes	Yes	Yes	35-3/4" wide, 54" high, 1296 sq inches	35-3/4" wide, 87-9/16" high, 2868 sq inches	36" wide, 54" high, 1296 sq inches	36" wide, 54" high, 1296 sq inches	12" wide, 33" high, 100 sq. inches	12" wide, 33" high, 100 sq. inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq. inches	12" wide, 33" high, 100 sq. inches
Wirelite NT	Non-Temperature Rise Doors	1/4" (0.259)	Yes	Yes	Yes	34-3/4" wide, 54" high, 1296 sq inches	34-3/4" wide, 87-9/16" high, 2868 sq inches	36" wide, 54" high, 1296 sq inches	34" wide, 84" high, 1714 sq inches	12" wide, 54" high; 648 sq inches	12" wide, 46" high; 552 sq inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	10" wide, 33" high, 100 sq. inches	10" wide, 33" high, 100 sq. inches
FIRE-PROTECTION GLAZING		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Max size in 20-min std construction**	**Max size in 20-min full-lite construction**	**Max size in 45-min std construction**	**Max size in 45-min full-lite construction**	**Max size in 60-min std construction**	**Max size in 90-min std construction**
Firelite NT	Non-Temperature Rise Doors	3/16" (0.201)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 87-9/16" high, 2868 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 86-1/2" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Firelite Plus	Non-Temperature Rise Doors	5/16" (0.350)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 87-9/16" high, 2868 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 86-1/2" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Superlite X-90	Non-Temperature Rise Doors	3/4"	Yes	Yes	Yes	Not Applicable		10" wide, 33" high, 100 sq inches	Not Applicable	10" wide, 33" high, 100 sq inches	10" wide, 33" high, 100 sq inches
	Temperature Rise Doors					Not Applicable	Not Applicable	10" wide, 33" high, 100 sq inches	Not Applicable	10" wide, 33" high, 100 sq inches	10" wide, 33" high, 100 sq inches
Superlite C/S	Non-Temperature Rise Doors	3/16" (0.187)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" Wide, 77" high, 2772 sq inches	36" wide, 54" high, 1296 sq Inches	36" Wide, 77" high, 1714 sq inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Pyran Platinum F	Non-Temperature Rise Doors	3/16" (0.194)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 76" high, 2736 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 76" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Pyran Platinum L	Non-Temperature Rise Doors	3/8" (0.362)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 75" high, 2700 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 75" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Keralite FR-F	Non-Temperature Rise Doors	3/16" (0.201)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 78" high, 2808 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 78" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Keralite FR_L	Non-Temperature Rise Doors	5/16" (0.340)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 78" high, 2808 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 78" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	10" wide, 33" high, 100 sq inches	10" wide, 33" high, 100 sq inches
PyroStop (45, 60)	Non-Temperature Rise Doors	3/4" and 7/8" respectively	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in	36" wide, 86-1/2" high, 1714 sq Inches	36" wide, 54" high, 1296 sq in	Not Allowed
	Temperature Rise Doors							Not Applicable	Not Applicable	Not Applicable	

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Fire Rated Glazing
Information Bulletin #447

Date: December 2016

Eggers Industries

Approvals (continued):

20-MIN CLEAR GLAZING		Thickness	Safety (Impact) Rated	Passes Hose Stream Test	Option to Factory Glazing	Max size in 20-min std construction	Max size in 20-min full-lite construction	Max size in 45-min std construction	Max size in 45-min full-lite construction	Max size in 60-min std construction	Max size in 90-min std construction
PyroSwiss	Non-Temperature Rise Doors	1/4" (.222)	Yes Cat I & II	No	Yes	36" wide, 54" High, 1296 sq in	36" wide, 87-9/16" High, 2868 sq in	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
PyroEdge-20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	36" wide, 54" High, 1296 sq in	36" wide, 87-9/16" High, 2868 sq in	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
FireSAFE-20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	34" wide, 54" High, 1296 sq in	34" wide, 76" High, 2584 sq in	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
FireGlass 20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	36" wide, 54" High, 1296 sq in	36" wide, 87-9/16" High, 2868 sq in	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
SuperLite I	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	36" wide, 54" High, 1296 sq in	36" wide, 87-9/16" High, 2868 sq in	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
Pyrodur	Non-Temperature Rise Doors	0.313	Yes Cat I	No	Yes	36" wide, 54" High, 1296 sq in	Not Approved	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
FIRE-RESISTIVE GLAZING		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Max size in 20-min std construction**	**Max size in 20-min full-lite construction**	**Max size in 45-min std construction**	**Max size in 45-min full-lite construction**	**Max size in 60-min std construction**	**Max size in 90-min std construction**
SuperLite II-XL (45, 60, 90)	Non-Temperature Rise Doors	3/4", 1-1/8" and 1-1/2" respectively	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in	36" wide, 86-1/2" high, 1714 sq Inches	36" wide, 54" high, 1296 sq in	36" wide, 54" high, 1296 sq in
	Temperature Rise Doors										
PyroStop (90)	Non-Temperature Rise Doors	1-7/16"	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in
	Temperature Rise Doors										
ContraFlam or SwissFlam (45)	Non-Temperature Rise Doors	3/4"	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in	36" wide, 86-1/2" high, 1714 sq Inches	Not Approved	Not Approved
	Temperature Rise Doors										
ContraFlam or SwissFlam (60)	Non-Temperature Rise Doors	1"	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in	Not Approved
	Temperature Rise Doors										
ContraFlam or SwissFlam (90)	Non-Temperature Rise Doors	1-1/2"	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in
	Temperature Rise Doors										
Keralite FR_Ultra	Non-Temperature Rise Doors	3/4" (.719-.781)	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in	36" wide, 76" high, 1714 sq in	36" wide, 54" high, 1296 sq in	36" wide, 54" high, 1296 sq in
	Temperature Rise Doors										
INSULATED GLASS UNITS (IGU)		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Max size in 20-min std construction**	**Max size in 20-min full-lite construction**	**Max size in 45-min std construction**	**Max size in 45-min full-lite construction**	**Max size in 60-min std construction**	**Max size in 90-min std construction**
Firelite Plus 1" IGU	Non-Temperature Rise Doors	1"	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 87-9/16" high, 2868 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 86-1/2" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches

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Fire Rated Glazing
Information Bulletin #447

Date: December 2016

Eggers Industries

Installation:

WIRED GLASS		Thickness Advertized (Actual)	Safety (Impact) Rated	Passes Hose stream Test	Option to Factory Glazing	Installation in 20-min std construction	Installation in 20-min full-lite construction	Installation in 45-min std construction	Installation in 45-min full-lite construction	Installation in 60-min std construction	Installation in 90-min std construction
Superlite I-W	Non-Temperature Rise Doors	5/16" (0.304)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
SAFE-Wire	Non-Temperature Rise Doors	1/4"	Yes	Yes	Yes	Bead or MVP; min stop height is 5/8"	Bead or MVP; min stop height is 3/4"	Bead or MVP; min stop height is 5/8"	Bead or MVP; min stop height is 5/8"	Bead or MVP; min stop height is 5/8"	Bead or MVP; min stop height is 5/8"
	Temperature Rise Doors					Not Applicable				Bead or MVP; min stop height is 5/8"	Bead or MVP; min stop height is 5/8"
Wirelite NT	Non-Temperature Rise Doors	1/4" (0.259)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
FIRE-PROTECTION GLAZING		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Installation in 20-min std construction**	**Installation in 20-min full-lite construction**	**Installation in 45-min std construction**	**Installation in 45-min full-lite construction**	**Installation in 60-min std construction**	**Installation in 90-min std construction**
Firelite NT	Non-Temperature Rise Doors	3/16" (0.201)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
Firelite Plus	Non-Temperature Rise Doors	5/16" (0.350)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
Superlite X-90	Non-Temperature Rise Doors	3/4"	Yes	Yes	Yes	Not Applicable		Metal vision frame	Not Applicable	Metal vision frame	Metal vision frame
	Temperature Rise Doors					Not Applicable			Not Applicable		
Superlite C/S	Non-Temperature Rise Doors	3/16" (0.187)	Yes	Yes	Yes	Woodbead or metal vision frame with stop height of at least 5/8"	Woodbead or metal vision frame with stop height of at least 5/8"	Veneer-wrapped bead or MVP with stop height of at least 5/8"	Intumescent 114 bead or MVP with stop height of at least 5/8"	Veneer-wrapped bead or MVP with stop height of at least 5/8"	Veneer-wrapped bead or MVP with stop height of at least 5/8"
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or MVP with stop height of at	Veneer-wrapped bead or MVP with stop height of at
Pyran Platinum F	Non-Temperature Rise Doors	3/16" (0.194)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
Pyran Platinum L	Non-Temperature Rise Doors	3/8" (0.362)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
Keralite FR-F	Non-Temperature Rise Doors	3/16" (0.201)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
Keralite FR_L	Non-Temperature Rise Doors	5/16" (0.340)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
PyroStop (45, 60)	Non-Temperature Rise Doors	3/4" and 7/8" respectively	Yes Cat I & II	Yes	Yes	Not Applicable		Metal vision frame	Metal vision frame	Metal vision frame	Not Applicable
	Temperature Rise Doors										

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Fire Rated Glazing
Information Bulletin #447

Date: December 2016

Eggers Industries

Installation (continued):

20-MIN CLEAR GLAZING		Thickness	Safety (Impact) Rated	Passes Hose Stream Test	Option to Factory Glazing	Installation in 20-min std construction	Installation in 20-min full-lite construction	Installation in 45-min std construction	Installation in 45-min full-lite construction	Installation in 60-min std construction	Installation in 90-min std construction
PyroSwiss	Non-Temperature Rise Doors	1/4" (.222)	Yes Cat I & II	No	Yes	Woodbead with 3/8" minimum stop height; metal vision frames	Woodbead with 3/8" minimum stop height; metal vision frames	Not Applicable			
	Temperature Rise Doors					Not Applicable					
PyroEdge-20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	Intumescent 200 or 208 woodbead with 1/2" maximum stop height;	Intumescent 200 or 208 woodbead with 1/2" maximum stop height;	Not Applicable			
	Temperature Rise Doors					Not Applicable					
FireSAFE-20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	Anemostat LoPro metal vision frames and 1/8" thick PVC glazing tape	Anemostat LoPro metal vision frames and 1/8" thick PVC glazing tape	Not Applicable			
	Temperature Rise Doors					Not Applicable					
FireGlass 20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	Woodbead with 5/8" minimum stop height; metal vision frames	Woodbead with 5/8" minimum stop height; metal vision frames	Not Applicable			
	Temperature Rise Doors					Not Applicable					
SuperLite I	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	Woodbead with 5/8" stop height	Woodbead with 5/8" stop height	Not Applicable			
	Temperature Rise Doors					Not Applicable					
Pyrodur	Non-Temperature Rise Doors	0.313	Yes Cat I	No	Yes	Woodbead with 5/8" minimum stop height; metal vision frames	Not Applicable due to Impact Resistance Rating	Not Applicable			
	Temperature Rise Doors					Not Applicable					
FIRE-RESISTIVE GLAZING		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Installation in 20-min std construction**	**Installation in 20-min full-lite construction**	**Installation in 45-min std construction**	**Installation in 45-min full-lite construction**	**Installation in 60-min std construction**	**Installation in 90-min std construction**
SuperLite II-XL (45, 60, 90)	Non-Temperature Rise Doors	3/4", 1-1/8" and 1-1/2" respectively	Yes Cat I & II	Yes	Yes	Not Applicable		Metal vision frame	Metal vision frame	Metal vision frame	Metal vision frame
	Temperature Rise Doors										
PyroStop (90)	Non-Temperature Rise Doors	1-7/16"	Yes Cat I & II	Yes	Yes	Not Applicable					Metal vision frame
	Temperature Rise Doors										
ContraFlam or SwissFlam (45)	Non-Temperature Rise Doors	3/4"	Yes Cat I & II	Yes	Yes	Not Applicable		Metal vision frame	Metal vision frame	Not Applicable	
	Temperature Rise Doors										
ContraFlam or SwissFlam (60)	Non-Temperature Rise Doors	1"	Yes Cat I & II	Yes	Yes	Not Applicable				Metal vision frame	Not Applicable
	Temperature Rise Doors										
ContraFlam or SwissFlam (90)	Non-Temperature Rise Doors	1-1/2"	Yes Cat I & II	Yes	Yes	Not Applicable					Metal vision frame
	Temperature Rise Doors										
Keralite FR_Ultra	Non-Temperature Rise Doors	3/4" (.719-.781)	Yes	Yes	Yes	Not Applicable		Metal vision frame	Metal vision frame	Metal vision frame	Metal vision frame
	Temperature Rise Doors										
INSULATED GLASS UNITS (IGU)		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Installation in 20-min std construction**	**Installation in 20-min full-lite construction**	**Installation in 45-min std construction**	**Installation in 45-min full-lite construction**	**Installation in 60-min std construction**	**Installation in 90-min std construction**
Firelite Plus 1" IGU	Non-Temperature Rise Doors	1"	Yes	Yes	Yes	Metal vision frame	Metal vision frame	Metal vision frame	Metal vision frame	Metal vision frame	Metal vision frame
	Temperature Rise Doors					Not Applicable				Metal vision frame	Metal vision frame

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Fire & Safety Information on Glass

Information Bulletin 392

Date: February 2014

Eggers Industries

Eggers glazing policy regarding the markings required on fire and safety rated glazing is compatible with the International Building Code requirements.

The current code considers doors to be hazardous locations in regards to human impact. As a result all doors having lites must be glazed with impact resistant glazing. In addition, the historic exception for wired glass, allowing impact testing per ANSI Z97.1 rather than CPSC 16 CFR, part 1201 criteria, has been eliminated.

Eggers policy is:

1. Where safety rated glazing is used to glaze doors each pane of glazing will bear the safety logo (also referred to as the safety “bug”).
2. Where fire rated glazing is used to glaze doors each pane of glazing will bear both a fire and safety rating logo.

This policy applies to doors have single or multiple lites. Each separate pane will bear the logo. Where grill work is applied to a single pane, giving a multiple lite appearance, only one logo will be applied.

By code, these logos must be permanent, and typically are either acid-etched or sand-blasted onto the glazing. Where logos are present and the glass is reversible, the doors will be glazed such that this logo will be located in the lower hinge corner of the lite opening. Where the glazing is not reversible (such as textured glass where the texture is specified towards one face or the other) the logo will be in a lower corner, but may be on the latch or hinge edge.

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: November, 2011

Eggers Industries

Warnock Hersey and Underwriters Laboratories have clarified the distance from lite cutout to door edge, multiple lites and other hardware cutouts as shown below. The cutout-to-door edge dimensions also apply to bottom rails for all but 45-min full lite constructions, but 10” is the recommended minimum to comply with ADA requirements. These dimensions do not apply to CVR hardware. Refer to info Bulletin 316 for appropriate margins.

Non-Rated		Edge of Lite Cutout to Edge of Door	Edge of Lite Cutout to Edge of Lite Cutout	Edge of Lite Cutout to Nearest Point of Lock Cutout
Particleboard	Non-Rated	5”	5”*	3-5/16”
Stave	Non-Rated	5”	3”	1-1/2”
Structural Composite	Non-Rated	5”	3”	1-1/2”
Agrifiber	Non-Rated	5”	5”	3-5/16”
Acoustical	Non-Rated	5”	5”	5”
Bullet Resistant	Non-Rated	5”	3”	1-1/2”

***** For applications without operable hardware, such as side panels, this margin may be reduced to 3” without voiding the warranty.

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Information Bulletin 256

Date: November, 2011

Eggers Industries

UL		Edge of Lite Cutout to Edge of Door	Edge of Lite Cutout to Edge of Lite Cutout	Edge of Lite Cutout to Nearest Point of Lock Cutout
Particleboard	20-min	5”	5”	3-5/16”
Stave	20-min	5”	3”	1-1/2”
Structural Composite	20-min	5”	3”	1-1/2”
Agrifiber	20-min	5”	5”	3-5/16”
Bullet Resistant	20-min	5”	3”	1-1/2”
Acoustical	All Ratings	5”	5”	5”
Agrifiber	45-min	NA	NA	NA
Particleboard	45-min	NA	NA	NA
Mineral	45-min Full Lite	5-1/2”	5-1/2”	3”
Mineral	45 through 90-min	5-1/2”	5-1/2”	3-1/2”

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: November, 2011

Eggers Industries

WH		Edge of Lite Cutout to Edge of Door	Edge of Lite Cutout to Edge of Lite Cutout	Edge of Lite Cutout to Nearest Point of Lock Cutout
Particleboard	20-min	5”	5”	5”
Stave	20-min	5”	5”	5”
Structural Composite	20-min	5”	5”	1-1/2”
Agrifiber	20-min	5”	5”	5”
Acoustical	All Ratings	5”	5”	5”
Agrifiber	45-min	6”	6”	6”
Particleboard	45-min	6”	6”	6”
Mineral	45-min Full Lite	5-1/4”	5-1/4”	3”
Mineral	45 through 90-min	5-1/4”	5-1/4”	3-1/2”

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: November, 2011

Eggers Industries

Notes:

1. Maximum lite dimensions are based on visible lite; the Minimum dimensions shown above are based on cutouts.
2. The distance between the visible lite to visible lite, visible lite to door edge, and visible lite to other hardware cutouts will vary depending upon the lite frame or bead used.
3. This revision changes the specified criteria from distance to visible lite to distance to the lite cutout. The cutout location is the important factor for the approvals. It does not affect the actual minimum dimensions to the visible lite, but changes the way it is determined.
4. The method of calculating lite location is now the same for both agencies.

Lite to edge of door margins: Lite to edge of door margins may be specified in one of two ways:

- Visible lite to door edge- In this case we have to verify the dimension between the cutout and door edge is acceptable by subtracting the bead height from the visible lite to door edge (cutout to edge of door = visible lite margin specified – bead height).

- Minimum margin – In this case the minimum dimension between the visible lite and the door edge is calculated by adding the bead height to the minimum margins in the tables above (visible lite to edge of door = edge of cutout to edge of door + bead height)

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5-Ply Flush Doors
Smoke Barrier Labels

Information Bulletin 267

Date: June, 2011

Eggers Industries

Both the International Building code and the NFPA 101 Life Safety Code make provision for smoke barrier doors. Smoke barrier doors are constructed as fire doors but are unable to bear a true “Fire” label because they do not include latching hardware. While not fire doors, they still require the door construction consistent with the labeled doors on the job, including positive pressure.

To cover these applications, Eggers offers two types of Smoke Barrier label, both of which bear the Warnock Hersey mark. Label #330 is for Category B or Neutral pressure constructions; label #331 is for Category A constructions. The rules governing their sizes and machining options will be the same as those for 20-minute Warnock Hersey doors.

Because the constructions have passed the fire endurance portion of the test both of these labels bear the “S” mark indicating their compliance with the air leakage requirements of UL1784 and UBC 7-2 (1997) part 2.

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Top Latching Hardware Limitations

Information Bulletin

No. 433-06-08

Eggers Industries

Top latching hardware, when used on 20-90 minute labeled or stamped doors (UL or WH), is only allowed on pairs. This hardware cannot be used on single swing applications or where the pairs include a mullion between the doors. This includes any hardware that has only one self latching mechanism located at the top of the door. It does not include full rod hardware, rim exits or mortised exit hardware.

Top latching hardware, also referred to as less bottom rod, has only been evaluated for applications where the bottom of both leaves of a pair can move together. A fire test would be required to insure the door movement, during a fire, relative to a fixed frame or mullion would meet the deflection criteria of the fire test method.

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Von Duprin Concealed Vertical Rod Hardware

Information Bulletin

No. 430-04-08

Eggers Industries

Eggers is required to machine labeled doors in accordance with the hardware manufacturer's templates. In the case of the Von Duprin 3347, 3547 and 5547 concealed vertical rods the template calls for the stile to be attached after the hardware is installed and adjusted. When Eggers discontinued the use of 5" metal edges the option to field install a filler strip was removed. Von Duprin says the 3347A and 3547A versions can be installed in a pre-channeled edge, but they have not updated their template to reflect this. In addition, the 5547 device includes an inspection plate for adjustment and can be installed in a pre-channeled edge.

Eggers will provide labeled doors machined for the 3347A, 3547A or 5547 if the customer acknowledges the fact that the door will only be provided with a pre-channel edge and no 5" metal edge. A copy of a form letter (Von Duprin 33, 35 and 55 Series CVRs.doc) that may be used to communicate this to the customer is located in the "Form Letter" folder under Technical Literature on the shared (S) drive.

Note: The 3347 and 3547 (without the "A" suffix) are not available on labeled or construction tagged fire doors.

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Von Duprin 33-, 35- and 55-series CVRs

Information Bulletin 430

Date: April, 2014

Eggers Industries

Eggers is required to machine labeled doors in accordance with the hardware manufacturer's templates. In the case of the Von Duprin 3347, 3547 and 5547 concealed vertical rods the template includes a note relative to construction that states "door edging should be installed after device installation".

When Eggers was given approval to provide labeled doors without the use of 5" metal edges the option to field install a filler strip was removed. Von Duprin confirms the 3347A and 3547A versions can be installed in a pre-channeled edge, but they have not updated their template to reflect this. In addition, the 5547 device, which includes an inspection plate for adjustment, and can be installed in a pre-channeled edge.

Eggers will provide labeled doors machined for the 3347A, 3547A or 5547 if the customer acknowledges the door will only be provided with a pre-channel stile and no 5" metal edge. Our form letter Von Duprin 33, 35 and 55 Series CVRs.doc may be used to communicate this to the customer (see the "Form Letter" folder under Technical Literature on the shared (S) drive)

Note: The 3347 and 3547 (without the "A" suffix) are not available on labeled or construction tagged fire doors.

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Concealed Vertical Rods – Special Instructions

Information Bulletin 459

Date: May, 2014

Eggers Industries

Minimum Stile Dimensions for Doors With Lites and Concealed Vertical Rods

1. Non-Rated Full-Lite Doors:
    a. We can manufacture and warranty full lite doors machined for concealed vertical rods and lites. Doors must be constructed of SCL or Stave core and will include 5" (SCL) pre-channeled blocking, full height, on meeting edges.
    b. If the hardware is unknown at time of quoting use a minimum lock stile dimension of is 5-5/8". If hardware and lite location are known the minimum dimensions can be reduced to those shown on the tables below.

2. 20 Minute Full-Lite Doors:
    a. We can manufacture, machine, label and warranty full lite doors (SCL or Stave) with concealed vertical rods and lites. 5" (Tectonite) pre-channeled blocking, full height, on meeting edges is required. We will construct these doors using concealed intumescent edge strips regardless of whether the doors are positive pressure or neutral pressure.
    b. If the hardware is unknown at time of quoting use a minimum lock stile dimension of is 5-5/8". If hardware and lite location are known the minimum dimensions can be reduced to those shown on the tables below.

3. 45 Minute Full-Lite Doors:
    a. We can manufacture, machine, label and warranty 45-minute full lite doors with specific concealed vertical rods (Sargent and Adams Rite only) and lites. A 5" (Tectonite) pre-channeled blocking, full height, on meeting edges is required. We will construct these doors using concealed intumescent edge strips regardless of whether the doors are positive pressure or neutral pressure.
    b. If the hardware is unknown at time of quoting use a minimum lock stile dimension of is 7-1/8". If hardware and lite location are known the minimum dimensions can be reduced to those shown on the tables below.

4. Standard (20-Min or Non-Rated) Particle Core Doors:
    a. We can manufacture, machine, label and warranty Particle core doors with concealed vertical rods and lites. 5" pre-channeled blocking, full height, on meeting edges is required. We will construct rated doors using concealed intumescent edge strips regardless of whether the doors are positive pressure or neutral pressure.

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b. If the hardware is unknown at time of quoting use a minimum lock stile dimension of is 7-7/16". If hardware and lite location are known the minimum dimensions can be reduced to those shown on the tables below.

5. 45-90 Minute Standard Mineral Core Doors:
   a. We can manufacture, machine, label and warranty 45-90 minute doors with concealed vertical rods and lites. 5" (Tectonite) pre-channeled blocking, full height, on meeting edges is required. We will construct these doors using concealed intumescent edge strips regardless of whether the doors are positive pressure or neutral pressure.
   b. If the hardware is unknown at time of quoting use a minimum lock stile dimension of is 9-5/8". If hardware and lite location are known the minimum dimensions can be reduced to those shown on the tables below.

6. Non-rated and 20-min Acoustic Doors:
   a. We have not conducted acoustic tests with the CVR hardware, however where an acoustic construction is required we can manufacture and warranty Sound Group 3 (SG3) doors machined for concealed vertical rods and lites. Doors will include 5" (SCL) pre-channeled blocking, full height, on meeting edges.
   b. If the hardware is unknown at time of quoting use a minimum lock stile dimension of is 9-1/8"". If hardware and lite location are known the minimum dimensions can be reduced to those shown on the tables below.

Minimum stile based on mortise pocket	SCL & Stave	45-Min Full Lite	Particle Core	45-90 Minute Mineral	SG3 Acoustic
Von Duprin	5-1/8"	Not Available	6-15/16"	9-1/8"	8-5/8"
Precision	5"	Not Available	6-13/16"	9"	8-1/2"
Corbin & Yale	No Mortise – See table below				
Dorma F9100	No Mortise – See table below				
Sargent 8600 &	No Mortise – See table below				
Sargent PP/PR	5-5/8"	7-1/8"	7-7/16"	9-5/8"	9-1/8"
Adams Rite 3900	5"	6-1/2"	6-13/16"	8-7/8"	8-3/8"
Falcon 25 series	No Mortise – See table below				

Minimum stile based on CVR channel	SCL & Stave	45-Min Full Lite	Particle Core	45-90 Minute Mineral	SG3 Acoustic

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Von Duprin	5”	Not Available	5-5/16”	7-1/2”	7”
Precision	5”	Not Available	5-5/16”	7-1/2”	7”
Corbin & Yale	5”	Not Available	5-7/8”	8-1/16”	7-9/16”
Sargent 860	5”	6-1/4”	6-9/16”	8-3/4”	8:1/4”
Sargent PP/PR	5”	6-1/4”	6-9/16”	8-3/4”	8”1/4”
Dorma F9100	5”	6-1/2”	6-13/16”	9”	8-1/2”
Adams Rite 3900	5”	6-1/8”	6-7/16”	8-5/8”	8-1/8”
Falcon 25 series	5”	6-1/4”	6-9/16”	8-3/4”	8-1/4”

Acoustical Doors with CVR’s

The use of CVR hardware will void the STC rating regardless of core type.

The only acoustic core door that will be constructed with and be machined for CVR hardware is the 6.5 pound per square foot design (SG3). The special construction of all other designs will not work with CVR stiles.

SG3 doors constructed with fire rated CVR stiles can be labeled for 20-minute applications.

Only top rod only CVR’s are permitted if the door will be machined for a door bottom.

Concealed Vertical Rods with Delayed Entry Switches

Von Duprin

Von Duprin CVRs with a CX prefix designate a delayed opening function. When the push pad is depressed, the door will not unlatch for 15 seconds. If the person continues to push on the door the latches may breakout.

Inform customers that these CVRs are not meant for wood doors.
(This restriction does not apply to surface vertical rods, mortised exit or rim exit devices having the CX prefix)

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Yale
Yale also has a delayed opening device. It is called Secure X. This device can not be used with CVRs.

Top Caps for Concealed Vertical Rods

A 20 gauge Stainless Steel top cap will be required on all doors (1-3/4" & 2-1/4") machined for Von Duprin 33, 55, and 99 series top rod only concealed vertical rod hardware, rated and non-rated.

- The cap will have to be installed for the warranty to apply.
- Caps should be used on fire-rated as well as non-fire-rated doors, and Stile & Rail as well as Flush doors.
- In the Friedman system the cap is pulled into the order as an accessory, with the cost already built into the machining price for the door. Caps will ship loose in a bag, and will not be shipped on the doors
- Caps are friction fit on the door and can be pinched in to tighten the fit. Additionally, they can be permanently held in place using a 2-part epoxy.
- Caps may be installed on bottom latches of full rod CVR hardware, but would have to be permanently attached with epoxy.
- The caps are furnished in stainless steel only. They can be field painted.
- The cap designs are shown on the following page.

Special Concealed Vertical Rod Hardware

Von Duprin InPact hardware: This hardware uses a pushbar design that is recessed into the core of the door so that when depressed it is essentially flush with the face of the door. The machining for this hardware is almost the full core thickness and is not available on rated or non-rated doors of any core type.

Concealed Vertical Cable Hardware

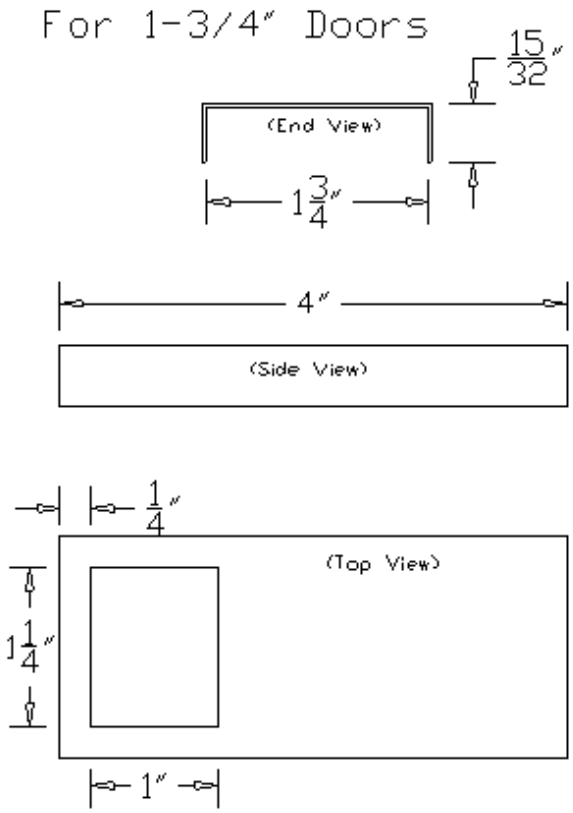
Von Duprin 9949 and 9849 series: This design uses a cable in lieu of a rod, but requires a larger latch case mortise and a bored access hole. Eggers is able to provide this hardware in pairs rated through 90-minutes when furnished with pre-channeled non-combustible blocking and an All Metal Stamping 251A metal edge.

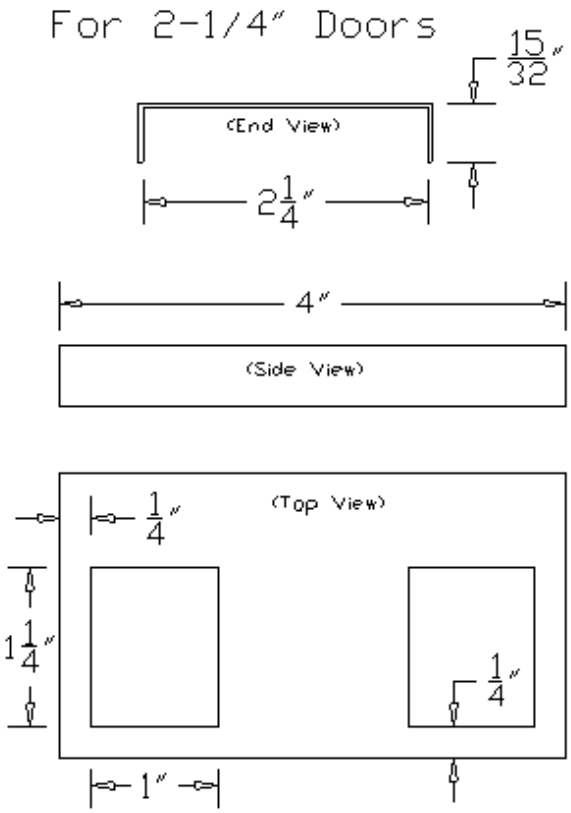
Concealed Vertical Rods – Special Instructions

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Concealed Vertical Rods – Special Instructions

Information Bulletin 459

Date: May, 2014

Eggers Industries

5” Metal Edge Requirements for Concealed Vertical Rods

Eggers has approval to provide most models of CVR hardware on fire rated doors (20-90 min) without the typical 5” metal edges. Where the hardware template requires excessive removal of face or blocking material, such as the Falcon F-25 series, metal edges will still be required.

Concealed Vertical Rods with 5” Channels

When using a 5” full height metal edge on doors with CVR’s the system will deduct 1/32” from prefit door width and the backset.

On the All Metal Stamping machining sheets there is a box for Latch Brackets, check “No” or “None”, also check “No” if the sheet ask for Cover Plate Tabs. You will need to provide device and trim templates with machining sheets to All Metal Stamping.

If the doors are Positive Pressure category “A or B” they will require an additional intumescent edge seal field applied to the outside meeting edge of the 5” channel. This essentially makes all pairs with a 5” edge into category B even if they were constructed with intumescent edges. Less Bottom Rod (LBR) devices will require additional machining for the Auxiliary Fire Latches 30” up (or 28” in cases of trim conflict) from the bottom of the channel on all 45 thru 90-minute doors.

The machining sheets for the 5” channel can be found at
www.allmetalstamping.com/2010/AMS5inchChannels410.pdf

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Continuous Hinge Applications

Information Bulletin 421

Date: April, 2015

Eggers Industries

Continuous hinges require special prefitting. The issue is complicated by the following three things:

1) Different continuous hinges require different clearance dimensions for the hinges themselves.
2) Some hinge manufacturers recommend 3/16” meeting edge clearance for pairs. Both WDMA I.S.1A and NFPA-80 list the meeting edge clearance for pairs of wood doors as 1/8”.
3) Some of the prefit dimensions shown on the hinge manufacturer’s literature include an “extra” prefit dimension for anticipated frame variation.

The dimensions below are based on the hinge requirement, 1/8” meeting edge clearances, and a 1/32” per leaf allowance for frame irregularities.

Hinge Model	Fire Labeled	Hinge Edge	Single Swing	Standard Swing Pair	DE Pair
ABH A110HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
ABH A240HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
ABH A240LL	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
ABH A500	Up to 90-min	Square	13/32”	11/32"	9/32"
		Beveled	13/32"	11/32"	9/32"
Hagar (Roton) 780-041 HD - Swing Clear	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	N/A	N/A	N/A
Hagar (Roton) 780-111 HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Hagar (Roton) 780-112 HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Hagar (Roton) 780-224 HD and IVES 224HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”

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Hinge Model	Fire Labeled	Hinge Edge	Single Swing	Standard Swing Pair	DE Pair
Hagar 790-900	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	13/32”	11/32”	9/32”
Hagar 790-905	Up to 90-min	Square	7/16”	3/8”	5/16”
		Beveled	N/A	N/A	N/A
Hagar 790-911 - Swing Clear	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	N/A	N/A	N/A
Hagar 790-915	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	N/A	N/A	N/A
Ives 112HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Ives 600/700	Up to 90-min	Square	13/32"	11/32"	9/32"
		Beveled	7/16”	3/8”	5/16”
Ives 705 Without Adjustable Studs	Up to 90-min	Square	17/32"	15/32"	13/32"
		Beveled	9/16"	1/2"	7/16"
Ives 705 Using Adjustable Studs	Up to 90-min	Square	21/32"	19/32"	17/32"
		Beveled	11/16"	5/8"	9/16"
Markar HG305	Up to 90-min	Square	17/32”	15/32”	13/32”
		Beveled	17/32”	15/32”	13/32”
Markar HG315	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
Markar HG326 – Swing Clear	Up to 90-min	Square	17/32”	15/32”	13/32”
		Beveled	17/32”	15/32”	13/32”
Markar HS-103	Non-Label	Square	11/32”	9/32”	7/32”
		Beveled	11/32”	9/32”	7/32”
Markar FM100	Non-Label	Square	17/32”	15/32”	13/32”
		Beveled	17/32”	15/32”	13/32”

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Continuous Hinge Applications

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Date: April, 2015

Eggers Industries

Hinge Model	Fire Labeled	Hinge Edge	Single Swing	Standard Swing Pair	DE Pair
Markar FM200	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
Markar FM300	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
Markar FM-3500	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	15/32”	13/32”	11/32”
McKinney 12HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	17/32”	15/32”	13/32”
McKinney 14HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	17/32”	15/32”	13/32”
McKinney 25HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2”	7/16”	3/8”
McKinney FM300	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
McKinney HG315	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
PBB CG31	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
PBB CH31	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
PBB CH51	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	7/16"	3/8"	5/16"
Pemko CFM 83HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	15/32”	13/32”	11/32”
Pemko SPBFM	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	7/16”	3/8”	5/16"

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Continuous Hinge Applications

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Hinge Model	Fire Labeled	Hinge Edge	Single Swing	Standard Swing Pair	DE Pair
Pemko WTFM83	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	17/32”	15/32”	13/32”
Select SL-11 HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Select SL14	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Select SL-18 HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Select SL-24 HD	Up to 90-min	Square	15/32””	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Select SL300	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	15/32”	13/32”	11/32”
Select SL305	Up to 90-min	Square	17/32”	15/32”	13/32”
		Beveled	N/A	N/A	N/A
Stanley 661 & 661HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Stanley 641 & 651	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	27/64"	23/64"	19/64"
Stanley 643 & 653	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
Stanley 646 & 656 Swing Clear	Up to 90-min	Square	5/16"	1/4"	3/16"
		Beveled	N/A	N/A	N/A
Stanley 662 & 662HD	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	1/2"	7/16”	3/8”

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Continuous Hinge Applications

Information Bulletin 421

Date: April, 2015

Eggers Industries

When determining prefit door dimensions for continuous hinge clearances the following wording should be part of the customer acknowledgement, “Prefit sizes for doors with continuous hinges are based on hinge requirement, 1/8” latch or meeting edge clearances and 1/32” per leaf allowance for frame irregularity. Please advise if you wish to request a different prefit clearance”.

Note: If the continuous hinge you are using is not included in this table please either verify that the hinge manufacturer’s dimensions apply to wood/composite doors, or bring it to the technical department to verify and add to the above table.

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Doors with Top & Bottom Pivot Only
Warranty Information

Eggers Industries

No. 425-08-10

Eggers' warranty now covers non-rated doors, 1-3/4" through 2-1/4" thick hung on top and bottom pivots only. This coverage includes Stile & Rail doors as well as flush doors constructed using Particleboard, SCL, Stave Lumber or Agrifiber core. It also includes lead doors constructed with these core types. In addition to regular offset pivot applications, this coverage will now allow center hung doors to carry our full warranty.

This coverage includes applications where a top pivot is used in combination with a floor closer (where the floor closer includes a pivot arm). It is the responsibility of the door specifier to insure the selected hardware is appropriate for the door weight and application, and that both pivots have the same offset. This warranty coverage does not apply for doors that also include molding or appliqués to one face only or have different species or finish on the faces.

This warranty coverage applies to:

Door Type	Maximum Width	Maximum Height
Flush Particle, Agrifiber, and Stave Core	4'	8'
Flush Structural Composite Core	4'	9'
Stile & Rail Doors	4'	8'

Notes:

- This coverage only applies to non-labeled doors. NFPA-80 requires labeled fire doors to have 2 hinges (or pivots) on doors up to 5' tall and an additional hinge (or pivot) for each 30" or fraction thereof.
- Special warranty coverage involving different maximum heights or alternate core types than noted above may apply to OEM accounts or on a job-specific basis.

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: November, 2011

Eggers Industries

Warnock Hersey and Underwriters Laboratories have clarified the distance from lite cutout to door edge, multiple lites and other hardware cutouts as shown below. The cutout-to-door edge dimensions also apply to bottom rails for all but 45-min full lite constructions, but 10” is the recommended minimum to comply with ADA requirements. These dimensions do not apply to CVR hardware. Refer to info Bulletin 316 for appropriate margins.

Non-Rated		Edge of Lite Cutout to Edge of Door	Edge of Lite Cutout to Edge of Lite Cutout	Edge of Lite Cutout to Nearest Point of Lock Cutout
Particleboard	Non-Rated	5”	5”*	3-5/16”
Stave	Non-Rated	5”	3”	1-1/2”
Structural Composite	Non-Rated	5”	3”	1-1/2”
Agrifiber	Non-Rated	5”	5”	3-5/16”
Acoustical	Non-Rated	5”	5”	5”
Bullet Resistant	Non-Rated	5”	3”	1-1/2”

***** For applications without operable hardware, such as side panels, this margin may be reduced to 3” without voiding the warranty.

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Date: November, 2011

Eggers Industries

UL		Edge of Lite Cutout to Edge of Door	Edge of Lite Cutout to Edge of Lite Cutout	Edge of Lite Cutout to Nearest Point of Lock Cutout
Particleboard	20-min	5”	5”	3-5/16”
Stave	20-min	5”	3”	1-1/2”
Structural Composite	20-min	5”	3”	1-1/2”
Agrifiber	20-min	5”	5”	3-5/16”
Bullet Resistant	20-min	5”	3”	1-1/2”
Acoustical	All Ratings	5”	5”	5”
Agrifiber	45-min	NA	NA	NA
Particleboard	45-min	NA	NA	NA
Mineral	45-min Full Lite	5-1/2”	5-1/2”	3”
Mineral	45 through 90-min	5-1/2”	5-1/2”	3-1/2”

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: November, 2011

Eggers Industries

WH		Edge of Lite Cutout to Edge of Door	Edge of Lite Cutout to Edge of Lite Cutout	Edge of Lite Cutout to Nearest Point of Lock Cutout
Particleboard	20-min	5”	5”	5”
Stave	20-min	5”	5”	5”
Structural Composite	20-min	5”	5”	1-1/2”
Agrifiber	20-min	5”	5”	5”
Acoustical	All Ratings	5”	5”	5”
Agrifiber	45-min	6”	6”	6”
Particleboard	45-min	6”	6”	6”
Mineral	45-min Full Lite	5-1/4”	5-1/4”	3”
Mineral	45 through 90-min	5-1/4”	5-1/4”	3-1/2”

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: November, 2011

Eggers Industries

Notes:

1. Maximum lite dimensions are based on visible lite; the Minimum dimensions shown above are based on cutouts.
2. The distance between the visible lite to visible lite, visible lite to door edge, and visible lite to other hardware cutouts will vary depending upon the lite frame or bead used.
3. This revision changes the specified criteria from distance to visible lite to distance to the lite cutout. The cutout location is the important factor for the approvals. It does not affect the actual minimum dimensions to the visible lite, but changes the way it is determined.
4. The method of calculating lite location is now the same for both agencies.

Lite to edge of door margins: Lite to edge of door margins may be specified in one of two ways:

- Visible lite to door edge- In this case we have to verify the dimension between the cutout and door edge is acceptable by subtracting the bead height from the visible lite to door edge (cutout to edge of door = visible lite margin specified – bead height).

- Minimum margin – In this case the minimum dimension between the visible lite and the door edge is calculated by adding the bead height to the minimum margins in the tables above (visible lite to edge of door = edge of cutout to edge of door + bead height)

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Top Latching Hardware Limitations

Information Bulletin

No. 433-06-08

Eggers Industries

Top latching hardware, when used on 20-90 minute labeled or stamped doors (UL or WH), is only allowed on pairs. This hardware cannot be used on single swing applications or where the pairs include a mullion between the doors. This includes any hardware that has only one self latching mechanism located at the top of the door. It does not include full rod hardware, rim exits or mortised exit hardware.

Top latching hardware, also referred to as less bottom rod, has only been evaluated for applications where the bottom of both leaves of a pair can move together. A fire test would be required to insure the door movement, during a fire, relative to a fixed frame or mullion would meet the deflection criteria of the fire test method.

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Von Duprin Concealed Vertical Rod Hardware

Information Bulletin

No. 430-04-08

Eggers Industries

Eggers is required to machine labeled doors in accordance with the hardware manufacturer's templates. In the case of the Von Duprin 3347, 3547 and 5547 concealed vertical rods the template calls for the stile to be attached after the hardware is installed and adjusted. When Eggers discontinued the use of 5" metal edges the option to field install a filler strip was removed. Von Duprin says the 3347A and 3547A versions can be installed in a pre-channeled edge, but they have not updated their template to reflect this. In addition, the 5547 device includes an inspection plate for adjustment and can be installed in a pre-channeled edge.

Eggers will provide labeled doors machined for the 3347A, 3547A or 5547 if the customer acknowledges the fact that the door will only be provided with a pre-channel edge and no 5" metal edge. A copy of a form letter (Von Duprin 33, 35 and 55 Series CVRs.doc) that may be used to communicate this to the customer is located in the "Form Letter" folder under Technical Literature on the shared (S) drive.

Note: The 3347 and 3547 (without the "A" suffix) are not available on labeled or construction tagged fire doors.

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Von Duprin 33-, 35- and 55-series CVRs

Information Bulletin 430

Date: April, 2014

Eggers Industries

Eggers is required to machine labeled doors in accordance with the hardware manufacturer's templates. In the case of the Von Duprin 3347, 3547 and 5547 concealed vertical rods the template includes a note relative to construction that states "door edging should be installed after device installation".

When Eggers was given approval to provide labeled doors without the use of 5" metal edges the option to field install a filler strip was removed. Von Duprin confirms the 3347A and 3547A versions can be installed in a pre-channeled edge, but they have not updated their template to reflect this. In addition, the 5547 device, which includes an inspection plate for adjustment, and can be installed in a pre-channeled edge.

Eggers will provide labeled doors machined for the 3347A, 3547A or 5547 if the customer acknowledges the door will only be provided with a pre-channel stile and no 5" metal edge. Our form letter Von Duprin 33, 35 and 55 Series CVRs.doc may be used to communicate this to the customer (see the "Form Letter" folder under Technical Literature on the shared (S) drive)

Note: The 3347 and 3547 (without the "A" suffix) are not available on labeled or construction tagged fire doors.

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Common Glass Types Used In Architectural Doors

Information Bulletin 262

Date: June, 2013

Eggers Industries

FIRE & SAFETY RATED GLASS

Wired Glass:

1. Eggers will only glaze with safety rated version of wired glass such as Superlite I-W. Doors can be glazed with non-safety rated glass by others where the building code allows its use.
2. Standard Thickness of Superlite I-W is nominally 1/4" (actual thickness is approximately .300").
3. Patterns available: Diamond, Square (Baroque).

Ceramic Glazing: (see info bulletin 352)

Superlite:

1. Superlite I, 1/4" glass for 20 minute only, can be etched prior to tempering.

Pyroedge Safety and Fire Rated:

1. 1/4" tempered for 20 minute only.
2. Glass can be etched, sandblasted, made obscure, or beveled *.
3. Glass can be radius – convex only not concave.
4. Requires special intumescent bead with 1/2" stop height

Pyroswiss 20 Safety and Fire Rated:

1. 1/4" tempered for 20 minute only.
2. Glass can be etched, sandblasted, made obscure, or beveled *.
3. Glass can be radius – convex only not concave.
4. Can be glazed with standard, non-intumescent wood beads with 5/8" stop height

SAFETY GLASS

Tempered Glass (Heat Treated):

1. Standard thickness 1/8", 3/16", 1/4".
2. 1/4" thick is most common, all thicknesses cost the same per square foot.
3. Meets safety glazing codes.
4. Cannot be cut after being heat treated.
5. When it breaks, explodes into very small non-jagged pieces.

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Common Glass Types Used In Architectural Doors

Information Bulletin 262

Date: June, 2013

Eggers Industries

Laminated Glass (2 pieces of 1/8" non-tempered glass laminated on either side of a plastic sheet):

1. Standard thickness 1/4".
2. Meets safety glazing codes.
3. When it breaks, it breaks in a spider web pattern with the plastic sheet holding the broken pieces together.

Bullet Resistant Glass:

1. Made of acrylic, polycarbonates, laminated safety glass combinations of these.
2. Thicknesses: the thickness varies between and within levels based on the other properties required such as fire rating or forced entry rating. Thickness and vision frame requirements will be determined as specified.
3. Meets safety glazing codes.

X-RAY GLASS

Leaded (standard):

1. Thickness:1/4" to 5/16" (This is equivalent to 1/16" lead shielding).
2. Does not meet fire or impact resistance requirements.
3. The new building codes do not allow non-safety rated glazing in doors, and Eggers will not install this glazing.

Leaded (safety rated):

1. Thickness: 9/16" (This is equivalent to 1/16" lead shielding).
2. Meet the impact resistance requirements.
3. This glass is not fire-rated by itself, but it can be used in labeled doors when installed in a dual glazed frame with fire rated glazing.
4. Cannot be glazed with wood beads.

*This allows the glazing to be made obscure glass or to add logo or other design. The tempered products, including Pyroswiss, Pyroedge, Fireglass 20 and Superlite 1, must be sandblasted before tempering. Orders will be priced out on a per job basis. Designs will require an approved drawing.

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Common Glass Types Used In Architectural Doors

Information Bulletin 262

Date: June, 2013

Eggers Industries

ACOUSTICAL GLASS

Standard Sealed Unit – from price list:

1. For non-fire rated doors
2. For 1 3/8" doors – 3/8" spacer – ¾" thick
3. For 1 3/4" doors – 3/4" spacer – 1 1/8" thick
4. For 2 1/4" doors – 3/4" spacer – 1 1/8" thick
5. Maximum size for STC guarantee is 370 sq. inches, except for STC 36 up to 1296 square inches.

Double Glazed Metal Vision Panel:

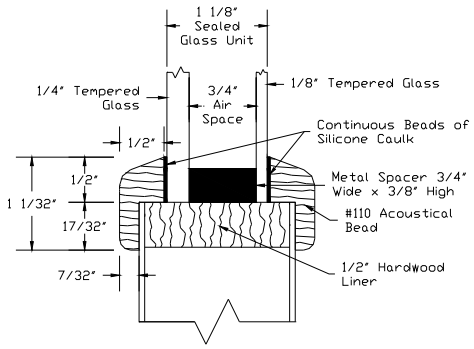
1. For 20-minute doors.
2. Maximum size 370 square inches for STC guarantee.
3. Maximum 1296 square inches for fire label.

Sealed Unit Metal Vision Panel:

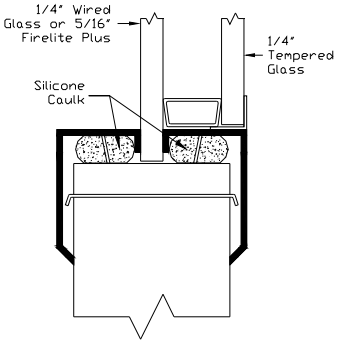
1. For 20 -minute doors.
2. Maximum size 370 square inches for STC guarantee.
3. Maximum 1296 square inches for fire label.
4. Aesthetically better looking than double glazed unit, but much more expensive.

Firelite Plus and tempered glass in a sealed unit and Anemostat Lo-Pro metal vision panel

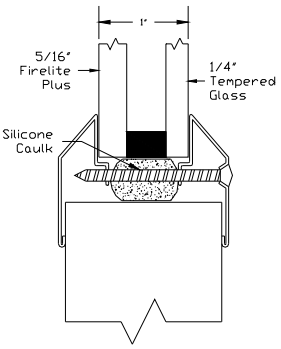
110 Wood Bead shown with Sealed Glass Unit



115 Dual Glazed Metal Vision Frame



Metal Vision Frame shown with Insulated Glass Unit



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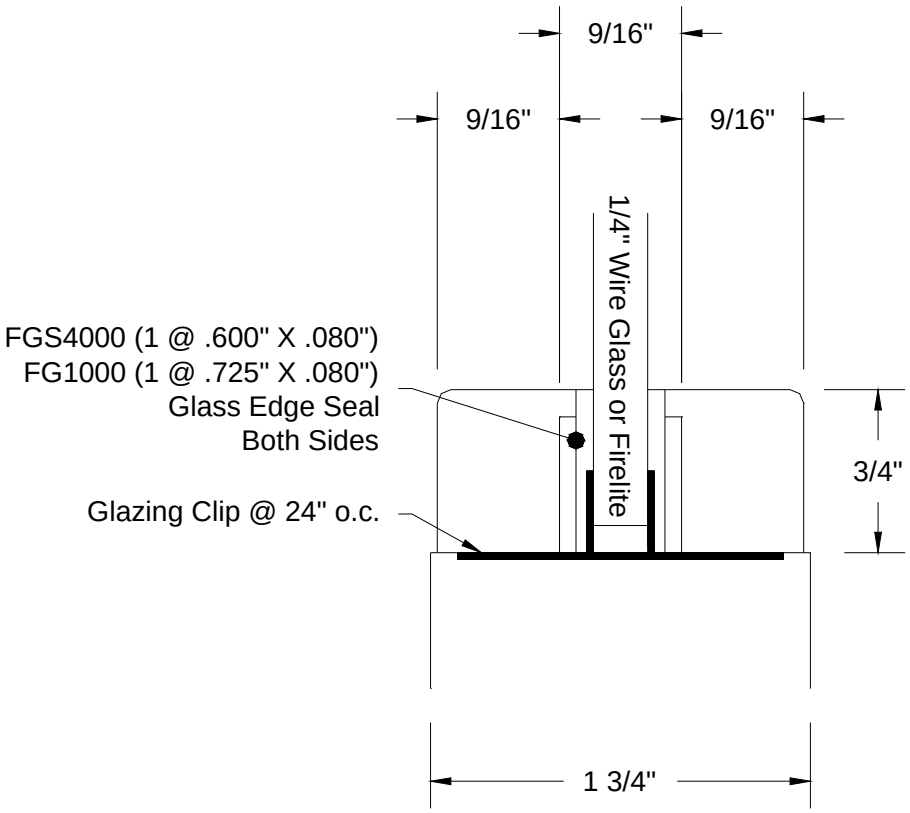
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Common Glass Types Used In Architectural Doors
Information Bulletin 262

Date: June, 2013

Eggers Industries

45-MINUTE FULL LITE DOORS
STOP DETAIL - #114



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Pairs with Different Core Types

Information Bulletin #328

Date: August, 2017

Eggers Industries

In accordance with the limitations shown below, Eggers will construct pairs of doors having different core types. In addition, a flush leaf may be paired with a stile & rail leaf.

Specific application rules:

- Because different core react differently to fire, both leaves of a fire-rated pair must be constructed of the same core type.
- Where bullet-resistance is required, both leaves are required to have the same construction.
- Where lead-lining is involved (other than designed acoustical core construction SG-5, SG-6, SG-14 and SG-16) both leaves must include lead. The lead thickness and the core type may differ between the two leaves.
- Where one leaf is includes a designed acoustical core construction (SG-3, SG-4, SG-5, SG-6, SG-12, SG-14 and SG-16) the other must be a designed acoustical core construction, though not necessarily the same construction [example one leaf could be SG-4 and the other SG-5]. No STC guaranty is available for such combinations.

Special Notes:

1. Availability of face-matching may be limited, based on the constructions selected,
2. Hardware options and maximum opening height may be limited by the combination selected,
3. Some combination may impact lead-time

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REVEALS
Information Bulletin 264

Date: February, 2015

Eggers Industries

Applicable Rules:

1. Reveals may be horizontal, vertical, or radiused*, and may intersect.

2. Reveals are not allowed in 45-minute Particle or 45-min Agrifiber core

3. Where reveals are allowed their dimensions location from lites and door edge as well as inlay requirements will vary.

4. Both faces of the door require the identical reveals to maintain the warranty. Exception: SCL core doors can have shallow reveals one side only or a different reveal pattern on the two faces. This exception does not apply if inlays are required.

5. Reveals in exterior doors are subject to manufacturing approval and will void the warranty.

6. Reveals (with or without inlays) cannot be closer than 7" to the lock stile of doors having concealed vertical rod hardware. This applies to both horizontal and vertical reveals (See figure #3).

7. Reveals requiring inlays must be factory cut.

8. Reveals adjacent to a lite cutout are limited to a maximum depth of 3/64".

9. Available reveal layouts may be limited due to conflicts between hardware machining and the inlay/reveal machining.

10. Warranted and available in U.L. doors labeled 20 through 90 minute.
    A. Depth:
        1. Without Hardwood Inlay:
            The dimensions are limited to 3/64" deep by 1/4" wide. Cross-banding will be visible in the bottom of the reveal (See figure #1). There is no maximum length for shallow reveals. This is the only type of reveal allowed in acoustical and lead lined doors.

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2. With Hardwood Inlay:
   The maximum dimension is 3/8" x 3/8". The inlay will be visible in the bottom of the reveal. Inlay species may be selected as compatible or contrasting with face veneer species as desired. A maximum of 31 lineal feet of reveals is allowed per side to maintain label and warranty (See figure #2). Inlays in 45-90 min doors cannot cross through the stiles, rails, or required blocking. Where blocking is not involved the minimum stile and rail dimension will be 1"; where 5" blocking is involved the minimum stile and/or rail dimension will be 6".

11. Warranted and available in non-rated, non-mineral core doors.
    A. Depth:
       1. Without Hardwood Inlay:
          The dimensions are limited to 3/64" deep by 1/2" wide. Cross-banding will be visible in the bottom of the reveal (See figure #1). There is no maximum length for shallow reveals. This is the only type of reveal allowed in acoustical, lead lined and specific bullet-resistant doors.
       2. With Hardwood Inlay:
          The maximum dimension is 3/8" x 1/2". The inlay will be visible in the bottom of the reveal. Inlay species may be selected as compatible or contrasting with face veneer species as desired. To maintain the warranty reveals cannot exceed 31 lineal feet per face (See figure #2).

***** If a radius reveal is required you must contact the factory for pricing and warranty information.

Explanation of 3/64" Reveal Depth

Eggers has set the maximum depth of reveals without inlays at 3/64". This dimension allows approximately .065" of cross-banding to remain between the reveal on door core, based on a standard veneer face and 1/11" cross-band. The actual thickness of cross-banding will differ based the tolerances of the materials being used, and the component options.

The inlay requirement is due to both structural and aesthetic concerns. While the use of inlays for reveals deeper than 3/64" addresses the structural concerns they do not avoid all of the aesthetic issues. The aesthetic issue arises when the requested depth of the reveal is close to the location of the crossband/inlay bond. In such cases the component and machining tolerances may result in part of the reveal having crossband showing at the bottom. To prevent this, the minimum depth of reveals

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requiring an inlay will 5/32". This dimension allows for various face options over a 1/11" cross-band plus machining tolerance.

Finished options for reveals:

The table below defines the reveal appearance for the reveal finishing "picks" available with factory finished doors.

PICK	(Shallow) Reveal without Inlay – Crossband is the Visible Surface in the Reveal	Reveal with Inlay – Matching or Compatible Lumber is the Visible Surface in the Reveal
BLACK PAINT	Reveal will be painted black	Reveal will be painted black
SAME AS FACE	If the face will be finished with an opaque varnish the reveal will match the face. If face will be stained the reveal will have the same stain applied as the face, but it will not match the face (usually the reveal will be darker in appearance).	If face will be finished with an opaque varnish the reveal will match the face. If face will be stained the reveal will have the same stain applied as the face and will match the face.
MATCH SAMPLE	The reveal will be finished a different opaque varnish or stain than the face and will match an approved sample with a reveal. For this option there will be separate sample approval numbers for the face and the reveal.	The reveal will be finished a different opaque varnish or stain than the face and will match an approved sample with a reveal.

Terminology

Due to confusion in using different terms to describe the same constructions this information section is to clarify and standardize the terms we use to describe constructions.

REVEALS
Information Bulletin 264

Date: February, 2015

Eggers Industries

The terms “reveals” and “quirks” have been used interchangeably. To standardize, Eggers literature and computer codes will only reference the term “reveal”. The following terms and definitions describe where we will use certain terms.

1. Reveals without inlays: Reveals 3/64” deep, do not need lumber glued into cores, see Figure #1

2. Reveals with inlays: Reveals that require lumber to be glued into a groove in the core prior to face application, see Figures #2 and #3.

3. Inlays lumber or similar material glued into a groove in the core material prior to the application of the door facing.

4. Liners: Interior blocking used around cutouts for lites and louvers. Liners extend from one face of the door to the other, replacing the core material in that area.

Figure # 1 - Reveal - No Inlay

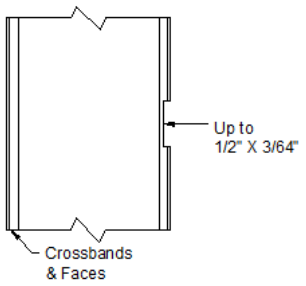


Figure #2 - Reveal - With Inlay

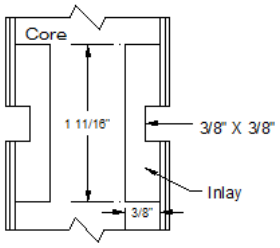
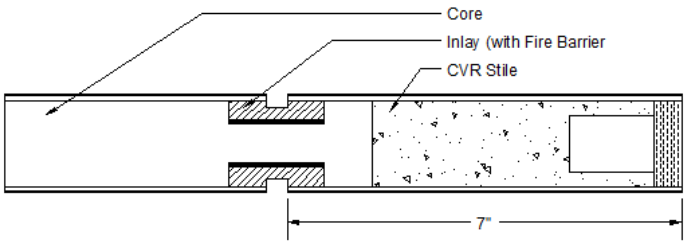


Figure # 3 - Reveals with Inlay in a Fire Door w/CVR Stile



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Installation of Perimeter Seals: Gasket System A

1. Install the Pemko 434 door bottom in accordance with the manufacturer's instructions prior to hanging the door. Eggers recommends countersinking the mounting holes and replacing the round-head mounting screws with flat-head screws to attach the door bottom to the door. This will increase the clearance between door bottom and threshold.

2. Turn the adjustment screw on the door bottom in so that the seal will not activate when the door is closed.

3. Hang the door and adjust for proper clearances.

4. Install the Pemko 2005 threshold within the opening. The threshold should be installed parallel to the bottom of the door, shimming if required. A sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Thresholds should not be mounted over carpeting as this will not allow a good seal.

5. Prepare the frame by cleaning the jamb, header and stops where the S-88 seals will be applied.

6. Measure, cut and apply the S88 (teardrop-shaped) gasket to the frame stop, insuring a good seal in the corners (see photo 1). The Pemko S-88 should be full height or width of the opening and should not be spliced.

7. Turn the adjustment screw on the door bottom out to the point where the seal makes uniform firm contact with the sill when the door is closed.

Photo 1



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Installation of Perimeter Seals: Gasket System B

1. Install the Pemko 434 door bottom in accordance with the manufacturer's instructions prior to hanging the door.

2. Turn the adjustment screw on the door bottom in so that the seal will not activate when the door is closed.

3. Hang the door and adjust for proper clearances.

4. Prepare the frame by cleaning the jamb, header and stops where the S-88 seals will be applied.

5. Measure, cut and apply the S88 (teardrop-shaped) gasket to the frame stop, insuring a good seal in the corners (see photo 1). The Pemko S-88 should be full height or width of the opening and should not be spliced.

6. Turn the adjustment screw on the door bottom out to the point where the seal makes uniform firm contact with the sill when the door is closed. If a flat threshold is being used as the sill a sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Door bottoms should not be used over carpeted sills as this will not provide a good seal.



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Installation of Perimeter Seals: Gasket System C

1. Install the Pemko 234 door shoe in the groove machined in to bottom of the door in accordance with the manufacturer's instructions prior to hanging the door.

2. Hang the door and adjust for proper clearances.

3. Install the Pemko 2005 threshold within the opening. The threshold should be installed parallel to the bottom of the door, shimming if required. When properly installed there should be a 1/8" clearance between the bottom of the door and the threshold when the door is closed. This will allow for 1/8" compression of the door shoe. A sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Thresholds should not be mounted over carpeting as this will not allow a good seal.

4. Prepare the frame by cleaning the jamb, header and stops where the S-88 seals will be applied.

5. Measure, cut and apply the S88 (teardrop-shaped) gasket to the frame stop, insuring a good seal in the corners (see photo 1). The Pemko S-88 should be full height or width of the opening and should not be spliced.

Photo 1



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Installation of Perimeter Seals: Gasket System D

1. Install the Pemko 234 door shoe in the groove machined in to bottom of the door in accordance with the manufacturer's instructions prior to hanging the door.

2. Hang the door and adjust for proper clearances.

3. Install the Pemko 2005 threshold within the opening. The threshold should be installed parallel to the bottom of the door, shimming if required. When properly installed there should be a 1/8" clearance between the bottom of the door and the threshold when the door is closed. This will allow for 1/8" compression of the door shoe. A sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Thresholds should not be mounted over carpeting as this will not allow a good seal.

4. Measure and cut the Pemko 303 seals to cover the full width and height of the opening.

5. Position the Pemko 303 seals on the frame stop so the seals are slightly compressed against the face of the door in the closed position. Attach the seals to the frame using the screws provided with the seals. To prevent transmission leaks in the corners, silicone caulking should be used where the header and jamb seals meet.

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Installation of Perimeter Seals: Gasket System E

1. Install the Pemko 434 door bottom in accordance with the manufacturer's instructions prior to hanging the door.

2. Turn the adjustment screw on the door bottom in so that the seal will not activate when the door is closed.

3. Hang the door and adjust for proper clearances.

4. Turn the adjustment screw on the door bottom out to the point where the seal makes uniform firm contact with the sill when the door is closed. If a flat threshold is being used as the sill a sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Door bottoms should not be used over carpeted sills as this will not provide a good seal.

5. Measure and cut the Pemko 303 seals to cover the full width and height of the opening. If a flat threshold is being used that extends inside the frame stops the Pemko 303 seals should be cut to butt tight to the threshold.

6. Position the Pemko 303 seals on the frame stop so the seals are slightly compressed against the face of the door in the closed position. Attach the seals to the frame using the screws provided with the seals. To prevent transmission leaks in the corners, silicone caulking should be used where the header and jamb seals meet.

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Installation of Perimeter Seals: Gasket System F

1. Install the Pemko 411 door bottom in accordance with the manufacturer's instructions prior to hanging the door.

2. Turn the adjustment screw on the door bottom in so that the seal will not activate when the door is closed.

3. Hang the door and adjust for proper clearances.

4. Prepare the frame by cleaning the jamb, header and stops where the S-88 seals will be applied.

5. Measure, cut and apply the S88 (teardrop-shaped) gasket to the frame stop, insuring a good seal in the corners (see photo 1). The Pemko S-88 should be full height or width of the opening and should not be spliced.

6. Turn the adjustment screw on the door bottom out to the point where the seal makes uniform firm contact with the sill when the door is closed. If a flat threshold is being used as the sill a sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Door bottoms should not be used over carpeted sills as this will not provide a good seal.

Photo 1



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Installation of Perimeter Seals: Gasket System G

1. Install the Pemko 222 door to bottom of the door in accordance with the manufacturer's instructions prior to hanging the door.

2. Hang the door and adjust for proper clearances.

3. Install the Pemko 181 threshold within the opening. The threshold should be installed parallel to the bottom of the door, shimming if required. When properly installed there should be a 1/8" clearance between the metal shoe and the threshold when the door is closed. This will allow for 1/8" compression of the door shoe gasket. A sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Thresholds should not be mounted over carpeting as this will not allow a good seal.

4. Prepare the frame by cleaning the jamb, header and stops where the S-88 seals will be applied.

5. Measure, cut and apply the S88 (teardrop-shaped) gasket to the frame stop, insuring a good seal in the corners (see photo 1). The Pemko S-88 should be full height or width of the opening and should not be spliced.



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Installation of Perimeter Seals: Gasket System H

1. Install the Pemko 234 door shoe in the groove machined in to bottom of the door in accordance with the manufacturer's instructions prior to hanging the door.

2. Hang the door and adjust for proper clearances.

3. Install the Pemko 173 threshold within the opening. The threshold should be installed parallel to the bottom of the door, shimming if required. When properly installed there should be a 1/8" clearance between the bottom of the door and the threshold when the door is closed. This will allow for 1/8" compression of the door shoe gasket. A sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Thresholds should not be mounted over carpeting as this will not allow a good seal.

4. Prepare the frame by cleaning the jamb, header and stops where the S-88 seals will be applied.

5. Measure, cut and apply the S88 (teardrop-shaped) gasket to the frame stop, insuring a good seal in the corners (see photo 1). The Pemko S-88 should be full height or width of the opening and should not be spliced.

Photo 1



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Installation of Perimeter Seals: Gasket System I

1. Install the Zero 369 door bottom in accordance with the manufacturer's instructions prior to hanging the door.

2. Turn the adjustment screw on the door bottom in so that the seal will not activate when the door is closed.

3. Hang the door and adjust for proper clearances.

4. Prepare the frame by cleaning the jamb, header and stops where the S-88 seals will be applied.

5. Measure, cut and apply the S88 (teardrop-shaped) gasket to the frame stop, insuring a good seal in the corners (see photo 1). The Pemko S-88 should be full height or width of the opening and should not be spliced.

6. Turn the adjustment screw on the door bottom out to the point where the seal makes uniform firm contact with the sill when the door is closed. If a flat threshold is being used as the sill a sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Door bottoms should not be used over carpeted sills as this will not provide a good seal.



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Installation of Perimeter Seals: Gasket System J

1. Install the Pemko 234 door shoe in the groove machined in to bottom of the door in accordance with the manufacturer's instructions prior to hanging the door.

2. Hang the door and adjust for proper clearances.

3. Install the Pemko 181 threshold within the opening. The threshold should be installed parallel to the bottom of the door, shimming if required. When properly installed there should be a 1/8" clearance between the bottom of the door and the threshold when the door is closed. This will allow for 1/8" compression of the door shoe. A sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Thresholds should not be mounted over carpeting as this will not allow a good seal.

4. Measure and cut the Q-lon seals to cover the full width and height of the opening.

5. Clean the surface of the frame stop adjacent to the door face, and attach the Q-lon seals so they will be located between the frame stop and door face.

6. Measure and cut the Pemko 303 seals to cover the full width and height of the opening.

7. Position the Pemko 303 seals on the frame stop so the seals are slightly compressed against the face of the door in the closed position. Attach the seals to the frame using the screws provided with the seals. To prevent transmission leaks in the corners, silicone caulking should be used where the header and jamb seals meet.

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Installation of Perimeter Seals: Gasket System K

1. Install the door bottom prior to hanging the door.

2. Hang the door and adjust for proper clearances.

3. Turn the adjustment screw on the door bottom in so that the seal will not activate when the door is closed.

4. Prepare the frame by cleaning the jamb, header and stops where the S-88 seals will be applied.

Photo 1



5. Measure, cut and apply the S88 (teardrop-shaped) gasket to the frame stop, insuring a good seal in the corners (see photo 1).

6. Locate the two foam pads for the frame jambs (these two pads do not have a beveled edge or vinyl facing).

7. Apply these two pads to the bottom of the jambs adjacent to the S-88 installed on the stops in step 2 (see photo 2).

8. Locate one foam pad for the header (this pad has a bevel on one edge and a vinyl facing).

Photo 2



Photo 3



9. Apply this pad centered over the meeting edges of the pairs on the header, with the beveled edge facing away from the stop, and adjacent to the S-88 installed on the stops in step 2 (see photo 3).

10. Measure, cut and apply the S88 (teardrop-shaped) gasket to the jambs and header so that it butts against the foam pads and forms a good seal in the corners (see photos 4 and 5).

Photo 4



Photo 5



11. Clean the meeting edges of the doors.

12. Measure, cut and apply a strip of S1125 to the meeting edge of each leaf. Apply the strips at the same location on each leaf, at a point where they will make good contact with each other but not cause binding when the doors are closed (see photos 6 and 7).

Photo 6

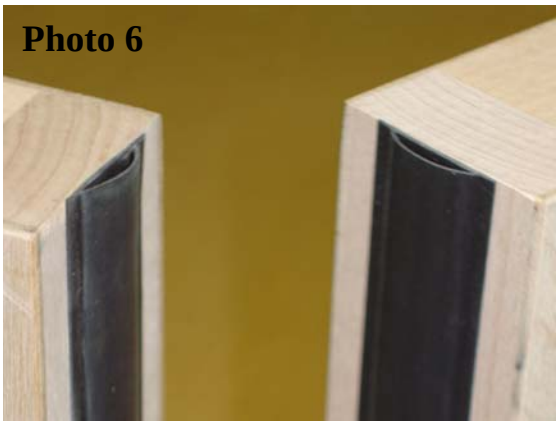
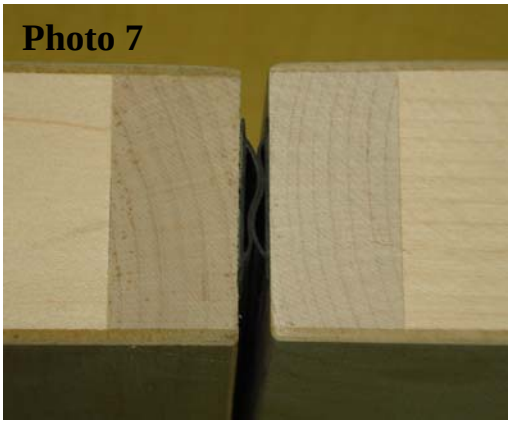


Photo 7



13. Turn the adjustment screw on the door bottom out to the point where the seal makes uniform firm contact with the sill when the door is closed.

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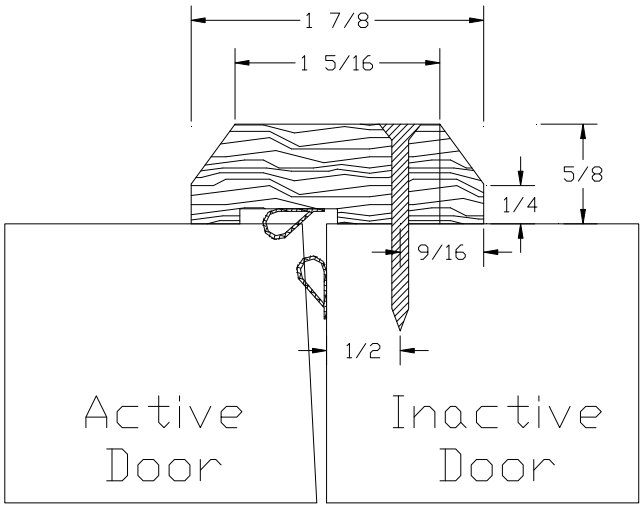
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Installation of Acoustic Wood Astragals
Installation Instruction 104

Date: July, 2012

Eggers Industries

Where acoustic doors are hung as active/inactive pairs the normal method of sealing the meeting edges is by use of an overlapping wood astragal and two rows of Pemko S-88. The astragal (shown below) is typically attached to the inactive leaf on the push side of the opening. Locate one screw in the top and bottom 6” of the astragal with no more 18” between additional screws. Use 1-1/2” long threaded to the head wood screws and pre-drill pilot holes. Apply the S-88 seals as shown below, making sure the bubble makes good contact with the opposing leaf.



NOTE: Gaskets shown in non-compressed position

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Care, Handling, and Maintenance

Installation Instruction 101

Date: September 2017

Eggers Industries

The information included in this guideline is presented to help maintain your high quality wood doors. It includes the same basic information published by the Window and Door Manufacturers Association in Industry Standard I.S.-1A, as well as additional instructions specific to maintaining specialty doors.

STORAGE AND HANDLING

1. Store doors flat on a level surface in a dry, well-ventilated building. Doors should be kept at least 4 in. (102 mm) off the floor and should have protective coverings under the bottom door and over the top. Covering should protect doors from dirt, water, and abuse but allow for air circulation under and around the stack.
2. Avoid exposure of interior doors to direct sunlight. Certain species (e.g., cherry, mahogany, walnut, and teak) are more susceptible to discoloration if exposed to sunlight or some forms of artificial light.
3. Do not subject interior doors to extremes of heat and/or humidity. Do not allow doors to come in contact with water. Buildings where humidity and temperature are controlled provide the best storage facilities (recommended conditions 25%-55% RH and 50°F-90°F (10°C to 32°C).
4. Do not install doors in buildings that have wet plaster or cement. Do not store doors in buildings with excessive moisture content – HVAC systems should be operating and balanced.
5. Doors should always be handled with clean dry hands or while wearing clean dry gloves.
6. Doors should be lifted and carried when being moved, not dragged across one another.

FINISHING

Eggers recommends factory finishing to insure the most durable surface and uniform appearance. Factory finishing will also slow the response to changes in humidity. The following points provide guidance for doors being field finished.

1. Wood is hygroscopic and dimensionally influenced by changes in moisture content caused by changes within its surrounding environment. To assure uniform moisture exposure and dimensional control, all surfaces must be finished equally.
2. Doors should not be considered ready for finishing when initially received. Before finishing, remove all handling marks, raised grain, scuffs, burnishes and other undesirable blemishes by block sanding all surfaces in a horizontal position with 150 or 180-grit sandpaper. Sanding of the overall surface will be required to open the veneer grain to receive a field applied finish evenly. To avoid cross grain scratches, sand with the grain.
3. Certain species of wood, particularly oak, may contain extractives which react unfavorably with foreign materials in the finishing system. Do not use steel wool on bare wood, rusty containers or any other contaminate in the finishing system.

4. A thinned coat of sanding sealer should be applied prior to staining to promote a uniform appearance and avoid sharp contrasts in color or a blotchy appearance. Eggers will not be responsible for the final appearance of field-finished doors. It is expected that the painting contractor will make adjustments as needed to achieve desired results.
5. The top and bottom rails are sealed at the factory. All other exposed, unfinished wood surfaces should be finished. Cutouts for hardware in exterior doors and doors located adjacent to areas where high moisture is expected should be sealed prior to installation of hardware.
6. Dark colored finishes should be avoided on all surfaces if the door is exposed to direct sunlight, in order to reduce the chance of warping or veneer checking.
7. Water-based coatings on unfinished wood may cause veneer splits, highlighted joints and raised wood grain. If used on exterior doors, the coating should be an exterior grade product. When installed in exterior applications, doors must be properly sealed and adequately protected from the elements. Refer to Eggers' warranty for protection requirements.
8. Be sure the door surface being finished is satisfactory in both smoothness and color after each coat. Allow adequate drying time between coats. Desired results are best achieved by following the finish manufacturer's recommendations.
9. Certain wood fire doors have fire retardant salts impregnated into various wood components. Lightly sand treated wood before finishing to remove any surface salt that may be present.

INSTALLATION

1. Eggers recommends factory machining of all doors to insure proper machining tolerances. All labeled doors are required to be machined under licensed inspection service by NFPA 80.
2. The utility or structural strength of the doors must not be impaired when fitting to the opening, in applying hardware, in preparing for lites, louvers, plant-ons or other detailing.
3. The general rule is to use two hinges for solid core doors up to 60 in. (1524 mm) in height, and an additional hinge for every 30 in. (762 mm) or fraction thereof. This matches the requirements for installing fire doors. Refer to Eggers warranty and approvals for special provisions. Consult hinge or pivot hardware manufacturer with regard to weight and size of hinges or pivots required.
4. The maximum clearance between the top, hinge edge and lock edge to the frame and meeting edge of pairs of doors, is 1/8 in. (3.2 mm). NFPA 80 allows a tolerance of +0 and -1/16″ to this dimension.
5. All hardware locations, preparations and methods of attachment must be appropriate for the specific door construction.
6. When lite or louver cutouts exist in exterior doors, they must be protected in order to prevent water from entering the door core.
7. Pilot holes must be drilled for all screws that act as hardware attachments. Full threaded screws should be used for fastening hardware to non-rated doors and are required on fire-rated doors. Eggers does not warrant the use of self-tapping or combination (wood/metal) screws for the attachment of hardware.

8. In fitting non-rated doors for height, do not trim top or bottom edge by more than 3/4 in. (20 mm) unless accommodated by additional blocking. Trimming of fire-rated doors must be in accordance with NFPA 80.
9. Doors and door frames should be installed plumb, square and level.

CLEANING AND TOUCHUP

1. Inspect all wood doors prior to hanging them on the job. Repair noticeable marks or defects that may have resulted from improper storage and handling.
2. Field repairs and touchups are the responsibility of the installing contractor upon completion of initial installation. Field touchup shall include the filling of exposed nail or screw holes, re-finishing of raw surfaces resulting from job fitting, repair of job inflicted scratches and mars and final cleaning of finished surfaces.
3. When cleaning door surfaces, use a non-abrasive commercial cleaner designed for cleaning wood door or paneling surfaces, that does not leave a film residue that would build up or affect the surface gloss of the door finish. Refer to Eggers' eiDoor Maintenance information bulletin for vinyl door requirements.

GENERAL ADJUSTMENT AND MAINTENANCE

1. Insure that all doors swing freely and do not bind in their frame. Adjust the finish hardware for proper alignment, smooth operation and proper latching without unnecessary force or excessive clearance.
2. Periodically inspect all doors for wear, damage and natural deterioration.
3. Periodically inspect and adjust all hardware to insure that it continues to function as it was originally intended.
4. Finishes on exterior doors may deteriorate due to exposure to the environment. See Eggers' warranty for refinishing requirements.

SPECIFIC ADJUSTMENT AND MAINTENANCE FOR ACOUSTIC DOORS

1. Fixed seals should be routinely wiped clean and inspected for damage. Components that are damaged or otherwise fail to provide a continuous seal between the door surface and fixed elements of the assembly should be replaced. Seals may be wiped with a silicone coated cloth to help reduce opening and closing friction.
2. Operational seals such as automatic door bottoms should be routinely wiped clean and inspected for damage. Damaged seals should be replaced. These components need to be checked for proper operation to insure they seal when the door is closed and retract when the door is opened to prevent wear or damage. Seals may require periodic adjustment, per the hardware manufacturer's instructions.
3. Extra attention should be given to the hinging, closing and latching hardware. Tighten or shim hinges, adjust closures, and adjust latch strikes as required to insure the door remains squarely in the opening and makes a uniform continuous contact with the acoustic seals.

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Fire Door Glazing Instructions

Installation Instruction 107

Date: June, 2013

Eggers Industries

INSTALLATION INSTRUCTIONS
- CONTENTS -

Pages	Installation Covered
2	Glazing 20 Minute Lites, including Full-Lites, with Pyroswiss-20 Glazing and Wood Beads
3-4	45-90 Minute Lites with Filmed or Laminated Ceramic Glazing and Veneer-Wrapped Beads
5-6	Glazing Instructions: 45-Minute, including Full-Lite, with Filmed or Laminated Ceramic Glazing and Wood Beads

***NOTE: The IBC does not allow an exception for the impact resistance for non-safety rated wired glass. All glazing used in fire doors must comply with CPSC 16 CFR1201, Category I or II, based on the application.**

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Fire Door Glazing Instructions

Installation Instruction 107

Date: June, 2013

Eggers Industries

Glazing Instructions: 20-Minute Full-Lite with Pyroswiss-20 Glazing and Wood Beads

1. 20-Minute doors are supplied with the lite cutout pre-machined by Eggers Industries. The wood glazing bead will be mitered to fit and supplied loose.

2. Carefully remove the wood bead from the lite opening.

3. Lay the door flat, taking care to protect the surface from marring.


Fig 1

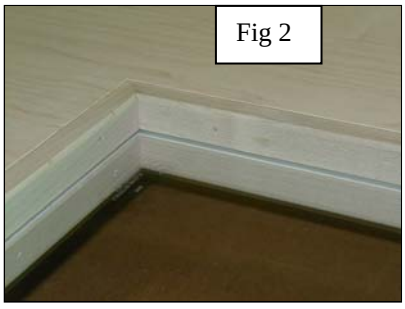
4. Secure the bead in one face of the lite opening using nails, supplied by the glazer, at least 1-3/16" in length and 18 gauge in diameter. Nails shall be located within 3" of the corners and no more than 6" between adjacent nails. (Fig 1). Pre-drill nail holes in the bead as required to prevent splitting.

5. Position the door so that the bead is at the bottom of the cut-out.

6. Position two 1/8" x 1/4" x 3" setting blocks (supplied with the glazing) at quarter points on the bottom of the lite opening (Fig 1)

7. Lay the glazing into the opening. It should be located against the setting blocks, leaving a gap between the glazing and cut-out of 1/8" at all four edges.

8. Position the remaining wood bead in the cut-out. The down-set of the beads will vary from door to door due to "tolerance stacking" of the door, wood bead and glazing dimensions. The wood beads have been profiled to allow a nominal 1/64" recess (down-set) at flush doors. If the recess is greater than this, a layer of appropriate thickness PVC glazing tape or a bead of 100% silicone caulk should be used between the back of the bead, and the glazing.


Fig 2

9. Secure the bead as described in step 4 above. (Fig 2).

10. Complete the installation by filling the nail holes with putty and sanding smooth.

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Fire Door Glazing Instructions

Installation Instruction 107

Date: June, 2013

Eggers Industries

Glazing Instructions: 45-90 Minute Lites with Filmed or Laminated Ceramic Glazing and Veneer-Wrapped Beads

1. These doors are supplied with the lite cutout pre-machined by Eggers Industries. The perimeter of the cutout is machined with recessed pockets for 2-part metal glazing clips. The glazing clips and their nails (Fig 1), together with the bead nails, will be sent loose as an accessory kit. The veneer-wrapped glazing bead (Fig 2) will be mitered supplied loose.

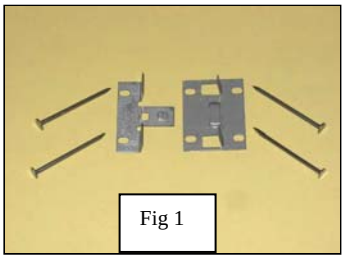


Fig 1

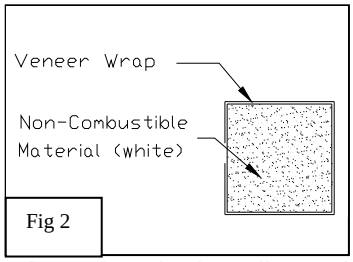


Fig 2

2. Carefully remove the wood bead from the lite opening. The glazing clip pockets are roughly centered within the door thickness.

3. Lay the door flat, taking care to protect the surface from marring.

4. Position the rectangular half of the glazing clip, with the tabs down, being sure it is centered within the door thickness. Secure it using two of the 1-9/16" long 4d nails inserted through the holes below the tabs (Fig 3). Where nails are hand driven into blocking, pre-drilling with a 5/64" bit is required. **Caution**: These clips are directional; insure correct positioning of the clips before beginning to nail them into place. **Note**: Clips are required in all of the machined pockets.

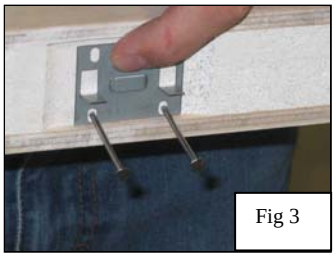


Fig 3

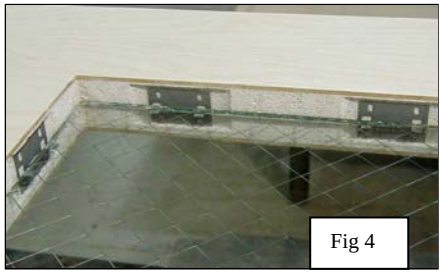


Fig 4

5. After installing the rectangular half of all of the clips in all of the pockets, position the glazing in the opening, resting it against the clip tabs (Fig 4).

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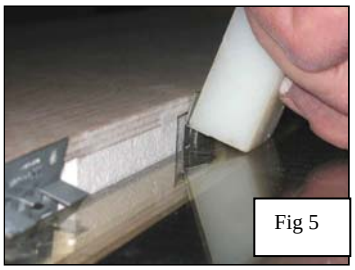
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Fire Door Glazing Instructions

Installation Instruction 107

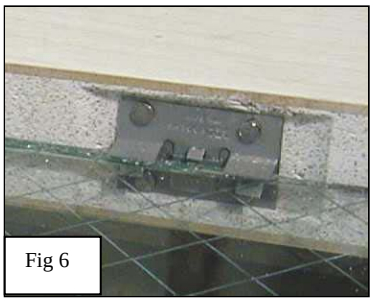
Date: June, 2013

Eggers Industries

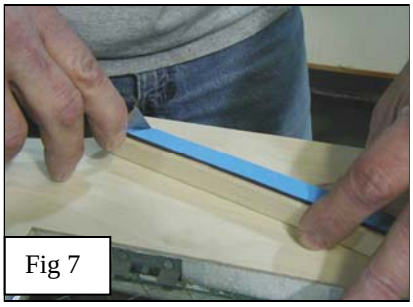

Fig 5

6. Install the second part of the clips by inserting the “tongue” into the raised slot until the locking tab engages (Fig 5).

7. Secure the second part of the clip to the cutout using two additional 1-9/16” nails. These nails should extend through the overlapping holes in both halves of the clips (Fig 6).


Fig 6

8. Attach double sided glazing tape to the back of the veneer wrapped bead, trimming it to match the mitered corners (Fig 7).


Fig 7

9. Position the wood bead in the cutout. The recess (down-set) of the beads will vary from door to door due to “tolerance stacking” of the door, wood bead and glazing dimensions. Because of this, the veneer-wrapped beads have been profiled to allow a nominal 1/32” recess after the glazing tape has been applied. If the recess is greater than this, thicker glazing tape may be used.

10. After satisfactorily positioning the glazing bead in the opening, secure it using one 16-gauge trim nail (or equivalent) centered between adjacent clips and at each end of the bead (Fig 8). **Note**: For hand nailing, use 2” long 6d finish nails and pre-drill the bead and any blocking material the nails will engage using a 5/64” bit is required.


Fig 8

11. Flip the door over and repeat steps 8, 9 and 10.

12. Putty and sand all nail holes before finishing.

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Fire Door Glazing Instructions

Installation Instruction 107

Date: June, 2013

Eggers Industries

Glazing Instructions: 45-Minute, including Full-Lite, with Filmed or Laminated Ceramic Glazing and Wood Beads

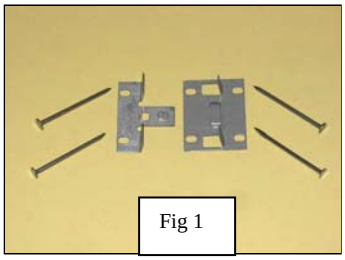


Fig 1

1. 45-Minute full-lite doors are supplied with the lite cutout pre-machined by Eggers Industries. The perimeter of the cutout is machined with recessed pockets for 2-part metal glazing clips. The glazing clips and their nails (Fig 1), together with the bead nails, will be sent loose as an accessory kit. The wood glazing bead will be mitered and supplied loose, with the required glazing tape applied (Fig 2).

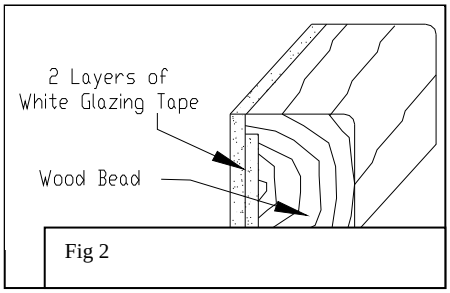


Fig 2

2. Carefully remove the wood bead from the lite opening. The glazing clip pockets are roughly centered within the door thickness.

3. Lay the door flat, taking care to protect the surface from marring.

4. Position the rectangular half of the glazing clip with the tabs down, being sure it is centered within the door thickness. Secure it using two of the 1-9/16” long 4d nails inserted through the holes below the tabs (Fig 3) Where nails are hand driven into blocking, pre-drilling with a 5/64” bit is required. **Caution**: These clips are directional; insure correct positioning of the clips before nailing them into place. **Note**: Clips are required in all of the machined pockets.

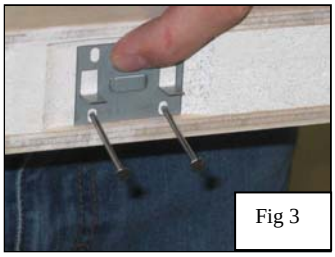


Fig 3

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Fire Door Glazing Instructions

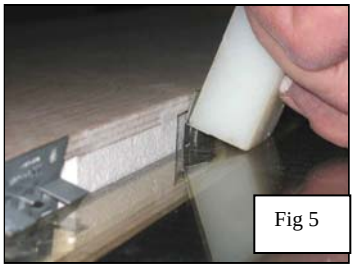
Installation Instruction 107

Date: June, 2013

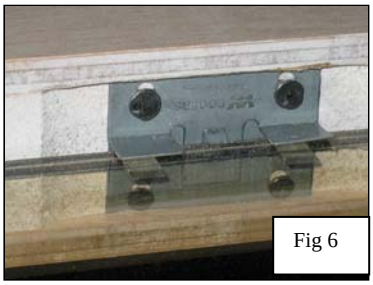
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Fig 4

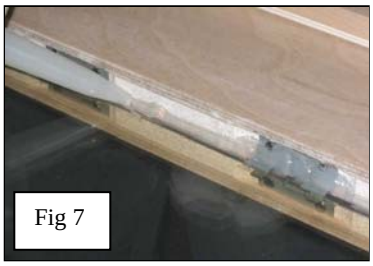
5. After installing the rectangular half of all of the clips in all of the pockets, position the glazing in the opening, resting it against the clip tabs (Fig 4).


Fig 5

6. Install the second part of the clips by inserting the “tongue” into the raised slot until the locking tab engages (Fig 5).


Fig 6

7. Secure the second part of the clip to the cutout using two additional 1-9/16” nails. These nails should extend through the overlapping holes in both halves of the clips (Fig 6).


Fig 7

8. Apply a bead of 100% silicone caulk around the perimeter of the glazing (Fig 7).

9. Position the wood bead in the cutout. The recess (down-set) of the beads will vary from door to door due to “tolerance stacking” of the door, wood bead and glazing dimensions. Because of this, the wood beads have been profiled to allow a nominal 1/32” recess. If the recess is greater than this, an additional bead of silicon can be added between the bead and glazing.

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10. After satisfactorily positioning the glazing bead in the opening, secure it using one two-inch nail (6d finish supplied or 16-gauge trim) centered between adjacent clips and at each end of the bead (Fig 8). Where nails are hand driven into blocking, pre-drilling with a 5/64” bit is required. **Note**: For hand nailing, pre-drilling the bead and any blocking material the nails will engage using a 5/64” bit is required.

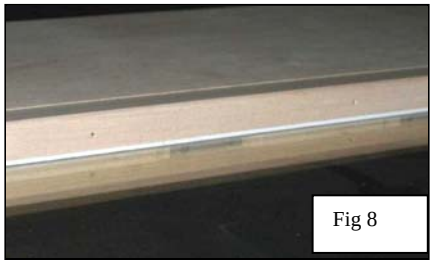


Fig 8

11. Flip the door over and repeat steps 8, 9 and 10.

12. Putty and sand all nail holes before finishing.

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INSTALLATION INSTRUCTIONS
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2	General Description
3	20 Minute Applications (Single Swing and Pairs)
4	45-90 Minute Applications (Single Swing and Pairs)
5	Dutch Doors and Door & Transom Applications
6	Auxiliary Fire Latches
7	UL Fire Label Information
8	Warnock Hersey Fire Label Information

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POSITIVE PRESSURE INSTALLATION INSTRUCTIONS

Retain these instructions. They will be required by the local code official or authority having jurisdiction (AHJ) to determine if the wood fire doors have been properly installed.

These instructions are required for the installation of fire doors that fall under the jurisdiction of building codes, including the International Building Code (IBC), which requires side hinged fire doors to meet positive pressure test methods.

These instructions cover the two parts of positive pressure testing, (1) fire resistance and (2) smoke control. All doors required to meet positive pressure must meet the specified fire resistance. The application and code determine if smoke control is also required. A brief description of each part, and the typical method of addressing it, are given below.

Part 1 – Fire Resistance:
Fire resistance requires the doors to pass the criteria of the positive pressure fire test method such as UL 10C or NFPA 252 (where the neutral plane is located at 40" above the sill). Doors that meet the fire resistance are designated as either Category A or Category B as described below. As seen in the descriptions, this designation indicates job-site actions required during the door installation.

CATEGORY "A": The door does not require any additional edge sealing system to meet fire resistance. This designation indicates the door has been specially manufactured to meet fire resistance, or has had the required edge sealing systems pre-installed in the door by the door labeler.

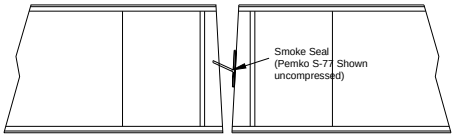
CATEGORY "B": The door requires additional edge sealing to meet fire resistance. This designation indicates the door will not meet fire resistance without the field application of an edge sealing material. This may involve an intumescent material, gasketing material, or combination of both.

Part 2 – Smoke Control:
Smoke control requires the doors to meet the air leakage criteria of UL 1784 or NFPA 105. This requirement is typically met by field application of a listed Category H gasketing material, indicating it has been evaluated for positive pressure. In some applications specific gasketing material may provide both the fire resistant edge seal and smoke control. The systems detailed in the following instructions are the systems provided with the doors if supplied by Eggers Industries.

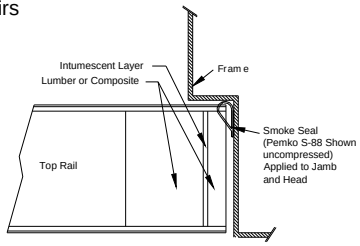
POSITIVE PRESSURE INSTALLATION INSTRUCTIONS
20 MINUTE APPLICATIONS

Category A

Meeting Edges of Pairs



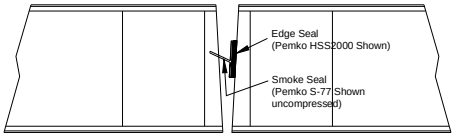
Singles and Hinge Edges of Pairs



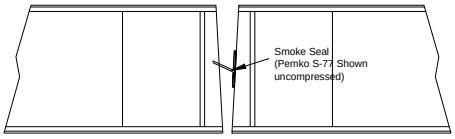
The smoke seal can be left out if smoke control ("S") is not required for Category A constructions.

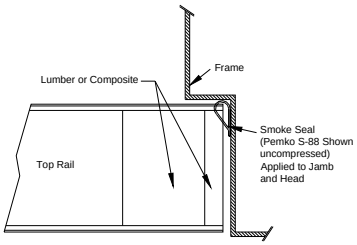
Category B

Meeting Edges of Pairs
(Category B)



Meeting Edges of Pairs
(Category A)





Singles and Hinge Edges of Pairs

The meeting edge gasketing can be left out if smoke control ("S") is not required. The frame gasketing is always required for Category B constructions.

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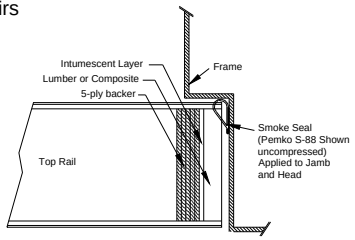
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POSITIVE PRESSURE INSTALLATION INSTRUCTIONS
45 -90 MINUTE APPLICATIONS

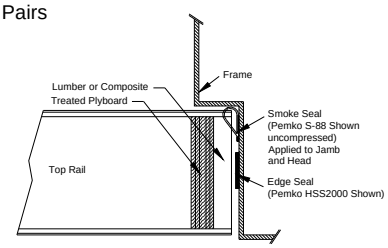
Category A

Singles and Hinge Edges of Pairs



Category B

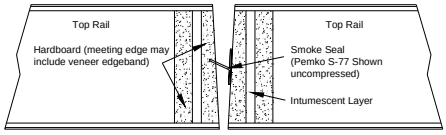
Singles and Hinge Edges of Pairs



The smoke seal can be left out if smoke control ("S") is not required.

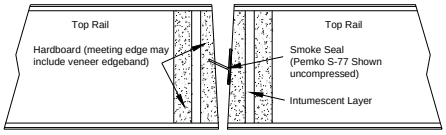
Category A

Meeting Edges of Pairs

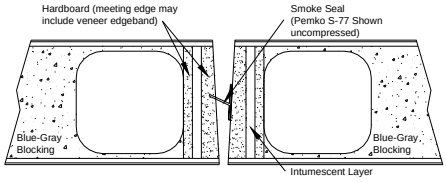


Full or partial height metal edges optional over the edges without additional intumescent

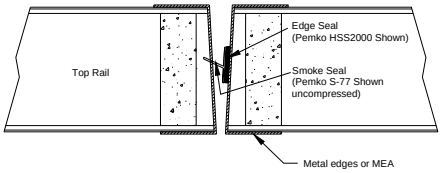
Category B



Full or partial height metal edges optional over the edges without additional intumescent



CVR applications (latch machining will vary)



The meeting edge gasketing can be left out if smoke control ("S") is not required.

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Flush Doors

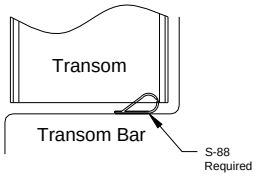
Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces, Custom Wood Products, Plywood

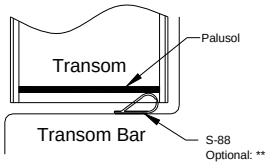
Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.849.0444

POSITIVE PRESSURE INSTALLATION INSTRUCTIONS DOOR/TRANSOM COMBINATIONS AND DUTCH DOORS

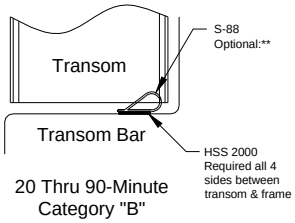
STRAIGHT CUT WITH HORIZONTAL TRANSOM BAR



20-Minute
Category "B"

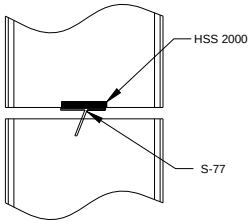


20 Thru 90-Minute
Category "A"

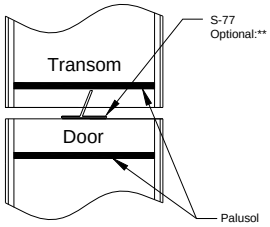


20 Thru 90-Minute
Category "B"

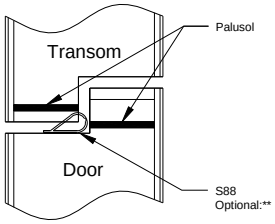
Category "A"



20-Minute
Dutch Door

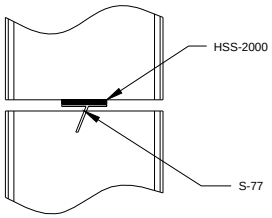


20 Thru 90-Minute
Straight Cut
Door & Transom

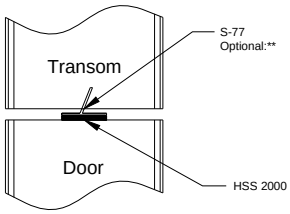


20 Thru 90-Minute
Rabbetted
Door & Transom

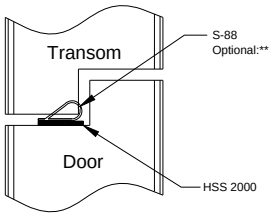
Category "B"



20-Minute
Dutch Door



20 Thru 90-Minute
Straight Cut
Door & Transom



20 Thru 90-Minute
Rabbetted
Door & Transom

** Smoke seal is required by code for "S" label.

Eggers Industries
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Stile and Rail Doors, Door Frames, Plywood Veneered Components

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Fax: 920.793.2958

Flush Doors

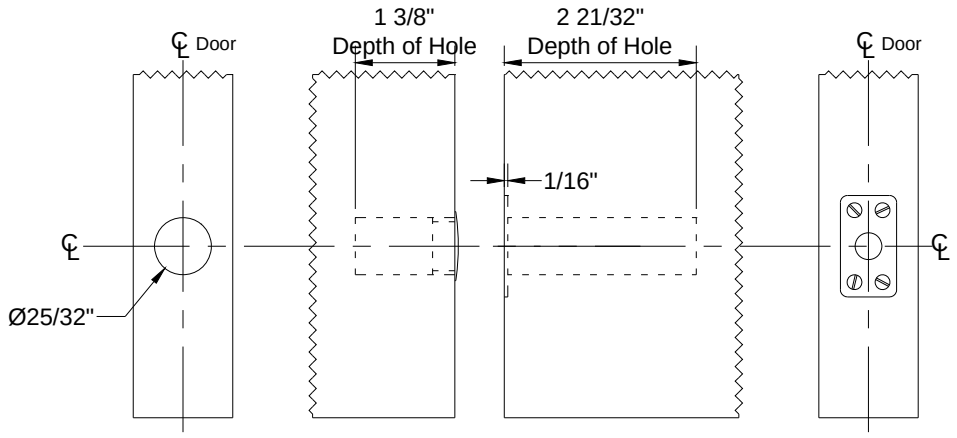
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POSITIVE PRESSURE INSTALLATION INSTRUCTIONS

AUXILIARY FIRE LATCH



STRIKE LATCH

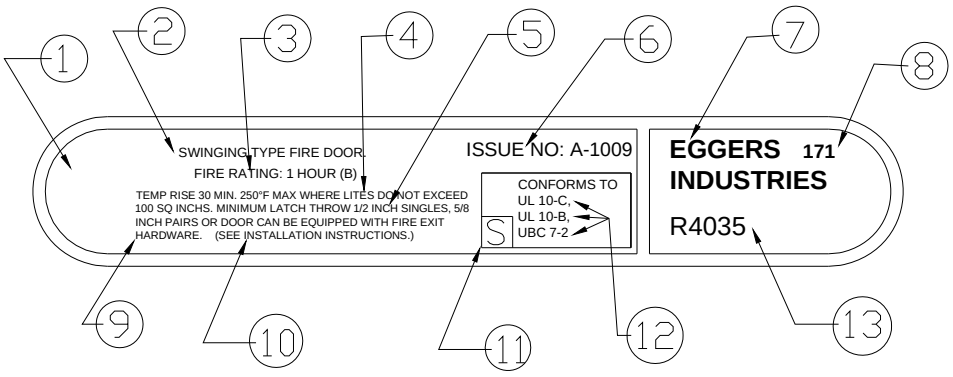
Several options are approved in our fire door procedures allowing auxiliary fire latches to be used in place of, or in addition to, bottom latching flush bolts, surface vertical rods, or concealed vertical rods. Where approved the fire door will be machined for the required fire latches.

The required latches are shipped in an accessory pack along with the doors, and must be installed to insure the fire protection rating. When the fire latches are required between the meeting stiles of pair doors the latch will be pre-machined in one door and the strike in the other door. Where the latch is required between the rail and floor, rail and frame header, or stile and frame jamb a corresponding strike must be machined in that surface opposite the fire latch. The strike hole should be covered with the plastic cap provided. Alternately, a dust proof strike of equal diameter may be used.

Note: Some hardware is furnished with its own auxiliary fire latches, and recommended fire latch locations. Where those locations or latch sizes vary from the door machining, the door machining takes precedence, and the hardware supplied with the door is to be used.

POSITIVE PRESSURE INSTALLATION INSTRUCTIONS

INFORMATION FOUND ON AN UNDERWRITERS LABORATORY LABEL



1. UL CLASSIFIED MARKING - Authorized mark verifying approval of label content
2. UL CATEGORY - Indicates product type
3. UL FIRE RATING - Hourly approval
4. TEMPERATURE RISE RATING - indicates the maximum temperature of the door face
5. MINIMUM LATCH THROW REQUIRED ON LOCK/LATCH.
6. MANUFACTURERS PERMANENT ISSUE NUMBER - This UL issued number indicates the label category. It replaces the earlier design using sequencial numbering.
7. MANUFACTURES NAME.
8. MANUFACTURES PART NUMBER.
9. STATES IF THE DOOR IS ELIGIBLE FOR FIRE EXIT HARDWARE.
10. REFERENCE TO INSTALLATION INSTRUCTIONS - Per code requirement, a packet of instructions are shipped with each fire door order. these are to aid the installer and are to be retained for the Authority Having Jurisdiction (AHJ) to use in determining code compliamce.
11. "S" MARK - Indicates the opening will meet smoke control requirements when gasketed per the installation instructions.
12. CONFORMANCE - Identifies the standard test methods the door has been evaluated to.
13. UL FILE NUMBER - The UL file established to document manufacturing approvals.

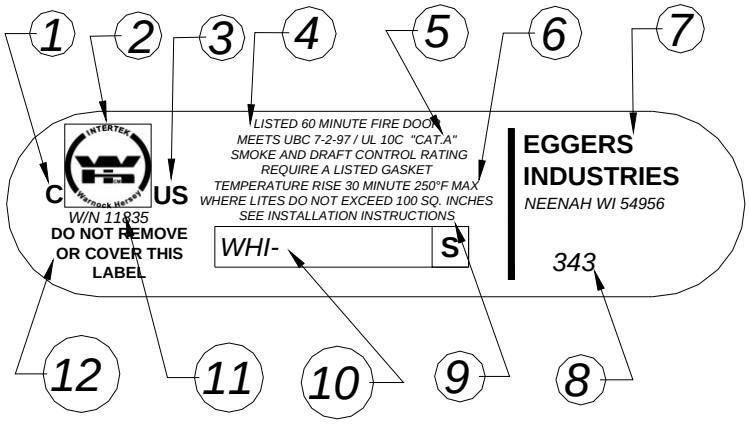
Eggers Industries
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INFORMATION FOUND ON A WARNOCK HERSEY LABEL

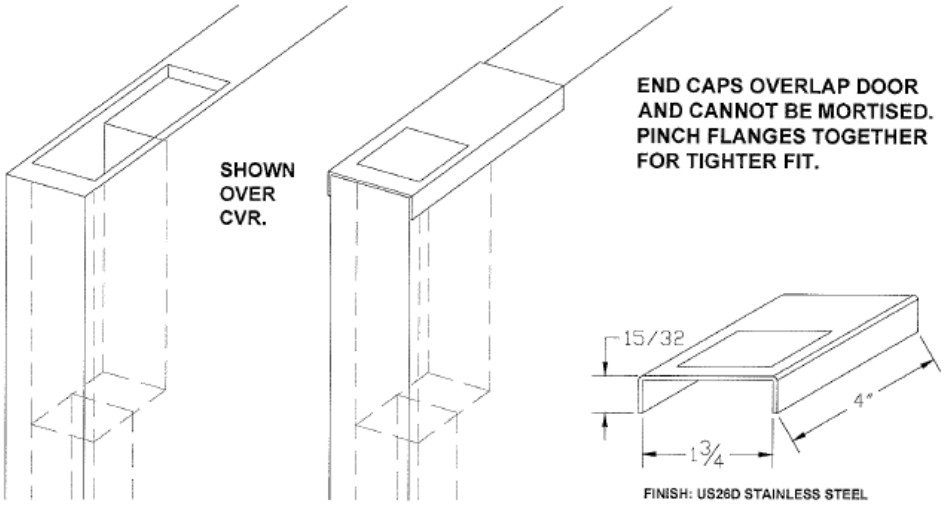


1. *Country identifier "C" for Canada and Hose Stream.*
2. *Warnock Hersey Certification Mark.*
3. *Country identifier "US" for United States.*
4. *LISTED, Fire Rating & Category "FIRE DOOR".*
5. *Positive Pressure & Smoke and Draft Control.*
6. *Limitation if a Temperature Rise door is required.*
7. *Listee's name and location.*
8. *Manufactures part number.*
9. *Due to changes in fire codes a set of Installation Instructions are sent with each order of fire doors. These instructions are to aid the authority having jurisdicion (AHJ) in determining if the opening is in code compliance.*
10. *Serial Number.*
11. *Intertek part number.*
12. *DO NOT REMOVE OR COVER THIS LABEL.*

INSTALLATION INSTRUCTIONS FOR METAL END CAPS FOR USE WITH CORNER MORTISED FLUSH BOLTS AND VON DUPRIN CVR HARDWARE

Note: This cap is not required for fire approval

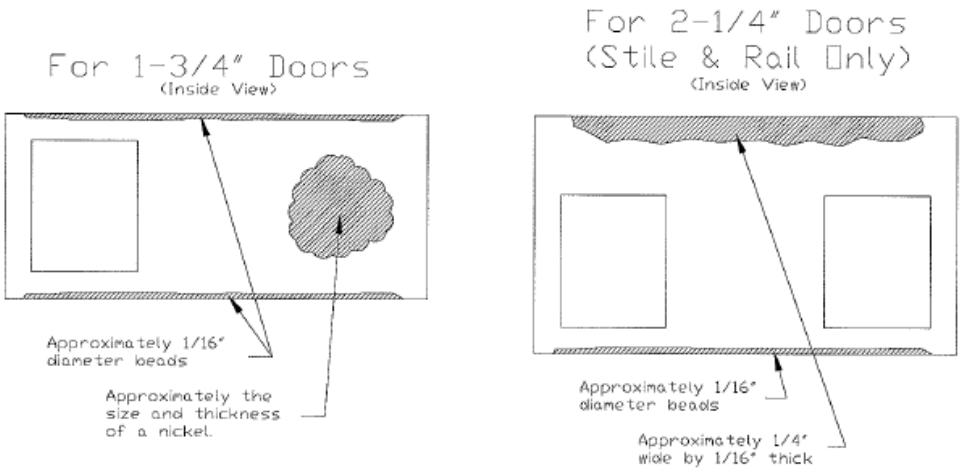
The caps described on this installation sheet must be attached to the top rail of doors machined for corner mortised flushbolts and Von Duprin CVR hardware to maintain warranty coverage. Eggers developed the stainless steel "end cap" to provide additional strength and to help prevent damage when these hardware applications are required. These caps were designed to be pinch fitted to the top rails and allow the latching bolt to project through the hole.



The instructions on the reverse side of this sheet describe the recommended method to provide permanent attachment of the cap for top and, optionally, bottom rail applications. These instructions assume clearances of at least 1/16" between the door and frame or sill. Adjust for proper clearance as needed before attaching the cap(s).

These instructions assume clearances of at least 1/16" between the door and frame or sill. Adjust for proper clearance as needed before attaching the cap(s).

1. Dry-fit the cap on the door, pinching or spreading the legs as needed to get a snug fit. Sanding the door edge lightly to increase the ease may provide a closer fit.
2. Mix an appropriate amount of 5-minute epoxy to cover to the shaded area of the cap (see drawings below).
3. Apply epoxy to the underneath corners and surface of the cap as shown below. Note the difference in application required based on the door thickness.
4. Apply the cap to the door using sufficient pressure to seat the cap tightly to the door rail. Failure to seat the cap tightly to the rail may result in binding.
5. Secure the cap in position, using "painters" masking tape, until the adhesive is cured.
6. Remove the tape and clean the door surface.



Eggers Industries

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Steel Frame Installation for Acoustic Doors

Installation Instruction T-102

Date: December, 2011

Eggers Industries

This instruction is provided as a guide for the installation of steel frames for use with Eggers acoustic doors. These instructions provide important details to insure an opening that will maintain the tested STC rating. They are not intended as a step-by-step instruction, and assume installer qualification and experience.

Most of Eggers acoustic doors have been tested in solid grouted steel frames. Specific applications or ratings may be installed in insulation-filled frames. See Eggers product offering chart for options.

1. Insure the frame is properly dimensioned for the ordered door size. The opening width at the header must be 1/8” wider than the door (+/- 1/16”) to insure proper sealing and fit.
2. The spreader bar typically supplied in the frame is primarily for shipping. It should be removed prior to installation.
3. Do not install frames that are damaged, twisted or warped.
4. Frames must be installed plumb, square and without twist to insure proper operation and sealing.
5. The floor, sill or threshold provide the fourth side of the opening and must be level and perpendicular to the frame jambs.
6. The frame must be filled with masonry grout or mineral wool as required by the STC rating (see Eggers product offering chart).
7. The frame must be securely anchored within in the opening to prevent movement or sagging when the door is installed and operated.
8. All joints between the frame and wall and between the sill (or threshold) and floor must include a continuous seal with an acoustic sealant.

Eggers Industries

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HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Chemical or Common Name **CAS #**	**%**	**Exposure Limits**	
Calcium Silicate CAS #1344-95-2	51-73	OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA	15mg/m^3 (a) 5mg/m^3 (b) 10mg/m^3 (c)
Inert Ingredients • Proprietary CAS # Proprietary	6-9	OSHA PEL-TWA OSHA PEL-TWA ACGIH TLB-TWA	15mg/m^3 (a) 0.1mg/m^3 (b) 0.1mg/m^3 (d)
Wood CAS # None	4-8	ACGIH TLV-TWA OSHA PEL-TWA	1mg/m^3 (e) 2.5mg/m^3 (f)
Resin Solids CAS # None	<1	None Established	
Composite Material • Proprietary CAS # Proprietary	0-15	OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV OSHA PEL-TWA ACGIH TLV-TWA OSHA PEL-TWA ACGIH TLV-TWA	15mg/m^3 (a) 5mg/m^3 (b) 10mg/m^3 (c) 0.1mg/m^3 (b) 0.1mg/m^3 (b) 5mg/m^3 (a) 10mg/m^3 (a)
Door Faces • Wood CAS # None • Paper (cellulose) CAS #9004-34-6 • Plastic CAS # None	17	See Above OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA	15mg/m^3 (a) 5mg/m^3 (b) 10mg/m^3 (a) 15mg/m^3 (a) 5mg/m^3 (b) 10mg/m^3 (a)

(a) total dust
(b) respirable dust
(c) total dust containing no asbestos and <1% crystalline silica
(d) respirable fraction containing respirable quartz
(e) selected hardwood total dust (beech, oak, others)
(f) western red cedar total dust

Based on 1989 OSHA Permissible Exposure Limits (PEL)

Note: Neither calcium silicate nor inert ingredients (complex metal silicates, etc.) contain any asbestos. Free silica (quartz) may be present in 1-2% by weight.

Appearance and Odor: Doors with a variety of grain patterns and hues. The products have a slight aromatic odor. Wood component may contain alder, ash, aspen, basswood, beech, birch, bubinga, cherry, chestnut, cottonwood, cypress, elm, fir, gum, hemlock, hickory, koa, mahogany (true or false), mansonia, maple, oak (red or white), pine, poplar, spruce, teak and/or walnut.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (1 atm)	NAP
Vapor Pressure (mm Hg)	NAP
Vapor Density (Air=1; 1 atm)	NAP
Specific Gravity (H_2O=1)	0.297 (Mineral Core) 0.40-0.80 (Wood)
Melting Point	NAP
Evaporation Rate (Butyl Acetate=1)	NAP
Solubility in Water (% by weight)	<0.1%
% Volatile by Volume	0

FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): NAP
Flammable Limits:
LEL: See below under "Unusual Fire and Explosion Hazards"
UEL: NAP
Extinguishing Media: Water, carbon dioxide, sand, dry chemical
Autoignition Temperature (F or C): 400°F - 500°F (204°C - 260°C) - Wood
Special Firefighting Procedures: None
Unusual Fire and Explosion Hazards: Depending on moisture content and--more importantly—particle diameter, wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts.

REACTIVITY DATA

Stability: ( ) Unstable (X) Stable
Conditions to Avoid: NAP
Incompatibility (Materials to Avoid):
Wood Components: Avoid contact with oxidizing agents. Avoid open flame and areas of high radiant heat flux.
Material Core Components: ammonium salts (sulfates, nitrates, phosphates or halides), in the presence of water, react with mineral core to release small amounts of ammonium gas.

Hazardous Decomposition or By-Products:
Wood Components: Depending on moisture content, availability of oxygen and temperature, thermal decomposition products include carbon monoxide, carbon dioxide, water, various aldehydes (both aliphatic and aromatic), tars and carbon.
Hazardous Polymerization: ( ) May Occur (X) Will Not Occur

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Not applicable for product in purchased form. Dust generated from sawing, sanding, drilling or routing of this product may be vacuumed or shoveled after wetting for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA approved respirator and goggles where ventilation is not possible.

Waste Disposal Method: Dry land disposal is acceptable in most states if disposed of or discarded in its purchased form. It is, however, the user's responsibility to determine at the time of disposal whether their product meets RCRA criteria for hazardous waste. Follow applicable federal, state and local regulations.

Precautions to be Taken in Handling and Storage: No special handling precautions are required for product in purchased form. Keep in cool, dry place away from open flame and areas of radiant heat flux. Store in well-ventilated area.

Other Precautions: A NIOSH/MSHA approved respirator and goggles should be worn when the allowable exposure limits may be exceeded.

HEALTH HAZARD DATA

Primary Health Hazards: The primary health hazards posed by this product are thought to be due to exposure to dust generated from sawing, sanding, drilling or routing of this product.

Primary Route(s) of Exposure:

( ) Ingestion
(X) Skin (Dust)
(X) Inhalation (Dust)

Acute Health Hazards: *Signs and Symptoms of Exposure—Emergency and First Aid Procedures.*

- INGESTION: Not applicable under normal use.
- EYE CONTACT: Dust may cause mechanical irritation. Treat dust in eye as a foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.
- SKIN CONTACT: Wood dust(s) of certain species may elicit allergic contact dermatitis in sensitized individuals, as well as mechanical irritation resulting in hives. Get medical help if rash, irritation, or dermatitis persists.
- SKIN ABSORPTION: Not know to occur with normal use.
- INHALATION: High concentrations of dust may cause unpleasant deposit/obstruction in the nasal passages, resulting in runny nose, dry cough and/or sneezing. Remove to fresh air. Get medical help if persistent irritation, severe coughing or breathing difficulty occurs.

Medical Conditions Generally Aggravated by Exposure: Dust may aggravate preexisting respiratory conditions or allergies.

Chronic Health Hazards: Wood dust(s), depending on the species, may cause allergic contact dermatitis with prolonged, repetitive contact, and respiratory sensitization after prolonged exposure to elevated dust levels. Long-term inhalation of silica dust may cause lung injury or disease (silicosis)).

Carcinogenicity Listing:

(X)	NTP	Crystalline silica
(X)	IARC Monographs	Crystalline silica
( )	OSHA Regulated	

Wood dust has been alleged to cause nasal/paranasal sinus cancer (certain European hardwoods: oak and beech).

Note: The IARC (International Agency for Research on Cancer) has categorized crystalline silica as a 2A carcinogen, meaning: (1) there is sufficient evidence for the carcinogenicity to experimental animals, and (2) there is limited evidence of the carcinogenicity to humans. The National Toxicology Program (NTP) has reported crystalline silica is reasonably anticipated to be a carcinogen, meaning there is limited evidence of carcinogenicity from studies in humans or sufficient evidence of carcinogenicity from studies in experimental animals.

CONTROL MEASURES

Personal Protective Equipment:

- RESPIRATORY PROTECTION: Not applicable for product in purchased form. A NOSH/MSHA approved respirator is recommended when allowable exposure limits may be exceeded.
- PROTECTIVE GLOVES: Not required. However, cloth, canvas or leather gloves are recommended to minimize potential mechanical irritation from handling product.
- EYE PROTECTION: Not applicable for product in purchased form. Goggles or safety glasses are recommended when machining this product.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
- WORK/HYGIENE PRACTICES: Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation. Minimize blowdown or other practices that generate high airborne-dust concentrations.

Ventilation:

- LOCAL EXHAUST: Provide local exhaust as needed so that exposure limits are met.
- MECHANICAL (GENERAL): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.
- SPECIAL: Self-contained breathing apparatus (SCBA) is recommended when fighting fire.
- OTHER: NAP.

TRANSPORATATION DATA:

DOT Proper Shipping Name: Not regulated.
Hazard Class/Division Number:
ID Number:
Packing Group:
Label/Placard Required:
DOT Hazardous Substance:

USER'S RESPONSIBILITY:

The information contained in this Material Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources believed to be accurate or otherwise technically correct. It is the user's responsibility to determine if this information is suitable for their applications and to follow safety precautions as may be necessary. The user has the responsibility to make sure that this sheet is the most up-to-date issue.

ADDITIONAL INFORMATION – Definition of Common Terms:

ACGIH = American Conference of Governmental Industrial Hygienists
C = Ceiling Limit
CAS # = Chemical Abstracts System Number
IARC = International Agency for Research on Cancer
MSHA = Mining Safety and Health Administration
NAP = Not Applicable
NAV = Not Available
NIOSH = National Institute of Occupational Safety and Health
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration
PEL = Permissible Exposure Limit
STEL = Short-Term Exposure Limit (15 minutes)
TLV = Threshold Limit Value
TWA = Time-Weighted Average (8 hours)

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CHEMICAL OR COMMON NAME CAS #	%	EXPOSURE LIMITS	
Wood CAS # None	75-93	OSHA PEL-TWA OSHA PEL-STEL ACGIH TLV-TWA WISHA PEL-TWA WISHA PEL-TWA	5mg/m^3 (a) 10mg/m^3 (a) 1mg/m^3 (b) 5mg/m^3 (c) 2.5mg/m^3 (d)
Door Faces • Wood CAS # None • Paper (cellulose) CAS #9004-34-6 • Plastic CAS # None	~ 17	See Above OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA	 15mg/m^3 (e) 5mg/m^3 (f) 10mg/m^3 (e) 15mg/m^3 (e) 5mg/m^3 (f) 10mg/m^3 (e)
Resin Solids (PVA) Vinyl Acetate CAS # None	<1	OSHA PEL ACGIH TLV-TWA ACGIH TLV-STEL	None Established 10 ppm (g) 15 ppm (g)

(a) softwood or hardwood total dust
(b) selected hardwood total dust beech, oak
(c) Non-allergenic total dust
(d) allergenic total dust
(e) total dust
(f) respirable dust
(g) free vinyl acetate

Appearance and Odor: Doors with a variety of grain patterns and hues. The products have a slight aromatic odor. Wood component may contain alder, ash, aspen, basswood, beech, birch, bubinga, cherry, chestnut, cottonwood, cypress, elm, fir, gum, hemlock, hickory, koa, mahogany (true or false), mansonia, maple, oak (red or white), pine, poplar, spruce, teak and/or walnut.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (F or C)	NAP
Vapor Pressure (mm Hg)	NAP
Vapor Density (Air=1)	NAP
Specific Gravity (H_2O=1)	0.40-0.80
Melting Point	NAP
Evaporation Rate (Butyl Acetate=1)	NAP
Solubility in Water	<0.1%
% Volatile by Volume @ 70°F	0

FIRE AND EXPLOSION HAZARD DATA
Flash Point (Method Used): NAP
Flammable Limits:
LEL: See below under "Unusual Fire and Explosion Hazards"
UEL: NAP
Extinguishing Media: Water, carbon dioxide, sand
Autoignition Temperature (F or C): 400°F - 500°F (204°C - 260°C)
Special Firefighting Procedures: None
Unusual Fire and Explosion Hazards: Depending on moisture content and–more importantly—particle diameter, wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts.

REACTIVITY DATA

Stability: ( ) Unstable (X) Stable

Conditions to Avoid: NAP
Incompatibility (Materials to Avoid): Avoid contact with oxidizing agents. Avoid open flame. Product may ignite at temperatures in excess of 400°F.

Hazardous Decomposition or By-Products: Depending on moisture content, availability of oxygen and temperature, thermal decomposition products include carbon monoxide, carbon dioxide, water, various aldehydes (both aliphatic and aromatic), tars and carbon.

Hazardous Polymerization: ( ) May Occur (X) Will Not Occur
Conditions to Avoid: NAP

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Not applicable for product in purchased form. Wood, paper or plastic dust(s) generated from sawing, sanding, drilling or routing of this product may be vacuumed or shoveled for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA approved respirator and goggles where ventilation is not possible.

Waste Disposal Method: Dry land disposal is acceptable in most states if disposed of or discarded in its purchased form. It is, however, the user's responsibility to determine at the time of disposal whether their product meets RCRA criteria for hazardous waste. Follow applicable federal, state and local regulations.

Precautions to be Taken in Handling and Storage: No special handling precautions are required. Keep in cool, dry place away from open flame. This product may release small amounts of gaseous formaldehyde. Store in well-ventilated area.

Other Precautions: A NIOSH/MSHA approved respirator and goggles should be worn when the allowable exposure limits may be exceeded.

HEALTH HAZARD DATA

Primary Health Hazards: The primary health hazards posed by this product are thought to be due to exposure to wood dust or free gaseous formaldehyde.

Primary Route(s) of Exposure:

( ) Ingestion

(X) Skin (Dust)

(X) Inhalation (Dust or Gas)

Acute Health Hazards: *Signs and Symptoms of Exposure—Emergency and First Aid Procedures.*

- INGESTION: Not applicable under normal use.

- EYE CONTACT: Gaseous formaldehyde may cause temporary irritation or a temporary burning sensation. Wood, paper or plastic dust(s) may cause mechanical irritation as a foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.

- SKIN CONTACT: Gaseous formaldehyde may cause allergic contact dermatitis in sensitized individuals, resulting in redness, itching and occasionally hives. Wood dust(s) of certain species may elicit allergic contact dermatitis in sensitized individuals, as well as mechanical irritation resulting in erythema and hives. Get medical help if rash, irritation, or dermatitis persists.

- SKIN ABSORPTION: Not know to occur with normal use.

- INHALATION: High concentrations of wood, paper or plastic dust(s) may cause unpleasant deposit/obstruction in the nasal passages, resulting in runny nose, dry cough and/or sneezing. Gaseous formaldehyde may temporarily irritate the nose and throat, and may aggravate preexisting respiratory conditions depending on the level of exposure. Remove to fresh air. Get medical help if persistent irritation, severe coughing or breathing difficulty occurs.

Medical Conditions Generally Aggravated by Exposure: Wood dust may aggravate preexisting respiratory conditions or allergies.

Chronic Health Hazards: Gaseous formaldehyde has been shown to cause cancer in certain laboratory animals after long-term exposure to very high concentrations (14+ppm), far above those normally found in the workplace with this product. Wood dust(s), depending on the species (for example, iroko, cocobolo), may cause allergic contact dermatitis with prolonged, repetitive contact, and respiratory sensitization after prolonged exposure to elevated dust levels (for example, western red cedar). Wood dust has been alleged to cause nasal/paranasal sinus cancer (certain European hardwoods: oak and beech).

Carcinogenicity Listing:

(X)	NTP	Formaldehyde
(X)	ARC Monographs	Formaldehyde
(X)	OSHA Regulated	Formaldehyde

CONTROL MEASURES - Personal Protective Equipment

- RESPIRATORY PROTECTION: Not applicable for product in purchased form. A NOSH/MSHA approved respirator is recommended when allowable exposure limits may be exceeded.
- PROTECTIVE GLOVES: Not required. However, cloth, canvas or leather gloves are recommended to minimize potential mechanical irritation from handling product.
- EYE PROTECTION: Not applicable for product in purchased form. Goggles or safety glasses are recommended when machining this product.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
- WORK/HYGIENE PRACTICES: Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation of this combustible material. Minimize blowdown or other practices that generate high airborne-dust concentrations.

Ventilation:

- LOCAL EXHAUST: Provide local exhaust as needed so that exposure limits are met.
- MECHANICAL (GENERAL): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.
- SPECIAL: Self-contained breathing apparatus (SCBA) is recommended when fighting fire.
- OTHER: NAP.

USER'S RESPONSIBILITY: The information contained in this Material Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources believed to be accurate or otherwise technically correct. It is the user's responsibility to determine if this information is suitable for their applications and to follow safety precautions as may be necessary. The user has the responsibility to make sure that this sheet is the most up-to-date issue.

ADDITIONAL INFORMATION – Definition of Common Terms:

ACGIH	=	American Conference of Governmental Industrial Hygienists
C	=	Ceiling Limit
CAS #	=	Chemical Abstracts System Number
IARC	=	International Agency for Research on Cancer
MSHA	=	Mining Safety and Health Administration
NAP	=	Not Applicable
NAV	=	Not Available
NIOSH	=	National Institute of Occupational Safety and Health
NTP	=	National Toxicology Program
OSHA	=	Occupational Safety and Health Administration
PEL	=	Permissible Exposure Limit
STEL	=	Short-Term Exposure Limit (15 minutes)
TLV	=	Threshold Limit Value
TWA	=	Time-Weighted Average (8 hours)
WISHA	=	Washington Industrial Safety and Health Administration

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CHEMICAL OR COMMON NAME CAS #	%	EXPOSURE LIMITS
Wood CAS # None	75-93	OSHA PEL-TWA 5mg/m^3 (a) OSHA PEL-STEL 10mg/m^3 (a) ACGIH TLV-TWA 1mg/m^3 (b) WISHA PEL-TWA 5mg/m^3 (c) WISHA PEL-TWA 2.5mg/m^3 (d)
Door Faces • Wood CAS # None • Paper (cellulose) CAS #9004-34-6 • Plastic CAS # None	~ 17	See Above OSHA PEL-TWA 15mg/m^3 (e) OSHA PEL-TWA 5mg/m^3 (f) ACGIH TLV-TWA 10mg/m^3 (e) OSHA PEL-TWA 15mg/m^3 (e) OSHA PEL-TWA 5mg/m^3 (f) ACGIH TLV-TWA 10mg/m^3 (e)
Resin Solids (PVA) Vinyl acetate CAS #None	<1	OSHA PEL – none established ACGIH TLV-TWA 10 ppm (g) ACGIH TLV-STEL 15 ppm (g)

(a) softwood or hardwood total dust
(b) selected hardwood total dust beech, oak
(c) Non-allergenic total dust
(d) allergenic total dust
(e) total dust
(f) respirable dust
(g) free vinyl acetate

Appearance and Odor: Doors with a variety of grain patterns and hues. The products have a slight aromatic odor. Wood component may contain alder, ash, aspen, basswood, beech, birch, bubinga, cherry, chestnut, cottonwood, cypress, elm, fir, gum, hemlock, hickory, koa, mahogany (true or false), mansonia, maple, oak (red or white), pine, poplar, spruce, teak and/or walnut.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (F or C)	NAP
Vapor Pressure (mm Hg)	NAP
Vapor Density (Air=1)	NAP
Specific Gravity (H_2O=1)	0.40-0.80
Melting Point	NAP
Evaporation Rate (Butyl Acetate=1)	NAP
Solubility in Water	<0.1%
% Volatile by Volume @ 70°F	0

FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): NAP

Flammable Limits:

LEL: See below under "Unusual Fire and Explosion Hazards"

UEL: NAP

Extinguishing Media: Water, carbon dioxide, sand

Autoignition Temperature (F or C): 400°F - 500°F (204°C - 260°C)

Special Firefighting Procedures: None

Unusual Fire and Explosion Hazards: Depending on moisture content and–more importantly—particle diameter, wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts.

REACTIVITY DATA

Stability: ( ) Unstable (X) Stable

Conditions to Avoid: NAP

Incompatibility (Materials to Avoid): Avoid contact with oxidizing agents. Avoid open flame. Product may ignite at temperatures in excess of 400°F.

Hazardous Decomposition or By-Products: Depending on moisture content, availability of oxygen and temperature, thermal decomposition products include carbon monoxide, carbon dioxide, water, various aldehydes (both aliphatic and aromatic), tars and carbon.

Hazardous Polymerization: ( ) May Occur (X) Will Not Occur

Conditions to Avoid: NAP

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- MECHANICAL (GENERAL): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.
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WISHA	=	Washington Industrial Safety and Health Administration

Care, Handling, and Maintenance

Installation Instruction 101

Date: September 2017

Eggers Industries

The information included in this guideline is presented to help maintain your high quality wood doors. It includes the same basic information published by the Window and Door Manufacturers Association in Industry Standard I.S.-1A, as well as additional instructions specific to maintaining specialty doors.

STORAGE AND HANDLING

1. Store doors flat on a level surface in a dry, well-ventilated building. Doors should be kept at least 4 in. (102 mm) off the floor and should have protective coverings under the bottom door and over the top. Covering should protect doors from dirt, water, and abuse but allow for air circulation under and around the stack.
2. Avoid exposure of interior doors to direct sunlight. Certain species (e.g., cherry, mahogany, walnut, and teak) are more susceptible to discoloration if exposed to sunlight or some forms of artificial light.
3. Do not subject interior doors to extremes of heat and/or humidity. Do not allow doors to come in contact with water. Buildings where humidity and temperature are controlled provide the best storage facilities (recommended conditions 25%-55% RH and 50°F-90°F (10°C to 32°C).
4. Do not install doors in buildings that have wet plaster or cement. Do not store doors in buildings with excessive moisture content – HVAC systems should be operating and balanced.
5. Doors should always be handled with clean dry hands or while wearing clean dry gloves.
6. Doors should be lifted and carried when being moved, not dragged across one another.

FINISHING

Eggers recommends factory finishing to insure the most durable surface and uniform appearance. Factory finishing will also slow the response to changes in humidity. The following points provide guidance for doors being field finished.

1. Wood is hygroscopic and dimensionally influenced by changes in moisture content caused by changes within its surrounding environment. To assure uniform moisture exposure and dimensional control, all surfaces must be finished equally.
2. Doors should not be considered ready for finishing when initially received. Before finishing, remove all handling marks, raised grain, scuffs, burnishes and other undesirable blemishes by block sanding all surfaces in a horizontal position with 150 or 180-grit sandpaper. Sanding of the overall surface will be required to open the veneer grain to receive a field applied finish evenly. To avoid cross grain scratches, sand with the grain.
3. Certain species of wood, particularly oak, may contain extractives which react unfavorably with foreign materials in the finishing system. Do not use steel wool on bare wood, rusty containers or any other contaminate in the finishing system.

4. A thinned coat of sanding sealer should be applied prior to staining to promote a uniform appearance and avoid sharp contrasts in color or a blotchy appearance. Eggers will not be responsible for the final appearance of field-finished doors. It is expected that the painting contractor will make adjustments as needed to achieve desired results.
5. The top and bottom rails are sealed at the factory. All other exposed, unfinished wood surfaces should be finished. Cutouts for hardware in exterior doors and doors located adjacent to areas where high moisture is expected should be sealed prior to installation of hardware.
6. Dark colored finishes should be avoided on all surfaces if the door is exposed to direct sunlight, in order to reduce the chance of warping or veneer checking.
7. Water-based coatings on unfinished wood may cause veneer splits, highlighted joints and raised wood grain. If used on exterior doors, the coating should be an exterior grade product. When installed in exterior applications, doors must be properly sealed and adequately protected from the elements. Refer to Eggers' warranty for protection requirements.
8. Be sure the door surface being finished is satisfactory in both smoothness and color after each coat. Allow adequate drying time between coats. Desired results are best achieved by following the finish manufacturer's recommendations.
9. Certain wood fire doors have fire retardant salts impregnated into various wood components. Lightly sand treated wood before finishing to remove any surface salt that may be present.

INSTALLATION

1. Eggers recommends factory machining of all doors to insure proper machining tolerances. All labeled doors are required to be machined under licensed inspection service by NFPA 80.
2. The utility or structural strength of the doors must not be impaired when fitting to the opening, in applying hardware, in preparing for lites, louvers, plant-ons or other detailing.
3. The general rule is to use two hinges for solid core doors up to 60 in. (1524 mm) in height, and an additional hinge for every 30 in. (762 mm) or fraction thereof. This matches the requirements for installing fire doors. Refer to Eggers warranty and approvals for special provisions. Consult hinge or pivot hardware manufacturer with regard to weight and size of hinges or pivots required.
4. The maximum clearance between the top, hinge edge and lock edge to the frame and meeting edge of pairs of doors, is 1/8 in. (3.2 mm). NFPA 80 allows a tolerance of +0 and -1/16″ to this dimension.
5. All hardware locations, preparations and methods of attachment must be appropriate for the specific door construction.
6. When lite or louver cutouts exist in exterior doors, they must be protected in order to prevent water from entering the door core.
7. Pilot holes must be drilled for all screws that act as hardware attachments. Full threaded screws should be used for fastening hardware to non-rated doors and are required on fire-rated doors. Eggers does not warrant the use of self-tapping or combination (wood/metal) screws for the attachment of hardware.

8. In fitting non-rated doors for height, do not trim top or bottom edge by more than 3/4 in. (20 mm) unless accommodated by additional blocking. Trimming of fire-rated doors must be in accordance with NFPA 80.
9. Doors and door frames should be installed plumb, square and level.

CLEANING AND TOUCHUP

1. Inspect all wood doors prior to hanging them on the job. Repair noticeable marks or defects that may have resulted from improper storage and handling.
2. Field repairs and touchups are the responsibility of the installing contractor upon completion of initial installation. Field touchup shall include the filling of exposed nail or screw holes, re-finishing of raw surfaces resulting from job fitting, repair of job inflicted scratches and mars and final cleaning of finished surfaces.
3. When cleaning door surfaces, use a non-abrasive commercial cleaner designed for cleaning wood door or paneling surfaces, that does not leave a film residue that would build up or affect the surface gloss of the door finish. Refer to Eggers' eiDoor Maintenance information bulletin for vinyl door requirements.

GENERAL ADJUSTMENT AND MAINTENANCE

1. Insure that all doors swing freely and do not bind in their frame. Adjust the finish hardware for proper alignment, smooth operation and proper latching without unnecessary force or excessive clearance.
2. Periodically inspect all doors for wear, damage and natural deterioration.
3. Periodically inspect and adjust all hardware to insure that it continues to function as it was originally intended.
4. Finishes on exterior doors may deteriorate due to exposure to the environment. See Eggers' warranty for refinishing requirements.

SPECIFIC ADJUSTMENT AND MAINTENANCE FOR ACOUSTIC DOORS

1. Fixed seals should be routinely wiped clean and inspected for damage. Components that are damaged or otherwise fail to provide a continuous seal between the door surface and fixed elements of the assembly should be replaced. Seals may be wiped with a silicone coated cloth to help reduce opening and closing friction.
2. Operational seals such as automatic door bottoms should be routinely wiped clean and inspected for damage. Damaged seals should be replaced. These components need to be checked for proper operation to insure they seal when the door is closed and retract when the door is opened to prevent wear or damage. Seals may require periodic adjustment, per the hardware manufacturer's instructions.
3. Extra attention should be given to the hinging, closing and latching hardware. Tighten or shim hinges, adjust closures, and adjust latch strikes as required to insure the door remains squarely in the opening and makes a uniform continuous contact with the acoustic seals.

Eggers Industries
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Stile and Rail Doors, Door Frames, Plywood, Veneered Components
Two Rivers Division
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Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

Flush Doors, eiDoor®
Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

TRUE STILE AND RAIL AND 5-PLY FLUSH DOORS
Warranty Information

Date: February, 2017

Eggers Industries

DURATION OF WARRANTIES

DOOR TYPE	INTERIOR USE	EXTERIOR USE
Particle, Agrifiber	Life of original installation	Not warranted
SCL	Life of original installation	Three years from date of original installation
Stave	Life of original installation	Not warranted
Plastic	Life of original installation	Not warranted
Mineral Core	Life of original installation	Not warranted
Acoustical	Life of original installation	Not warranted
Acoustical Airport – Flush	Life of original installation	Five years from date of original installation
Lead Shielded	Life of original installation	Not warranted
Stile & Rail - Non-Rated	Life of original installation	Three years from date of original installation
Stile & Rail - 20 Minute	Life of original installation	Not warranted
Stile & Rail - 45, 60, 90 Minute	Life of original installation	Not warranted
Full Lite Construction	Life of original installation	Not warranted
Bullet Resistant	Life of original installation	Three years from date of original installation
Foam Core	Life of original installation	Not warranted

All doors manufactured by EGGERS INDUSTRIES of Neenah, Wisconsin and EGGERS INDUSTRIES of Two Rivers, Wisconsin (hereinafter referred to as Eggers) are warranted to be free from defects in material and workmanship which would render them unserviceable or unfit for the ordinary, recommended use for the time periods as set forth below. This warranty automatically applies to purchasers of doors from Eggers and extends on resale of the product. Claims should be processed through the intermediate suppliers. It is the responsibility of Eggers' intermediate suppliers to make the initial jobsite visit on a complaint to verify the issue and collect necessary documentation (i.e., sizes, pictures, etc.). On occasion, it may be necessary for Eggers to send a representative to the jobsite. If an Eggers representative is required to go to the jobsite and the issue is determined not be a manufacturer's issue, then the intermediate supplier will be charged for all applicable expenses related to the jobsite visit.

LIMITATIONS OF LIABILITY

Eggers shall not be liable for incidental, indirect or consequential damages arising from the manufacture, use or sale of these goods. (This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.) Eggers' liability is expressly limited to the repair or replacement of non-conforming goods or the refund of the purchase price, at the option of Eggers

If any door becomes defective after installation, Eggers agrees to bear the **reasonable expense** of repairs, rework, machining, finishing, removing and rehanging such repairs. Rework, removal and rehanging shall be performed only after approval is obtained from Eggers and the cost of such work has been determined. **In the event the defect for which the doors are being rejected was apparent prior to hanging, Eggers is not obligated to pay removal and rehanging charges.**

NOTICE REQUIREMENT

Since Eggers cannot control the handling or exposure of doors after shipment, a specific duty of inspection is imposed upon the purchaser as a condition precedent to any claim under this warranty. Such inspection must be made upon receipt of the goods and written notice of any claim must be received by Eggers within 30 days of receipt of the goods, or discovery of the defect. NO CLAIM UNDER THIS WARRANTY SHALL BE ACTIONABLE UNLESS THE FOREGOING NOTICE IS GIVEN AS SET FORTH HEREIN.

It shall not be the policy of Eggers Industries to inspect finished installations for the sole purpose of certifying that the installation is within warranty.

MATTERS EXCLUDED FROM THIS WARRANTY

TRUE STILE AND RAIL AND 5-PLY FLUSH DOORS
Warranty Information

Date: February, 2017

Eggers Industries

Since methods and conditions or installation and use are beyond the control of Eggers, this warranty is not effective unless the doors are stored, handled, finished, used and installed in strict accordance with the provisions set in the following guidelines of this warranty.

Eggers Door Warranty
Tolerances, Exclusions and Instructions

TOLERANCES

1. Stile, rail and core show-through (telegraphing) shall not be considered a defect unless the face of the door varies from a true plane in excess of 1/100 (.010) in any 3 span.
2. Warp shall not be considered a defect unless it exceeds 1/4 in the plane of the door itself. For doors 1-3/4″ or thicker, warp shall not exceed 1/4 in doors 3'6″ x 7'0″ or smaller, nor shall it exceed 1/4 in any 3'6″ x 7'0″ section of larger doors. For doors less than 1-3/4 thick, warp shall not exceed 1/4 in doors 3'0″ x 7'0″ or smaller. Warp is any distortion in the door itself and does not refer to the relationship of the door to the frame, jamb, or adjacent doors. Warp is measured by placing a straight edge on the concave face and determining the maximum distance from straight edge to door face.
3. Tolerances for all applied moulding locations are ± 1/8″ reference to all margins.

HANDLING, FINISHING AND INSTALLATION INSTRUCTIONS

1. Store doors flat on a level surface in a dry, well-ventilated building. Protect doors with an opaque covering that does not permit light to penetrate to keep the doors clean and avoid discoloration. Covering must allow air circulation. If doors are to be stored more than a week, all edges should be sealed. Deliver doors or frames to building site after HVAC system is operating and balanced and plaster or cement is dry.
2. Doors should not be subjected to extreme heat and/or humidity. Relative humidity should not be less than 25% or greater than 55% and temperatures should not be less than 50 degrees F. or greater than 90 degrees F.
3. Handle with clean gloves and do not drag doors across one another or across other surfaces.
4. The utility or structural strength of the doors must not be impaired in the fitting of the door, the application of hardware or cutting and altering for lites, louvers, panels or any other special details.
5. Use three hinges for doors 7'6″ in height or less, and one additional hinge for each incremental 30 of height over 7′6″.
6. Allow a fitting clearance of 1/16″ to 1/8″ at each side and at the top.
7. Seal all edges immediately after field fitting.
8. Prior to field applied finishes, doors must be sanded. The finisher should thoroughly sand the doors with 150-grit sandpaper going with the grain direction of the veneer. A hand block should be used to remove all scuffs, handling marks, scratches, raised grain, burnishes and effects of exposure to moisture that may occur during handling, unloading and storage.
9. Some woods, particularly oak, contain chemicals which react with iron. Do not use steel wool on oak doors.
10. Doors prefinished at the factory should be checked against approved finish sample prior to hanging. (Installation of prefinished doors shall constitute acceptance.)
11. Stile and rail doors not prefinished at the factory must be stained and sealed, or painted, within 10 working days after the doors arrive from Eggers. Stile and rail doors supplied to Hawaii or Alaska must be factory finished.
12. Pilot holes must be drilled for all screws that act as hardware attachments. Self-tapping or combination wood/metal screws are not warranted for use on wood doors.

EXCLUSIONS

This warranty does not cover:

1. The appearance of field finished doors.
2. Natural variations in the color, texture, character, or cut of the wood.
3. Doors with cutouts closer than 5″ to the door edge or doors with adjacent cutouts such as hardware, lites, louvers, etc. closer than stated minimums.
4. Doors which have cutout areas exceeding 54″ door height. However, waivers in writing from the factory are available on a per job basis. This exclusion is waived on special full lite construction warranted for life of original installation for interior use.
5. Doors that are improperly hung and door frames that are not plumb, square and level and do not allow the door to swing freely.
6. Warpage of doors less than 1-3/4 thick which are wider than 3'0″ or higher than 7'0″.
7. Normal wear and tear including wear-through of finish.
8. Doors supplied outside the United States for telegraphing or warpage unless approved by the factory.
9. Cracking of plastic laminated surfaced doors with openings cut by other than Eggers or its authorized representative. Radius of 1/4 at corners of openings must be maintained.
10. Incompatibility of hardware with a particular door construction. This includes mortises such as concealed closers, magnetic holders, etc. deeper than 2″ or wider than 1-1/4″ and concealed vertical rod devices, unless special reinforced construction is ordered.
11. Constructions involving different species, face materials, or veneer grain configurations on opposite sides of the door. This includes doors with different plastic colors or patterns on each face. This may create an unbalanced condition not warranted against warpage, cracking, delaminations, etc. Exclusion may be waived for SCL core flush doors or stile and rail doors with proper approval in the form of a letter from manufacturing.
12. Constructions, other than flush SCL, involving appliques (excluding applied moulding) that are applied to only one face of the door.
13. Doors that are not stored as outlined in the Handling, Finishing and Installation Instructions.
14. Doors stored longer than six months.

TRUE STILE AND RAIL AND 5-PLY FLUSH DOORS
Warranty Information

Date: February, 2017

Eggers Industries

15. OEM's warranty applies to all accessories supplied by Eggers.
16. Doors that have any form of face grooving which penetrate the crossbanding in excess of limitations set by the factory.
17. Doors altered by others for size by re-railing or re-stiling or refacing or defects resulting from other machining or alterations performed by others.
18. Stylus moulding on one side of the door. Applied moulding on one side of door if moulding is over 1-3/4″ wide, 3/4″ high or over 24 lineal feet. Miter joints and flatness on mouldings over 3″ in width.
19. Doors up to 7'6″ in height with less than three hinges and doors with less than one additional hinge for each incremental 30 of height over 7'6″. This exclusion is waived on non-rated particle, agrifiber, or stave core up to 8'0″, stile & rail doors up to 8'0″ and SCL core doors up to 9′0″ when installed with top and bottom pivot hardware.
20. Doors machined for corner mortised flush bolts unless installed with metal edges or flush bolt cap.
21. Doors machined for specified concealed vertical rods unless installed with metal CVR cap. Consult factory for applicable CVR devices.
22. Lites not glazed by Eggers, including glass breakage and damage to the door.

NOTE: Action on any claim for warp or telegraphing defects may be deferred at the option of the manufacturer for a period not to exceed 12 months to permit conditioning of the doors to temperature and humidity conditions.

EXTERIOR FLUSH AND STILE AND RAIL DOOR GUIDELINES
An exterior door is defined as one that cannot be controlled on both sides for temperature and humidity.

When exterior doors are machined for hardware or a lite opening, opportunity exists for moisture penetration into the door which will eventually cause deterioration. Therefore, the existence of the following conditions will void the warranty for exterior installations:
1. Doors installed outside the continental 48 states.
2. Failure to double seal all machined surfaces including openings and hardware cuts with exterior sealer.
3. Failure to properly protect lite cutouts in exterior doors to prevent moisture from seeping into the core. Lip mouldings and exterior caulk are required. The top of an exterior door must be properly protected by flashing (except STC doors for airport housing).
4. Failure to provide adequate overhead protection. Adequate overhead protection includes a maximum of 4 ft. between the top of the door and the bottom of the overhead, a minimum overhead protection of 4′ out from the face of the door and a minimum protection extension of 4′ out from each side of the door.
5. Failure to provide the entire door including top and bottom edges with two coats of a good quality paint, varnish or lacquer.
6. This warranty does not cover telegraphing and checking of exterior doors.

Additional Exterior Guidelines
1. Eggers will not quote the Stylus door for an exterior application.
2. Eggers will not quote exterior doors with concealed hardware (vertical rods, flush bolts and closers/holders/stops).
3. Eggers will not quote exterior doors with machining for pivots and magnetic switches in the top rail of the door.
4. Eggers will not quote exterior doors with louvers.
5. Eggers will quote 20-minute flush doors for exterior applications.
6. Eggers will not quote 45, 60 and 90-minute flush doors for exterior application.
7. Eggers will not quote doors for applications with applied moulding and reveals.
8. Eggers will not quote 20, 45, 60 and 90-minute stile and rail doors for exterior applications.

Exterior finishes should be used on the exterior faces and all edges of exterior doors. A complete and continuous finish must be maintained on all surfaces of the door and must be refinished annually.

Airport Housing Projects
STC doors have been approved for residences around airports in Southern California and the Southwest with a five-year warranty. Contact the factory regarding exterior STC door requirements for airport housing projects in other locations. Top flashing not required on STC doors.

It should be noted that both the WDMA and AWI Standards indicate that wood doors are not recommended for exterior use.

Eggers Industries
www.eggersindustries.com
sales@eggersindustries.com

Stile and Rail Doors, Door Frames, Plywood, Veneered Components
Two Rivers Division
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Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

Flush Doors, eiDoor®
Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces, Custom Wood Products, Plywood
Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.845.0615

STANDARD TERMS OF SALE

Date: January, 2017

Eggers Industries

1. **Purpose and Acceptance of Order** – These terms are presented to avoid a misunderstanding between the customer and the vendor. Our acceptance of your order is expressly conditioned upon your confirming the accuracy of your order as acknowledged and your acceptance of our terms and conditions set forth. Our terms and conditions may be different from or additional to the terms of your purchase order.
2. **Credit Terms** - If vendor extends credit to customer, payment terms shall be Net 30 days from date of invoice. Vendor may change or withdraw credit amounts or payment terms at any time for any reason. If customer fails to make any payment when due, vendor may suspend or cancel performance on any orders in which vendor has extended credit to customer. Vendor's' suspension of performance may result in rescheduling delays. If, in vendor's judgment, customer's financial condition does not justify the payment terms specified herein, then Eggers may require customer to immediately pay for all materials that have been shipped/delivered and pay in advance for all materials yet to be shipped/delivered. Suspension in accordance with this clause shall not affect vendor's right to pursue any other available remedies.
3. **Price** – These prices are based on the order as written, not necessarily on your inquiry or original quotation. Prices as shown on the acknowledgment are final and will be invoiced on the date of shipment.
4. **Cancellation of Order** – Upon cancellation of an order in process, billing will be made to the customer for all work and materials expended up to the cancellation date. The order will be completed and/or materials shipped only at specific request of the customer. It is the manufacturer's option to use any materials from a cancelled order elsewhere, anytime following the cancellation of the order, and cancellation charges are based on this option.
5. **Change/Revision Charge** – Any change to an order that has already been released out of sales will be assessed a charge of $250/order plus any applicable material and labor costs associated with the change.
6. **Damaged Material** – This material will be carefully inspected and in good condition when accepted by the carrier. If damage occurs, it is your responsibility to immediately notify the transportation company to make an inspection prior to discarding packaging material. If packaging material is damaged, you must make the request upon receipt of the materials. The customer must not sign an inspection receipt that puts responsibility of damage on the shipper because of insufficient protection of materials without the consent of the shipper. If you feel the damage occurred prior to shipping, or is our responsibility, contact our company representative. The packaging material must be saved for our inspection. We will accept full responsibility for damaged material only if all of the above procedures are followed.
7. **Freight Allowance** – All quotations made with freight allowance are FOB Factory and based on method of shipment quoted. Should the customer request an alternate method of shipment, additional freight charges will be assessed.
8. **Required Customer Information** – If the customer fails to supply adequate hardware machining information or fails to agree on a finish sample, the company reserves the right to credit the charges for these items and ship the door without pre-machining or pre-finishing the product.
9. **Appearance** – All doors must be visually inspected for face grade, color, match, and other defects by the customer prior to further work or installation. If manufacturing defects are detected after staining or sealing, no additional coat of finish may be applied without approval of the manufacturer. We are responsible for repairing or replacing material as originally furnished, but not refinishing or reinstallation if the defect could be detected prior to further work or installation.
10. **Sanding Prior to Finishing** – Prior to field applied finishes, doors must be sanded. The finisher should thoroughly sand the doors with 150-grit sandpaper going with the grain direction of the veneer. A hand block should be used to remove all scuffs, handling marks, scratches, raised grain, burnishes and effects of exposure to moisture that may occur during handling, unloading and storage.
11. **End Matching** – An end match variation of grain pattern is considered acceptable for face of panels of 3/8" and back of panels of 7/8".
12. **Storage and Installation Conditions** – It is the responsibility of the customer to store and install the product in an enclosed area where the relative humidity is maintained between 25% and 55%. Certain veneers such as Cherry, Mahogany, Teak, Walnut, etc. may be damaged if exposed to either sunlight or forms of artificial light. Cover doors to keep clean and avoid discoloration with an opaque covering which does not permit light to penetrate during storage or staging. Covering must allow for air circulation. If doors are to be stored for more than one week, all edges should be sealed.
13. **Industry Standards** – For items not covered by these Standard Terms of Sale, these industry standards apply:
    a. Hardwood Plywood Veneer Association (HPVA), or
    b. Window & Door Manufacturers Association (WDMA), or
    c. Architectural Wood Institute (AWI), or
    d. Woodwork Institute (WI)
14. **Warranty** – Our sole and exclusive warranty to you under this contract is that the goods sold pursuant to this Contract will be as described and be free of any defects in parts and workmanship, if used under normal circumstances and in accordance with any instructions given to you. Except as expressly provided to the contrary in

paragraphs 10 and 11. **WE EXPRESSLY DISCLAIM ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSES OF THE BUYER AS PROVIDED BY THE UNIFORM COMMERCIAL CODE.** It is also agreed that our remedies to you for your breach under this Contract shall consist of the following, any or all of which may be exercised by us at our sole option and no others:

a. Repair the product without charges to you,
b. Replace the product without charge in the same stage of installation and/or finishing as originally supplied to you, or
c. Refund the purchase price.

If requested by the customer, only an Eggers Warranty will be issued for the project upon receipt of full payment as acknowledged by Eggers.

15. **Consequential Damages** – In the event that we breach this Contract, we shall not be liable to you for any consequential damages arising out of such breach. In the event that any other term of this Contract is found unconscionable or unenforceable for any reason, or the remedies identified in paragraph 12 above fail of their essential purpose, the provision of waiver by agreement of consequential damages shall continue in full force and effect.
16. **Shipping Delays** – We are excused from performing any of our obligations under this Contract which are prevented or delayed by any occurrence not within our control, including, but not limited to, destruction or damage to the goods of our manufacturing plant, strikes or other labor matters, floods, fire, accidents, riots, explosion, or any regulations, rules, ordinances or orders of any governmental authority, federal, state, or local.
17. **Choice of Law** – The terms, rights, and obligations under this Contract shall be construed under the laws of the State of Wisconsin.

Cancellation Charge	
Orders not started in production	No charge
Order that is in production	$200 per order plus the cost of rework, restock, etc. as well as labor expended.
All Fast Track Orders	$200 per order plus the cost of rework, restock, etc. as well as labor expended.

Change/Revision Charge	
Any change to an order that has been released out of sales	$250/order plus any applicable material and labor costs associated with the change.

STANDARD TERMS OF SALE

Date: January, 2017

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Fax: 502.845.0615

eiDoor®

Eggers • Inpro • High Impact Protection

Eggers Industries

Eggers' doors are manufactured with Inpro's IPC® rigid sheet face material, and constructed to withstand the most demanding environments, including healthcare, educational, hospitality and other high-traffic facilities.



Turning nature's beauty into works of art

The eiDoor®

Two Edges, Endless Possibilities

Pair the strength and protection of IPC® Rigid sheet and the quality and performance of Eggers doors to make the eiDoor® - a supremely durable flush door that withstands high amounts of traffic and abuse while maintaining an attractive decor. The eiDoor® is the very essence of versatility.

The eiDoor® is available in the following constructions:

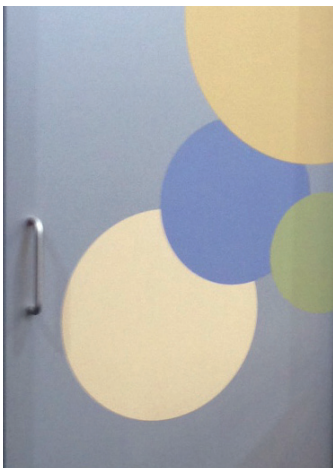
- Non-rated and fire-rated
- Acoustical (STC)
- LEED® contributing
- Bullet-resistant
- Lead-lined
- Fixed or removable edge



Additionally, eiDoor® faces are the perfect match to your facilities' other Inpro products. Face options include:

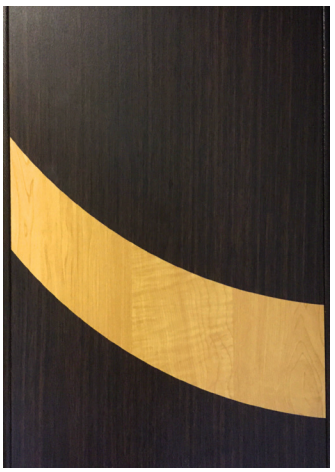
- Over 125 color, faux finish and wood grain patterns*
- Velvet texture that is durable and easy to clean
- PVC or non-PVC IPC Rigid Vinyl Sheets
- Sketchface designs also available

*Wood grain and faux finish patterns have a higher selling price than solid color faces.





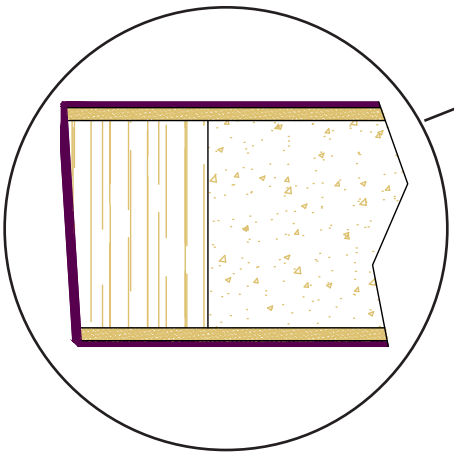


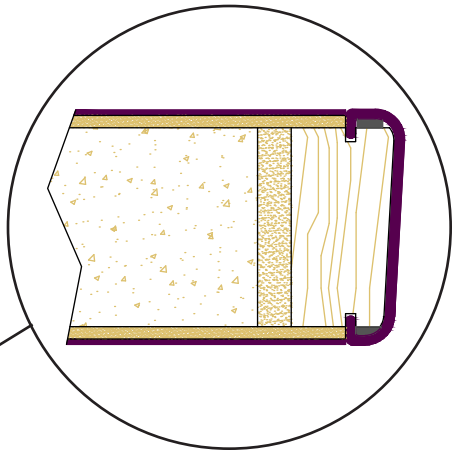


The eiDoor® with Fixed Edges

- Classic design blends in easily with other doors in the facility
- Vinyl clad edge provides additional protection in high-impact applications
- Available in non-rated through 90-minute, lead-lined, acoustical, bullet-resistant, and LEED® contributing constructions









The eiDoor® with Removable Edges

- Allows replacement of damaged door edges without replacing the entire door
- Rounded edge minimizes damage when the door comes in contact with beds, carts, and other large items moved in and out of rooms
- Edge cover has a slim profile, hiding the seam behind the door stop for a clean appearance
- Removable vinyl, non-PVC, or stainless steel edge cover is damage-resistant; however, if the edge is damaged, it can be easily replaced in the field on any door, without requiring a licensed machinist for the fire-rated doors
- Available in non-rated through 60 minute, in acoustical constructions, and LEED® contributing constructions

The eiDoor® WITH FIXED EDGES

	DOOR OPTIONS (NON-REMOVABLE EDGE)		VINYL CLAD
	20-Minute Single	**20-Minute Pairs**	**Non-Rated**
Maximum Size	4' x 10'	8' x 10' parallel and dbl egress	4' x 10' each leaf
Thickness	1-3/4" - 2-1/4"		
Core	Particleboard, stave, FSC® certified stave, structural composite (SCL), FSC certified structural composite, agrifiber, FSC certified particle core and no urea-formaldehyde particle core		
Max Door & Transom Non-Rabbetted	4' x 14' (w/bar) 4' x 12' (w/o bar)	6' x 14' (w/bar) 6' x 12' parallel swing only (w/o bar)	4' x 14' (w/ or w/o bar)
Stiles	Mill option		
Rails	Rails are optional on SCL core, 1-1/8" rails are standard on other core types (per standard core elevations)		
Reinforcements	None required for extra heavy-duty application SCL, stave, certified stave core or heavy-duty application particleboard. Required for extra heavy-duty application particleboard and all agrifiber duty levels.		
Faces	IPC® Rigid Sheet (PVC)* and G2 BioBlend® (non-PVC) - .040" (1mm) standard thickness		
Crossbands	1-11" high density fiberboard		
Lites	Up to 1296 sq. in. with particleboard and agrifiber cores; Up to 2866 sq. in. with SCL, stave, and certified stave cores. Factory glazing is recommended to comply with NFPA 80 standards.		
Louvers	Metal louvers up to 576 sq. in. where allowed by code		Wood or metal
Latching Hardware	Cylinders, mortised, unit or card locks with up to 5" backset Electrified locks are permitted/deadbolts as secondary latches		Most available latching hardware
Hinges	Per NFPA-80 - butts, pivots and continuous hinges (electrified hinges permitted)		
Electric Power Transfers	Any UL-listed power transfers		
Flushbolts	N/A	Automatic corner or extension bolts up to 36" or surface	Corner or extension bolts to 36"
Fire Exit Hardware	Rim, Mortised Exit	Rim or Mortised Exit, SVR or CVR (full or top rod only)	Rim, Mortised Exit, SVR, SVR-LBR, CVR, CVR-LBR
Closers, Stops, Holders	Listed surface or concealed hardware having a mortise up to 23-3/4" long x 1-1/2" deep x 1-3/8" wide, concealed tank body up to 11-1/4" long x 2-9/32" deep x 1-3/8" wide		Listed surface or concealed hardware with a mortise up to 1-1/2" deep by 1-3/8" wide
Edge Protection	Surface or mortised edge guards		
Drop Seals	Listed and approved surface, mortised or semi-mortised		
Viewers	Single viewer available up to 1" diameter, two available if less than 1"		Available
Magnetic Switches	Tubular or rectangular type switches where listed as fire door accessories		
Flat Panels	Allowed with painted - or stained - to - match wood beads		
Kickplates	Surface applied or mortised flush		
Special Details	Machining for hardware, installation of lites, louvers and raceways		
Acoustic Applications	STC 43 or 44 - call for details	N/A	STC 43 or 44 - call for details
Bullet-Resistant Applications	Levels 1, 2, 3, 6 & 7 in 1-3/4" door thickness; all levels (1-8) in 2-1/4" door thickness		
Lead-lined Applications	Available with 1/32", 1/16" and 1/8" total lead shielding		
Warranty	Life of original installation - not warranted for exterior installations		
Standards	WDMA I.S. 1A, AWS, NFPA-252, UL 10C, UL 10B, NFPA-80, IBC		

*Wood grain patterns have a higher selling price than solid color faces.

The eiDoor® WITH FIXED EDGES

	DOOR OPTIONS (NON-REMOVABLE EDGE)				VINYL CLAD	
	45-Minute Single	**45-Minute Pairs**	**60-Minute Single**	**60-Minute Pairs**	**90-Minute Singles**	**90-Minute Pairs**
Maximum Size	4' x 10'	Std & Dbl Egress: 8' x 8'	4' x 9'	Std & Dbl Egress: 8' x 8'	4' x 9'	Std & Dbl Egress: 8' x 8'
Thickness	1-3/4" - 2-1/4"					
Core	Mineral					
Max Door & Transom Non-Rabbetted	Single swing only: w/bar - 48" width and height, 132" overall; w/o bar - 42" width, 48" height, 120" overall					
Stiles	Per fire rating and hardware option selected					
Rails	Per fire rating and hardware option selected					
Reinforcements	Blocking is required for screw-attached surface hardware for all duty levels					
Faces	IPC® Rigid Sheet (PVC)* and G2 BioBlend® (non-PVC) - .040" (1mm) standard thickness					
Crossbands	1-11" high density fiberboard					
Lites	Up to 54" high and 1296 sq. in.; for temperature rise applications lites over 100 sq. in. must be fire resistant glazing					
Louvers	Fire-rated metal louvers up to 576 sq. in. and 24" max length or width dimension - where allowed by code					
Latching Hardware	Singles & Std Pairs: Cylinders, mortised, unit, or card locks with up to 5" backset. Electrified locks are permitted / deadbolts as secondary latches.					
Hinges	Per NFPA-80 - butts, pivots and continuous hinges (electrified hinges permitted)					
Electric Power Transfers	Any UL-listed power transfers					
Flushbolts	Automatic corner or extension bolts up to 24" on standard swing pairs only					
Fire Exit Hardware	Single Swing: Rim or mortised exits; Std Pair: Rim or mortised exits, surface vertical rods and concealed vertical rods (full or top rod only); DE Pair: SVR (full or top rod only) or CVR (top rod only)					
Closers, Stops, Holders	Listed surface or concealed hardware having a mortise up to 23-3/4" long x 1-1/2" deep x 1-3/8" wide					
Edge Protection	Surface or mortised edge guards				Surface edge guards	
Drop Seals	Listed and approved surface, mortised or semi-mortised					
Viewers	Single viewer available up to 1" diameter, two viewers if less than 1" diameter					
Magnetic Switches	Tubular or rectangular type switches where listed as fire door accessories					
Flat Panels	N/A					
Kickplates	Surface applied					
Special Details	Machining for hardware, installation of lites, louvers and raceways					
Acoustic Applications	N/A					
Bullet-Resistant Applications	N/A					
Lead-lined Applications	Available with 1/32", 1/16" and 1/8" total lead shielding				N/A	
Warranty	Life of original installation - not warranted for exterior installations					
Standards	WDMA I.S. 1A, AWS, NFPA-252, UL 10C, UL 10B, NFPA-80, IBC					

*Wood grain patterns have a higher selling price than solid color faces.

The eiDoor® WITH REMOVABLE EDGES

	DOOR OPTIONS (REMOVABLE EDGE)		VINYL CLAD
	20-Minute Single	**20-Minute Pairs**	**Non-Rated**
Maximum Size	4' x 8'	8' x 8" parallel and dbl egress	4' x 10' each leaf
Thickness	1-3/4"		
Core	Particleboard, stave, FSC® certified stave, structural composite (SCL), FSC certified structural composite, agrifiber, FSC certified particle core and no urea-formaldehyde particle core		
Max Door & Transom Non-Rabbetted	N/A	N/A	N/A
Stiles	Mill option		
Rails	Rails are optional on SCL core, 1-1/8" rails are standard on other core types (per standard core elevations)		
Reinforcements	None required for extra heavy-duty application SCL, stave, certified stave core or heavy-duty application particleboard. Required for extra heavy-duty application particleboard and all agrifiber duty levels.		
Faces	IPC® Rigid Sheet (PVC)* and G2 BioBlend® (non-PVC) - .040" (1mm) standard thickness		
Crossbands	1-11" high density fiberboard		
Lites	Up to 1296 sq. in. with particleboard and agrifiber cores; Up to 2866 sq. in. with SCL, stave, and certified stave cores. Factory glazing is recommended on fire rated doors to comply with NFPA 80 standards.		
Louvers	Metal louvers up to 576 sq. in. where allowed by code		Wood or metal
Latching Hardware	Cylinders, mortised, unit or card locks with up to 5" backset Electrified locks are permitted/deadbolts as secondary latches		Most available latching hardware
Hinges	Per NFPA-80 - butts, pivots and continuous hinges (electrified hinges permitted)		
Electric Power Transfers	N/A		
Flushbolts	N/A	Double-bored or Extension type available	
Fire Exit Hardware	Rim, surface vertical rods (full or top rod only) and mortised exit hardware		Rim, Mortised Exit, SVR, SVR-LBR
Closers, Stops, Holders	Listed surface or concealed hardware having a mortise up to 23-3/4" long x 1-1/2" deep x 1-3/8" wide, concealed tank body up to 11-1/4" long x 2-9/32" deep x 1-3/8" wide		Listed surface or concealed hardware with a mortise up to 1-1/2" deep by 1-3/8" wide
Edge Protection	Removable PVC, Non-PVC, or stainless steel cladding		
Drop Seals	Surface mounted		
Viewers	Single viewer available up to 1" diameter, two available if less than 1" diameter		
Magnetic Switches	Tubular or rectangular type switches where listed as fire door accessories		
Flat Panels	Allowed with painted - or stained - to - match wood beads		Available
Kickplates	Surface applied or mortised flush between the removable edges		
Special Details	Machining for hardware, installation of lites, louvers and raceways		
Acoustic Applications	STC 43 or 44 - call for details	N/A	STC 43 or 44 - call for details
Bullet-Resistant Applications	N/A		
Lead-lined Applications	N/A		
Warranty	Life of original installation - not warranted for exterior installations		
Standards	WDMA I.S. 1A, AWS, NFPA-252, UL 10C, UL 10B, NFPA-80, IBC		

*Wood grain patterns have a higher selling price than solid color faces.

The eiDoor® WITH REMOVABLE EDGES

	DOOR OPTIONS (REMOVABLE EDGE)		VINYL CLAD
	45-Minute Single	**45-Minute Pairs**	**60-Minute Single**
Maximum Size	4' x 8'	Std & Dbl Egress: 8' x 8'	4' x 8'
Thickness	1-3/4"		
Core	Mineral		
Max Door & Transom Non-Rabbetted	N/A		
Stiles	Per fire rating and hardware option selected		
Rails	Per fire rating and hardware option selected		
Reinforcements	Blocking is required for screw-attached surface hardware for all duty levels		
Faces	IPC® Rigid Sheet (PVC)* and G2 BioBlend® (non-PVC) - .040" (1mm) standard thickness		
Crossbands	1-11" high density fiberboard		
Lites	Up to 54" high and 1296 sq. in.; for temperature rise applications lites over 100 sq. in. must be fire resistant glazing. Factory glazing recommended on fire rated doors to comply with new NFPA 80 standards.		
Louvers	Fire-rated metal louvers up to 576 sq. in. where allowed by code		
Latching Hardware	Singles: Cylinders, mortised, unit, or card locks with up to 5" backset. Electrified locks are permitted / deadbolts as secondary latches.		
Hinges	Per NFPA-80 - butts, pivots and continuous hinges (electrified hinges permitted)		
Electric Power Transfers	N/A		
Flushbolts	N/A		
Fire Exit Hardware	Single Swing: Rim or mortised exits; Std Pair: Rim or mortised exits, SVR (full or top rod only); DE Pair: SVR (full or top rod only)		
Closers, Stops, Holders	Surface mounted		
Edge Protection	Removable PVC, Non-PVC, or stainless steel cladding		
Drop Seals	Surface mounted		
Viewers	Single viewer available up to 1" diameter, two viewers if less than 1" diameter		
Magnetic Switches	Tubular or rectangular type switches where listed as fire door accessories		
Flat Panels	N/A		Available
Kickplates	Surface applied		
Special Details	Machining for hardware, installation of lites, louvers and raceways		
Acoustic Applications	N/A		
Bullet-Resistant Applications	N/A		
Lead-lined Applications	N/A		
Warranty	Life of original installation - not warranted for exterior installations		
Standards	WDMA I.S. 1A, AWS, NFPA-252, UL 10C, UL 10B, NFPA-80, IBC		

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Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supersede those in print.

The FSC certification ensures responsible use of forest products. 215-07-15
Look for FSC certified products.

FSC
www.fsc.org
FSC® C019991
The mark of responsible forestry

RAINFOREST ALLIANCE CERTIFIED

CERTIFIED ARCHITECTURAL WOODWORK INSTITUTE QUALITY WOODWORK

CERTIFIED INDOOR AIR QUALITY

INDOOR ADVANTAGE GOLD BUILDING MATERIALS

Eggers Industries

eiDOOR® FAQs

eiDoor®
Eggers • Inpro • Impact Resistant

FACE AND EDGE MATERIAL

Face and edge material facts

- Standard solid colors.
- Woodland faux-wood patterns.
- Elements patterns.
- Velvet texture is standard for all rigid sheet, including G2 BioBlend®.
- Removable edge has a velvet texture.
- Solid color eiDoors are available with G2 BioBlend material.

What are the benefits of using G2 BioBlend?

Due to improvements in the manufacturing process, IPC® rigid vinyl sheet and non-PVC G2 BioBlend have no PBT's or off-gassing. Eggers' eiDoor also meets the rigorous indoor air quality emission requirements set forth by SCS Global Services and holds the SCS Indoor Advantage Gold Certification.

Does Rigid Sheet material fade?

While there is some UV protection, Rigid Sheet should not be exposed to direct sunlight for prolonged periods of time. Direct sunlight may cause the vinyl sheet to bubble from the change in temperature.

EDGE OPTIONS

What door edge options are available?

- PVC (fixed and removable)–solid colors, Woodland, and Elements patterns.
- Non-PVC G2 BioBlend (fixed and removable)–solid colors only.
- Removable stainless.

What is the significance of the removable edge?

- The rounded edge design minimizes damage when the door comes in contact with beds, carts, and other items being moved in and out of rooms.
- If the edge is damaged, it can be easily replaced in the field, without requiring a licensed machinist for the fire-rated doors.
- If only the lock edge is damaged, the edge can be replaced while the door is still hanging—saving time and money.
- eiDoor removable edges were created with design in mind. At just 7/16" thick, the removable edge is hidden behind an industry-standard 5/8" stop.
- The removable edge is twice as thick as the faces and also twice as thick as our fixed edge, offering supreme durability.

Are all doors available with a removable edge?

No, we offer 20-minute–singles, pairs, and double egress pairs; 45-minute–singles and pairs; and 60-minute–singles with a removable edge.

Inpro edge guards are sometimes requested, are these available on non-eiDoors?

Yes, they are available for non-eiDoors. Inpro will supply them to Eggers if requested.

Does the eiDoor's slim profile edge leave the edge/face vulnerable to impact?

No, the eiDoor went through an extensive slam test with no damage. The dimension of the removable edge covers the area most prone to impact.

eiDoor Eggers • Inpro • Impact

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FIRE-RATED eiDOORS®

Are 60-minute pairs of doors available with removable edges?

Currently, 60-minute pairs are still in the testing process for removable edges. These pairs are available with fixed edges.

Is it true replacement removable edges for fire-rated eiDoors are only available if they are stainless steel?

No, Eggers offers both removable vinyl and removable stainless steel for most fire-rated applications.

What fire ratings are available?

- Non-rated through 90-minute singles and pairs are available with fixed edges.
- Non-rated through 60-minute singles are available with removable edges.

HARDWARE APPLICATIONS

Are EPT's an option with fire-rated eiDoors?

Eggers can machine for EPT's on fire-rated eiDoors with fixed edges only.

Why are concealed vertical rods (CVR) not allowed on eiDoors with removable edges?

CVR's by Von Duprin, Precision, or Falcon are not currently compatible with the removable edge profile machining. The combination of the CVR channel and the removable edge return groove affects door integrity.

Why are EPT's not allowed on eiDoors with removable edges?

The hardware prep conflicts with the return groove for the removable edge profile, splitting the removable edge, and removing the attachment to the doors edge.





Why are 20/45/60-minute eiDoors not available with flush bolts and removable edges?

The prep required for corner flush bolts conflicts with the removable edge profile machining. Removable edge eiDoors can be prepped for extension or double bored flush bolts. Fixed edges are also an option.

SPECIALTY APPLICATIONS

What acoustical ratings are available with eiDoors?

Vinyl faces are available for most STC ratings and a couple of ratings actually call for vinyl only (STC 43 and 44). For more information regarding our diverse Soundwood acoustical capabilities, visit our Soundwood Product Navigator at: eggersindustries.com/eggers-soundwood-tool/

Are eiDoors suitable for exterior applications?

We do not suggest using an eiDoor in an exterior application.

What are the lead-lined options for an eiDoor?

1/32", 1/16", and 1/8" lead thicknesses are available on eiDoors with fixed edges.

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MISCELLANEOUS FAQs

eiDoors meet WDMA heavy duty construction. Can they also meet extra heavy duty construction as required in healthcare environments?

Eggers can build an eiDoor to heavy or extra heavy duty construction.

Under normal use, what is the estimated life-span of an eiDoor as compared to a standard plastic laminate door or a wood door with stainless steel edge guards?

The eiDoor is covered in Eggers' lifetime warranty on Eggers' website under eiDoor (see link below). Face material test data is also available for review using the same link.

Does the eiDoor qualify for "Made in America" product status?

Yes, all of Eggers' products qualify for the Buy American Act .

If the rigid sheet becomes scratched or gouged, is there a permanent fix or repair available in the field?

Inpro suggests using colored wax repair sticks, such as Mohawk's Fil-Stik™ to conceal damage to Rigid Sheet.

How difficult is it to replace the removable edge?

Ease of replacement is outlined in a video on Eggers' website under eiDoor (see link below).



Use the eiDoor link below on Eggers website (www.eggersindustries.com) to find important links:

http://eggersindustries.com/products/doors/wood-flush-doors/eidoor/

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eiDOOR® FAQs

eiDoor®
Eggers • Inpro • Impact Resistant



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Stile and Rail Doors, Door Frames, Plywood, Veneered Components

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Fax: 920.793.2958

Flush Doors, eiDoor®

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Architectural Veneer Faces, Custom Wood Products, Plywood

Kentucky Division
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Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supersede those in print.

The FSC certification ensures responsible use of forest products. 301-08-15

Look for FSC certified products.

R06.17

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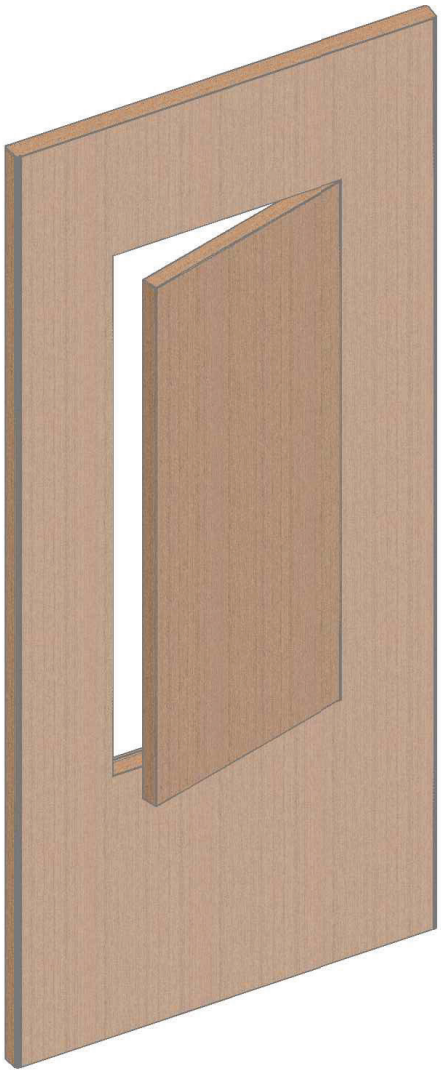
Introducing FLUSH DOORS for Behavioral Healthcare Facilities

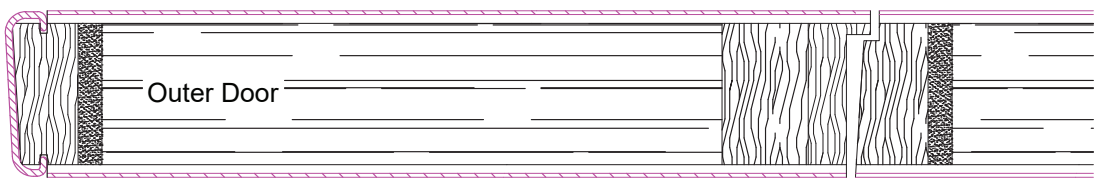
Doors in all healthcare environments are put to the test on a daily basis and behavioral healthcare facilities are no different. These doors must be designed with security, dependability and safety in mind.

Eggers' eiDoor® provides a beautiful, yet functional impact-resistant answer for these facilities. The addition of a wicket or *"Door within a Door"*, can provide healthcare professionals access to the patient's room in case of an emergency.

With patient safety being a primary benefit to this new offering, this door is an excellent choice for:

- Behavioral Healthcare Units
- Hospitals & Surgery Centers
- Rehabilitation Centers
- Senior Living Residences
- Correctional Institutions





ENGINEERING SPECIFICATIONS	FLUSH DOORS with a Wicket for Behavorial Healthcare Facilities	
	Non-Rated	**20-Minute**
Max. Size	4' x 8'	
Thickness	1-3/4"	
Core	Structural composite lumber (SCL), FSC® certified structural composite lumber	
Transoms	N/A	
Stiles	Solid lumber edges for removable edge construction; veneered structural composite lumber for fixed vinyl or veneer-banded edges	
Rails	No-rail construction is standard for SCL	
Faces	Inpro IPC® Rigid Sheet (PVC) and G2 BioBlend® (non-PVC) - 0.40" (1mm) standard thickness All domestic and foreign veneers, medium density overlay (MDO), and high pressure laminates are also available.	
Crossbands	1/11" high density fiberboard	
Wicket Specifications	• Wicket size determined by hardware, lites and edge margins • Location will be centered in the door • 10" minimum bottom rail required • 1/4" by 1/4" rabbet • Inside edges of cutouts will be painted/stained to match	
Lites	• Lites allowed based on minimum cutout dimensions between lite and wicket • 6" required between lite and wicket • 6" minimum stiles - 1-1/2" required between lock and lite cutout • 10" bottom rail required • Inside edges of cutouts will be painted/stained to match	
Louvers	N/A	
Latching Hardware	Cylinders, mortised, unit or card	
Hinges	Per NFPA 80 - butts, continuous hinges, pivots (electrical options available)	
Flushbolts	N/A	
Fire Exit Hardware	N/A	
Closers, Stops, Holders	Listed surface hardware or concealed hardware having mortise up to 23-3/4" x 1-1/2" x 1-3/8"	
Drop Seals	Listed and approved surface, semi-mortised or mortised	
Finish	Veneered and Paint Grade Doors: UV-cured, primed, painted (MDO only), sealer, full sealer, catalyzed polyurethane and opaque varnish	
Warranty	Life of installation (interior)	
Standards	WDMA I.S. 1A, AWS Section 9 Edition 2, NFPA 252, UL 10B, UL 10C, NFPA 80	

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Stile & Rail Doors, Door Frames, Plywood Veneered Components

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Flush Doors, eiDoor®

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Fax: 920. 722.0357

Architectural Veneer Faces, Custom Wood Products, Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.845.0615

SKETCHFACE

Not only constructed to withstand the most demanding environments, but now available in sketch face designs. Let Eggers' eiDOOR® express your creativity.

eiDOOR®

- Over 125 colors and wood grain patterns available
- Textured or Smooth Face Options
- PVC or non-PVC IPC Rigid Vinyl Sheet Available
- Removable or Fixed Edge
- Non-rated, Fire-rated, Acoustical (STC), Lead-lined, Bullet Resistant and LEED® Options
- Pair the Strength and Protection of IPC Rigid Vinyl Sheet with the Quality and Performance of an Eggers Door
- Sketchface designs offer numerous opportuntities to showcase the personality of your project
- Please see the eiDOOR® brochure for engineering specifications



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SOUNDWOOD ACOUSTICAL PRODUCTS

Eggers Industries melds technology with style to produce beautiful, high-performing acoustical doors and frames.

Eggers Industries

Soundwood™
ACOUSTICAL WOOD PRODUCTS BY EGGERS



Turning nature's beauty into works of art



SOUNDWOOD ACOUSTICAL PRODUCTS

Eggers' sound control openings have the highest STC ratings in the industry, made of solid wood and wood composite based materials. Our capabilities allow combinations of acoustical performance and other special functionalities to meet design requirements and building codes. Eggers' STC doors and frames are found in airports, healthcare, and hospitality facilities, government and municipal buildings as well as educational institutions. Typical applications of our acoustical doors and frames include performance venues, conference rooms, lecture halls, auditoriums, and classrooms.

Our acoustical products include doors and frames that have been evaluated for sound transmission at a qualified testing laboratory using ASTM standard test method E-90-XX (where XX refers to the year). To ensure applicable data, make certain the products you are specifying reference an acceptable revision date of the test method. Products tested with old standards may not provide the same level of performance as those tested with newer versions.

Acoustical Performance Testing Methods

There are two ways to test and report the acoustical performance of doors. The first is as a fixed panel. This is done by fully sealing the door to frame perimeter and eliminating any sound leaks around the door perimeter. This type of test is helpful in determining the performance of the basic construction, but does not represent an operational application.

The second method is to test an operable assembly. In this case, the door is installed in a frame, including hinging and latching hardware as well as a gasketing system. In addition to including all of the required components of an operable assembly, the test method requires the door be operated normally through five open/close cycles, without subsequent adjustments, prior to running the acoustic test. This test method provides more useful performance values than an inoperable test. When comparing STC ratings, be sure that the ratings represent operable doors. While Eggers conducts research and development tests of many of our constructions as sealed panels, the advertised STC numbers are always for operable assemblies.

Eggers has generally limited the variables tested to the door construction, application and the gasketing system. With a few notable exceptions shown on our product matrix, we have limited our testing to readily available hardware and gasketing materials, ADA approved thresholds (where applicable), and steel frames. A special note regarding frames is appropriate here. Where steel frames are used in testing, they are normally fully grouted with cement. This is a standard method of installation at testing laboratories and is done to insure the resulting STC rating represents only the doors and gasketing system. This is not meant to restrict the openings in which acoustic doors are used. In many circumstances, existing frames or installation conditions may prevent the use of a solid filled frame. Where other types of fill are used, an acoustic consultant should be employed to determine if the alternate fill will maintain the desired acoustic performance for the opening. As long as the framing provides an acoustic performance equal or greater than the door rating, the advertised STC will be maintained.

The relevance chart below is given as a general guideline of the effect various STC ratings have on speech being heard through the door.

Advantages of Eggers Acoustic Doors

Eggers has conducted acoustic tests on all of our standard door constructions. In many cases where the acoustics properties need to be known, but are not the primary objective, gasketing a standard door construction may be all that is required. When the project design requires acoustic performance above and beyond the standard doors, Eggers has designed and tested a full line of specialty constructions. Benefits offered by this broad range of products include:

STC Rating	Speech heard through the door
30	Loud speech can be understood fairly well
35	Loud speech audible but not understandable
40	Loud speech audible as a murmur
45	Loud speech barely audible
50	Loud speech not audible

- STC ratings ranging from 38 through 52
- Applications that include single swing, standard swing pairs, doors and transoms and dutch doors
- Acoustic rating for both flush doors and stile and rail doors.
- Applications without lites, with small lites (100 sq. in.), medium sized lites (400 sq. in.), large lites (1296 sq. in.) and even full lites
- Applications with 20-minute, 45-minute, 60-minute, and 90-minute fire ratings
- Applications that provide x-ray protection as well as acoustical performance
- Applications tested in wood frames
- Applications for airport housing noise abatement programs

Specialized Constructions

A variety of components are used to provide the performance range of our acoustic products, alone or in combination with applicable fire, bullet-resistance, and X-ray protection. These components make 4' x 8' the practical maximum door dimension. Contact the technical department for applications requiring larger doors.

Guaranteed STC Ratings

The STC rating of acoustic doors depends on two things: the components used (doors and gasketing) and their installation. While Eggers does not perform installation, we are still able to guarantee our doors meet the advertised STC ratings when properly installed using the door construction, hardware, seals, and where applicable, the lites described in our STC Product Offering Matrix. This guarantee is given with confidence because of the stringent tests we conduct on all acoustic assemblies. The Eggers name alone is your assurance of the highest standards possible.

While we encourage use of these tested assemblies, we also recognize the need for substitutions such as a different type of glazing or alternate gasketing. In such cases where there is no test report for the final assembly, Eggers will provide the same door construction used for the tested assembly, but without a “guaranteed” STC rating. This allows for increased design flexibility starting with a proven door construction. We recommend the use of an acoustic consultant to review the final assembly whenever substitutions are made.

As stated above, the final performance depends heavily on the installation. The best acoustic doors will fail to meet expectations if they are improperly installed. Acoustic applications are special, they generally involve close tolerances that require square and plumb openings. The acoustic assemblies have been designed such that the seals are uniform between the door and the fixed elements of the opening. Do not expect an acoustic door to compensate for poor frame installation. It is better to fix the opening before installing the door. Likewise, insuring properly installed and adjusted gasketing will avoid remedial work. Extra time spent ensuring a good installation will pay off in superior quality sound control.

When gasketing an acoustic opening, a good analogy is to think about sealing out sound like you would seal out light in a dark room. Wherever light can leak through the opening, so will sound. A simple field test after the assembly is fully installed is to close the door, turn out the lights on one side of the door and, after allowing your eyes to adjust to the darkness, inspect the seals for light leaking through the assembly. To further aid in this test, have someone shine a bright light around the perimeter on the opposite side as you inspect for leaks. Preventing or solving installation issues will address over 95% of unsatisfactory acoustic assemblies.

STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Single Swing	52	1-3/4"	NR	S or T	NA	---	---	12.0	C5765.03	SG14
	51	1-3/4"	NR	S, T, or U	NA	---	---	12.0	C5765.03	SG14
	51	2 1/4"	20	A	NA	---	---	15.8	TL94-37	SG6
	50	1-3/4"	NR	S, T, or U	NA	---	---	12.0	C5765.03	SG14
	50	1-3/4"	NR	S or T	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C5765.04	SG14
	49	1-3/4"	NR	U	NA	---	---	12.0	C5765.03	SG14
	49	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	49	1-3/4"	NR	S or T	NA	---	---	10.5	"E1460.03-113-11-R0 C7672.03A"	SG16A
	48	1-3/4"	NR	S, T, or U	NA	---	---	10.5	"E1460.03-113-11-R0 C7672.03B"	SG16A
	48	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	48	1-3/4"	20	A	NA	---	---	13.7	TL97-320	SG5
	48	2-1/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	15.8	TL95-350	SG6
	47	1-3/4"	NR	S, T, or U	NA	---	---	10.5	"E1460.03-113-11-R0 C7672.03A"	SG16
	47	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	47	2 1/4"	20	A	VP:110-D2	Pyroswiss / 1/2" Laminated	400 (max)	15.8	TL95-351	SG6
	47	1-3/4"	60-45	A	NA	NA	NA	15.7	TL03-023	SG8
	47	1-3/4"	60-45	S, T, or U	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	15.4	"E1460.05-113-11-R0 C7672.02K-113-17-R0"	SG8
	46	1-3/4"	NR	S, T, or U	NA	---	---	10.5	"1460.03-113-11-R0 C7672.03A"	SG16
	46	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	45	1-3/4"	20	A	NA	---	---	7.7	TL94-220	SG4
	44	1-3/4"	20	I	NA	---	---	7.7	TL10-134	SG4 (4)
	43	1-3/4"	NR	P	NA	---	---	7.9	100534284CRT-001k	SG4
	43	1-3/4"	20	A	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	100 (max)	7.7	TL03-020	SG4
	43	1-3/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	7.7	TL03-019	SG4
	43	1-3/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	13.6	TL03-022	SG5
	42	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	42	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	42	1-3/4"	NR	A	Bead: 107	1/2" Laminated	400 (max)	7.7	TL03-021	SG4
	42	1-3/4"	60-45	S	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	13.6	"E1460.06-113-11-R0 C7672.02M-113-17-R0"	SG13
	42	1-3/4"	60-45	T	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	13.6	"E1460.06-113-11-R0 C7672.02M-113-17-R0"	SG13

Non-rated openings STC45 or lower available with Eggers acoustic wood frame
FSC® certification is available where core type is PC, SCL, SLC, SG3, or SG11
All acoustic doors are available as "No Added UF" and "Phase 2 Carb Compliant"

STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Single Swing	41	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	41	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	41	1-3/4"	NR	B	Bead: 107	1/2" Laminated	400 (max)	6.5	TL03-012	SG3
	41	1-3/4"	NR	B	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	6.5	TL03-013	SG3
	41	1-3/4"	20	A	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	400 (max)	7.7	TL95-348	SG4
	41	1-3/4"	60-45	S or T	NA	---	---	13.6	"E1460.06-113-11-R0 C7672.02O-113-17-R0"	SG13
	41	1-3/4"	60-45	U	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	13.6	"E1460.06-113-11-R0 C7672.02N-113-17-R0"	SG13
	40	1-3/4"	45	S or T	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	7.6	"E1460.04-113-11-R0 C7672.02G-113-17-R0"	SG7
	40	1-3/4"	60-45	U	NA	---	---	13.6	"E1460.06-113-11-R0 C7672.02P-113-17-R0"	SG13
	40	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	40	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	40	1-3/4"	NR	M	Bead: 110	1-1/8" Non-Rated IGU	1296 (max)	6.7	TL10-141	SG3
	40	1-3/4"	20	B	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	400 (max)	7.7	TL95-347	SG4
	40	1-3/4"	90-60-45	C	NA	---	---	7.6	TL06-051	SG9
	39	1-3/4"	45	S	NA	---	---	7.6	"E1460.04-113-11-R0 C7672.02I-113-17-R0"	SG7
	39	1-3/4"	45	T	NA	---	---	7.6	"E1460.04-113-11-R0 C7672.02I-113-17-R0"	SG7
	39	1-3/4"	45	U	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	7.6	"E1460.04-113-11-R0 C7672.02H-113-17-R0"	SG7
	39	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	39	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	39	1-3/4"	90-60-45	I	NA	---	---	7.7	TL06-053	SG9
	38	1-3/4"	45	U	NA	---	---	7.6	"E1460.04-113-11-R0 C7672.02J-113-17-R0"	SG7
	38	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	38	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	38	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (max)	6.7	C7672.01B	SG3
	37	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (max)	6.7	C7672.01B	SG3
	37	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	37	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	37	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	Full Lite (min 47% of area)	5.9	TL05-052	SCL
	37	1-3/4"	60-45	I	VP: 115-L1	Firelite Plus / Leaded	100 (max)	10.3	TL05-126	SG13
	37	1-3/4"	20	I	Bead: 100	Firelite Plus	400 (max)	6.0	TL05-051	SG3
	36	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (max)	6.7	C7672.01B	SG3
	36	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	36	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	36	1-3/4"	20	P	NA	---	---	6.3	100534284CRT-001l	SG11

Non-rated openings STC45 or lower available with Eggers acoustic wood frame
FSC® certification is available where core type is PC, SCL, SLC, SG3, or SG11
All acoustic doors are available as "No Added UF" and "Phase 2 Carb Compliant"

STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Single Swing	36	1-3/4"	60-45	I	NA	---	---	10.2	TL05-125	SG13
	36	1-3/4"	20	N	NA	---	---	7.1	100534284CRT-001f	SG3
	35	1-3/4"	20	M	NA	---	---	10.0	TL10-142	BR3
	35	1-3/4"	90-60-45	U	NA	---	---	7.2	A5305.02-113-11	GC
	35	1-3/4"	NR	I	Bead: 107	1/2" Laminated	1296 (min)	6.2	TL10-138	PC
	35	1-3/4"	NR	O	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	7.3	TL10-144	SG11
	35	1-3/4"	20	I	NA	---	---	7.3	TL10-136	SG11
	35	1-3/4"	NR	I	NA	---	---	7.3	TL10-136	SG11
	35	1-3/4"	20	U	NA	---	---	7.3	TL10-136	SG11
	35	1-3/4"	NR	U	NA	---	---	7.3	TL10-136	SG11
	34	1-3/4"	NA	B	Bead: 107	1/2" Laminated	1296 (min)	6.2	TL10-138	PC
	34	1-3/4"	NA	I	LoPro IS	1/2" Laminated	400 (min)	6.1	TL10-135	PC
	33	1-3/4"	NA	I	Bead: 107	1/2" Laminated	400 (min)	6.1	TL10-133	PC
	33	1-3/4"	20	Q	NA	---	---	6.9	100534284CRT-001n	SCL
	32	1-3/4"	20	Q	NA	---	---	5.5	100534284CRT-001o 100534284CRT-001p	PC
	32	1-3/4"	20	I	NA	---	---	6.9	TL06-059	SCL
	32	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	6.9	TL06-059 & TL97-313	SCL
	32	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	6.9	TL06-059 & TL03-013	SCL
	32	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	6.9	TL06-059 & TL03-012	SCL
	32	1-3/4"	20	N	NA	---	---	6.9	100534284CRT-001b	SCL
	31	1-3/4"	20	I	NA	---	---	5.8	TL06-058, TL10-129	PC
	31	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	5.8	TL06-058 & TL97-313	PC
	31	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	5.8	TL06-058 & TL03-013	PC
	31	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	5.8	TL06-058 & TL03-012	PC
	31	1-3/4"	NR	N	NA	---	---	5.5	100534284CRT-001a	PC
	30	1-3/4"	20	I	NA	---	---	4.6	TL06-056	SLC
	30	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	4.6	TL06-056 & TL97-313	SLC
	30	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	4.6	TL06-056 & TL03-013	SLC
	30	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	4.6	TL06-056 & TL03-012	SLC
	29	1-3/4"	90-60-45	I	NA	---	---	4.4	TL06-057	MC
	27	1-3/4"	20	I	NA	---	---	4.9	TL07-035	AGR
	27	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	4.9	TL07-035 & TL97-313	AGR
	27	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	4.9	TL07-035 & TL03-013	AGR
	27	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	4.9	TL07-035 & TL03-012	AGR
Stylus	33	1-3/4"	20	I	NA	---	---	5.5	TL07-057	PC
	32	1-3/4"	20	I	NA	---	---	6.2	TL07-058	SCL
	31	1-3/4"	90-60-45	I	NA	---	---	4.3	TL07-059	MC

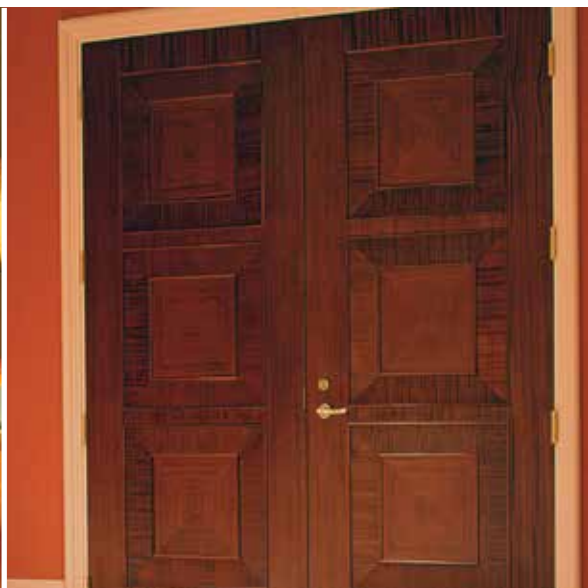
Non-rated openings STC45 or lower available with Eggers acoustic wood frame
FSC® certification is available where core type is PC, SCL, SLC, SG3, or SG11
All acoustic doors are available as "No Added UF" and "Phase 2 Carb Compliant"

STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Active-Inactive Pairs[1]	49	1-3/4"	20	A	NA	---	---	13.7	TL98-238	SG5
	44	1-3/4"	20	A	NA	---	---	7.7	TL98-236	SG4
	41	1-3/4"	20	B	NA	---	---	7.7	TL98-233	SG4
Flush Active-Active Pairs [2]	41	1-3/4"	20	K	NA	---	---	6.2	TL08-007	SG3
	40	1-3/4"	NR	K	Bead: 100	1/2" Laminated	400 (max)	6.3	TL08-009	SG3
	34	1-3/4"	45	K	VP: Lo-Pro IS	Superlite II-XL-45	Full Lite (min 47% of area)	6.5	TL11-111	MC
	31	1-3/4"	90-60-45	K	NA	---	---	7.2	TL11-110	GC
	31	1-3/4"	20	K	NA	---	---	6.4	TL11-112 TL11-113	SCL
Dutch Door	44	1-3/4"	20	A	NA	---	---	7.7	TL98-237	SG4
Door & Transom	44	1-3/4"	20	A	NA	---	---	7.7	TL98-237	SG4
Communicating	53	1-3/4"	20	B	NA	---	---	7.7	TL93-219	SG4
Stile & Rail Single Swing	40	1-3/4" (1-11/16")	NR	B	NA	---	---	8.3	TL99-120	SG12
	40	1-3/4" (1-11/16")	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	8.3	TL99-122	SG12
	39	1-3/4" (1-11/16")	NR	I	Bead: 110	1-1/8" Non-Rated IGU	1296 (max)	7.0	TL05-123	SG12
	38	1-3/4" (1-11/16")	NR	S or T	NA	---	---	7.6	"E1460.07-113-11-R0 C7672.02Q-113-17-R0"	SG12
	38	2 ¼" (1-7/8")	90-60-45	A	NA	---	---	12.5	TL97-321	MC
	37	1-3/4" (1-11/16")	NR	U	NA	---	---	7.6	"E1460.07-113-11-R0 C7672.02R-113-17-R0"	SG12
	37	2 ¼" (1-7/8")	90-60-45	B	NA	---	---	12.5	TL97-312	MC
	36	1-3/4" (1-3/4")	60-45	B	NA	---	---	9.7	TL97-317	MC
	33	1-3/4" (1-1/2")	20	B	NA	---	---	5.9	TL94-41	SCL
	33	2 ¼" (1-1/2")	20	B	NA	---	---	6.9	TL97-311	SCL
Stile & Rail Active-Active Pairs	37	1-3/4" (1-11/16")	NR	K	NA	---	---	7.9	TL11-109	SG12
	35	1-3/4" (1-3/4")	60-45	K	NA	---	---	10.2	TL11-108	MC
	32	1-3/4" (1-1/2")	20	K	NA	---	---	5.9	TL11-107	SCL

[1] Test was conducted as an active/inactive pair installation and requires Eggers' overlapping wood astragal.
[2] Test was conducted as an active/active pair with top latching surface hardware.







ACOUSTICAL GASKETING AND UNDERCUTTING		
Gasket System	**Components**	**Required Undercut**
A	Double row Pemko S-88 gasket, Pemko 434_ARL door bottom, Pemko 2005_AT threshold	1/2"
B	Double row Pemko S-88 gasket, Pemko 434_ARL door bottom	1/4"
C	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 2005_AT threshold	3/8"
I	Double row Pemko S-88 gasket, Pemko PDB411_AE door bottom	3/8" (1/4"-1/2")
K	Double row Pemko S-88 gasket and pad on frame, Pemko PDB411_AE door bottom, one row of Pemko S-1125 on each meeting edge	3/8" (1/4"-1/2")
M	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 151 flat threshold	3/8"
N	DHSI 105, DHSI AMDB3-3, & DP*	1/4"
O	Pemko 773, Pemko 234 door shoe, Flat smooth threshold	3/8"
P	DHSI 105, SA, CS, DP	3/8"
Q	DHSI 105, Pemko 2005_AT	3/8"
S	2008_APK Threshold, S44 and 312R	3/8"
T	2008_APK Threshold, S773 and S44	3/8"
U	Pemko PDB411_AE, S773, S44 and ACP112	3/8" (1/4"-1/2")

**DP375 is used for the Solid Wood Edge Option (SWE); DP250 is used for full width mortise or CS*





SOUNDWOOD ACOUSTICAL WOOD FRAMES

Eggers' acoustical wood jambs allow the beauty of our doors to be accented with matching wood frames designed to create a cohesive look metal frames cannot match. Create a masterpiece, knowing Eggers will work diligently to make your acoustical door and frame a perfect match. Available with an STC sound test report up to an STC 45, Eggers' two piece acoustical frame is sold exclusively in combination with Eggers' acoustical doors.

Elegant

Eggers' acoustical frames are available in virtually any veneer and finish color and offers quality control unparalleled in the acoustical wood door market. No longer is a metal frame with wood casing necessary for aesthetic appeal. Perfect for the grand entrance to a concert hall or the distinction of a boardroom, Eggers' acoustical wood frames complement our acoustical doors perfectly.

Functional

Eggers' STC doors and frames are found in healthcare and hospitality facilities, government and municipal buildings as well as educational institutions. Typical applications include performance venues, conference rooms, lecture halls, auditoriums, and classrooms.

Two Piece Acoustical Jamb Installation Instructions

Maximum Overall Opening	50-11/16" wide x 121-11/32" high (frame buck opening)
Maximum Door Opening	Single–4-0 x 10-0
Wall Depth	Minimum–4-7/8"
Wall Type	Wall must be constructed to meet the STC rating and lined with a wood stud for jamb attachment
Gasketing	Refer to gasketing installation instructions for the specific STC door rating selected from the STC Product Offerings chart

Note: Soundwood Acoustical Frames are veneer-wrapped and will maintain the opening rating with doors rated up to STC 45.

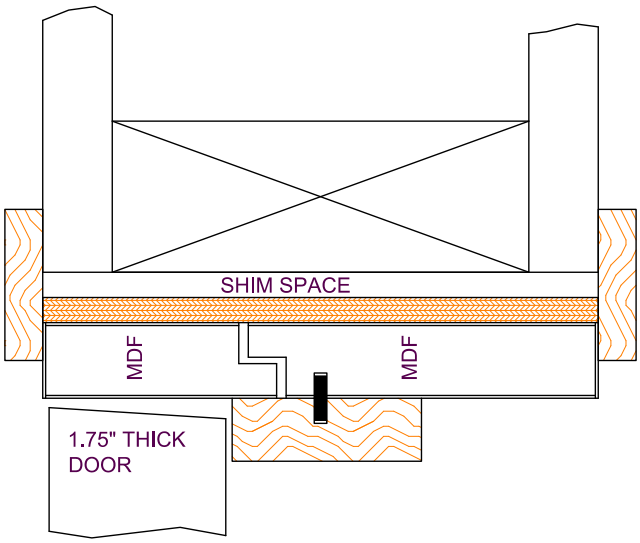
Door side of jamb is shimmed and installed first with #8 x 1-1/2" screws spaced a maximum of 4" from each end and 24" on center.

Stop side of jamb is then installed flush with the wall. Space in between the two jamb components is okay.

Attach stop side of jamb with #8 x 2" screws or 8d finishing nails spaced a maximum of 6" from the end and 24" on center. Fasteners can be located underneath the stop.

One #8 x 2" screw or 8d finish nail should be located at each hinge pocket and strike pocket on the door side of jamb before the hardware is installed.

Shim space is a maximum of 1/4" and must be tightly filled with fiberglass insulation



Flat Stop

Minimum 5/8" thick x 1-1/2" wide. Flat stops are installed with a 1/8" x 7/16" HDF spline and #4 finish nails or 18 gage x 1-1/2" long brads spaced maximum 4" from each end and 16" on center.

Casing

Minimum 3/8" thick x 1-1/2" wide. Casing is installed with minimum #4 finish nails spaced maximum 4" from each end and 16" on center and staggered.

ECOUSTICS

Acoustical Architectural Plywood



Plywood that looks beautiful and creates an environment that sounds great too. Eggers' acoustical plywood helps to reduce reverberation and noise pollution overall. Functionality and high-quality performance are matched with the beauty of an Eggers' plywood product.

SOUNDWOOD ACOUSTICAL PLYWOOD PANELS

Acoustical Performance Testing Methods

The Soundwood Ecoustics line of architectural plywood is tested differently from our acoustical door line. Two different values are captured:

- NRC–Noise Reduction Coefficient: a measure of how effective a material is at absorbing sound.
- SAA–Sound Absorption Average: the amount of sound absorbed by a surface finish.

There are two common mounting methods for plywood paneling, known as “A” mounting and “E” mounting. The “A” mounting is used to test wall panels. The “E” mounting is used to test ceiling panels and is typically given a three digit suffix, e.g. “E-400.” This represents the depth (in millimeters) of the sealed airspace behind the acoustical material tested. The “E” mounting method is typically used for acoustical ceiling tiles.

The ASTM C423 test standard is the standard test method for sound absorption and sound absorption coefficients by the reverberation room method.

All building materials have some acoustical properties that they will absorb, reflect, or transmit sound striking them. Conventionally speaking, acoustical materials are those materials designed and used for the purpose of absorbing sound that might otherwise be reflected. Sound absorption is defined as the incident sound that strikes a material and is not reflected back.

For the vast majority of conventional acoustical materials, the material thickness has the greatest impact on the material’s sound absorbing qualities. While the inherent composition of the acoustical material determines the material’s acoustical performance, other factors can improve or influence the acoustical performance. Incorporating an air space behind an acoustical ceiling or wall panel often serves to improve low frequency performance.





Installation Instructions

The manufacturers of the gasketing, door bottom, thresholds will generally provide a set of installation instructions with their components. In addition, Eggers has developed a set of installation instructions for each of the gasketing systems indicated in the product offering chart. This information is meant to augment those instructions.

Perimeter gasketing is intended to form a seal between the door leaf and the frame. Most of the systems used with Eggers doors include a double row of frame applied seals to accomplish this. If necessary due to installation clearances the seals allow a limited amount of re-positioning to assure adequate contact with the closed door.

Where used, raised thresholds should be adjusted and secured based on the position of the closed door. The threshold seal should make uniform contact with the door surface. Avoid excessive force between the door and threshold as this can hold the door away from the frame seals.

Auto door bottoms should be properly sized to the door width. Avoid undersizing them as this will prevent a good seal and allow sound to “leak” past.

There are several glazing options within Eggers approvals. Eggers recommends factory glazing of acoustic doors, where our controlled environment and installers familiar with the process can ensure proper sealing.

Where doors are to be field glazed, a good seal must be made between all of the components, regardless of the glazing system used. The best way to do this is with a small bead of 100% pure silicone. The seal does not have to be thick, but it must be continuous.

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Fax: 920.793.2958

Flush Doors, eiDoor®

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces, Custom Wood Products, Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.845.0615

Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supersede those in print.

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RAINFOREST ALLIANCE CERTIFIED

CERTIFIED QUALITY WOODWORK

Soundwood™

ACOUSTICAL WOOD PRODUCTS BY EGGERS

STC 49-52

The Highest Acoustical Ratings in the Architectural Wood Door Industry



Eggers Industries

High-Performance Acoustical Doors with Lites

Eggers is proud to offer the highest acoustical ratings in the industry but we are also thrilled to be able to provide you with options. The STC 49 and 50 are available with a 100 sq. in. lite opening with standard lip wood bead.

This is a special construction 1-1/8" insulated glass unit that must be supplied and factory glazed by Eggers.

ENGINEERING SPECIFICATIONS	STC 49 and STC 50	
	STC 49	**STC 50**
Sizes	Min. 2'-0" x 6'-0" Max. 4'-0" x 8'0"	
Thickness	1-3/4"	
Frame	Grouted 16 gauge welded steel	
Stiles	Veneered stile meets Extra Heavy Duty WDMA I.S. 1A Performance Level	
Rails	Structural Composite Lumber Core (SCL)	
Faces	Wood Veneers	
Fire-Rating	N/A	
Lites	100 sq. in. - standard lip wood bead - 1-1/8" IGU	
Latching Hardware	Single point latch - cylindrical or mortise lock	
Hinges	Level swing - butt hinges	
Gasket System	U	S or T
Undercut	3/8"	3/8"
Test Report	C7672.01A	C5765.04
Weight Per. Square Foot	12.0	
LEED® Contributions	LEED® MR4 - Recycled Content, EQ4.4 No Added Urea-Formaldehyde	
Standards	ASTM E90, E413	





Principle Benefits and Features of these Constructions

- Highest STC-rated 1-3/4” wood doors available
- Available with automatic door bottom or raised threshold
- Fixed or adjustable frame seals available
- Includes 1/8” total lead thickness which provides x-ray protection
- Meets LEED® EQ 4.4 - Low-Emitting Materials, No Added Urea Formaldehyde
- True wood composite construction - U.S. Patent No. 8,573,357
- The standard constructions for these doors include a full width top block for screw attachment of surface mounted closers

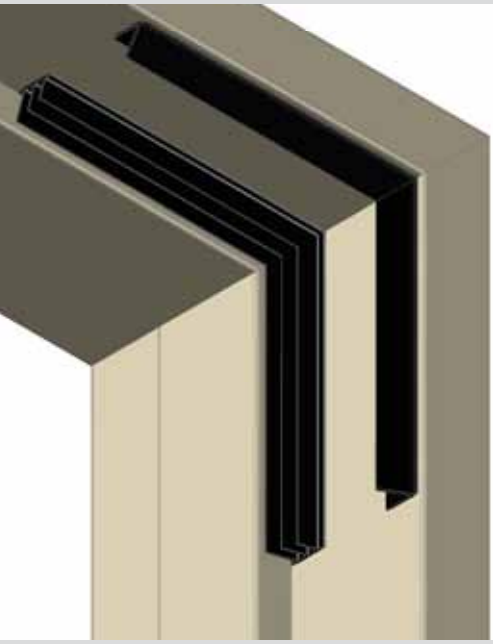
ENGINEERING SPECIFICATIONS	STC 51 AND STC 52	
	STC 51	**STC 52**
Sizes	Min. 2’-0” x 6’-0” Max. 4’-0” x 8’0”	
Thickness	1-3/4”	
Frame	Grouted 16 gauge welded steel	
Stiles	Veneered stile meets Extra Heavy Duty WDMA I.S. 1A Performance Level	
Rails	Structural Composite Lumber Core (SCL)	
Faces	Wood Veneers	
Fire-Rating	N/A	
Lites	N/A	
Latching Hardware	Single point latch - cylindrical or mortise lock	
Hinges	Level swing - butt hinges	
Gasket System	U	S or T
Undercut	3/8”	3/8”
Test Report	C5765.03	
Weight Per. Square Foot	12.0	
LEED® Contributions	LEED® MR4 - Recycled Content, EQ4.4 No Added Urea-Formaldehyde	
Standards	ASTM E90, E413	

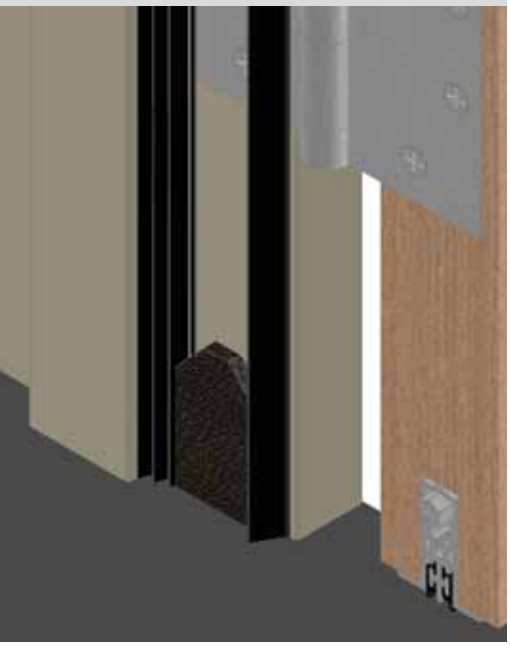




GASKET SYSTEM U

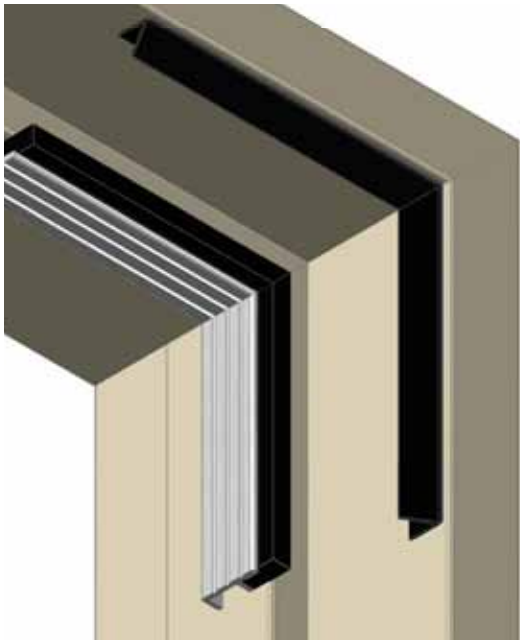
Pemko S44, Pemko S773, Pemko ACP112 and Pemko 411 auto door bottom





GASKET SYSTEM S

Pemko S44, Pemko 312CR with ER9, and Pemko 2008 STCxQ380 raised threshold

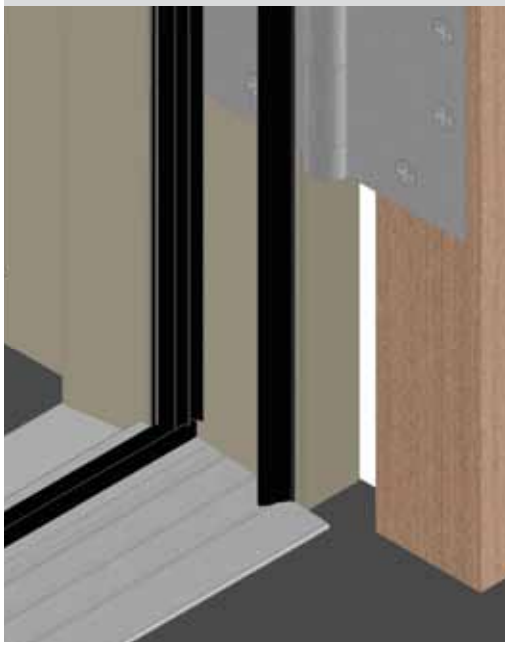




GASKET SYSTEM T

Pemko S44, Pemko S773 and Pemko 2008STCxQ380 raised threshold





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Eggers Industries

Clarifying the Confusing

GOOD • BETTER • BEST

When choosing a face material for products going into a high-traffic and/or high-maintenance facility there are several factors to consider. Will the face material withstand the demands of the environment? What will they look like? Are there environmental benefits available?

GOOD

LOW PRESSURE DECORATIVE LAMINATE

- Low Pressure Decorative Laminate (LPDL) is made from Melamine paper that is saturated and compressed under low pressure and then bonded to particleboard or MDF.
- Some LPDL doors are built without hardwood stiles and rails and are simply Melamine bonded to core. They may also have wood dowels placed in the hinge pockets for reinforcement.
- Not recognized by AWI 8th Edition, Section 1300.
- Wear Resistance equals 400–500 cycles.
- Thickness equals .005"–.007"

BETTER

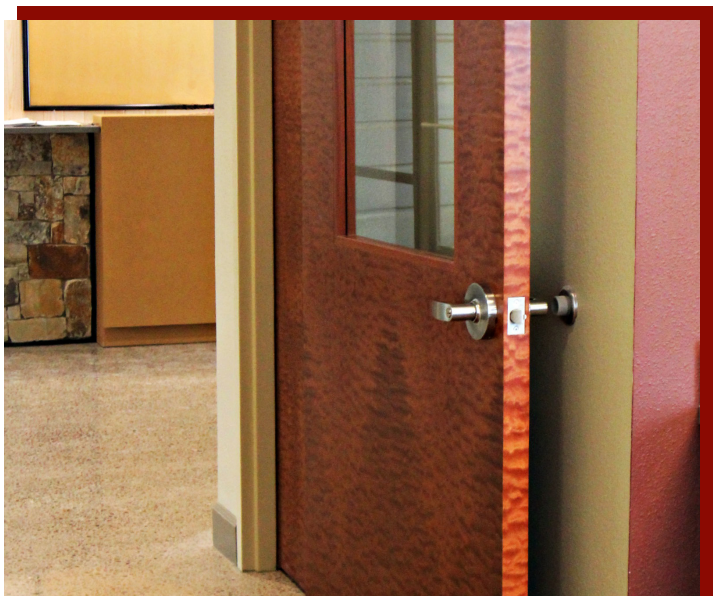
HIGH PRESSURE DECORATIVE LAMINATE

- High Pressure Decorative Laminate (HPDL) is constructed with multiple plies of phenolic resin-coated kraft papers covered with a high-grade decorative paper layer that is compressed under high pressure and heat for an extended period of time and finished with a melamine coating.
- Metal protective hardware is often needed to match the durability of a vinyl-clad door.
- Lead times can vary greatly due to the numerous suppliers.
- FSC® certified or FSC controlled HPDL is now required on FSC certified projects.
- Wear Resistance equals 700–1,000 cycles.
- Thickness equals .048"

BEST

VINYL-CLAD

- Vinyl-Clad doors are made with IPC® Rigid Sheet face material and are built to withstand the most demanding environments.
- Non-PVC, G2 BioBlend® face options are also available which meet the rigorous standards and criteria for chemical emissions prescribed by the GreenGuard Environmental Institute.
- Removable or fixed edge construction.
- Removable rounded edge design minimizes damage, is also available in stainless steel and can be replaced anytime, anywhere and by anyone.
- Scratch and stain resistant and does not support fungal or bacterial growth.
- Available in over 90 solid colors and 22 wood grain patterns.
- Wear Resistance equals 6,000 cycles.
- Thickness: .040" for the eiDoor® with Inpro's IPC® Rigid Sheet material



Eggers Industries

Turning nature's beauty into works of art

Eggers Industries

Clarifying the Confusing

GOOD • BETTER • BEST



GOOD
LOW PRESSURE DECORATIVE LAMINATE



BETTER
HIGH PRESSURE DECORATIVE LAMINATE



BEST
VINYL-CLAD REMOVABLE EDGE



BENCHMARK
WOOD VENEER

WDMA TM 15-11
VERTICAL EDGE IMPACT TEST

These constructions have been tested according to the WDMA TM 15-11 Vertical Edge Impact Test, a test method developed for determining the vertical edge impact resistance of backing for veneered wood door stiles. Although this test method was not designed specifically for edge impact resistance, it serves as an excellent method for comparing these three materials.

It gives us the ability to deliver a repeatable impact to the corner of a small sample of material. The results of this test provide a means to predict the relative ability of different materials to resist impact type damage in real-life applications.

DATA—REMOVABLE EDGE:

NR and 20-minute
Screw Withdrawal . . . . . 1,135 lbs.
Hinge-load. . . . . 1,037 lbs.

45-60-minute
Screw Withdrawal . . . . . 863 lbs.
Hinge-load. . . . . 813 lbs.

Both have passed a Cycle Slam of 1,000,000 cycles

WDMA Test Methods Used:
Hinge-Loading. . . . . (TM 8-90, 1990)
Screwholding. . . . . (TM 10-90, 1990)

WDMA Extra Heavy Duty performance requires screwholding and hinge-loading of 550 lbs.

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Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

Flush Doors, eiDoor®
Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces, Custom Wood Products, Plywood
Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.845.0615

Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supersede those in print.

The FSC certification ensures responsible use of forest products. 301-08-15

Look for FSC certified products.

R03.17

EGGERS' GREEN CAPABILITIES

Eggers' expertise in sustainable practices can help contribute towards green building credits for nationally recognized environmental building programs.

Eggers Industries



Turning nature's beauty into works of art

ARCHITECTURAL DOORS, PANELING AND VENEER MATCHING

Conserving our natural resources is as much an honor as it is a responsibility at Eggers Industries. It's a philosophy and a practice that echoes throughout Eggers.



We are certified by the Rainforest Alliance to manufacture products in accordance with the Forest Stewardship Council™(FSC®) standards. Our commitment to our customers and the environment is not only a guarantee of high-quality, custom wood products, but also a promise of credits toward the Leadership in Energy and Environmental Design (LEED®) program.

- Eggers offers agricultural fiber based particleboard as well as FSC certified structural composite lumber core, stave, and particleboard core types for flush doors.
- As an FSC Chain of Custody Certified Supplier by the Rainforest Alliance, all FSC certified materials meet or exceed requirements set by the FSC. These products come from managed forests that exercise selective harvesting.
- Eggers can provide you with FSC certified wood doors, frames and architectural plywood panels within one facility. Custom applications also include ceiling tiles and office components.
- Eggers' UV cured finishing system consists of water-based stains and 100 percent solid clear coats that are free of Volatile Organic Compounds (VOC).

In addition to providing sustainable manufacturing, Eggers follows environmentally-conscious practices as a company. Recycling is a primary focus at Eggers, both in our offices and our plants. We also harness energy from waste materials to heat our facilities.

LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED®)

The United States Green Building Council (USGBC) developed LEED as a set of guidelines to provide a national standard for green building design. It's the most recognized rating system for evaluating environmental performance of commercial, institutional, governmental and high-rise residential buildings. The information provided here is based on LEED 2009-NC. You can learn more about LEED by visiting their website at usgbc.org.

Green Design incorporates design and construction practices to greatly reduce or eliminate the negative impact of buildings on the environment and occupants through:

- Sustainable site planning
- Safeguarding water and water efficiency
- Energy efficiency
- Conservation of materials and resources
- Indoor environmental quality

The LEED program is a certification process to provide a sustainability rating system. Eggers' architectural wood doors, panels and other products can assist building owners and design teams toward certification by contributing to points in the **Materials & Resources** category, as well as **Indoor Environmental Quality.** Depending on the number of points earned, the buildings can achieve Certified (40-49 points), Silver (50-59 points), Gold (60-79 points) or Platinum (80+ points) status.

LEED-2009-NC Rating System

Credits		Points
17	Sustainable Sites	**26**
4	Water Efficiency	**10**
8	Energy and Atmosphere	**35**
8	Materials and Resources	**14**
22	Indoor Environmental Quality	**15**
4	Design Process and Innovation	**10**
	Total Points Possible	**110**

Due to recent changes in FSC regulations, your company may be required to complete certification through an FSC agency. Please contact USGBC for additional information.

LEED® OPPORTUNITIES AVAILABLE WITH EGGERS' PRODUCTS

EGGERS' FLUSH DOORS[1]		MR 4: Recycled Content[3]	MR 6: Rapidly Renewable Materials	MR 7: Certified Wood[3]	EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]	Total Point Contribution with Eggers' Flush Doors
Particleboard Core		2				**2**
No UF Particleboard		2			1	**3**
FSC Certified Particleboard				1	1	**2**
Agrifiber		2	1		1	**4**
Agrifiber with FSC Certified Components		2	1	1	1	**5**
Stave Lumber		2			1	**3**
FSC Certified Stave Lumber				1	1	**2**
SCL		2			1	**3**
FSC Certified SCL				1	1	**2**
45-90 Minute Mineral Core		2			1	**3**
EGGERS' STILE & RAIL DOORS[1]		**MR 4: Recycled Content[3]**	**MR 6: Rapidly Renewable Materials**	**MR 7: Certified Wood[3]**	**EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]**	**Total Point Contribution with Eggers' S & R Doors**
SCL Core - Lite Door		2			1	**3**
SCL Core- Panel Options	Particleboard	2				**2**
	MDF	2				**2**
	No UF MDF	2			1	**3**
FSC Certified Stave Core - Lite Door		2		1	1	**4**
FSC Certified Stave Core - Panel Options	FSC Certified/No UF MDF	2		1	1	**4**
45-90 Minute - Lite Door		2			1	**3**
45-90 Minute Panel Options	Membrane	2			1	**3**
	Rim	2			1	**3**
EGGERS' DOOR FRAMES[1]		**MR 4: Recycled Content[3]**	**MR 6: Rapidly Renewable Materials**	**MR 7: Certified Wood[3]**	**EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]**	**Total Point Contribution with Eggers' Door Frames**
Lumber				1	1	**2**
MDF		2				**2**
No UF MDF		2			1	**3**
FSC Certified		2		1	1	**4**
90-Minute					1	**1**
EGGERS' PANELS[1]		**MR 4: Recycled Content[3]**	**MR 6: Rapidly Renewable Materials**	**MR 7: Certified Wood[3]**	**EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]**	**Total Point Contribution with Eggers' Panels**
Particleboard or MDF*		2				**2**
No UF Particleboard or MDF*		2			1	**3**
FSC Certified Particleboard or MDF		2		1	1	**4**
Veneer Core					1	**1**

[1] Additional point contributions may be available for MR #5.1 and MR #5.2 if the materials are extracted, harvested, recovered and manufactured within 500 miles of the jobsite and Eggers' manufacturing facilities. Contributions are contingent on the design and layout of the product in question. [2] The product construction is only urea-formaldehyde free if it is ordered as urea-formaldehyde free. The core is urea-formaldehyde free, but the doors need to be constructed urea-formaldehyde free to contribute to this credit. [3] Per USGBC guidelines, the value of any content that contributes to MR #4 cannot be attributed to MR #7.0 calculation.* Only particleboard is available as UL Class A Label.

LEED® QUICK REFERENCE CHART FOR DOORS

Credit	Criteria	Intent
MATERIALS & RESOURCES		
4.0	**Recycled Content** 10 percent (post-consumer + 1/2 pre-consumer)	Increase demand for building products that incorporate recycled content materials, thereby reducing impact resulting from extraction and processing of virgin material
	Recycled Content 20 percent (post-consumer + 1/2 pre-consumer)	
5.0	**Regional Materials** 10 percent extracted, processed and manufactured regionally	Increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting indigenous resources and reducing environmental impact from transportation
	Regional Materials 20 percent extracted, processed and manufactured regionally	
6.0	**Rapidly Renewable Materials**	Reduce the use and depletion of finite raw materials and long-cycle renewable materials by replacing them with rapidly renewable materials
7.0	**Certified Wood**	Encourage environmentally responsible forest management
INDOOR ENVIRONMENTAL QUALITY		
4.4	**Low-Emitting Materials** Composite wood and agrifiber contains no added urea-formaldehyde	Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants





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The FSC certification ensures responsible use of forest products. 501-09-14
Look for FSC certified products.

FSC www.fsc.org FSC® C019991
The mark of responsible forestry

RAINFOREST ALLIANCE CERTIFIED

CERTIFIED ARCHITECTURAL WOODWORK INSTITUTE QUALITY WOODWORK

CERTIFIED INDOOR AIR QUALITY SCS GLOBAL SERVICES
INDOOR ADVANTAGE GOLD BUILDING MATERIALS

Silhouettes™

SPECIALTY GLASS COLLECTION

Eggers Industries

The *Silhouettes*™ Specialty Glass Collection from Eggers enhances the richness and beauty of wood entryways through the sublime interplay of glass and light.



Turning nature's beauty into works of art

NATURAL BEAUTY. NATURAL FUNCTIONALITY.

The *Silhouettes*™ Specialty Glass Collection features a variety of glass styles, thicknesses and translucency levels. Whichever option you choose, you can rest assured that your *Silhouettes* Specialty Glass is as arresting in beauty as it is in functionality.

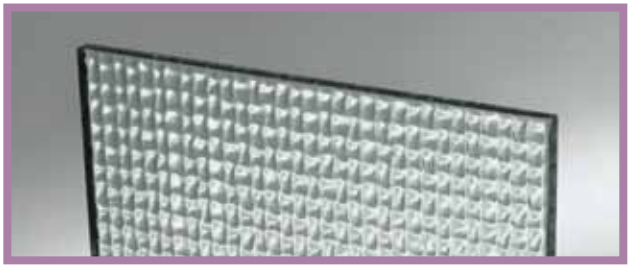
In addition to the Specialty Glass selection featured here, Eggers offers a wide variety of unique style options to make your doors as distinctive as possible.



Glue Chip



Spraylite



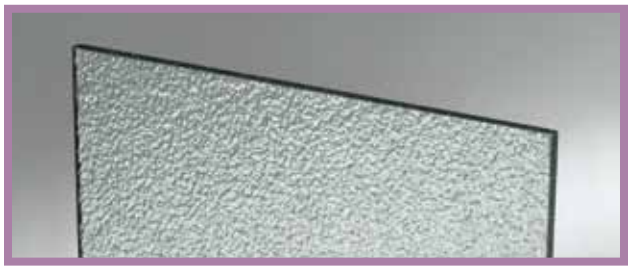
Flax



Niagara



White Laminated



Pattern 516



Skytex



Matelux



English Reeded

SPECIALTY GLASS

Glass Type	Pattern 516	Niagra	Spraylite	Flax	Skytex	White Laminated	Matelux	English Reeded	Glue Chip
Thickness	3/16"	3/16"	3/16"	3/16"	3/16"	1/4"	1/4"	1/4"	1/4"
Tempered	YES	YES	YES	YES	YES	NO	YES	YES	YES
ANSI Z97.1	YES	YES	YES	YES	YES	NO	YES	YES	YES
CPSC 16 CFR 1201 Category I	YES	YES	YES	YES	YES	NO	YES	YES	YES
CPSC 16 CFR 1201 Category II	YES	YES	YES	YES	YES	NO	YES	YES	YES



MINI-BLIND GLASS UNITS

Eggers' mini-blind glass units are the perfect solution for privacy. These blinds are placed between 2 pieces of 1/8" tempered glass. They come in several sizes with options for tilting and raising the blinds. With the tilt and raise controllers available on one side only, the customer must specify which side of the door receives the controller.

The units can only be installed in non-rated doors and must be factory glazed. Due to the bead size, the visible lite will be approximately 1" less in width and height than the glass unit size.

Mini-blind units have not been evaluated for use on acoustic doors, and are not approved for use on fire-rated , x-ray or bullet-resistant doors.

- Thickness of Unit - 1-1/16"
- Wood Bead - #115
- Slat Material - Aluminum
- Alternate Glazing - Not Available

Glass Size	Cut-Out Size	Visible Lite	Tilt/Raise
7" x 64"	7-1/8" x 64-1/8"	6" x 63"	Tilt and Lift
8" x 36"	8-1/8" x 36-1/8"	7" x 35"	Tilt and Lift
8" x 64" *	8-1/8" x 64-1/8"	7" x 63"	Tilt and Lift
14" x 64"	14-1/8" x 64-1/8"	13" x 63"	Tilt and Lift
20" x 64" *	20-1/8" x 64-1/8"	19" x 63"	Tilt and Lift
20" x 80"	20-1/8" x 80-1/8"	19" x 79"	Tilt and Lift
22" x 36" *	22-1/8" x 36-1/8"	21" x 35"	Tilt and Lift
22" x 48"	22-1/8" x 48-1/8"	21" x 47"	Tilt and Lift
22" x 64" *	22-1/8" x 64-1/8"	21" x 63"	Tilt and Lift
22" x 80"	22-1/8" x 80-1/8"	21" x 79"	Tilt and Lift

*Tan slats are options for these sizes. All sizes available with bright white slats.

THE BEAUTY OF SAFETY – GENERAL GLAZING INSTRUCTIONS

Eggers' specialty glass glazing options currently include: Textured, Tinted and Laminated, with or without colored film. These are in addition to our standard glazing options, which are wired, tempered, bullet-resistant, acoustical and fire-rated. Specialty glass is not meant for use in bullet-resistant, acoustical or fire-rated doors.

Glazing options for fire-rated doors continue to increase. There are now options for ceramic glazing materials, high tempered clear glazing, laminated glazing, clear composite glazing panels as well as traditional wired glass. There are also approvals gained by the manufacturers of metal vision frames, intumescent producers and door manufacturers. As the number of options increases, so does the complexity of installations.

Many of these approvals require very specific glazing parameters. These include limitations to the type and rating of the doors they may be installed in, stop heights, clearances between glazing and door cutout and use of setting blocks to support and center the glazing within the frame. The complexity of specific requirements increases exponentially with the use of different types of caulk, glazing tape, intumescent tapes and combinations to ensure that the final installation will meet fire labeling requirements.

Eggers recommends factory glazing for proper glass installation, especially special purpose doors such as fire and acoustics. Check with applicable codes as the current version of NFPA-80 requires new wood fire doors to be glazed under third party labeling service.

Eggers has developed a set of glazing instructions to address these installation issues, as well as meet the market demand for field glazing options. These instructions are shipped with each door order. They detail the four most commonly ordered bead installations:

- 20-minute lites with 3/16" to 5/16" glazing in wood beads (also applicable for non fire-rated installations).
- 20-minute full-lites with Pyroedge glazing and wood beads.
- 45-minute full-lites with Firelite Plus glazing in wood beads.
- 45- through 90-minute lites with wired glass or ceramic glazing in veneer wrapped lite beads.

Additional instructions may be added to this set as warranted by the market. Glazing instructions are also available on our website at www.eggersindustries.com.

It is the glass installer's responsibility to ensure installation instructions used are correct for the specific application. For metal vision panel applications, please refer to the manufacturers' instructions provided with their frame. You can also call 920.722.6444 for technical assistance and guidance for other applications.

Eggers will continue to develop additional tools to effectively correct specification and installation of fire-rated doors. As they become available, we will post them on our website for your immediate benefit.

Eggers Industries
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Stile & Rail Doors, Door Frames, Plywood, Veneered Components

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Flush

Neenah Division
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Architectural Veneer Faces, Custom Wood Products, Plywood

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The FSC® certification ensures responsible use of forest products. 204-08-14

FSC www.fsc.org FSC® C019991 The mark of responsible forestry

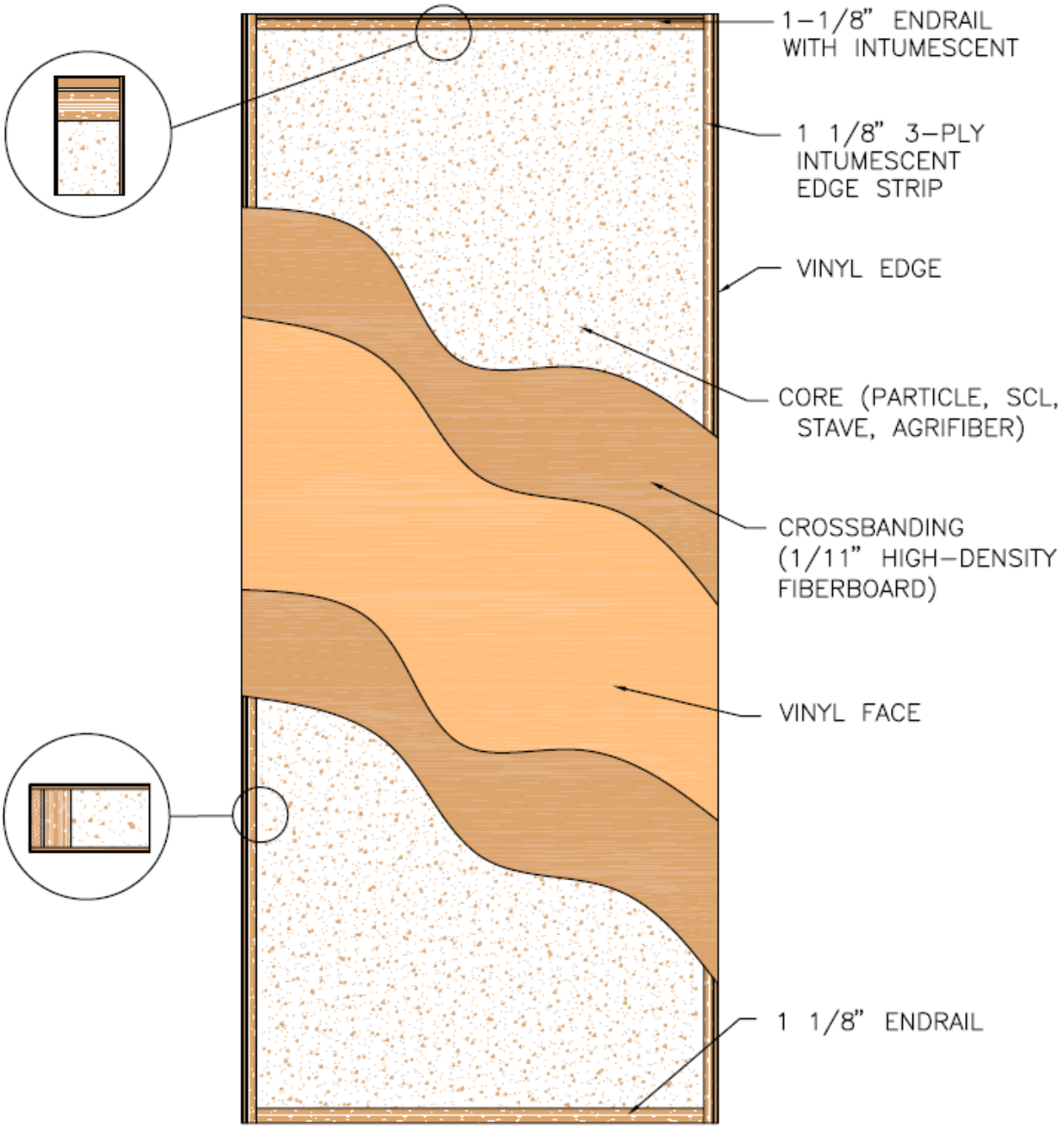
RAINFOREST ALLIANCE CERTIFIED

CERTIFIED QUALITY WOODWORK

20-Minute Vinyl-Clad Fixed Edge – Category A
Door Construction

Eggers Industries

No. 339-07-09



Eggers Industries

Stile & Rail Doors, Door Frames, Plywood, Veneered Components

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Flush Doors

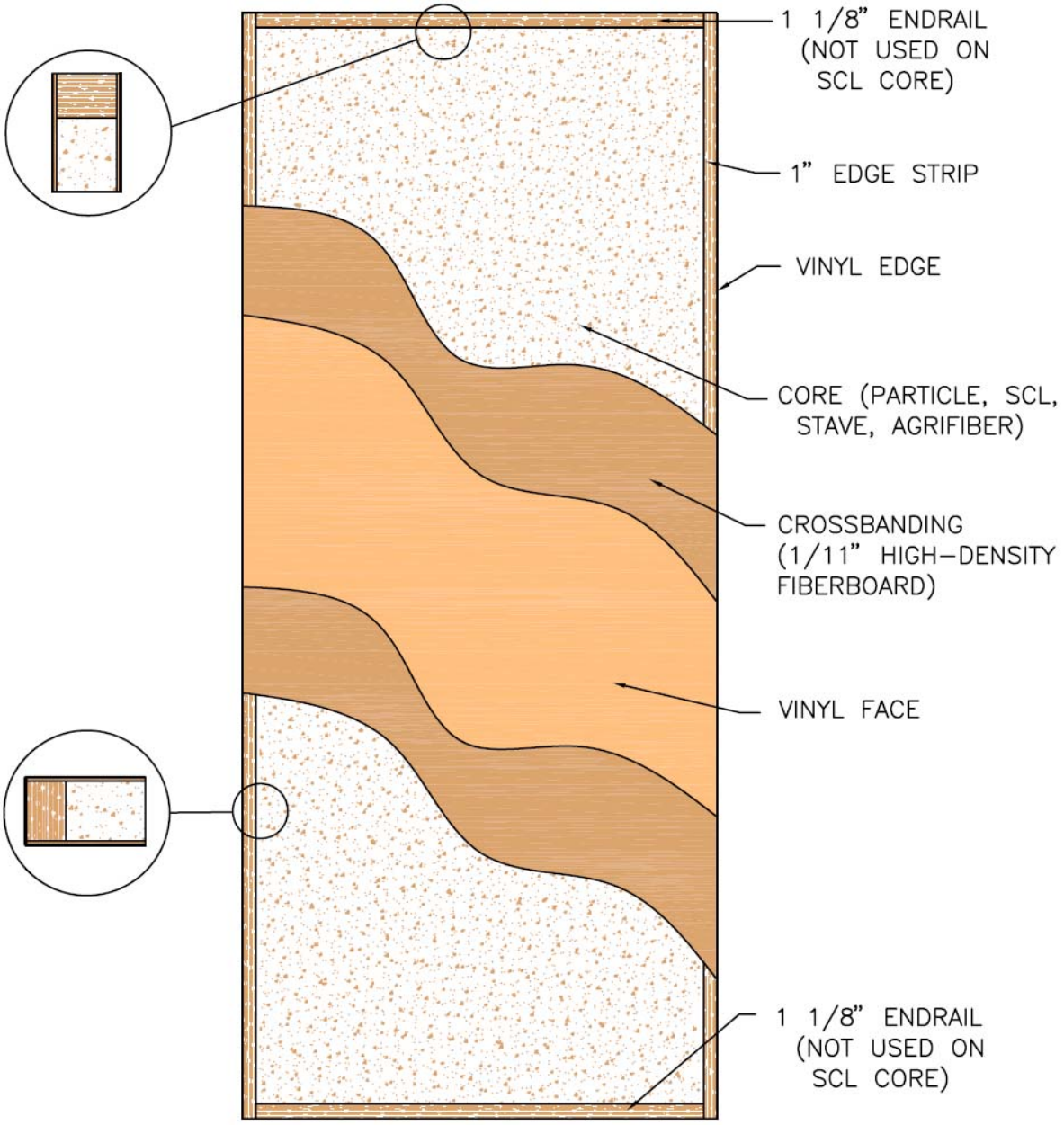
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email: sales@eggersindustries.com

20-Minute Vinyl-Clad Fixed Edge – Category B
Door Construction

Eggers Industries

No. 329-07-09



Eggers Industries

Stile & Rail Doors, Door Frames, Plywood, Veneered Components

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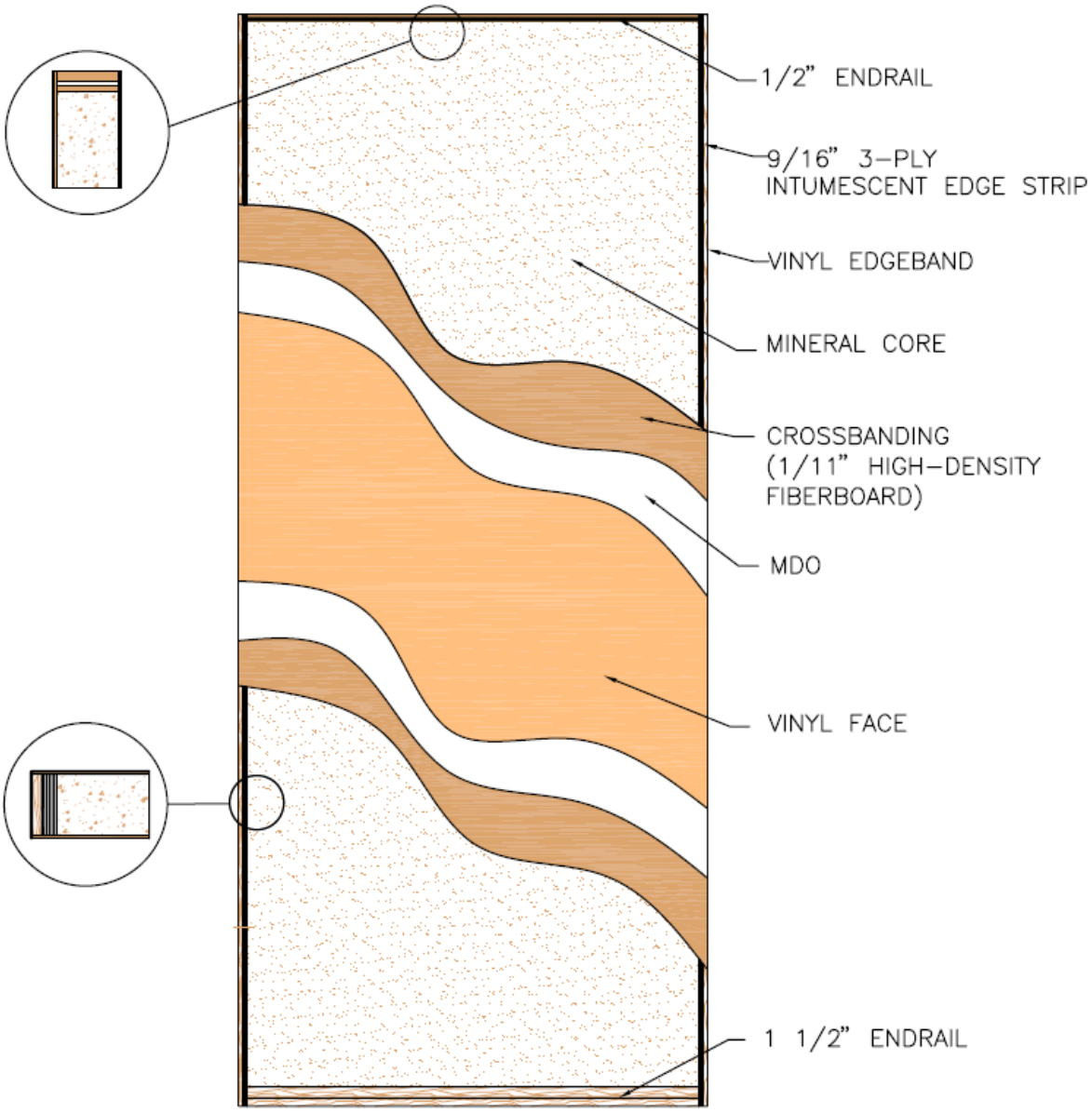
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45-90 Minute Vinyl-Clad Fixed Edge – Category A
Door Construction

No. 364-07-09

Eggers Industries



Eggers Industries

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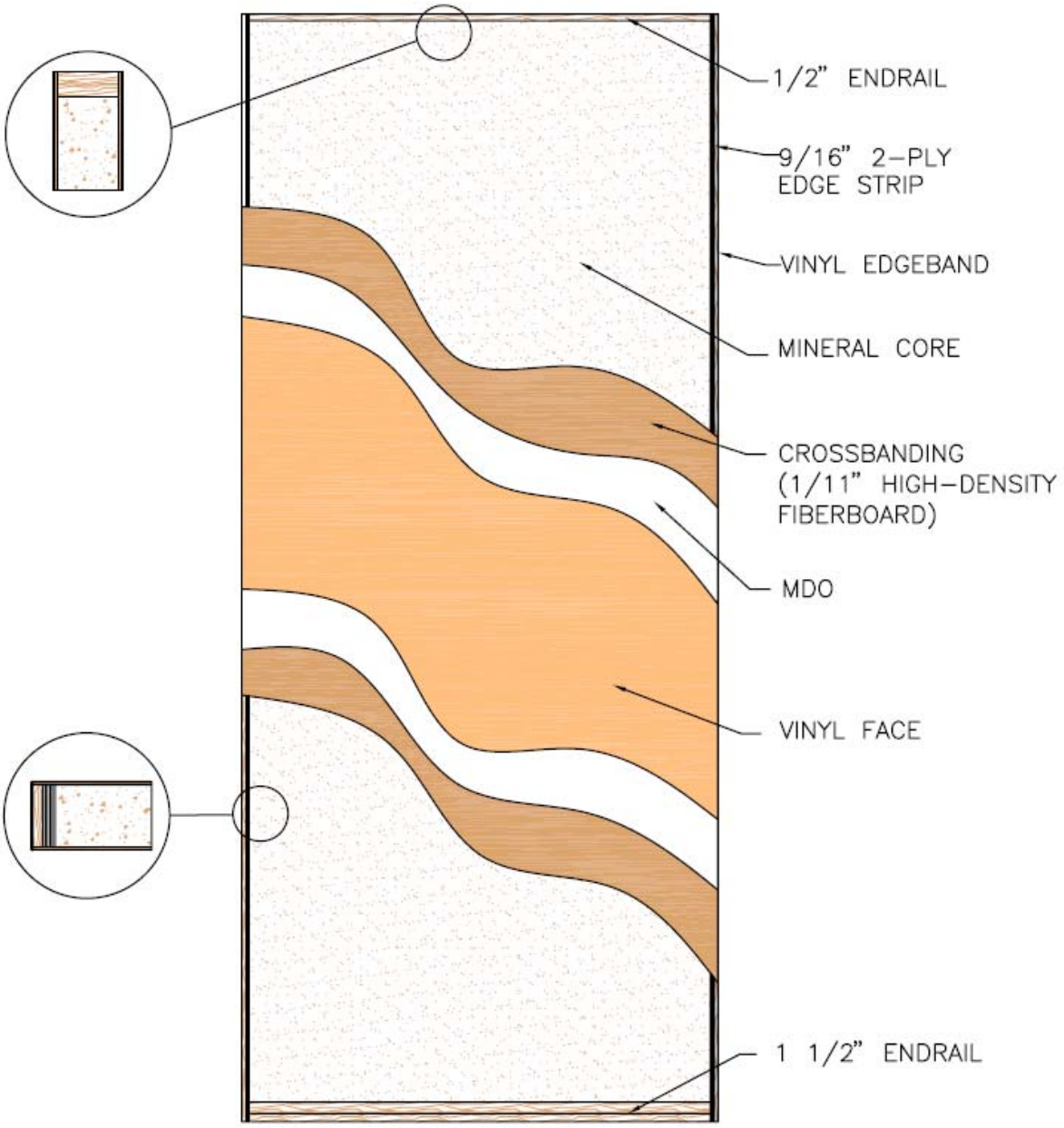
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45-90 Minute Vinyl-Clad Fixed Edge – Category B

Door Construction

No. 364B-07-09

Eggers Industries



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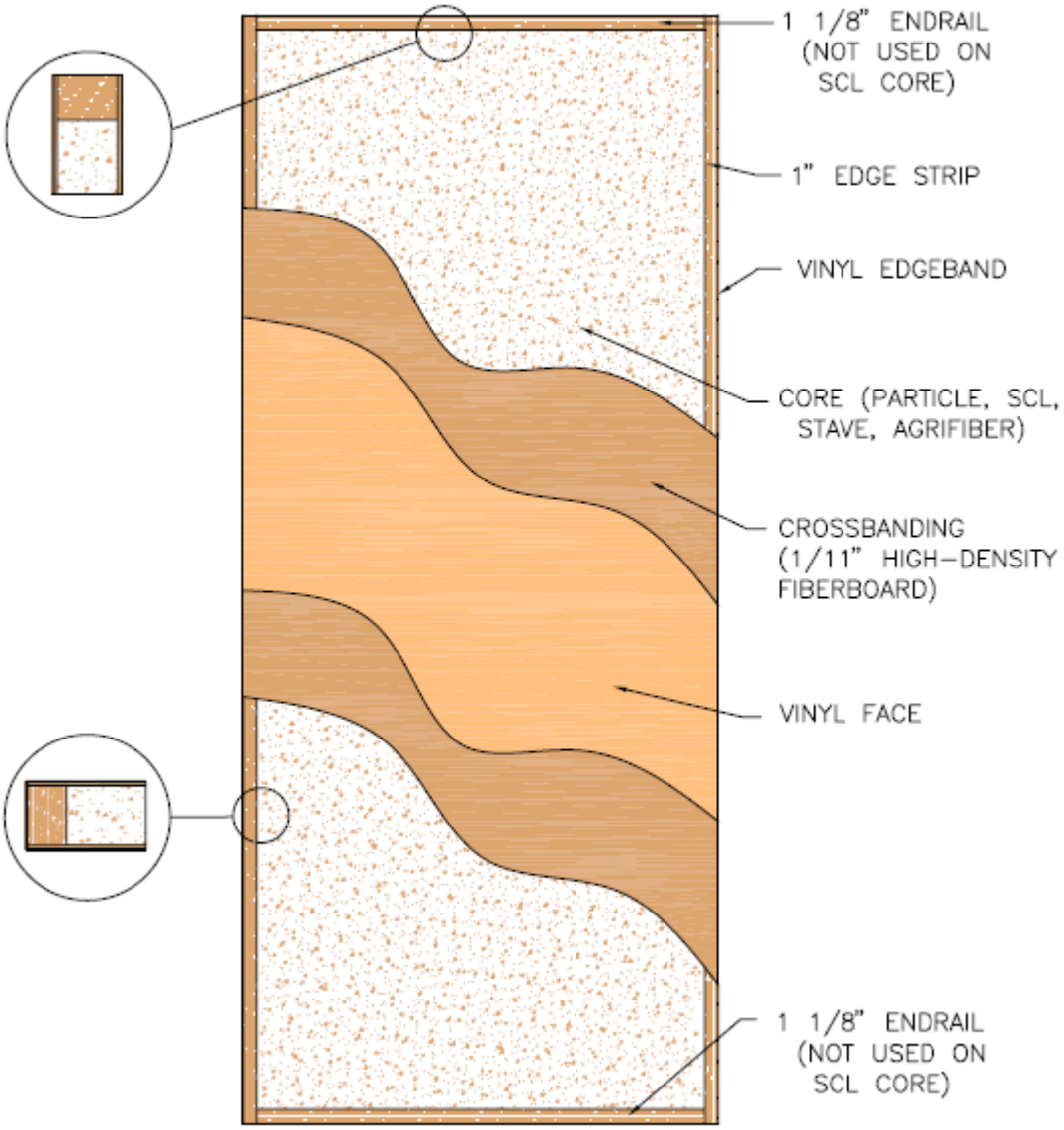
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Neenah, WI 54956
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Fax: 920.722.0357

email: sales@eggersindustries.com

Non-Rated Vinyl-Clad Fixed Edge
Door Construction

No. 602-07-09

Eggers Industries



Eggers Industries

Stile & Rail Doors, Door Frames, Plywood, Veneered Components

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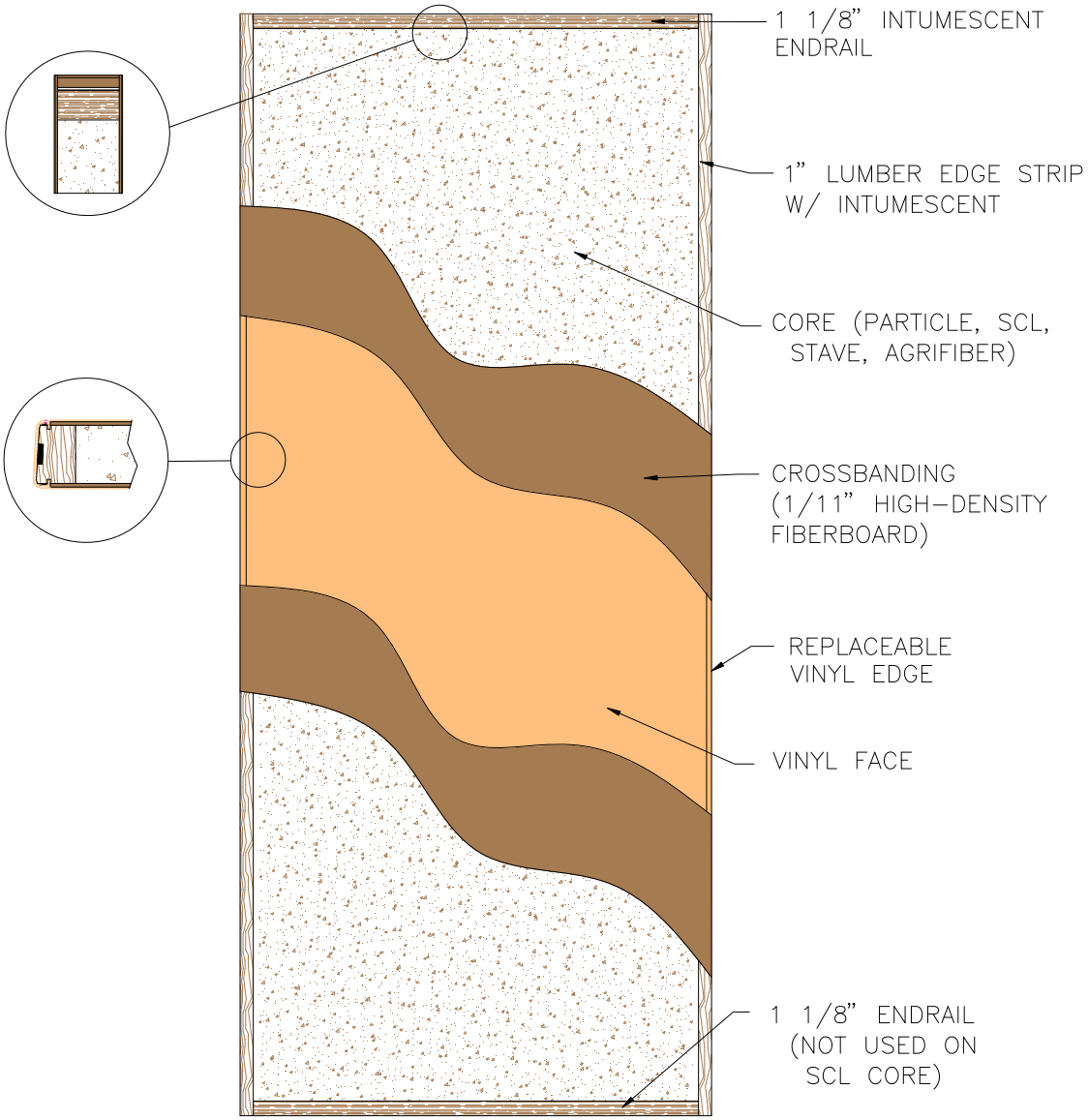
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Phone: 920.722.6444
Fax: 920.722.0357

email: sales@eggersindustries.com

20-Minute Vinyl Door (Category A) Removable Edge
Door Construction

Eggers Industries

No. 620-04-10



Eggers Industries

Stile & Rail Doors, Door Frames, Plywood, Veneered Components

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Flush Doors

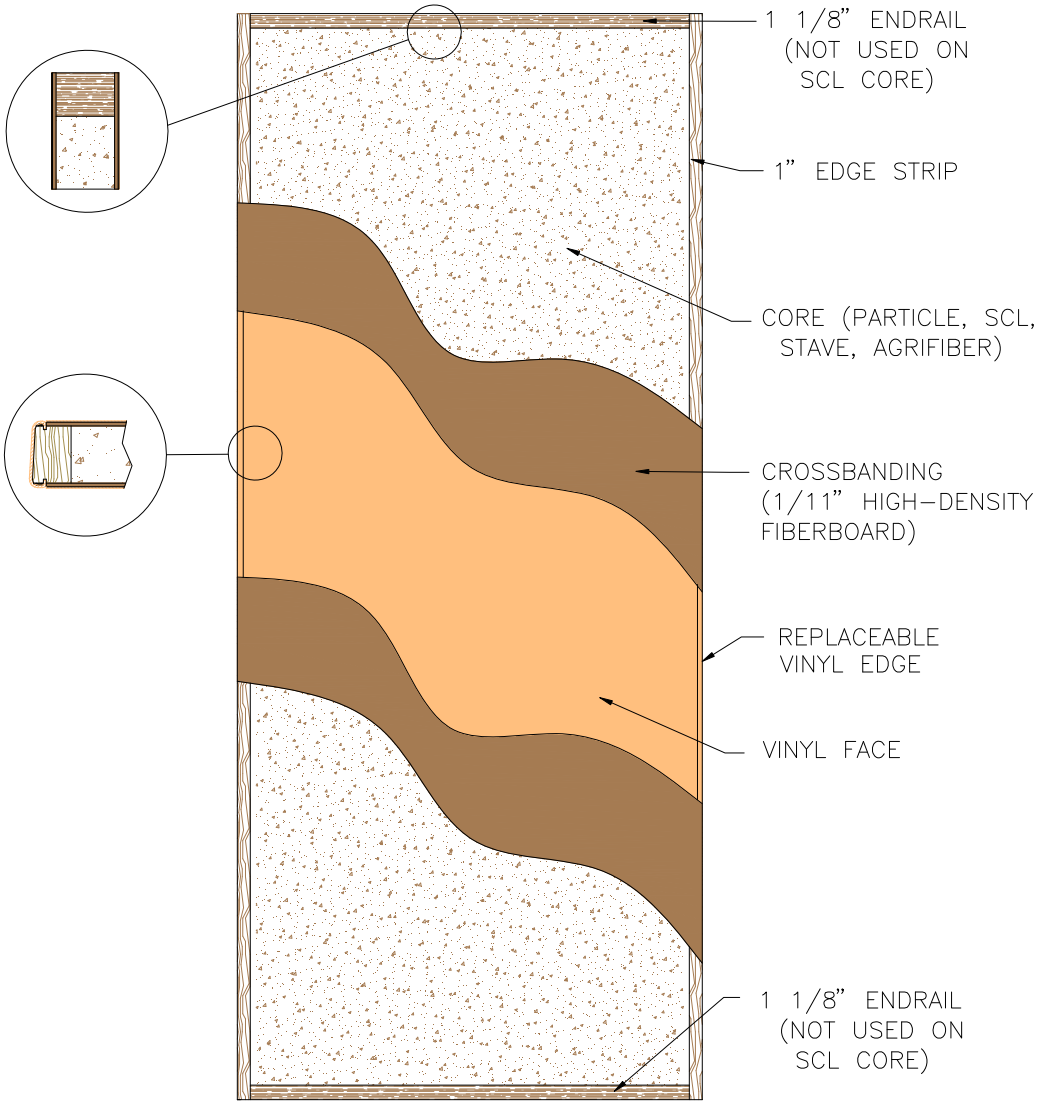
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164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

email: sales@eggersindustries.com

Non-Rated or 20-Minute Vinyl Door (Category B)
Removable Edge
Door Construction

Eggers Industries

No. 622-04-10



Eggers Industries

Stile & Rail Doors, Door Frames, Plywood, Veneered Components

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Fax: 920.793.2958

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Flush Doors

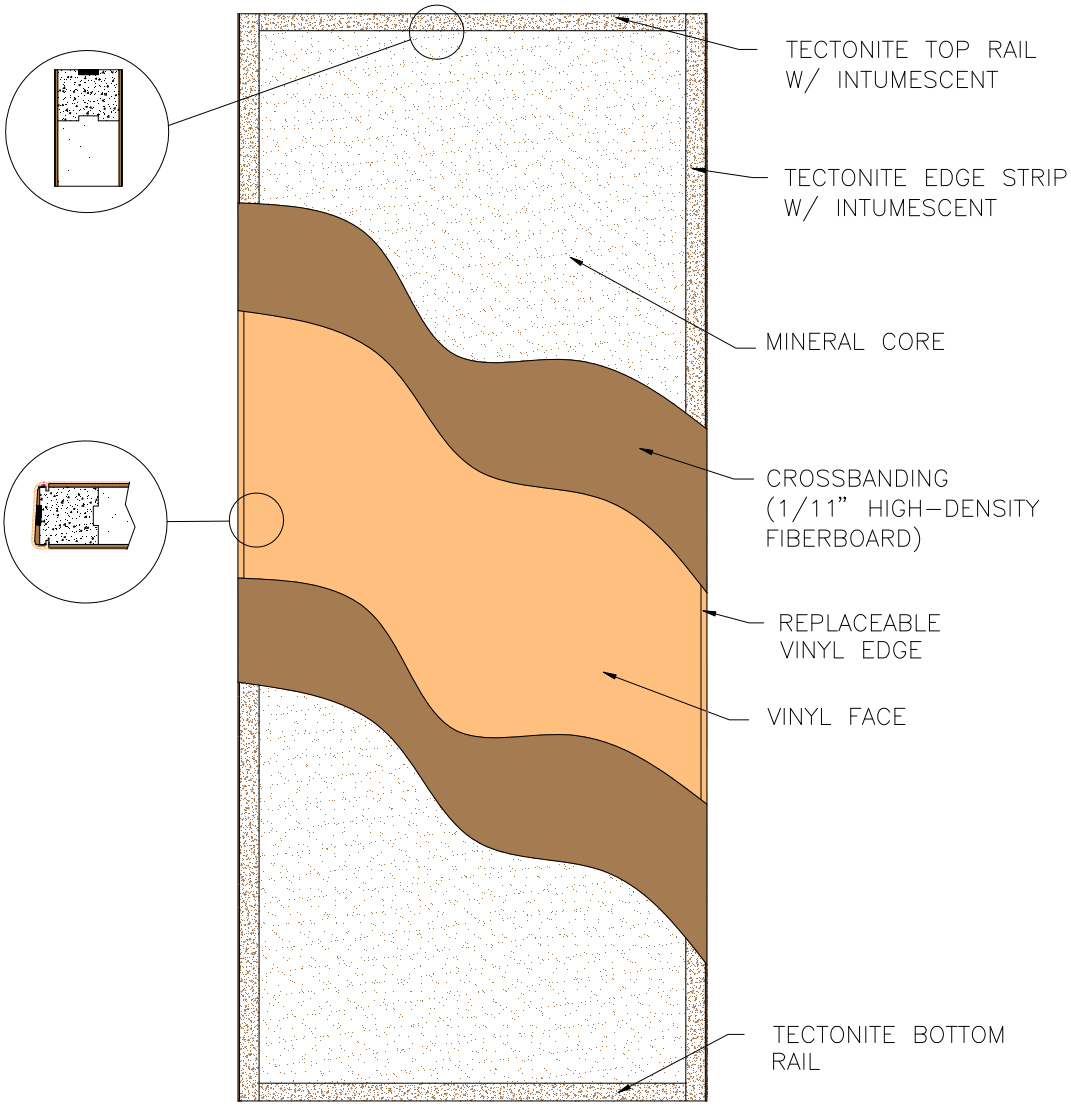
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164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

email: sales@eggersindustries.com

45 & 60 Minute Vinyl Mineral Core Fire Door (Category A)
Removable Edge
Door Construction

No. 624-04-10

Eggers Industries



Eggers Industries

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5-Ply Flush Doors - Stock Bead Details

(Contact Sales for Use in Stile & Rail)

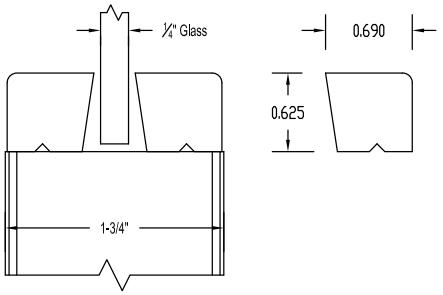
(Pricing May Vary - Please Contact Your Project Coordinator for Pricing Information)

Construction Details 296

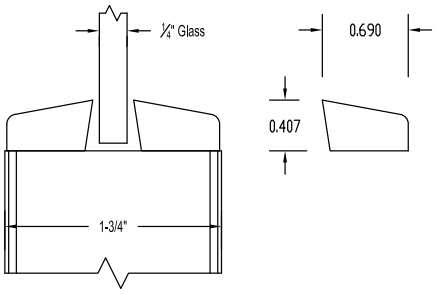
Date: April, 2013

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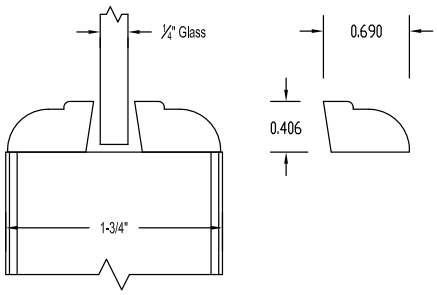
Please note: The standard downset for flush beads without reveals is 1/64”.



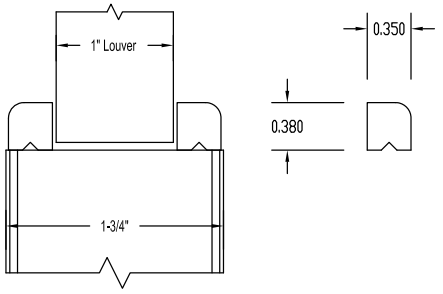
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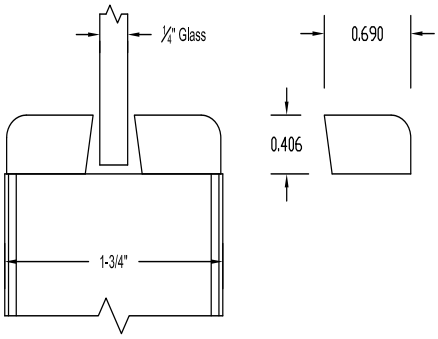
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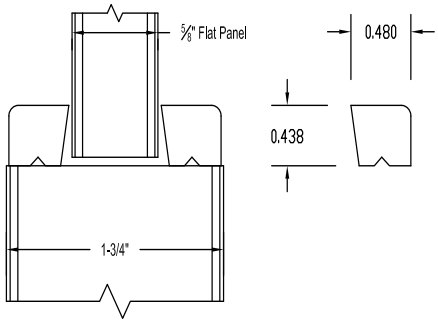
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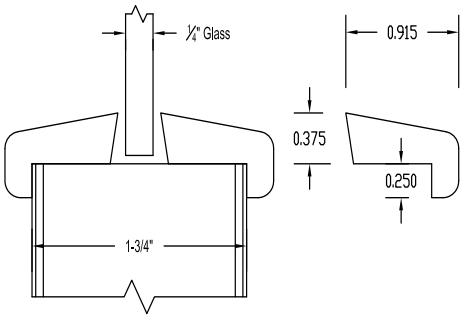
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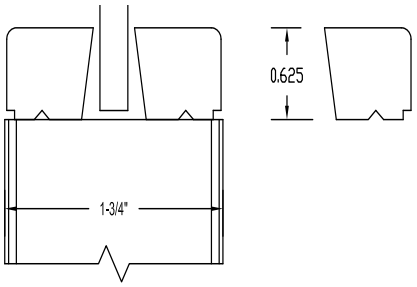
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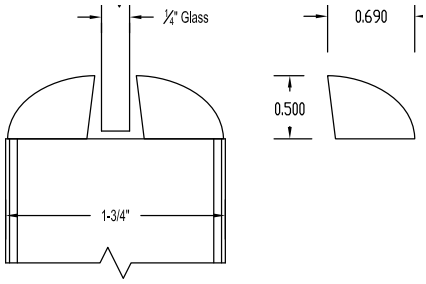
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#107



#108



#109

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Veneered Components

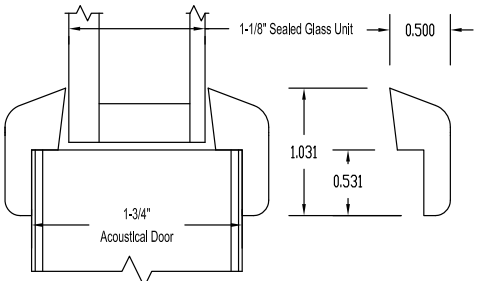
Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
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Fax: 920.793.2958

Flush Doors

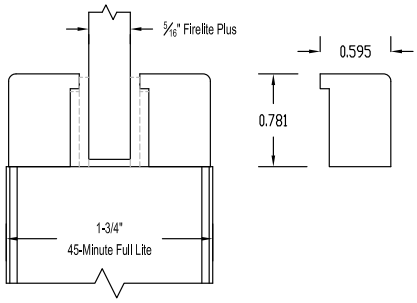
Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces,
Custom Wood Products,
Plywood

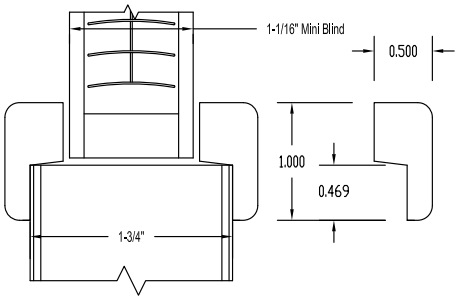
Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.849.0444



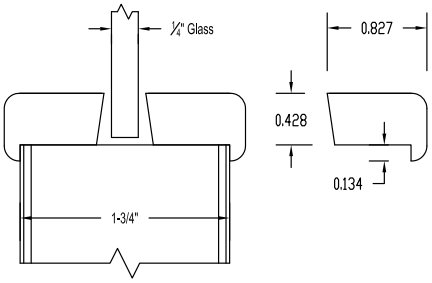
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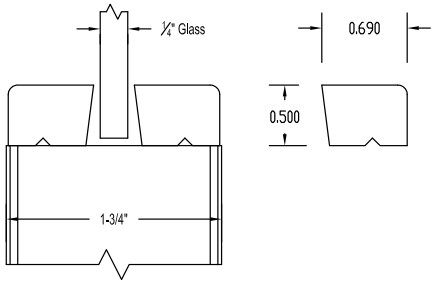
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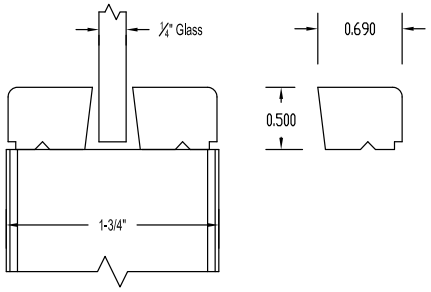
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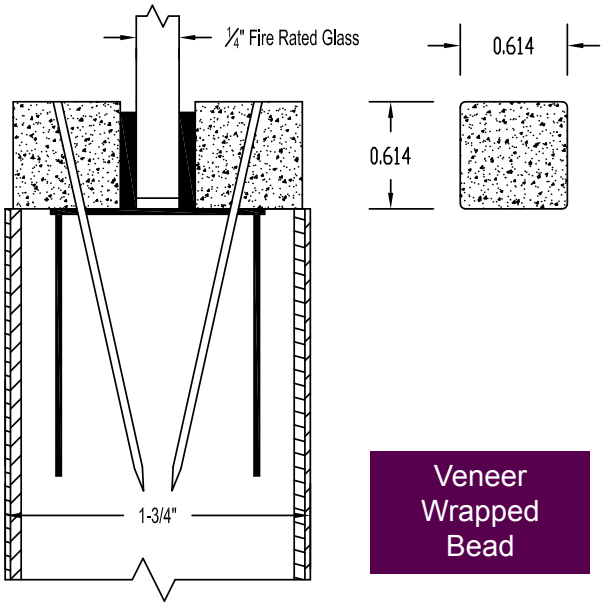
#120



#200



#208



Veneer Wrapped Bead

Calculating Visible Lite Dimension

Profile	Visible Lite = Cutout - Dimension Listed Below
100	1-1/4”
101	13/16”
103	13/16”
104	3/4”
105	13/16”
106	7/8”
107	3/4”
108	1-1/4”
109	1”
110	1”
114	1-9/16”
115	1-1/16”
120	55/64”
200	1”
208	1”
Veneer Wrapped Bead	1-1/4”

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Neenah, WI 54956
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Fax: 920.722.0357

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Plywood

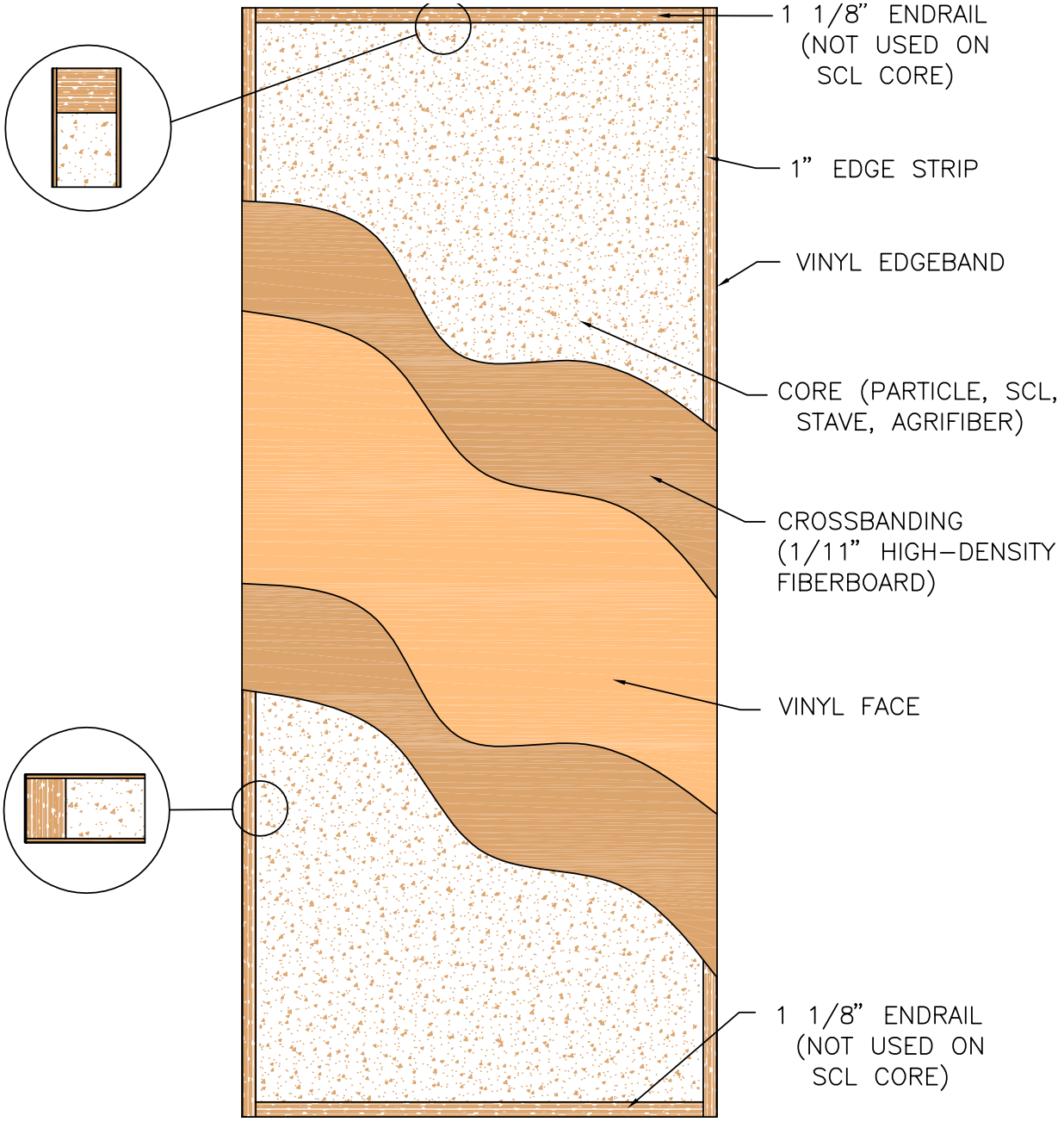
Kentucky Division
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Smithfield, KY 40068
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Fax: 502.849.0444

NON-RATED VINYL-CLAD FIXED EDGE

Door Elevation

Date: June, 2015

Eggers Industries



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Architectural Veneer Faces,
Custom Wood Products,
Plywood

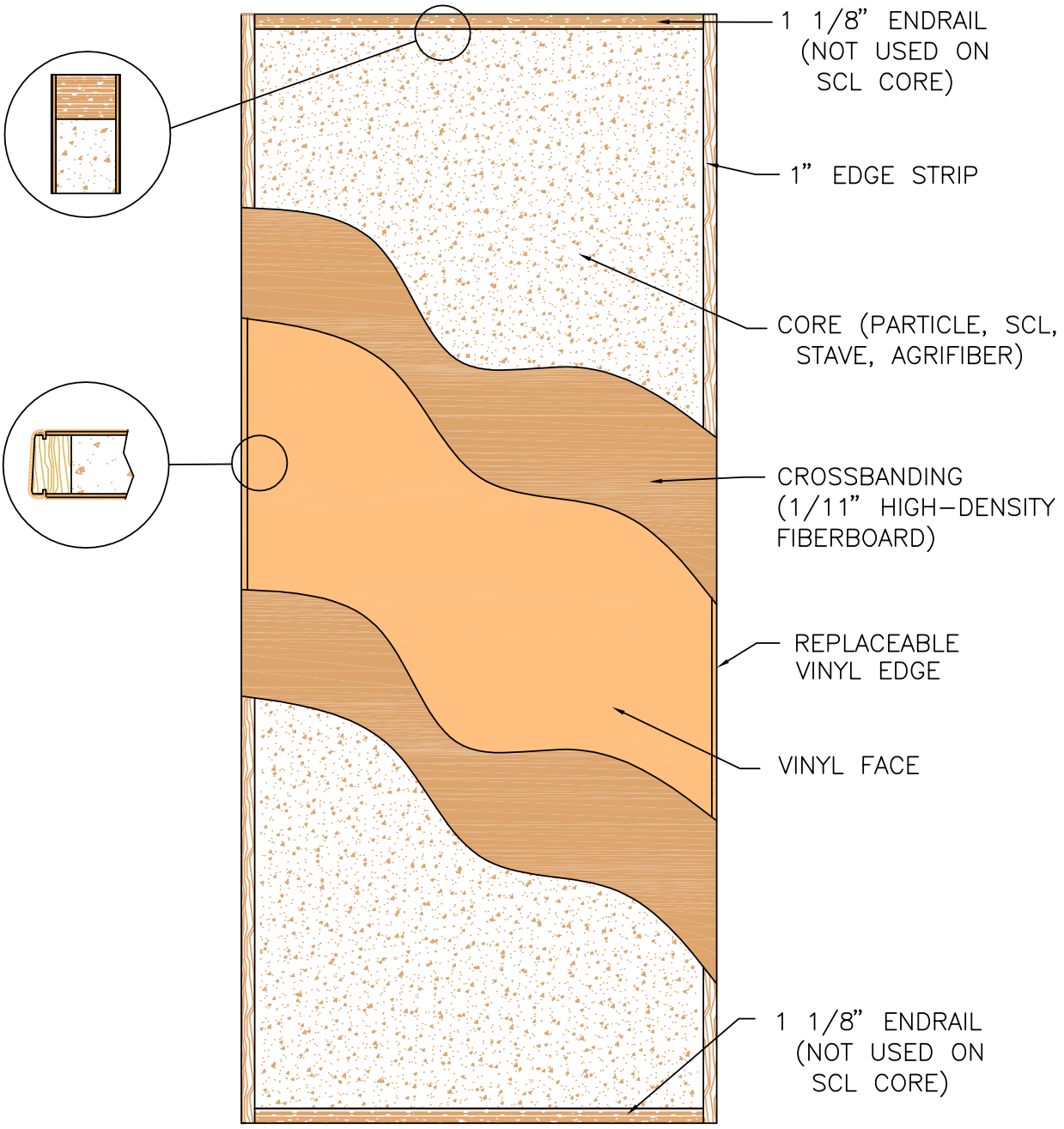
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Fax: 502.845.0615

NON-RATED VINYL-CLAD REMOVABLE EDGE

Door Elevation

Date: June, 2015

Eggers Industries



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Architectural Veneer Faces,
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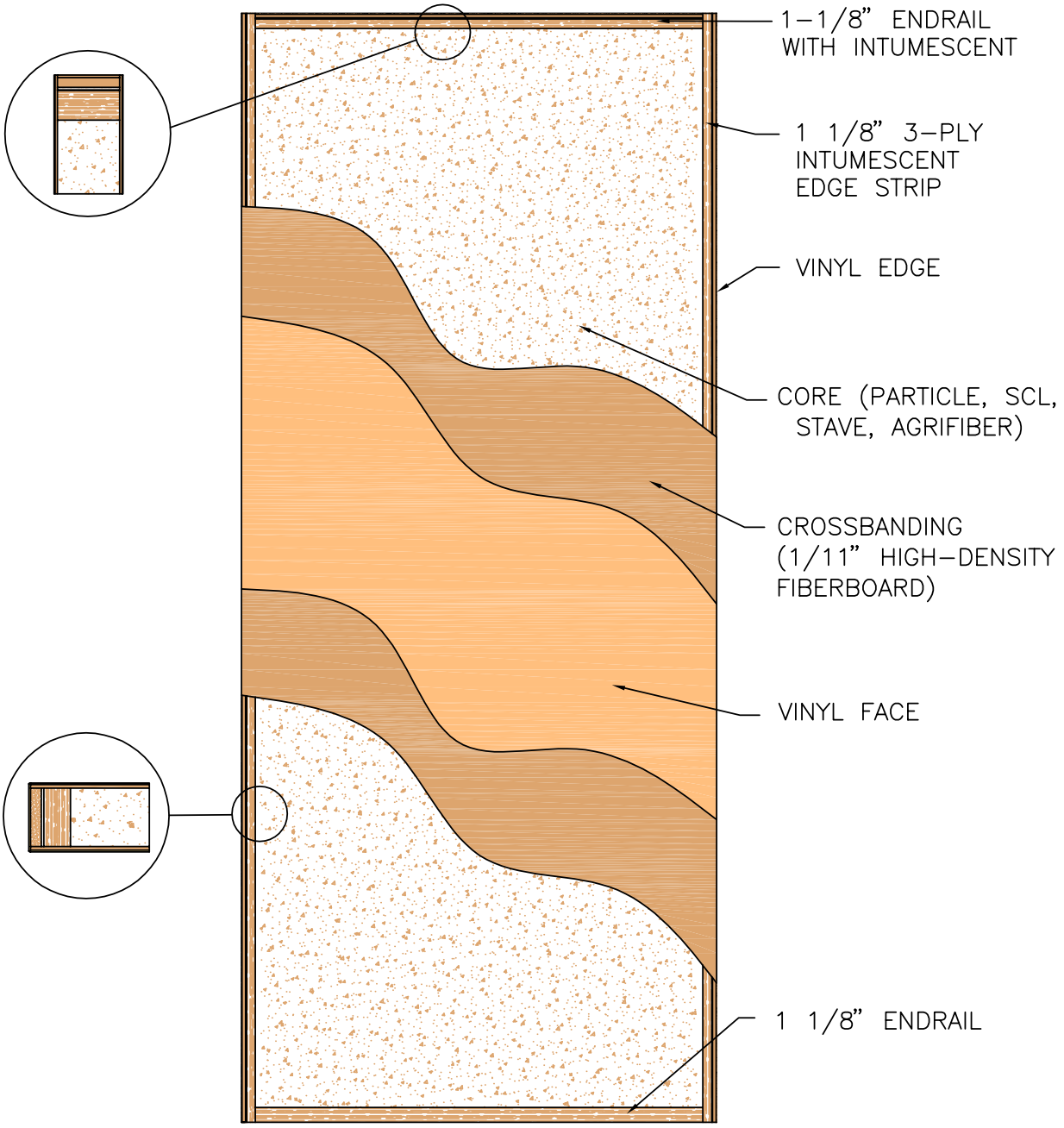
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Smithfield, KY 40068
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20-MINUTE VINYL-CLAD FIXED EDGE (PP/CAT A)

Door Elevation

Date: June, 2015

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Plywood

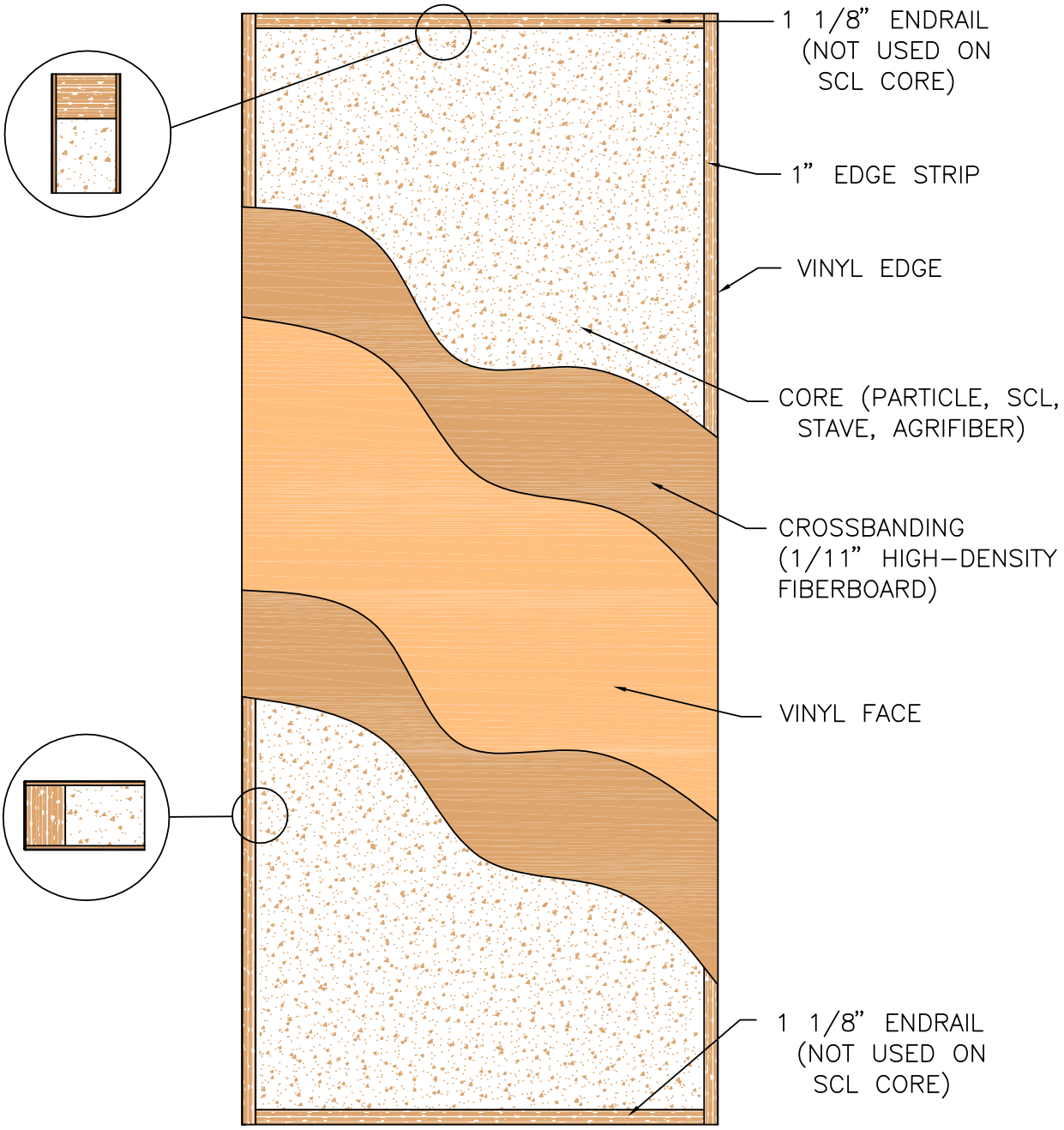
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20-MINUTE VINYL-CLAD FIXED EDGE (PP/CAT B)

Door Elevation

Date: June, 2015

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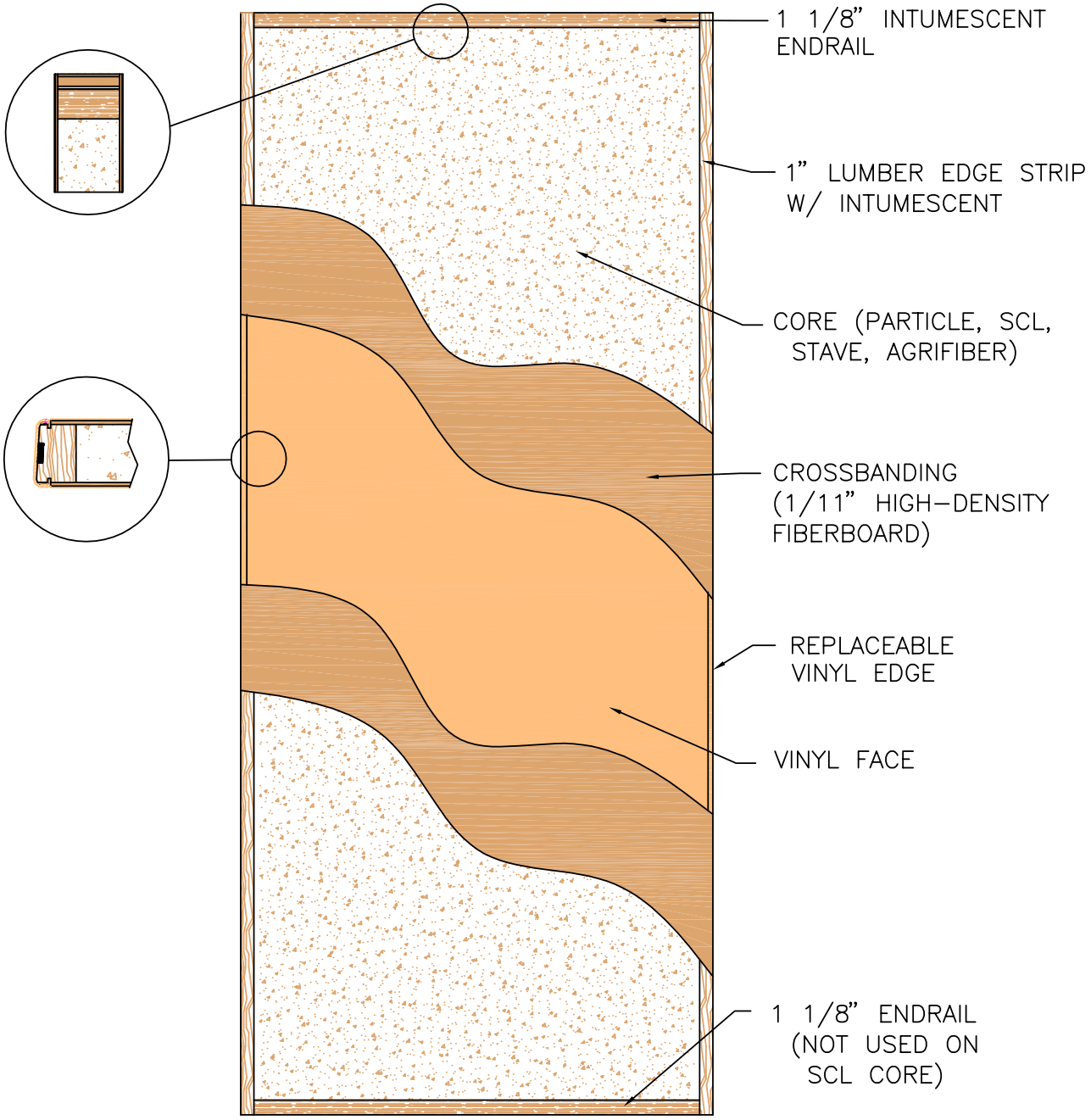
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20-MINUTE VINYL-CLAD REMOVABLE EDGE (PP/CAT A)

Door Elevation

Date: June, 2015

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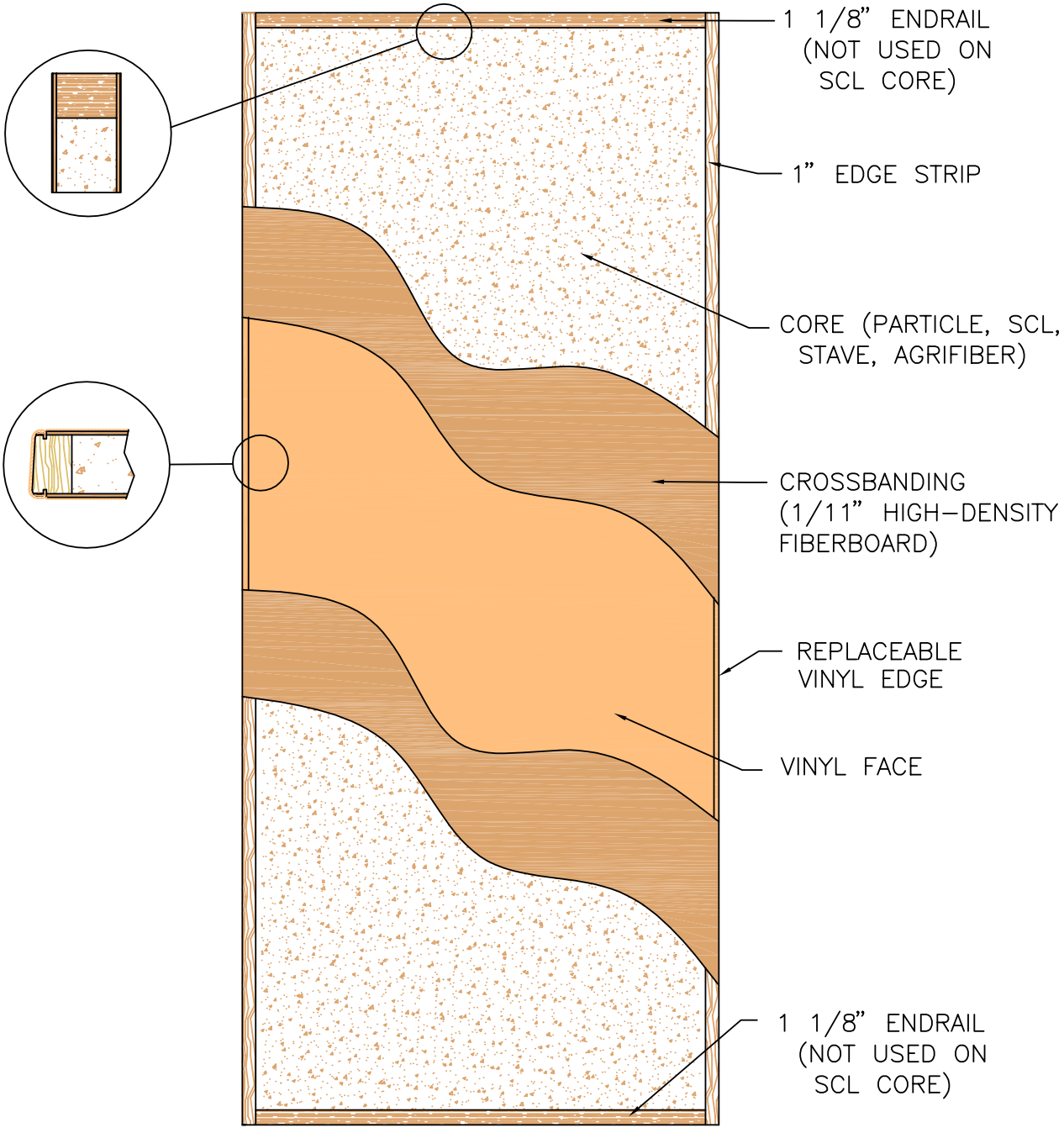
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20-MINUTE VINYL-CLAD REMOVABLE EDGE (PP/CAT B)

Door Elevation

Date: June, 2015

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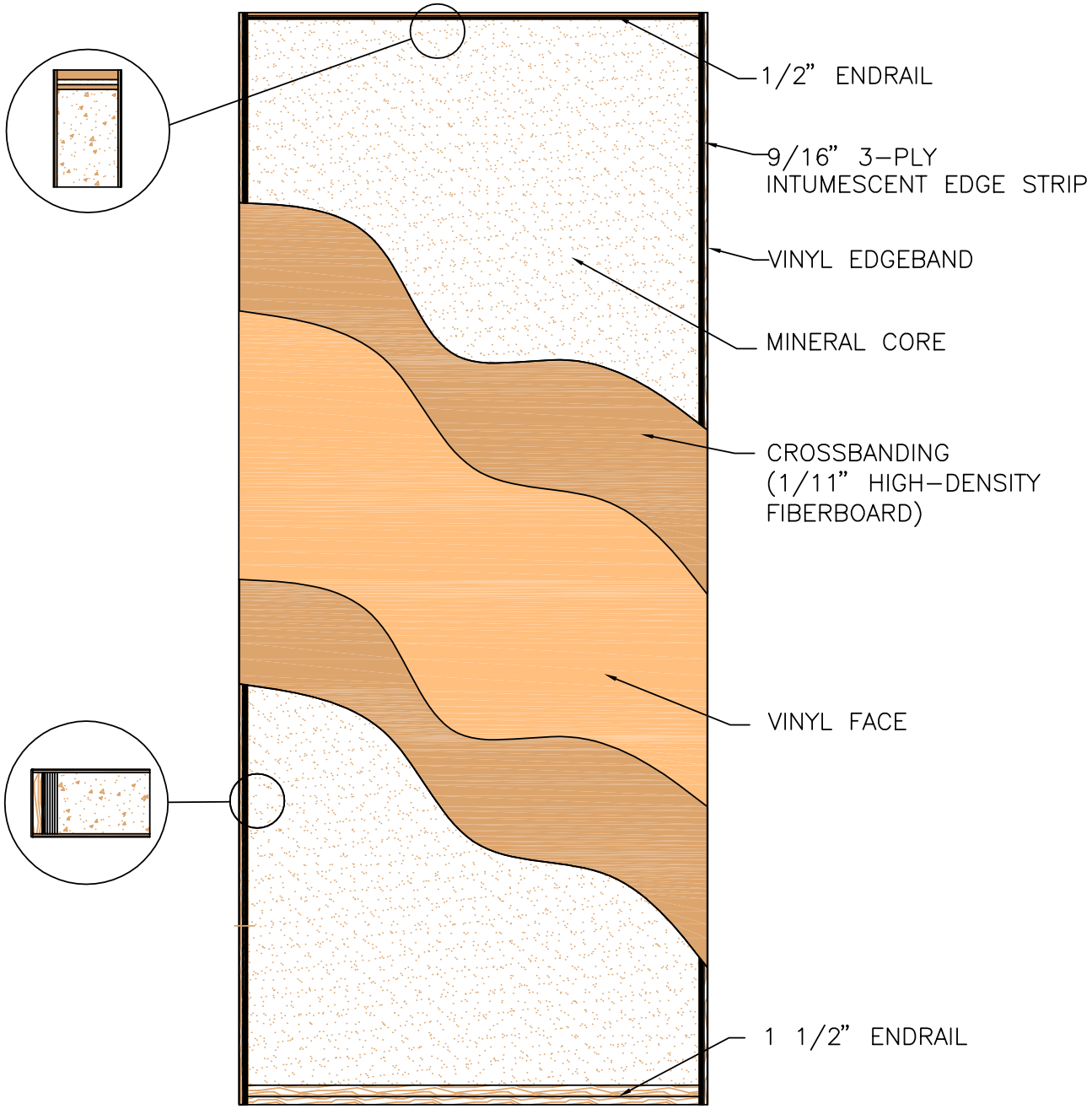
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Fax: 502.845.0615

45-90-MINUTE VINYL-CLAD FIXED EDGE (PP/CAT A)

Door Elevation

Date: June, 2015

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Fax: 920.722.0357

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Custom Wood Products,
Plywood

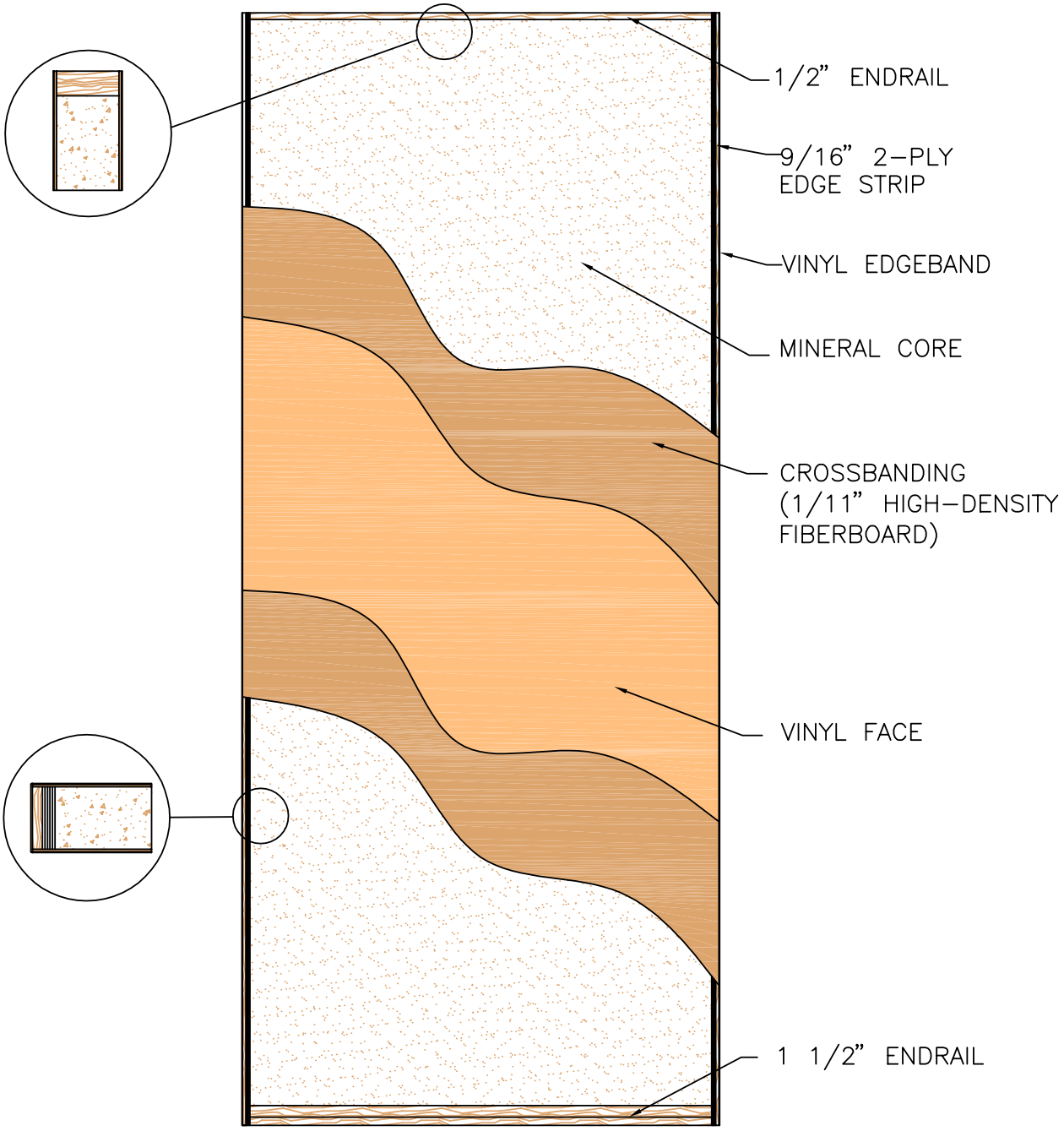
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45-90-MINUTE VINYL-CLAD FIXED EDGE (PP/CAT B)

Door Elevation

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Fax: 502.845.0615

SOUNDWOOD ACOUSTICAL CAPABILITIES

Product Offering Chart

Date: April, 2014

Eggers Industries

DOOR TYPE & SWING	STC RATING	DOOR THICK-NESS	AVAILABLE FIRE RATING	GASKET SYSTEM	GLAZING SYSTEM	GLAZING TYPE	GLAZING AREA (sq in)	WEIGHT (sq ft)	TEST REPORTS
Flush Single Swing	52 [1]	1-3/4"	NR	S or T	NA	---	---	12.0	C5765.03
	51 [1]	1-3/4"	NR	U	NA	---	---	12.0	C5765.03
	51	2 1/4"	20	A	NA	---	---	15.8	TL94-37
	50 [1]	1-3/4"	NR	S or T	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C5765.04
	49 [1]	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A
	48	1-3/4"	20	A	NA	---	---	13.7	TL97-320
	48	2 1/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	15.8	TL95-350
	47	2 1/4"	20	A	VP:110-D2	Pyroswiss / 1/2" Laminated	400 (max)	15.8	TL95-351
	47	1-3/4"	60-45	A	NA	NA	NA	15.7	TL03-023
	46	1-3/4"	60-45	A	VP: Lo Pro IS	1" Rated IGU	100 (max)	15.7	TL03-024
	45	1-3/4"	20	A	NA	---	---	7.7	TL94-220
	44	1-3/4"	20	I	NA	---	---	7.7	TL10-134
	43	1-3/4"	NR	P	NA	---	---	7.9	100534284CRT-001k
	43	1-3/4"	20	A	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	100 (max)	7.7	TL03-020
	43	1-3/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	7.7	TL03-019
	43	1-3/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	13.6	TL03-022
	42	1-3/4"	20	U	NA	---	---		C5765.01
	42	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j
	42	1-3/4"	NR	A	Bead: 107	1/2" Laminated	400 (max)	7.7	TL03-021
	41	1-3/4"	NR	B	Bead: 107	1/2" Laminated	400 (max)	6.5	TL03-012
	41	1-3/4"	NR	B	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	6.5	TL03-013
	41	1-3/4"	20	A	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	400 (max)	7.7	TL95-348
	41	1-3/4"	45	B	VP: Lo Pro IS	1" Rated IGU	400 (max)	9.2	TL97-313
	40	1-3/4"	NR	M	Bead: 110	1-1/8" Non-Rated IGU	1296 (max)	6.7	TL10-141
	40	1-3/4"	20	B	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	400 (max)	7.7	TL95-347
	40	1-3/4"	45	A	NA	---	---	9.2	TL95-349
	40	1-3/4"	90-60-45	C	NA	---	---	7.6	TL06-051
	39	1-3/4"	45	B	NA	---	---	9.2	TL95-346
	39	1-3/4"	90-60-45	I	NA	---	---	7.7	TL06-053
	38	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (min)	6.7	C7672.01B
	37	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	Full Lite (min 47% of area)	5.9	TL05-052
	37	1-3/4"	60-45	I	VP: 115-L1	Firelite Plus / Leaded	100 (max)	10.3	TL05-126
	37	1-3/4"	20	I	Bead: 100	Firelite Plus	400 (max)	6.0	TL05-051
	36 [2]	1-3/4"	20	P	NA	---	---	6.3	100534284CRT-001l
	36	1-3/4"	60-45	I	NA	---	---	10.2	TL05-125
	36	1-3/4"	20	N	NA	---	---	7.1	100534284CRT-001f
	35	1-3/4"	20	M	NA	---	---	10.0	TL10-142
	35	1-3/4"	90-60-45	R	NA	---	---	7.2	A5305.02-113-11
	35	1-3/4"	NR	I	Bead: 107	1/2" Laminated	1296 (min)	6.2	TL10-138
	35 [2]	1-3/4"	NR	O	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	7.3	TL10-144
	35 [2]	1-3/4"	20	I	NA	---	---	7.3	TL10-136
	34	1-3/4"	NA	B	Bead: 107	1/2" Laminated	1296 (min)	6.2	TL10-138
	34	1-3/4"	NA	I	LoPro IS	1/2" Laminated	400 (min)	6.1	TL10-135
	34 [2]	1-3/4"	20	Q	NA	---	---	6.3	100534284CRT-001m
	33	1-3/4"	NA	I	Bead: 107	1/2" Laminated	400 (min)	6.1	TL10-133
	33	1-3/4"	20	Q	NA	---	---	6.9	100534284CRT-001n
	33 [2]	1-3/4"	20	N	NA	---	---	6.3	100534284CRT-001d 100534284CRT-001e
	32	1-3/4"	20	Q	NA	---	---	5.5	100534284CRT-001o 100534284CRT-001p
	32	1-3/4"	20	I	NA	---	---	6.9	TL06-059
	32	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (max)	6.9	TL06-059 & TL97-313
	32	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	6.9	TL06-059 & TL03-013
	32	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (max)	6.9	TL06-059 & TL03-012
	32	1-3/4"	20	N	NA	---	---	6.9	100534284CRT-001b
	31	1-3/4"	20	I	NA	---	---	5.8	TL06-058, TL10-129
	31	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (max)	5.8	TL06-058 & TL97-313
	31	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	5.8	TL06-058 & TL03-013
	31	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (max)	5.8	TL06-058 & TL03-012
	31	1-3/4"	NR	N	NA	---	---	5.5	100534284CRT-001a

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SOUNDWOOD ACOUSTICAL CAPABILITIES

Product Offering Chart

Date: April, 2014

Eggers Industries

	30	1-3/4"	20	I	NA	---	---	4.6	TL06-056
	30	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (max)	4.6	TL06-056 & TL97-313
	30	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	4.6	TL06-056 & TL03-013
	30	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (max)	4.6	TL06-056 & TL03-012
	29	1-3/4"	90-60-45	I	NA	---	---	4.4	TL06-057
	27	1-3/4"	20	I	NA	---	---	4.9	TL07-035
	27	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (max)	4.9	TL07-035 & TL97-313
	27	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	4.9	TL07-035 & TL03-013
	27	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (max)	4.9	TL07-035 & TL03-012

Please note: All acoustic doors are available as "No Added UF" and "Phase 2 Carb Compliant" [1] U.S. Patent No. 8,573,357 [2] Available as FSC® certified

DOOR TYPE & SWING	STC RATING	DOOR THICK-NESS	AVAILABLE FIRE RATING	GASKET SYSTEM	GLAZING SYSTEM	GLAZING TYPE	GLAZING AREA (sq in)	WEIGHT PER SQ. FT.	TEST REPORTS
Stylus	33	1-3/4"	20	I	NA(7)	---	---	5.5	TL07-057
	32	1-3/4"	20	I	NA(7)	---	---	6.2	TL07-058
	31	1-3/4"	90-60-452	I	NA	---	---	4.3	TL07-059
Flush Active-Inactive Pairs (2)	49	1-3/4"	20	A	NA	---	---	13.7	TL98-238
	44	1-3/4"	20	A	NA	---	---	7.7	TL98-236
	41	1-3/4"	20	B	NA	---	---	7.7	TL98-233
Flush Active-Active Pairs (3)	41	1-3/4"	20	K	NA	---	---	6.2	TL08-007
	40	1-3/4"	NR	K	Bead: 100	1/2" Laminated	400 (max)	6.3	TL08-009
	34	1-3/4"	45	K	VP: Lo-Pro IS	Superlite II-XL-45	Full Lite (min 47% of area)	6.5	TL11-111
	31	1-3/4"	90-60-45	K	NA	---	---	7.2	TL11-110
	31	1-3/4"	20	K	NA	---	---	6.4	TL11-112 TL11-113
Dutch Door	44	1-3/4"	20	A	NA	---	---	7.7	TL98-237
Door & Transom	44	1-3/4"	20	A	NA	---	---	7.7	TL98-237
Communicating	53	1-3/4"	20	B	NA	---	---	7.7	TL93-219
Stile & Rail Single Swing	40	1-3/4"	NR	B	NA	---	---	8.3	TL99-120
	40	1-3/4"	NR	A	Bead: 110	Non-Rated IGU	400 (max)	8.3	TL99-122
	39	1-3/4"	NR	I	Bead: 110	Non-Rated IGU	1296 (max)	7.0	TL05-123
	38	2 ¼"	90-60-45	A	NA	---	---	12.5	TL97-321
	37	2 ¼"	90-60-45	B	NA	---	---	12.5	TL97-312
	36	1-3/4"	60-45	B	NA	---	---	9.7	TL97-317
	33	1-3/4"	20	B	NA	---	---	5.9	TL94-41
	33	2 ¼"	20	B	NA	---	---	6.9	TL97-311
Stile & Rail Active-Active Pairs	37	1-3/4"	NR	K	NA	---	---	7.9	TL11-109
	35	1-3/4"	60-45	K	NA	---	---	10.2	TL11-108
	32	1-3/4"	20	K	NA	---	---	5.9	TL11-107

(1) All acoustic doors are available as "No Added UF" and "Phase 2 Carb Compliant"

(2) Test was conducted as an active/inactive pair installation and requires Eggers overlapping wood astragal

(3) Test conducted as an active/active pair with top latching surface hardware

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SOUNDWOOD ACOUSTICAL CAPABILITIES

Product Offering Chart

Date: April, 2014

Eggers Industries

ACOUSTICAL GASKETING AND UNDERCUTTING		
GASKET SYSTEM	**COMPONENTS**	**REQUIRED UNDERCUT**
A	Double row Pemko S-88 gasket, Pemko 434 door bottom, Pemko 2005 threshold	1/2"
B	Double row Pemko S-88 gasket, Pemko 434 door bottom	1/4"
C	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 2005 threshold	3/8"
I	Double row Pemko S-88 gasket, Zero 369 door bottom	5/8"
K	Double row Pemko S-88 gasket and pad on frame, Zero 369 door bottom, one row of Pemko S-1125 on each meeting edge	5/8"
M	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 151 flat threshold	3/8"
N	DHSI 105, DHSI AMDB3-3, & DP*	1/4" to 3/8"
O	Pemko 773, Pemko 234 door shoe, Flat smooth threshold	3/8"
P	DHSI 105, SA, CS, DP	3/8"
Q	DHSI 105, Pemko 2005	3/8"
R	Zero 119W, Zero 8145S, Zero 369	5/8"
S	2008STCxQ380 Threshold, S44 and 312R	3/8"
T	2008STCxQ380 Threshold, S773 and S44	3/8"
U	Pemko PDB411, S773, S44 and ACP112	3/8" (1/4"-1/2")
* DP375 is used for the Solid Wood Edge Option (SWE); DP250 is used for full width mortise or CS		
Notes:Eggers standard offering for the Pemko 434 is the ARL seal and for the Pemko 2005 is the AT seal		

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Lumber Used on Woodland eiDoors® (Woodgrain Vinyl)

Information Bulletin

No. 444-10-09

Eggers Industries

We are changing our default finish for lumber components used on our eiDoors® having wood grained vinyl faces. This will include the lumber used for radius edges, wood beads and louvers. Our standard for these doors will be “stained to match”. There are currently several different “Woodland” options. Please refer to the table below to select the lumber specie we will be using with each of these face options.

Woodland Face	Lumber Components
Natural Maple 0531	White Maple
Applewood 0537	White Maple
Boston Cherry 0534	White Maple
Honey Nut 0535	White Maple
Hazelwood 0536	White Maple
Santa Rosa Oak 0532	Red Oak
Chatsworth Oak 0533	Red Oak

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20-Minute Fire Rated Doors

20-Minute Pyroswiss Glass

No. 432-07-08

Eggers Industries

Our standard non-wired glass offering for 20-minute doors is Pyroswiss.

This glazing:

- is nominally 1/4” thick.
- is available with any of our standard wood beads having a stop height of at least 3/8”
- requires 1/8” clearance between the glass and cutout on all four edges
- is fire rated for 20 minute doors only
- is safety rated
- is approved for a maximum height of 87-9/16”
- is approved for a maximum area of 2,868 sq. inches
- is not available in dimensions where the length is greater than 10 times the width
- has the following restrictions:
  - ✓ Minimum dimension of 4” (length or width)
  - ✓ Standard minimum diagonal dimension of 14” visible

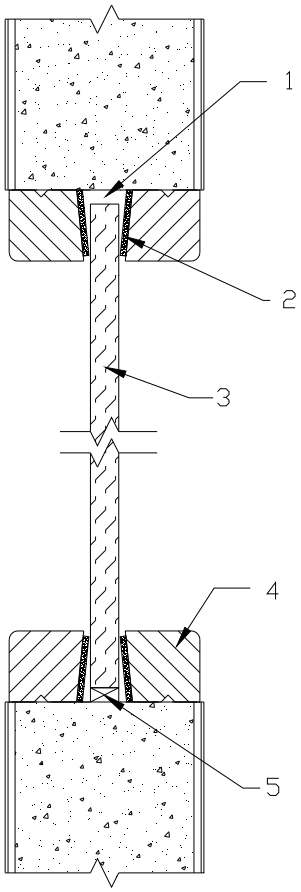
The following can be done with Pyroswiss (we will need to contact the manufacturer for prices):

- Glass can be radiused convex but not concave (the minimum radius for use with a wood bead is 6”)
- Can be etched (design or logo)
- Can have beveled edges
- Can be obscured

Note: Pyroswiss glazing must be allowed room to expand, and will be installed using 1/8” setting blocks (See Eggers glazing instructions for a full description of the installation procedure). Check with Eggers’ product development department before specifying for use in a metal vision panel, as the required setting blocks are incompatible with many metal vision panels.

Pyroswiss Glass in Wood Bead

1. 1/8" clearance between glass and cutout
2. Glazing tape or caulk
3. 1/4" Pyroswiss glass
4. Wood Bead (shown with #100 profile)
5. 1/8"x 1/8"x 3" neoprene setting block (at quarter points of cut-out)



Glazing Dimension:
Width = Cutout minus 1/4"
Length = Cutout minus 1/4"

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45-Minute Full Lite Doors

Information Bulletin 357

Date: July 2012

Eggers Industries

Eggers has approval to manufacture 45-minute full lite singles and pairs, utilizing our 11-ply construction with the following requirements/limitations.

1. Maximum size of doors
   a. Singles 4-0 X 10-0
   b. Pairs 8-0 X 8-0 (UL & WH); 8-0 X 9-0 (WH)*
   c. DE Pairs 8-0 X 8-0
2. Glazing types: any of the 45-min safety-rated glass types shown on Eggers Fire-Rated Glazing Matrix
3. Wood bead, for glazing up to 5/16” thick, will be profile 114 and will require metal glazing clips.
4. Glazing sizes. This construction allows glazing up to 1714 square inches in area. Refer to Eggers Fire-Rated Glazing Matrix for specific glass/frame applications.
5. Minimum 3” between lock and lite cut-outs Minimum margins: 10” bottom rail, 6” top rail, and 6” stiles
6. Where allowed, the 114 bead can be used with plastic-faces doors. For this application the bead will be rounded to match the radius corners of the lite cut-out.
7. Grillwork available
8. CVR Hardware
   a. CVR approval is by device due to the differences in channel dimensions. The only approved devices are Sargent and Adams Rite.
   b. CVRs on pairs are only available up to 8’.

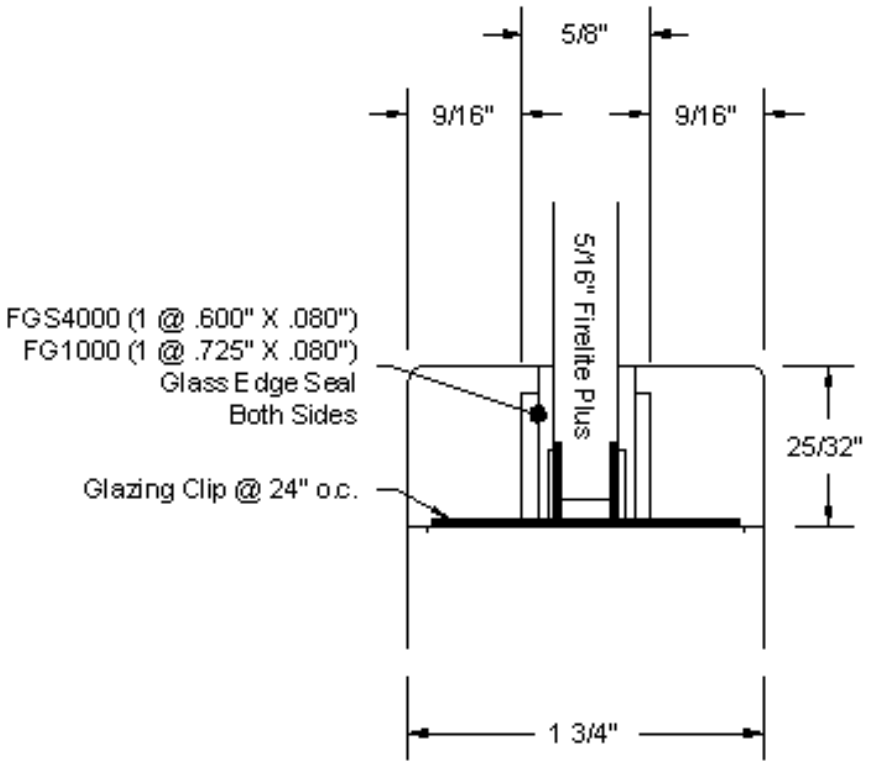
* Warnock Hersey only, requires 5” Tectonite rails and stile blocking

45-Minute Full Lite Doors

Information Bulletin 357

Date: May 2012

Eggers Industries



STOP DETAIL FOR DOORS - #114

45 Minute Full Lite Singles or Pairs
Maximum Visible Lite: 1714 sq. in.
Maximum Height: 86 1/2"
Maximum Width: 36"

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Doors used for Smoke Control

Information Bulletin 462

Date: March, 2013

Eggers Industries

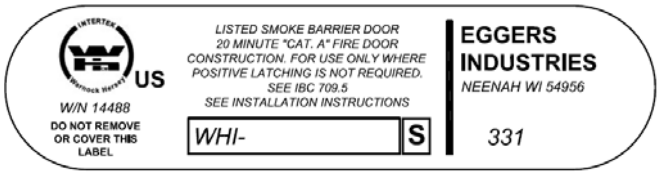
Smoke Barriers and Smoke Partitions are terms used in the building codes to define two different applications.

Typically doors in smoke barriers are rated doors however there is an exception for a specific non-latching cross-corridor double–egress application. When we used the term smoke barrier door or smoke barrier label we are referring to this exception.

Smoke partitions are non-rated and the doors protecting their openings are non-rated. They are however required to be self-closing and gasketed to meet air leakage requirements.

The table below compares the door allowed for the smoke barrier exception and smoke partition doors.

	Smoke Barrier Door	Smoke Partition Door
Intended Use	Double egress pairs installed across a rated egress corridor, healthcare	Non-rated partitions where smoke control is required
Closing	Requires self-closing hardware	Requires self-closing hardware
Latching	Push-Pull hardware allowed in lieu of self-latching hardware	Typically requires self-latching hardware, but it does not have to be machined under label inspection
Construction	20-minute constructed – leaf sizes, glazing, construction, clearances all per fire door approvals	Non-rated construction and glazing; restriction based on warranty not approvals
Labeling	Warnock Hersey has a special label for this (see sample below); not available with a UL label	Non-Agency Eggers label (see sample below)





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Fire Rated Glazing
Information Bulletin #447

Date: December 2016

Eggers Industries

The following 4 pages include an approvals matrix of glazing products available for use as lites in fire rated doors and an installation matrix of the installation options available for each glazing type. Please contact Product Development regarding glass types not shown.

The dimensions shown are based on the door and glazing approvals. These may be further restricted by the approval of the vision frame selected.

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Fire Rated Glazing
Information Bulletin #447

Date: December 2016

Eggers Industries

Approvals

WIRED GLASS		Thickness	Safety (Impact) Rated	Passes Hose stream Test	Option to Factory Glazing	Max size in 20-min std construction	Max size in 20-min full-lite construction	Max size in 45-min std construction	Max size in 45-min full-lite construction	Max size in 60-min std construction	Max size in 90-min std construction
Superlite I-W	Non-Temperature Rise Doors	5/16" (0.304)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq inches	36" wide, 84" high, 2856 sq inches	36" wide, 54" high, 1296 sq inches	36" wide, 54" high, 1296 sq inches	12" wide, 54" high; 648 sq inches	10" wide, 33" high; 100 sq inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq. inches	10" wide, 33" high, 100 sq. inches
SAFE-Wire	Non-Temperature Rise Doors	1/4"	Yes	Yes	Yes	35-3/4" wide, 54" high, 1296 sq inches	35-3/4" wide, 87-9/16" high, 2868 sq inches	36" wide, 54" high, 1296 sq inches	36" wide, 54" high, 1296 sq inches	12" wide, 33" high, 100 sq. inches	12" wide, 33" high, 100 sq. inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq. inches	12" wide, 33" high, 100 sq. inches
Wirelite NT	Non-Temperature Rise Doors	1/4" (0.259)	Yes	Yes	Yes	34-3/4" wide, 54" high, 1296 sq inches	34-3/4" wide, 87-9/16" high, 2868 sq inches	36" wide, 54" high, 1296 sq inches	34" wide, 84" high, 1714 sq inches	12" wide, 54" high; 648 sq inches	12" wide, 46" high; 552 sq inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	10" wide, 33" high, 100 sq. inches	10" wide, 33" high, 100 sq. inches
FIRE-PROTECTION GLAZING		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Max size in 20-min std construction**	**Max size in 20-min full-lite construction**	**Max size in 45-min std construction**	**Max size in 45-min full-lite construction**	**Max size in 60-min std construction**	**Max size in 90-min std construction**
Firelite NT	Non-Temperature Rise Doors	3/16" (0.201)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 87-9/16" high, 2868 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 86-1/2" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Firelite Plus	Non-Temperature Rise Doors	5/16" (0.350)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 87-9/16" high, 2868 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 86-1/2" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Superlite X-90	Non-Temperature Rise Doors	3/4"	Yes	Yes	Yes	Not Applicable		10" wide, 33" high, 100 sq inches	Not Applicable	10" wide, 33" high, 100 sq inches	10" wide, 33" high, 100 sq inches
	Temperature Rise Doors					Not Applicable	Not Applicable	10" wide, 33" high, 100 sq inches	Not Applicable	10" wide, 33" high, 100 sq inches	10" wide, 33" high, 100 sq inches
Superlite C/S	Non-Temperature Rise Doors	3/16" (0.187)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" Wide, 77" high, 2772 sq inches	36" wide, 54" high, 1296 sq Inches	36" Wide, 77" high, 1714 sq inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Pyran Platinum F	Non-Temperature Rise Doors	3/16" (0.194)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 76" high, 2736 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 76" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Pyran Platinum L	Non-Temperature Rise Doors	3/8" (0.362)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 75" high, 2700 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 75" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Keralite FR-F	Non-Temperature Rise Doors	3/16" (0.201)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 78" high, 2808 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 78" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Keralite FR_L	Non-Temperature Rise Doors	5/16" (0.340)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 78" high, 2808 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 78" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	10" wide, 33" high, 100 sq inches	10" wide, 33" high, 100 sq inches
PyroStop (45, 60)	Non-Temperature Rise Doors	3/4" and 7/8" respectively	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in	36" wide, 86-1/2" high, 1714 sq Inches	36" wide, 54" high, 1296 sq in	Not Allowed
	Temperature Rise Doors							Not Applicable	Not Applicable	Not Applicable	

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Fire Rated Glazing
Information Bulletin #447

Date: December 2016

Eggers Industries

Approvals (continued):

20-MIN CLEAR GLAZING		Thickness	Safety (Impact) Rated	Passes Hose Stream Test	Option to Factory Glazing	Max size in 20-min std construction	Max size in 20-min full-lite construction	Max size in 45-min std construction	Max size in 45-min full-lite construction	Max size in 60-min std construction	Max size in 90-min std construction
PyroSwiss	Non-Temperature Rise Doors	1/4" (.222)	Yes Cat I & II	No	Yes	36" wide, 54" High, 1296 sq in	36" wide, 87-9/16" High, 2868 sq in	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
PyroEdge-20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	36" wide, 54" High, 1296 sq in	36" wide, 87-9/16" High, 2868 sq in	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
FireSAFE-20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	34" wide, 54" High, 1296 sq in	34" wide, 76" High, 2584 sq in	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
FireGlass 20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	36" wide, 54" High, 1296 sq in	36" wide, 87-9/16" High, 2868 sq in	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
SuperLite I	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	36" wide, 54" High, 1296 sq in	36" wide, 87-9/16" High, 2868 sq in	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
Pyrodur	Non-Temperature Rise Doors	0.313	Yes Cat I	No	Yes	36" wide, 54" High, 1296 sq in	Not Approved	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
FIRE-RESISTIVE GLAZING		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Max size in 20-min std construction**	**Max size in 20-min full-lite construction**	**Max size in 45-min std construction**	**Max size in 45-min full-lite construction**	**Max size in 60-min std construction**	**Max size in 90-min std construction**
SuperLite II-XL (45, 60, 90)	Non-Temperature Rise Doors	3/4", 1-1/8" and 1-1/2" respectively	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in	36" wide, 86-1/2" high, 1714 sq Inches	36" wide, 54" high, 1296 sq in	36" wide, 54" high, 1296 sq in
	Temperature Rise Doors										
PyroStop (90)	Non-Temperature Rise Doors	1-7/16"	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in
	Temperature Rise Doors										
ContraFlam or SwissFlam (45)	Non-Temperature Rise Doors	3/4"	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in	36" wide, 86-1/2" high, 1714 sq Inches	Not Approved	Not Approved
	Temperature Rise Doors										
ContraFlam or SwissFlam (60)	Non-Temperature Rise Doors	1"	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in	Not Approved
	Temperature Rise Doors										
ContraFlam or SwissFlam (90)	Non-Temperature Rise Doors	1-1/2"	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in
	Temperature Rise Doors										
Keralite FR_Ultra	Non-Temperature Rise Doors	3/4" (.719-.781)	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in	36" wide, 76" high, 1714 sq in	36" wide, 54" high, 1296 sq in	36" wide, 54" high, 1296 sq in
	Temperature Rise Doors										
INSULATED GLASS UNITS (IGU)		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Max size in 20-min std construction**	**Max size in 20-min full-lite construction**	**Max size in 45-min std construction**	**Max size in 45-min full-lite construction**	**Max size in 60-min std construction**	**Max size in 90-min std construction**
Firelite Plus 1" IGU	Non-Temperature Rise Doors	1"	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 87-9/16" high, 2868 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 86-1/2" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches

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Fire Rated Glazing
Information Bulletin #447

Date: December 2016

Eggers Industries

Installation:

WIRED GLASS		Thickness Advertized (Actual)	Safety (Impact) Rated	Passes Hose stream Test	Option to Factory Glazing	Installation in 20-min std construction	Installation in 20-min full-lite construction	Installation in 45-min std construction	Installation in 45-min full-lite construction	Installation in 60-min std construction	Installation in 90-min std construction
Superlite I-W	Non-Temperature Rise Doors	5/16" (0.304)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
SAFE-Wire	Non-Temperature Rise Doors	1/4"	Yes	Yes	Yes	Bead or MVP; min stop height is 5/8"	Bead or MVP; min stop height is 3/4"	Bead or MVP; min stop height is 5/8"	Bead or MVP; min stop height is 5/8"	Bead or MVP; min stop height is 5/8"	Bead or MVP; min stop height is 5/8"
	Temperature Rise Doors					Not Applicable				Bead or MVP; min stop height is 5/8"	Bead or MVP; min stop height is 5/8"
Wirelite NT	Non-Temperature Rise Doors	1/4" (0.259)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
FIRE-PROTECTION GLAZING		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Installation in 20-min std construction**	**Installation in 20-min full-lite construction**	**Installation in 45-min std construction**	**Installation in 45-min full-lite construction**	**Installation in 60-min std construction**	**Installation in 90-min std construction**
Firelite NT	Non-Temperature Rise Doors	3/16" (0.201)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
Firelite Plus	Non-Temperature Rise Doors	5/16" (0.350)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
Superlite X-90	Non-Temperature Rise Doors	3/4"	Yes	Yes	Yes	Not Applicable		Metal vision frame	Not Applicable	Metal vision frame	Metal vision frame
	Temperature Rise Doors					Not Applicable			Not Applicable		
Superlite C/S	Non-Temperature Rise Doors	3/16" (0.187)	Yes	Yes	Yes	Woodbead or metal vision frame with stop height of at least 5/8"	Woodbead or metal vision frame with stop height of at least 5/8"	Veneer-wrapped bead or MVP with stop height of at least 5/8"	Intumescent 114 bead or MVP with stop height of at least 5/8"	Veneer-wrapped bead or MVP with stop height of at least 5/8"	Veneer-wrapped bead or MVP with stop height of at least 5/8"
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or MVP with stop height of at	Veneer-wrapped bead or MVP with stop height of at
Pyran Platinum F	Non-Temperature Rise Doors	3/16" (0.194)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
Pyran Platinum L	Non-Temperature Rise Doors	3/8" (0.362)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
Keralite FR-F	Non-Temperature Rise Doors	3/16" (0.201)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
Keralite FR_L	Non-Temperature Rise Doors	5/16" (0.340)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
PyroStop (45, 60)	Non-Temperature Rise Doors	3/4" and 7/8" respectively	Yes Cat I & II	Yes	Yes	Not Applicable		Metal vision frame	Metal vision frame	Metal vision frame	Not Applicable
	Temperature Rise Doors										

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Fire Rated Glazing
Information Bulletin #447

Date: December 2016

Eggers Industries

Installation (continued):

20-MIN CLEAR GLAZING		Thickness	Safety (Impact) Rated	Passes Hose Stream Test	Option to Factory Glazing	Installation in 20-min std construction	Installation in 20-min full-lite construction	Installation in 45-min std construction	Installation in 45-min full-lite construction	Installation in 60-min std construction	Installation in 90-min std construction
PyroSwiss	Non-Temperature Rise Doors	1/4" (.222)	Yes Cat I & II	No	Yes	Woodbead with 3/8" minimum stop height; metal vision frames	Woodbead with 3/8" minimum stop height; metal vision frames	Not Applicable			
	Temperature Rise Doors					Not Applicable					
PyroEdge-20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	Intumescent 200 or 208 woodbead with 1/2" maximum stop height;	Intumescent 200 or 208 woodbead with 1/2" maximum stop height;	Not Applicable			
	Temperature Rise Doors					Not Applicable					
FireSAFE-20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	Anemostat LoPro metal vision frames and 1/8" thick PVC glazing tape	Anemostat LoPro metal vision frames and 1/8" thick PVC glazing tape	Not Applicable			
	Temperature Rise Doors					Not Applicable					
FireGlass 20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	Woodbead with 5/8" minimum stop height; metal vision frames	Woodbead with 5/8" minimum stop height; metal vision frames	Not Applicable			
	Temperature Rise Doors					Not Applicable					
SuperLite I	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	Woodbead with 5/8" stop height	Woodbead with 5/8" stop height	Not Applicable			
	Temperature Rise Doors					Not Applicable					
Pyrodur	Non-Temperature Rise Doors	0.313	Yes Cat I	No	Yes	Woodbead with 5/8" minimum stop height; metal vision frames	Not Applicable due to Impact Resistance Rating	Not Applicable			
	Temperature Rise Doors					Not Applicable					
FIRE-RESISTIVE GLAZING		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Installation in 20-min std construction**	**Installation in 20-min full-lite construction**	**Installation in 45-min std construction**	**Installation in 45-min full-lite construction**	**Installation in 60-min std construction**	**Installation in 90-min std construction**
SuperLite II-XL (45, 60, 90)	Non-Temperature Rise Doors	3/4", 1-1/8" and 1-1/2" respectively	Yes Cat I & II	Yes	Yes	Not Applicable		Metal vision frame	Metal vision frame	Metal vision frame	Metal vision frame
	Temperature Rise Doors										
PyroStop (90)	Non-Temperature Rise Doors	1-7/16"	Yes Cat I & II	Yes	Yes	Not Applicable					Metal vision frame
	Temperature Rise Doors										
ContraFlam or SwissFlam (45)	Non-Temperature Rise Doors	3/4"	Yes Cat I & II	Yes	Yes	Not Applicable		Metal vision frame	Metal vision frame	Not Applicable	
	Temperature Rise Doors										
ContraFlam or SwissFlam (60)	Non-Temperature Rise Doors	1"	Yes Cat I & II	Yes	Yes	Not Applicable				Metal vision frame	Not Applicable
	Temperature Rise Doors										
ContraFlam or SwissFlam (90)	Non-Temperature Rise Doors	1-1/2"	Yes Cat I & II	Yes	Yes	Not Applicable					Metal vision frame
	Temperature Rise Doors										
Keralite FR_Ultra	Non-Temperature Rise Doors	3/4" (.719-.781)	Yes	Yes	Yes	Not Applicable		Metal vision frame	Metal vision frame	Metal vision frame	Metal vision frame
	Temperature Rise Doors										
INSULATED GLASS UNITS (IGU)		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Installation in 20-min std construction**	**Installation in 20-min full-lite construction**	**Installation in 45-min std construction**	**Installation in 45-min full-lite construction**	**Installation in 60-min std construction**	**Installation in 90-min std construction**
Firelite Plus 1" IGU	Non-Temperature Rise Doors	1"	Yes	Yes	Yes	Metal vision frame	Metal vision frame	Metal vision frame	Metal vision frame	Metal vision frame	Metal vision frame
	Temperature Rise Doors					Not Applicable				Metal vision frame	Metal vision frame

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Fire-Rated doors with a Mullion

Information Bulletin #353

Date: April, 2012

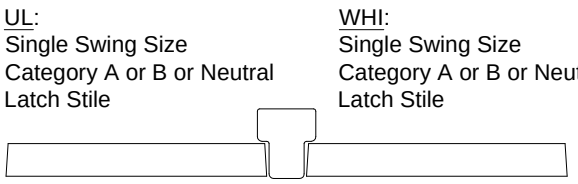
Eggers Industries

The inclusion of a mullion in a door opening can affect the door construction required for the opening. There are two basic types of mullions to be considered. Those located **behind** the doors and those located **between** the doors. The exact shape and dimensions are not important. The basic question is whether there is metal between the meeting edges of the doors.

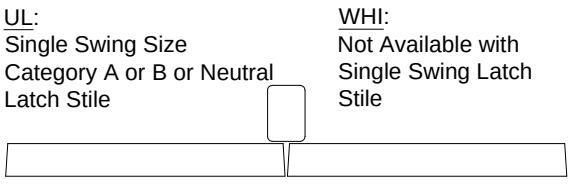
Underwriters Laboratories considers fire rated doors, 20 through 90 minute, as single swing whether the mullion is between or behind the doors. The maximum door size is per our single swing approvals. This applies for applications where both leaves are active, including mortised exits, rim exits, and other single or two point latch options (any single swing latch option).
Warnock Hersey (ITS) considers fire rated doors, 20 through 90 minute, as single swing if the mullion is between the doors. If the mullion is located behind the doors they are still considered a pair. The maximum sizes therefore vary depending on whether the mullion is between the doors or not.

These interpretations apply to neutral pressure, as well as Category A and B positive pressure.
For manufacturing reasons, applications where the mullion is behind the doors will only be offered with a UL label.

These options are summarized in the following drawings:



Mullion Between Doors



Mullion Behind Doors

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Glass Fire and Safety Information

Information Bulletin

No. 392-03-10

Eggers Industries

Eggers glazing policy regarding the markings required on fire and safety rated glazing is compatible with the International Building Code requirements.

The current code considers doors to be hazardous locations in regards to human impact. As a result all doors having lites must be glazed with impact resistant glazing. In addition, the historic exception for wired glass, allowing impact testing per ANSI Z97.1 rather than CPSC 16 CFR, part 1201 criteria, has been eliminated.

Eggers policy is:

1. Where safety rated glazing is used to glaze doors each pane of glazing will bear the safety logo (also referred to as the safety “bug”).
2. Where fire rated glazing is used to glaze doors each pane of glazing will bear both a fire and safety rating logo.

This policy applies to doors that have single or multiple lites. Each separate pane will bear the logo. Where grill work is applied to a single pane, giving a multiple lite appearance, only one logo will be applied.

By code, these logos must be permanent, and typically are either acid-etched or sand-blasted onto the glazing. Where logos are present and the glass is reversible, the doors will be glazed such that this logo will be located in the lower hinge corner of the lite opening. Where the glazing is not reversible (such as textured glass where the texture is specified towards on face or the other the logo will be in a lower corner, but may be on the latch or hinge edge.

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: November, 2011

Eggers Industries

Warnock Hersey and Underwriters Laboratories have clarified the distance from lite cutout to door edge, multiple lites and other hardware cutouts as shown below. The cutout-to-door edge dimensions also apply to bottom rails for all but 45-min full lite constructions, but 10” is the recommended minimum to comply with ADA requirements. These dimensions do not apply to CVR hardware. Refer to info Bulletin 316 for appropriate margins.

Non-Rated		Edge of Lite Cutout to Edge of Door	Edge of Lite Cutout to Edge of Lite Cutout	Edge of Lite Cutout to Nearest Point of Lock Cutout
Particleboard	Non-Rated	5”	5”*	3-5/16”
Stave	Non-Rated	5”	3”	1-1/2”
Structural Composite	Non-Rated	5”	3”	1-1/2”
Agrifiber	Non-Rated	5”	5”	3-5/16”
Acoustical	Non-Rated	5”	5”	5”
Bullet Resistant	Non-Rated	5”	3”	1-1/2”

***** For applications without operable hardware, such as side panels, this margin may be reduced to 3” without voiding the warranty.

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: November, 2011

Eggers Industries

UL		Edge of Lite Cutout to Edge of Door	Edge of Lite Cutout to Edge of Lite Cutout	Edge of Lite Cutout to Nearest Point of Lock Cutout
Particleboard	20-min	5”	5”	3-5/16”
Stave	20-min	5”	3”	1-1/2”
Structural Composite	20-min	5”	3”	1-1/2”
Agrifiber	20-min	5”	5”	3-5/16”
Bullet Resistant	20-min	5”	3”	1-1/2”
Acoustical	All Ratings	5”	5”	5”
Agrifiber	45-min	NA	NA	NA
Particleboard	45-min	NA	NA	NA
Mineral	45-min Full Lite	5-1/2”	5-1/2”	3”
Mineral	45 through 90-min	5-1/2”	5-1/2”	3-1/2”

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: November, 2011

Eggers Industries

WH		Edge of Lite Cutout to Edge of Door	Edge of Lite Cutout to Edge of Lite Cutout	Edge of Lite Cutout to Nearest Point of Lock Cutout
Particleboard	20-min	5”	5”	5”
Stave	20-min	5”	5”	5”
Structural Composite	20-min	5”	5”	1-1/2”
Agrifiber	20-min	5”	5”	5”
Acoustical	All Ratings	5”	5”	5”
Agrifiber	45-min	6”	6”	6”
Particleboard	45-min	6”	6”	6”
Mineral	45-min Full Lite	5-1/4”	5-1/4”	3”
Mineral	45 through 90-min	5-1/4”	5-1/4”	3-1/2”

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: November, 2011

Eggers Industries

Notes:

1. Maximum lite dimensions are based on visible lite; the Minimum dimensions shown above are based on cutouts.
2. The distance between the visible lite to visible lite, visible lite to door edge, and visible lite to other hardware cutouts will vary depending upon the lite frame or bead used.
3. This revision changes the specified criteria from distance to visible lite to distance to the lite cutout. The cutout location is the important factor for the approvals. It does not affect the actual minimum dimensions to the visible lite, but changes the way it is determined.
4. The method of calculating lite location is now the same for both agencies.

Lite to edge of door margins: Lite to edge of door margins may be specified in one of two ways:

- Visible lite to door edge- In this case we have to verify the dimension between the cutout and door edge is acceptable by subtracting the bead height from the visible lite to door edge (cutout to edge of door = visible lite margin specified – bead height).

- Minimum margin – In this case the minimum dimension between the visible lite and the door edge is calculated by adding the bead height to the minimum margins in the tables above (visible lite to edge of door = edge of cutout to edge of door + bead height)

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Positive Pressure with Acoustic Constructions

Information Bulletin

No. 436-10-08

Eggers Industries

The chart below identifies the availability of our various acoustic door constructions (Sound Groups) based on the positive pressure category. Sound Group 1 is not included in this list because it is composed of standard core constructions, and generally available as either Category A or B.

The general rule is door constructions that include multi-laminate faces containing vinyl or lead are not available as Category A assemblies.

Sound Group Construction	Available as Category A	Available as Category B
2	No	Yes
3	Yes	Yes
4	No	Yes
5	No	Yes
6	No	Yes
7	No	Yes
8	No	Yes
9	Yes	No

Note: Our 45- and 60-minute lead doors utilize the same face construction as the Sound Group 8 acoustic doors. For this reason they also are not available as Category A assemblies.

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5-Ply Flush Doors
Smoke Barrier Labels

Information Bulletin 267

Date: June, 2011

Eggers Industries

Both the International Building code and the NFPA 101 Life Safety Code make provision for smoke barrier doors. Smoke barrier doors are constructed as fire doors but are unable to bear a true “Fire” label because they do not include latching hardware. While not fire doors, they still require the door construction consistent with the labeled doors on the job, including positive pressure.

To cover these applications, Eggers offers two types of Smoke Barrier label, both of which bear the Warnock Hersey mark. Label #330 is for Category B or Neutral pressure constructions; label #331 is for Category A constructions. The rules governing their sizes and machining options will be the same as those for 20-minute Warnock Hersey doors.

Because the constructions have passed the fire endurance portion of the test both of these labels bear the “S” mark indicating their compliance with the air leakage requirements of UL1784 and UBC 7-2 (1997) part 2.

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Blocking and Aux Fire Latches for Fire Rated Pairs

Information Bulletin 322

Date: December, 2015

Eggers Industries

Eggers has approval, with U.L. and WHI, to label pairs of fire-rated doors having concealed vertical rods, surface vertical rods, and one leaf active without the use the 5" metal edgesets or regular edgesets as shown in the tables below. These tables show required* and optional* blocking and required fire latch for these approvals by application, hardware, rating core type and agency. Following the table are drawings of the blocking and fire latches. For consistency, the meeting edge is shown on the left side of the drawings.

***Important Note**: Required blocking part of the fire approval and is automatically included. Optional blocking is not part of the fire approval but must be specified for screw attachment of surface mounted latching hardware. Refer to the blocking drawings to determine which blocking you will need to specify for your application. Additional blocking may be needed for screw attachment of hardware, such as closers, which are not covered within this bulletin. Though-bolts may be used to attach surface-mounted hardware in lieu of blocking.

Standard Options w/ Underwriters Laboratories (Flush and Stile & Rail Doors)

Application	Hardware	Rating			Core				Required Blocking *	Fire Latches
		45	60	90	MC/S&R	GP	PC	AGR		
Standard Swing Active-Active Pairs	SVR	X	X	X	8'x8'	8'x8'	---	---	4	None
	SVR-LBR	X	---	---	8'x8'	8'x8'	---	---	5	6
		---	X	X	8'x8'	8'x8'	---	---	5	3
	PP/PR SVR-LBR	X	X	X	8'x8'	8'x8'	---	---	5	4
	CVR	X	X	X	8'x8'	---	---	---	8	None
	CVR-LBR	X	X	X	8'x8'	---	---	---	8	3
	PP/PR CVR-LBR	X	X	X	8'x8'	---	---	---	8	4
Standard Swing Active-Inactive Pairs	Rim Exit	X	X	X	8'x8'	8'x8'	---	---	6	None
	Mortised Exit	X	X	X	8'x8'	8'x8'	---	---	6	None
	Corner Flush Bolt	X	X	X	8'x8'	8'x8'	---	---	None	None
	Flush bolts up to 12"	X	X	X	8'x8'	8'x8'	---	---	7	None
	FB over 12" up to 24"	X	X	X	8'x8'	8'x8'	---	---	2	None
Double Egress Swing Active-Active Pairs	SVR	X	X	X	8'x8'	8'x8'	---	---	1	2
	SVR-LBR	X	X	X	8'x8'	8'x8'	---	---	1	3
	PP/PR SVR-LBR	X	X	X	8'x8'	8'x8'	---	---	1	4
	CVR	---	---	---	---	---	---	---	---	---
	CVR-LBR	X	X	X	8'x8'	---	---	---	1	1
	PP/PR CVR-LBR	X	X	X	8'x8'	---	---	---	1	5

* Applies only to Flush Door Constructions

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Blocking and Aux Fire Latches for Fire Rated Pairs

Information Bulletin 322

Date: December, 2015

Eggers Industries

Additional Options w/ Warnock Hersey (Flush Doors)

Application	Hardware	Rating			Opening Size per Core				Required Blocking	Fire Latches
		45	60	90	MC	GP	PC	AGR		
Standard Swing Active-Active Pairs	SVR	X	---	---	---	---	6'x7'	---	None	None
		X	X	X	8'x9'	---	---	---	1	None
		X	---	---	---	---	---	8'x8'	8	None
	SVR-LBR	X	---	---	---	---	6'x7'	---	None	6
		X	X	X	---	8'x9'	---	---	9	None
		X	X	X	8'x9'	---	---	---	1	4
	CVR	---	---	---	---	---	---	---	---	---
	CVR-LBR	---	---	---	---	---	---	---	---	---
Standard Swing Active-Inactive Pairs	Rim Exit	X	---	---	---	---	---	8'x8'	8	None
		X	X	---	8'x9'	---	---	---	1	None
		X	---	---	---	---	6'x7'	---	None	None
	Mortised Exit	X		---	---	---	6'x7'	8'x8'	6	None
		X	X	---	8'x9'	---	---	---	1	None
	Corner Flush Bolt	X	X	---	8'x9'	---	---	---	1	None
	Flush bolts up to 12"	X	---	---	---	---	---	8'x8'	2	None
		X	X	---	8'x9'	---	---	---	1	None
		X	---	---	---	---	6'x7'	---	None	None
	FB over 12" up to 24"	X	X	---	8'x9'	---	---	---	1	None
		X	---	---	---	---	6'x7'	---	None	None
Double Egress Swing Active-Active Pairs	SVR	X	---	---	---	---	---	8'x8'	8	None
	SVR-LBR	X	X	X	---	8'x8'	---	---	9	None
	CVR	---	---	---	---	---	---	---	---	---
	CVR-LBR	---	---	---	---	---	---	---	---	---

Additional Options w/ Warnock Hersey (Stile & Rail)

Application	Hardware	Rating	Opening Size per Door Thickness		Required Blocking	Fire Latches
		90	1.75" S&R	2.25" S&R		
Standard Swing Active-Active Pairs	SVR (top and bottom)	X	7'x8'	8'x10'	Special Blocking and Auxilliary Fire Latches are not Required	
Standard Swing Active-Inactive Pairs	Rim Exit	X	7'x8'	8'x10'		
	Mortised Exit	X	7'x8'	8'x10'		
	Corner Flush Bolt	X	7'x8'	8'x10'		
Double Egress Swing Active-Active Pairs	SVR (top and bottom)	X	---	8'x10'		

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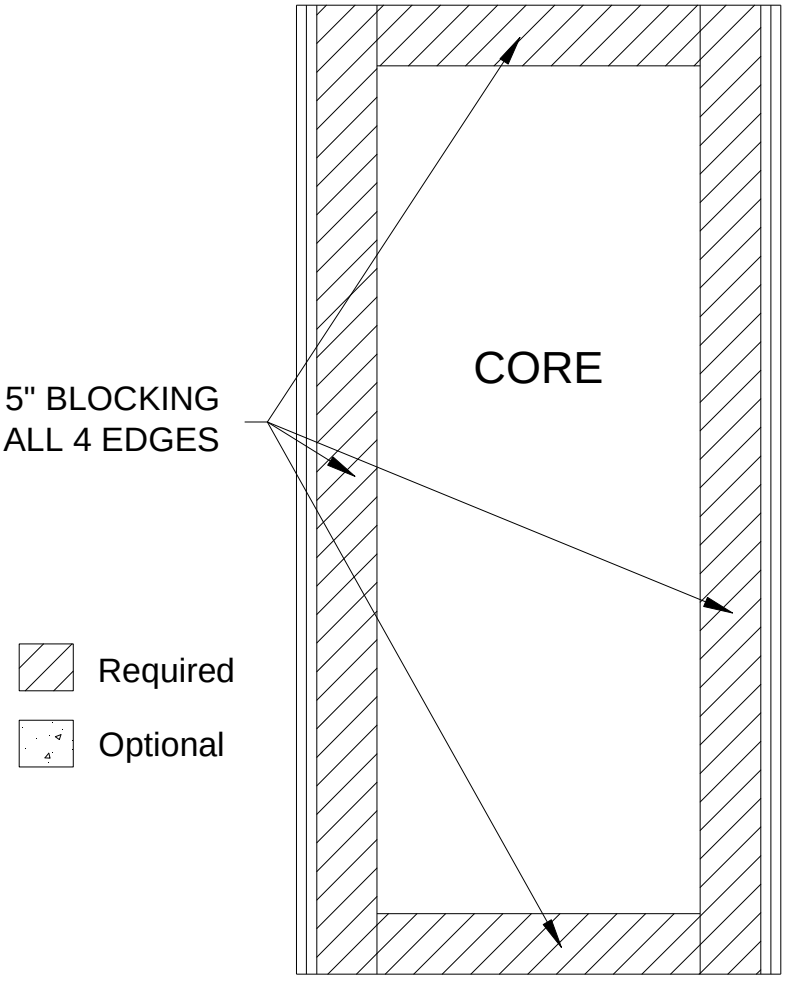
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Blocking and Aux Fire Latches for Fire Rated Pairs
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BLOCKING # 1



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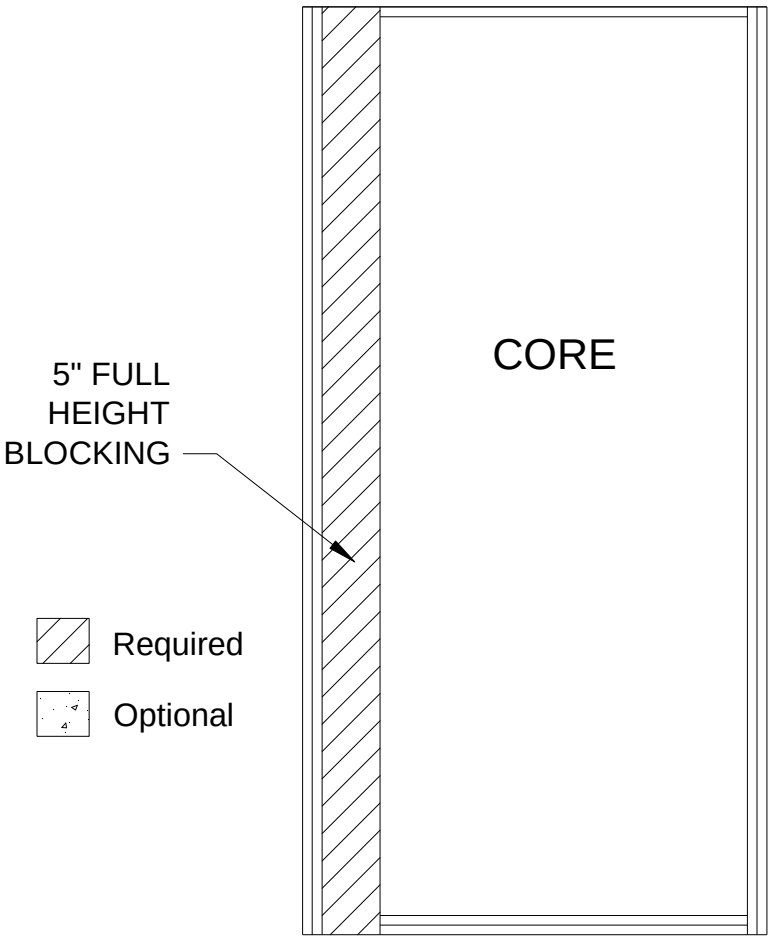
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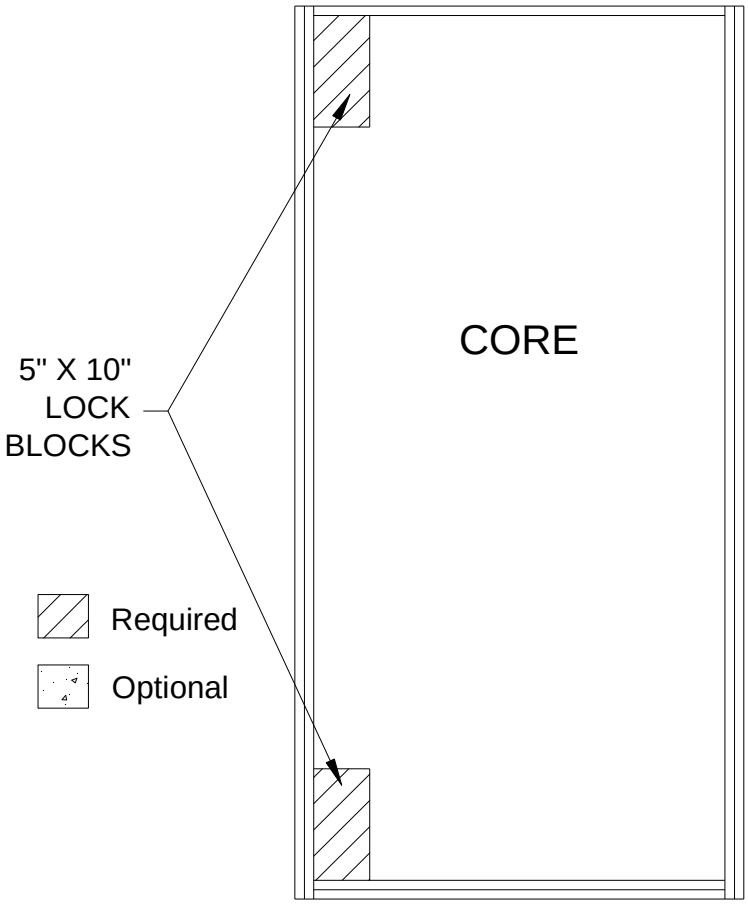
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BLOCKING # 3



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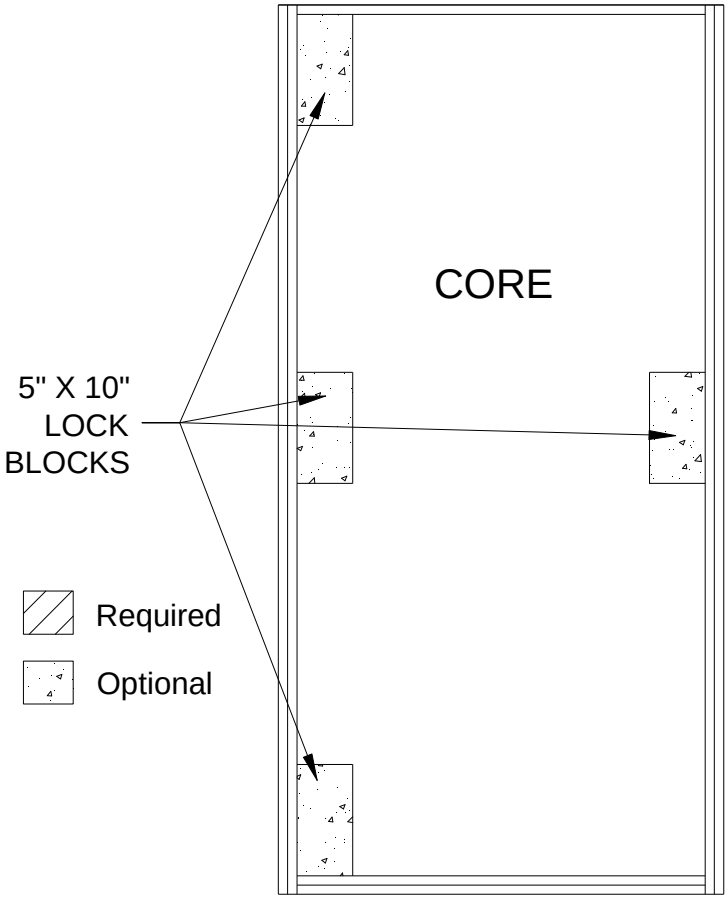
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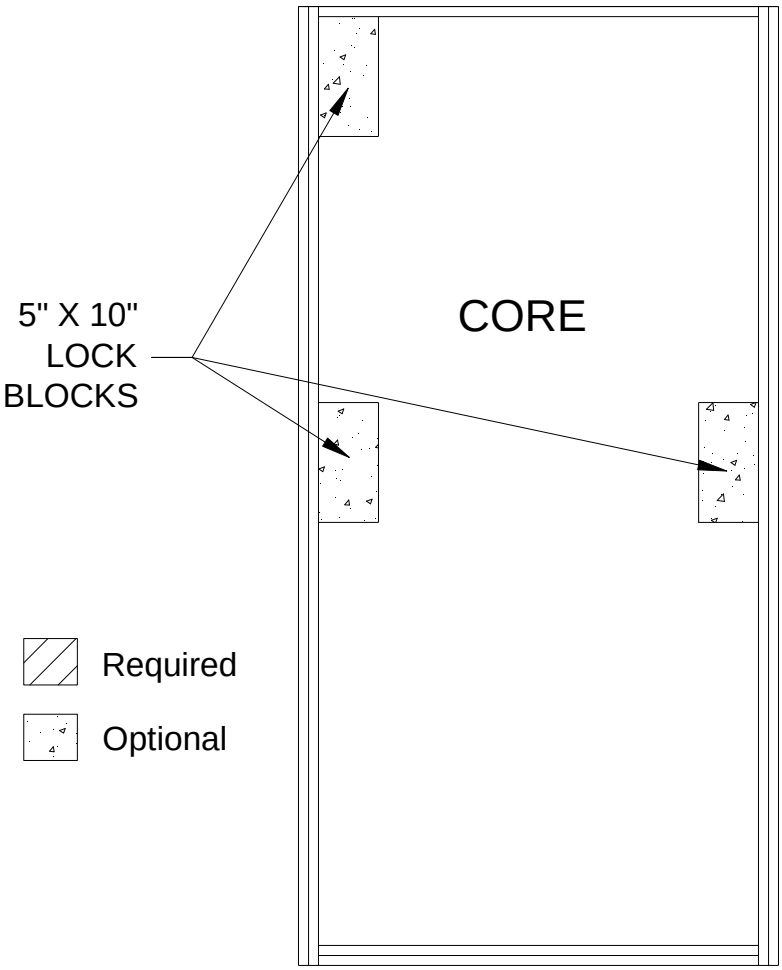
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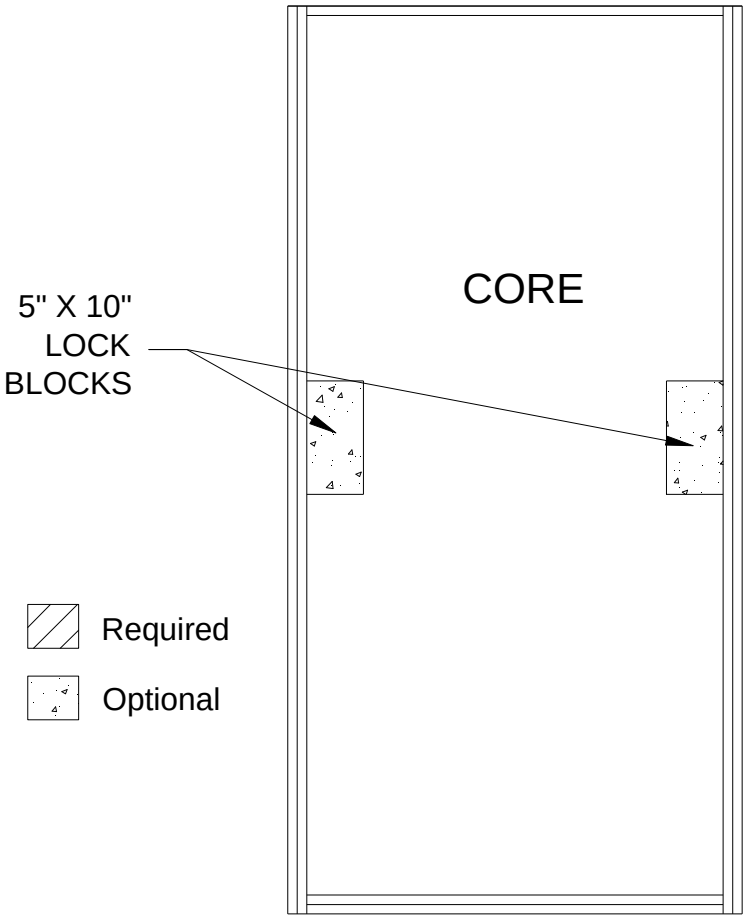
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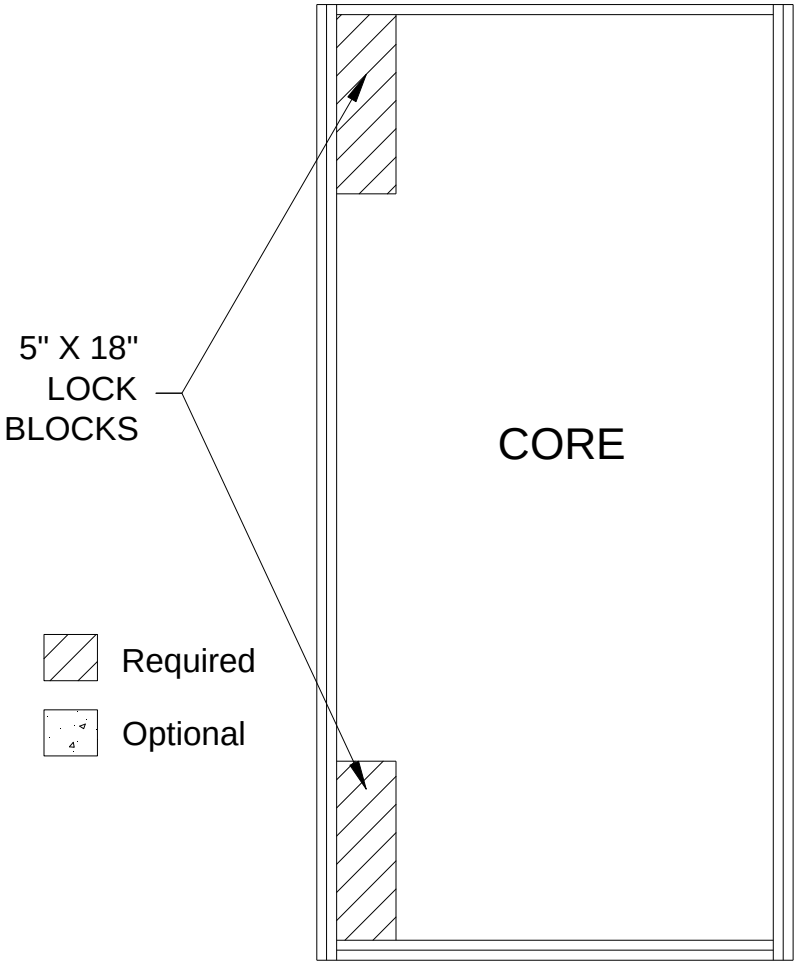
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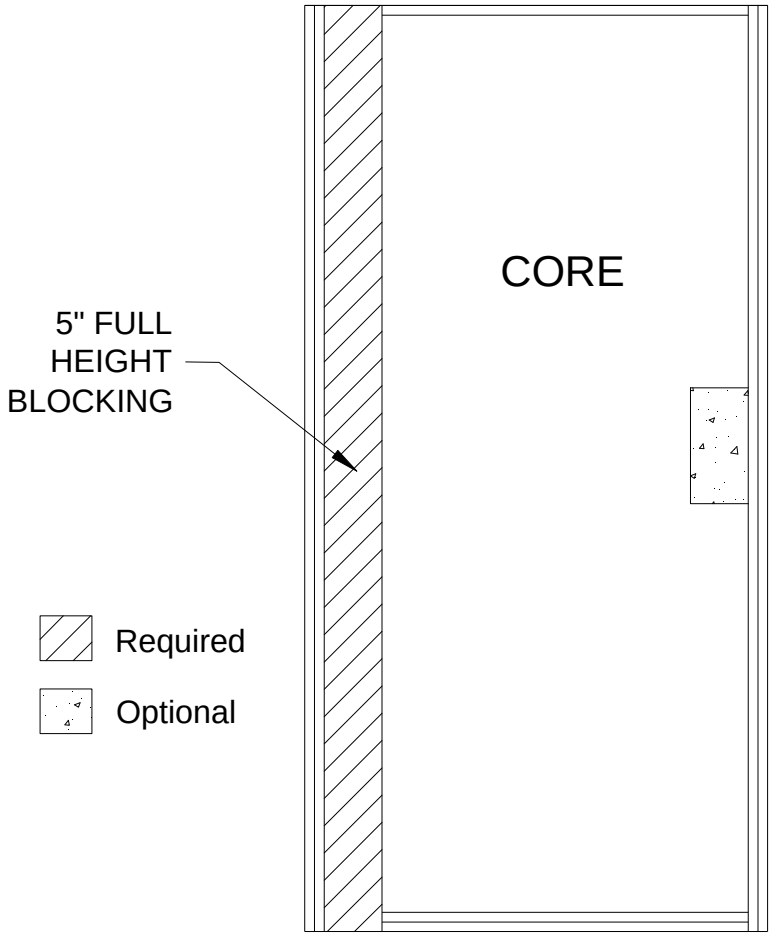
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Blocking and Aux Fire Latches for Fire Rated Pairs
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BLOCKING # 8



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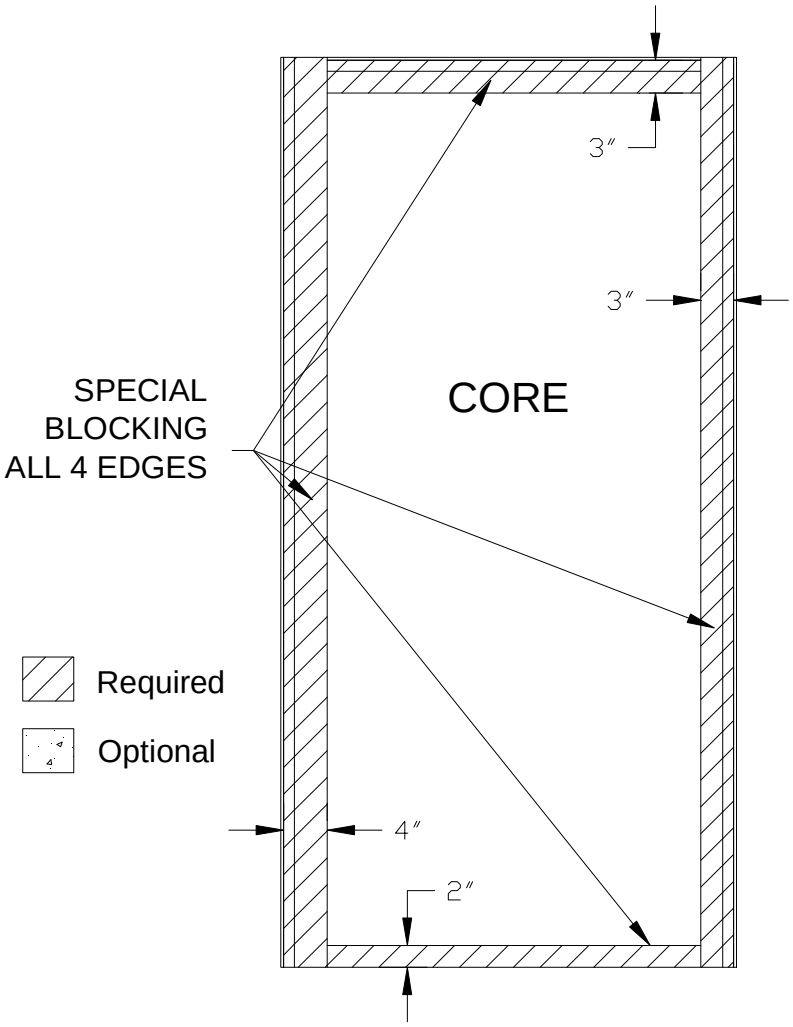
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BLOCKING # 9



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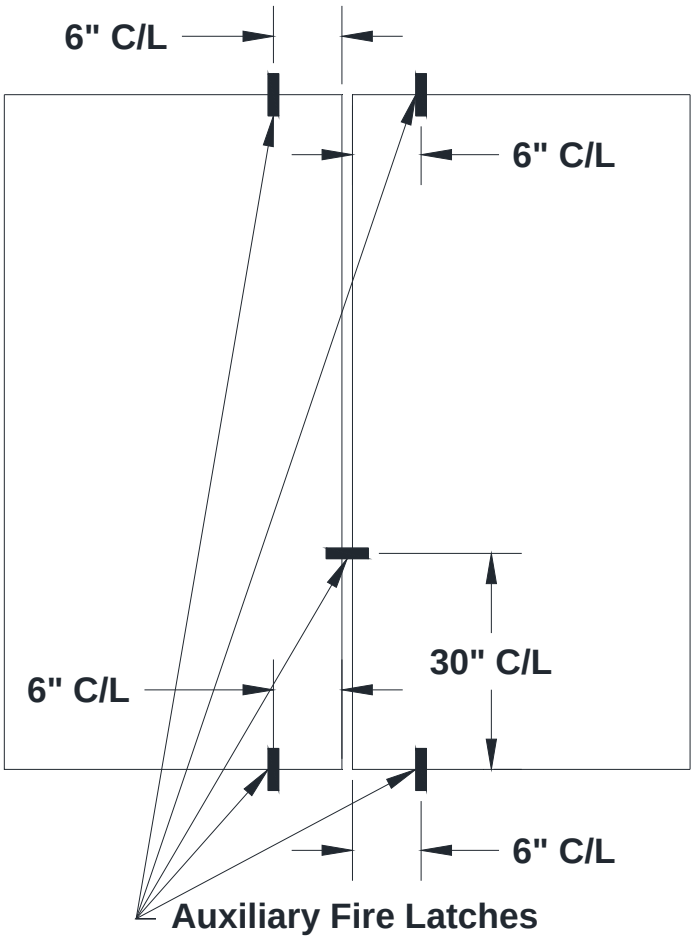
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AUXILIARY FIRE LATCH #1



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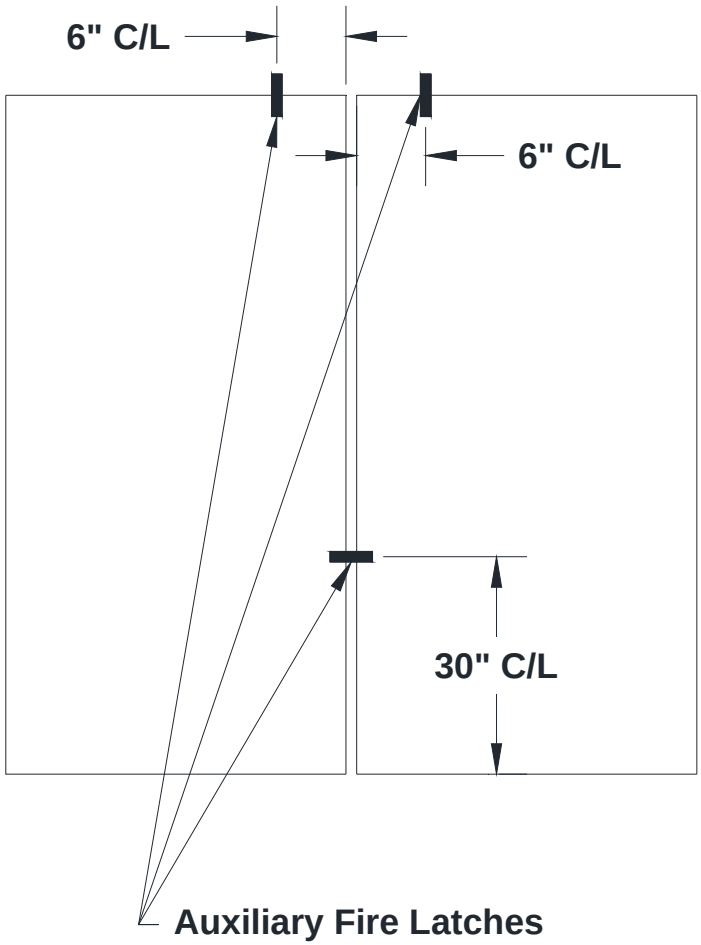
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Blocking and Aux Fire Latches for Fire Rated Pairs
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AUXILIARY FIRE LATCH #2



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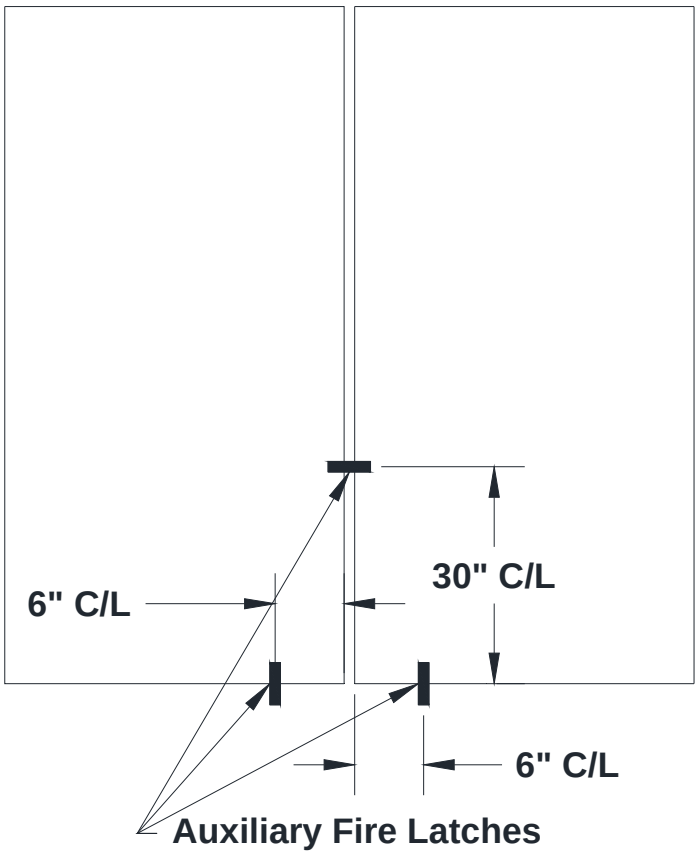
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Blocking and Aux Fire Latches for Fire Rated Pairs
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AUXILIARY FIRE LATCH #3



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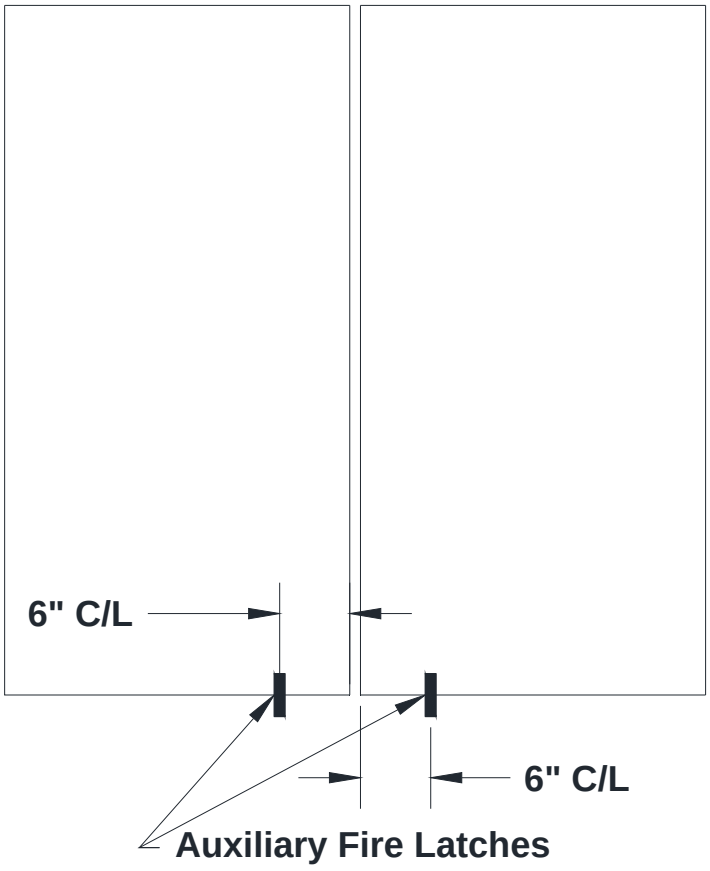
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AUXILIARY FIRE LATCH #4



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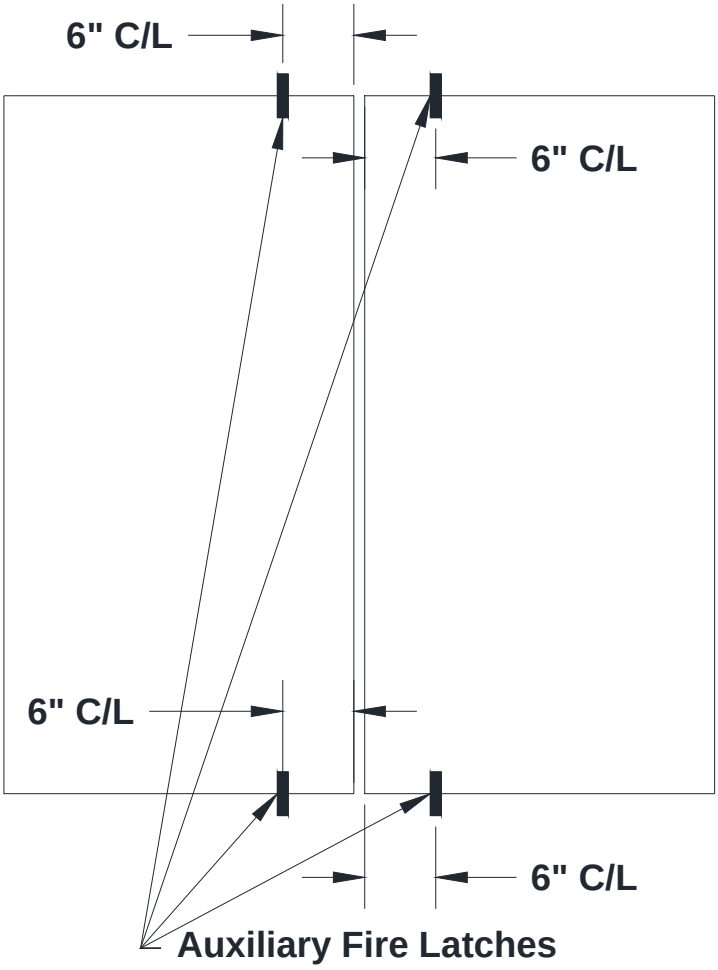
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AUXILIARY FIRE LATCH #5



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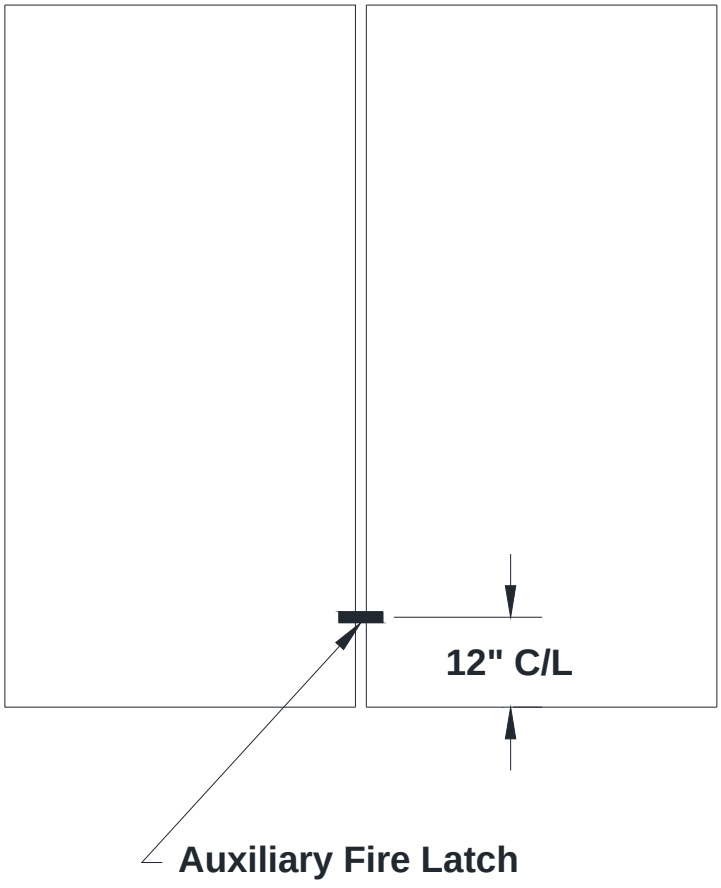
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Blocking and Aux Fire Latches for Fire Rated Pairs
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AUXILIARY FIRE LATCH #6



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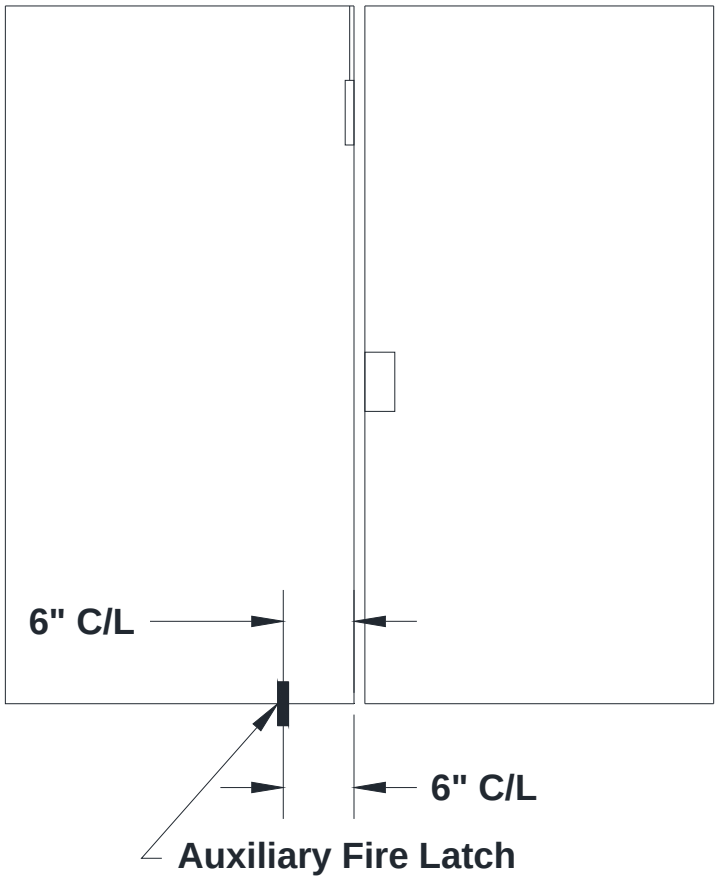
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Blocking and Aux Fire Latches for Fire Rated Pairs
Information Bulletin 322

Date: December, 2015

Eggers Industries

AUXILIARY FIRE LATCH #7



Eggers Industries

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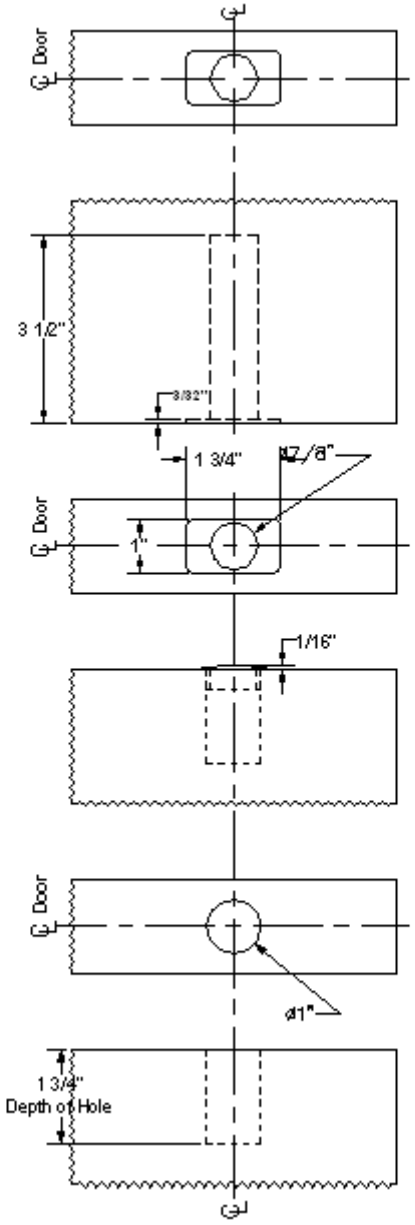
Blocking and Aux Fire Latches for Fire Rated Pairs

Information Bulletin 322

Date: December, 2015

Eggers Industries

AUXILIARY FIRE LATCH
Cutout Dimensions



LATCH

STRIKE

*** LATCH PREP IS IN DOOR. PREP FOR STRIKE IN FRAME OR FLOOR.**

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Concealed Closer/Stops

Information Bulletin 383

Date: August, 2013

Eggers Industries

Eggers has approval to machine for listed and approved concealed overhead closer and/or stops and mortised floor closers in doors rated 20 through 90-minutes. Concealed holders are not allowed in label doors unless they include an automatic release function if a fire is detected. The specific approvals include:

- Track in Door: UL (20 through 90-minute labeled doors) the cutout dimension can not exceed 1-1/2” in depth, 1-7/16” in width or 24-5/8” in length.

- Track in Door: WHI (20-minute labeled doors only) the cutout dimension can not exceed 1-3/8” in depth, 1-9/32” in width or 23-1/4” in length.

- Body in Door: (UL 20-minute doors only) an un-shielded cutout up to 2-9/32” in depth, 1-3/8” in width or 11-1/4” in length is allowed; with a fire shield and intumescent the cutout dimensions may be up to 3-1/2” in depth, 1-7/16” in width and 23-3/4” in length

Due to the large cutouts required for this hardware, a frame applied intumescent will be required above the cutout. This by definition makes the opening Category B from a code perspective. Where the door is constructed (as Category A) with intumescent stiles and rail, the only additional, field-applied intumescent required will be over the hardware cutout. Where constructed as a Category B, frame applied intumescent is required on both the jambs and header. Mortised floor closers can be done as Category “A” openings (without any field-applied intumescent).The same rules apply for 20 through 90 minute applications.

Tank rails are constructed with extra face reinforcement for use on non-labeled and UL 20-minute doors to help prevent telegraphing of the hardware cavity. Tank rails are required when:

1. The closer body is in the door or
2. The width of the hardware being machined for is greater than 1 5/16”.
3. A metal shim is required in UL 20-minute doors

Eggers will not warranty machining cavities over 1-3/8” in width on a 1-3/4” thick door.

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Concealed Vertical Rods – Special Instructions

Information Bulletin 459

Date: May, 2014

Eggers Industries

Minimum Stile Dimensions for Doors With Lites and Concealed Vertical Rods

1. Non-Rated Full-Lite Doors:
    a. We can manufacture and warranty full lite doors machined for concealed vertical rods and lites. Doors must be constructed of SCL or Stave core and will include 5" (SCL) pre-channeled blocking, full height, on meeting edges.
    b. If the hardware is unknown at time of quoting use a minimum lock stile dimension of is 5-5/8". If hardware and lite location are known the minimum dimensions can be reduced to those shown on the tables below.

2. 20 Minute Full-Lite Doors:
    a. We can manufacture, machine, label and warranty full lite doors (SCL or Stave) with concealed vertical rods and lites. 5" (Tectonite) pre-channeled blocking, full height, on meeting edges is required. We will construct these doors using concealed intumescent edge strips regardless of whether the doors are positive pressure or neutral pressure.
    b. If the hardware is unknown at time of quoting use a minimum lock stile dimension of is 5-5/8". If hardware and lite location are known the minimum dimensions can be reduced to those shown on the tables below.

3. 45 Minute Full-Lite Doors:
    a. We can manufacture, machine, label and warranty 45-minute full lite doors with specific concealed vertical rods (Sargent and Adams Rite only) and lites. A 5" (Tectonite) pre-channeled blocking, full height, on meeting edges is required. We will construct these doors using concealed intumescent edge strips regardless of whether the doors are positive pressure or neutral pressure.
    b. If the hardware is unknown at time of quoting use a minimum lock stile dimension of is 7-1/8". If hardware and lite location are known the minimum dimensions can be reduced to those shown on the tables below.

4. Standard (20-Min or Non-Rated) Particle Core Doors:
    a. We can manufacture, machine, label and warranty Particle core doors with concealed vertical rods and lites. 5" pre-channeled blocking, full height, on meeting edges is required. We will construct rated doors using concealed intumescent edge strips regardless of whether the doors are positive pressure or neutral pressure.

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b. If the hardware is unknown at time of quoting use a minimum lock stile dimension of is 7-7/16". If hardware and lite location are known the minimum dimensions can be reduced to those shown on the tables below.

5. 45-90 Minute Standard Mineral Core Doors:
   a. We can manufacture, machine, label and warranty 45-90 minute doors with concealed vertical rods and lites. 5" (Tectonite) pre-channeled blocking, full height, on meeting edges is required. We will construct these doors using concealed intumescent edge strips regardless of whether the doors are positive pressure or neutral pressure.
   b. If the hardware is unknown at time of quoting use a minimum lock stile dimension of is 9-5/8". If hardware and lite location are known the minimum dimensions can be reduced to those shown on the tables below.

6. Non-rated and 20-min Acoustic Doors:
   a. We have not conducted acoustic tests with the CVR hardware, however where an acoustic construction is required we can manufacture and warranty Sound Group 3 (SG3) doors machined for concealed vertical rods and lites. Doors will include 5" (SCL) pre-channeled blocking, full height, on meeting edges.
   b. If the hardware is unknown at time of quoting use a minimum lock stile dimension of is 9-1/8"". If hardware and lite location are known the minimum dimensions can be reduced to those shown on the tables below.

Minimum stile based on mortise pocket	SCL & Stave	45-Min Full Lite	Particle Core	45-90 Minute Mineral	SG3 Acoustic
Von Duprin	5-1/8"	Not Available	6-15/16"	9-1/8"	8-5/8"
Precision	5"	Not Available	6-13/16"	9"	8-1/2"
Corbin & Yale	No Mortise – See table below				
Dorma F9100	No Mortise – See table below				
Sargent 8600 &	No Mortise – See table below				
Sargent PP/PR	5-5/8"	7-1/8"	7-7/16"	9-5/8"	9-1/8"
Adams Rite 3900	5"	6-1/2"	6-13/16"	8-7/8"	8-3/8"
Falcon 25 series	No Mortise – See table below				

Minimum stile based on CVR channel	SCL & Stave	45-Min Full Lite	Particle Core	45-90 Minute Mineral	SG3 Acoustic

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Concealed Vertical Rods – Special Instructions

Information Bulletin 459

Date: May, 2014

Eggers Industries

Von Duprin	5”	Not Available	5-5/16”	7-1/2”	7”
Precision	5”	Not Available	5-5/16”	7-1/2”	7”
Corbin & Yale	5”	Not Available	5-7/8”	8-1/16”	7-9/16”
Sargent 860	5”	6-1/4”	6-9/16”	8-3/4”	8:1/4”
Sargent PP/PR	5”	6-1/4”	6-9/16”	8-3/4”	8”1/4”
Dorma F9100	5”	6-1/2”	6-13/16”	9”	8-1/2”
Adams Rite 3900	5”	6-1/8”	6-7/16”	8-5/8”	8-1/8”
Falcon 25 series	5”	6-1/4”	6-9/16”	8-3/4”	8-1/4”

Acoustical Doors with CVR’s

The use of CVR hardware will void the STC rating regardless of core type.

The only acoustic core door that will be constructed with and be machined for CVR hardware is the 6.5 pound per square foot design (SG3). The special construction of all other designs will not work with CVR stiles.

SG3 doors constructed with fire rated CVR stiles can be labeled for 20-minute applications.

Only top rod only CVR’s are permitted if the door will be machined for a door bottom.

Concealed Vertical Rods with Delayed Entry Switches

Von Duprin

Von Duprin CVRs with a CX prefix designate a delayed opening function. When the push pad is depressed, the door will not unlatch for 15 seconds. If the person continues to push on the door the latches may breakout.

Inform customers that these CVRs are not meant for wood doors.
(This restriction does not apply to surface vertical rods, mortised exit or rim exit devices having the CX prefix)

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Yale
Yale also has a delayed opening device. It is called Secure X. This device can not be used with CVRs.

Top Caps for Concealed Vertical Rods

A 20 gauge Stainless Steel top cap will be required on all doors (1-3/4" & 2-1/4") machined for Von Duprin 33, 55, and 99 series top rod only concealed vertical rod hardware, rated and non-rated.

- The cap will have to be installed for the warranty to apply.
- Caps should be used on fire-rated as well as non-fire-rated doors, and Stile & Rail as well as Flush doors.
- In the Friedman system the cap is pulled into the order as an accessory, with the cost already built into the machining price for the door. Caps will ship loose in a bag, and will not be shipped on the doors
- Caps are friction fit on the door and can be pinched in to tighten the fit. Additionally, they can be permanently held in place using a 2-part epoxy.
- Caps may be installed on bottom latches of full rod CVR hardware, but would have to be permanently attached with epoxy.
- The caps are furnished in stainless steel only. They can be field painted.
- The cap designs are shown on the following page.

Special Concealed Vertical Rod Hardware

Von Duprin InPact hardware: This hardware uses a pushbar design that is recessed into the core of the door so that when depressed it is essentially flush with the face of the door. The machining for this hardware is almost the full core thickness and is not available on rated or non-rated doors of any core type.

Concealed Vertical Cable Hardware

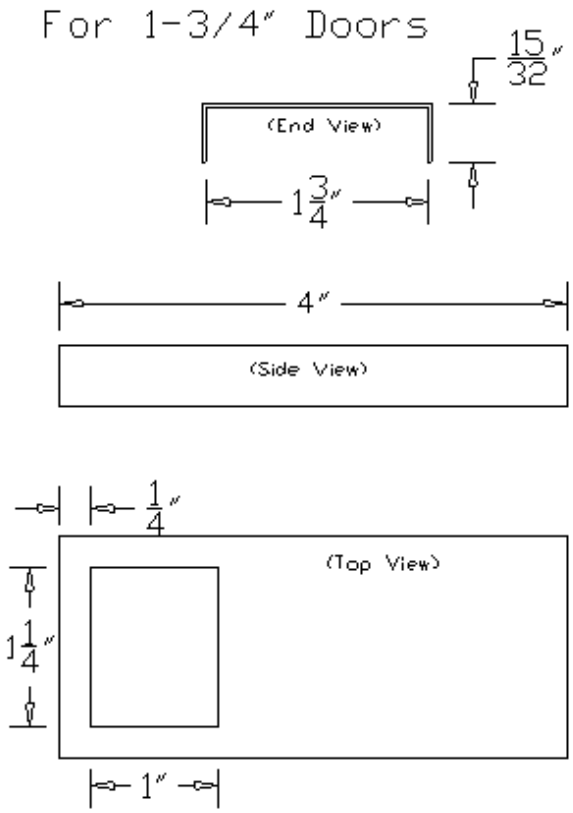
Von Duprin 9949 and 9849 series: This design uses a cable in lieu of a rod, but requires a larger latch case mortise and a bored access hole. Eggers is able to provide this hardware in pairs rated through 90-minutes when furnished with pre-channeled non-combustible blocking and an All Metal Stamping 251A metal edge.

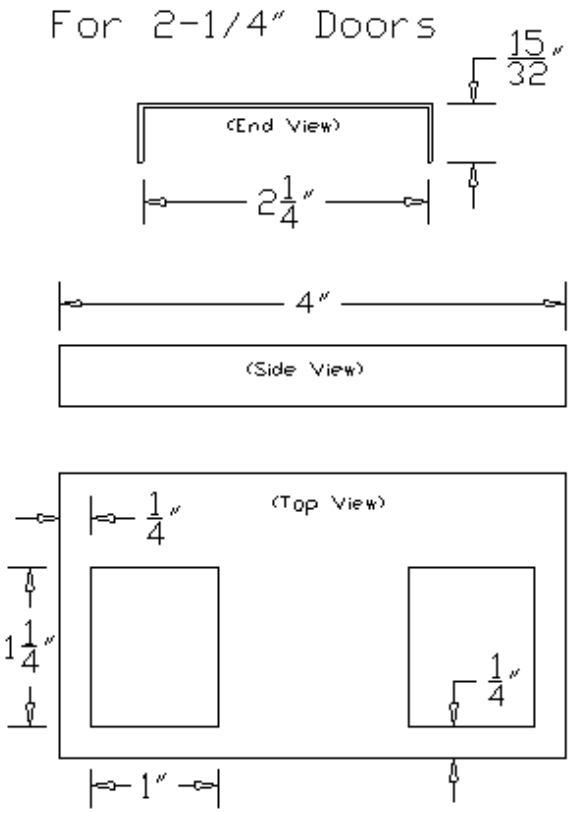
Concealed Vertical Rods – Special Instructions

Information Bulletin 459

Date: May, 2014

Eggers Industries





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Concealed Vertical Rods – Special Instructions

Information Bulletin 459

Date: May, 2014

Eggers Industries

5” Metal Edge Requirements for Concealed Vertical Rods

Eggers has approval to provide most models of CVR hardware on fire rated doors (20-90 min) without the typical 5” metal edges. Where the hardware template requires excessive removal of face or blocking material, such as the Falcon F-25 series, metal edges will still be required.

Concealed Vertical Rods with 5” Channels

When using a 5” full height metal edge on doors with CVR’s the system will deduct 1/32” from prefit door width and the backset.

On the All Metal Stamping machining sheets there is a box for Latch Brackets, check “No” or “None”, also check “No” if the sheet ask for Cover Plate Tabs. You will need to provide device and trim templates with machining sheets to All Metal Stamping.

If the doors are Positive Pressure category “A or B” they will require an additional intumescent edge seal field applied to the outside meeting edge of the 5” channel. This essentially makes all pairs with a 5” edge into category B even if they were constructed with intumescent edges. Less Bottom Rod (LBR) devices will require additional machining for the Auxiliary Fire Latches 30” up (or 28” in cases of trim conflict) from the bottom of the channel on all 45 thru 90-minute doors.

The machining sheets for the 5” channel can be found at
www.allmetalstamping.com/2010/AMS5inchChannels410.pdf

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Continuous Hinge Applications

Information Bulletin 421

Date: April, 2015

Eggers Industries

Continuous hinges require special prefitting. The issue is complicated by the following three things:

1) Different continuous hinges require different clearance dimensions for the hinges themselves.
2) Some hinge manufacturers recommend 3/16” meeting edge clearance for pairs. Both WDMA I.S.1A and NFPA-80 list the meeting edge clearance for pairs of wood doors as 1/8”.
3) Some of the prefit dimensions shown on the hinge manufacturer’s literature include an “extra” prefit dimension for anticipated frame variation.

The dimensions below are based on the hinge requirement, 1/8” meeting edge clearances, and a 1/32” per leaf allowance for frame irregularities.

Hinge Model	Fire Labeled	Hinge Edge	Single Swing	Standard Swing Pair	DE Pair
ABH A110HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
ABH A240HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
ABH A240LL	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
ABH A500	Up to 90-min	Square	13/32”	11/32"	9/32"
		Beveled	13/32"	11/32"	9/32"
Hagar (Roton) 780-041 HD - Swing Clear	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	N/A	N/A	N/A
Hagar (Roton) 780-111 HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Hagar (Roton) 780-112 HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Hagar (Roton) 780-224 HD and IVES 224HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”

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Hinge Model	Fire Labeled	Hinge Edge	Single Swing	Standard Swing Pair	DE Pair
Hagar 790-900	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	13/32”	11/32”	9/32”
Hagar 790-905	Up to 90-min	Square	7/16”	3/8”	5/16”
		Beveled	N/A	N/A	N/A
Hagar 790-911 - Swing Clear	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	N/A	N/A	N/A
Hagar 790-915	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	N/A	N/A	N/A
Ives 112HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Ives 600/700	Up to 90-min	Square	13/32"	11/32"	9/32"
		Beveled	7/16”	3/8”	5/16”
Ives 705 Without Adjustable Studs	Up to 90-min	Square	17/32"	15/32"	13/32"
		Beveled	9/16"	1/2"	7/16"
Ives 705 Using Adjustable Studs	Up to 90-min	Square	21/32"	19/32"	17/32"
		Beveled	11/16"	5/8"	9/16"
Markar HG305	Up to 90-min	Square	17/32”	15/32”	13/32”
		Beveled	17/32”	15/32”	13/32”
Markar HG315	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
Markar HG326 – Swing Clear	Up to 90-min	Square	17/32”	15/32”	13/32”
		Beveled	17/32”	15/32”	13/32”
Markar HS-103	Non-Label	Square	11/32”	9/32”	7/32”
		Beveled	11/32”	9/32”	7/32”
Markar FM100	Non-Label	Square	17/32”	15/32”	13/32”
		Beveled	17/32”	15/32”	13/32”

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Continuous Hinge Applications

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Eggers Industries

Hinge Model	Fire Labeled	Hinge Edge	Single Swing	Standard Swing Pair	DE Pair
Markar FM200	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
Markar FM300	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
Markar FM-3500	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	15/32”	13/32”	11/32”
McKinney 12HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	17/32”	15/32”	13/32”
McKinney 14HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	17/32”	15/32”	13/32”
McKinney 25HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2”	7/16”	3/8”
McKinney FM300	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
McKinney HG315	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
PBB CG31	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
PBB CH31	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
PBB CH51	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	7/16"	3/8"	5/16"
Pemko CFM 83HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	15/32”	13/32”	11/32”
Pemko SPBFM	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	7/16”	3/8”	5/16"

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Continuous Hinge Applications

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Hinge Model	Fire Labeled	Hinge Edge	Single Swing	Standard Swing Pair	DE Pair
Pemko WTFM83	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	17/32”	15/32”	13/32”
Select SL-11 HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Select SL14	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Select SL-18 HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Select SL-24 HD	Up to 90-min	Square	15/32””	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Select SL300	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	15/32”	13/32”	11/32”
Select SL305	Up to 90-min	Square	17/32”	15/32”	13/32”
		Beveled	N/A	N/A	N/A
Stanley 661 & 661HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Stanley 641 & 651	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	27/64"	23/64"	19/64"
Stanley 643 & 653	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
Stanley 646 & 656 Swing Clear	Up to 90-min	Square	5/16"	1/4"	3/16"
		Beveled	N/A	N/A	N/A
Stanley 662 & 662HD	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	1/2"	7/16”	3/8”

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Continuous Hinge Applications

Information Bulletin 421

Date: April, 2015

Eggers Industries

When determining prefit door dimensions for continuous hinge clearances the following wording should be part of the customer acknowledgement, “Prefit sizes for doors with continuous hinges are based on hinge requirement, 1/8” latch or meeting edge clearances and 1/32” per leaf allowance for frame irregularity. Please advise if you wish to request a different prefit clearance”.

Note: If the continuous hinge you are using is not included in this table please either verify that the hinge manufacturer’s dimensions apply to wood/composite doors, or bring it to the technical department to verify and add to the above table.

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Doors with Top & Bottom Pivot Only
Warranty Information

Eggers Industries

No. 425-08-10

Eggers' warranty now covers non-rated doors, 1-3/4" through 2-1/4" thick hung on top and bottom pivots only. This coverage includes Stile & Rail doors as well as flush doors constructed using Particleboard, SCL, Stave Lumber or Agrifiber core. It also includes lead doors constructed with these core types. In addition to regular offset pivot applications, this coverage will now allow center hung doors to carry our full warranty.

This coverage includes applications where a top pivot is used in combination with a floor closer (where the floor closer includes a pivot arm). It is the responsibility of the door specifier to insure the selected hardware is appropriate for the door weight and application, and that both pivots have the same offset. This warranty coverage does not apply for doors that also include molding or appliqués to one face only or have different species or finish on the faces.

This warranty coverage applies to:

Door Type	Maximum Width	Maximum Height
Flush Particle, Agrifiber, and Stave Core	4'	8'
Flush Structural Composite Core	4'	9'
Stile & Rail Doors	4'	8'

Notes:

- This coverage only applies to non-labeled doors. NFPA-80 requires labeled fire doors to have 2 hinges (or pivots) on doors up to 5' tall and an additional hinge (or pivot) for each 30" or fraction thereof.
- Special warranty coverage involving different maximum heights or alternate core types than noted above may apply to OEM accounts or on a job-specific basis.

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Flush Bolts

Information Bulletin 399

Date: August, 2013

Eggers Industries

Eggers has approval to prep listed and approved extension flushbolts, corner mounted flushbolts and surface applied flushbolts in doors rated 20 through 90-minute.

Fire Rated Doors

1.) Extension flushbolts can have up to a maximum of 24" (for UL) and 18" (for WH) extensions on doors 20 through 90-minute in either negative or positive pressure installations. Although the hardware manufacturers listings may say for metal doors Eggers has the approval in our procedures which supersedes the hardware listings. See Information Bulletin 322 for required blocking.

2.) Corner mounted flushbolts having mortised cuts greater than ¾" wide and 1"deep have a tendency to flare open. To maintain warranty if this type of flushbolt is required, Eggers requires the use of one of the following:

   a. Flushbolt end caps from Eggers (additional charge) see attached detail below.
   b. Astragal/edge set

   (Both of these items are approved for 20 through 90 minute fire ratings and Eggers will maintain full warranty on the doors.

Construction Tagged Doors

We have capability to manufacture doors with extension flush bolts up to 36"in length and will provide these on doors having 20-min construction tags. Flush bolts longer than 24" are not available on 45-90 minute doors, even with construction tags.

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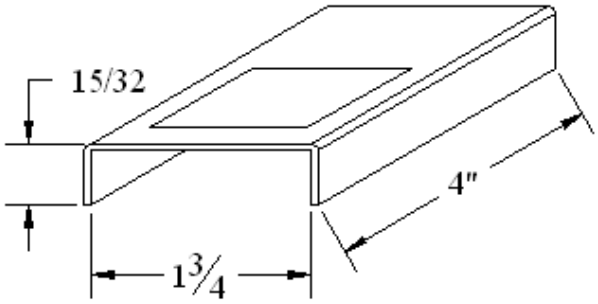
Flush Bolts
Information Bulletin 399

Date: August, 2013

Eggers Industries

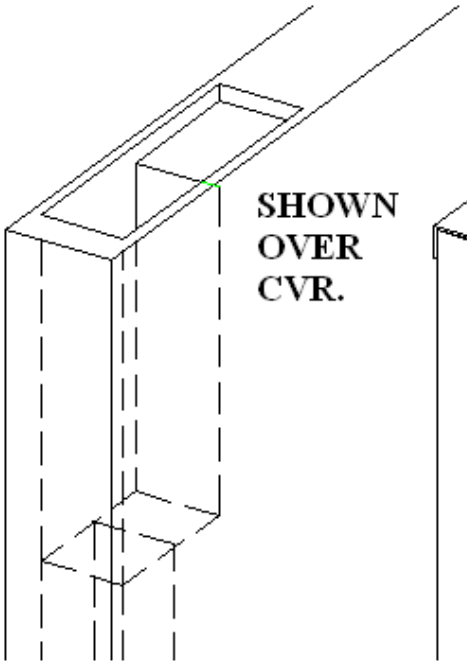
CVR EXIT DEVICE AND CORNER MOUNTED FLUSH BOLT END CAP

FOR USE ON VON DUPRIN'S 33/3547WDC, 5547WDC & 98/9947WDC CONCEALED VERTICAL RODS TO HELP PREVENT DAMAGE WHEN DOORS ARE IN HIGH USE OR ABUSIVE SITUATIONS AND ALL CORNER MORTISED FLUSHBOLTS TO PREVENT FLARING OF REMAINING PORTION OF DOOR.

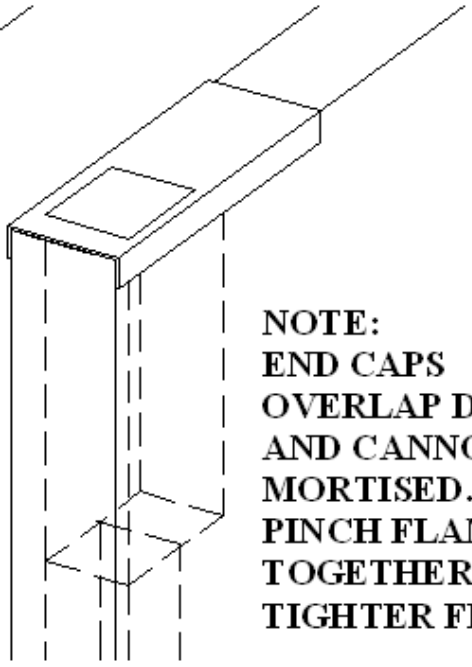


FINISH: US32D STAINLESS STEEL

END CAP FITS OVER TOP RAIL SO BOLT CAN PROTRUDE THROUGH HOLE.



SHOWN OVER CVR.



NOTE:
END CAPS OVERLAP DOOR AND CANNOT BE MORTISED.
PINCH FLANGES TOGETHER FOR TIGHTER FIT.

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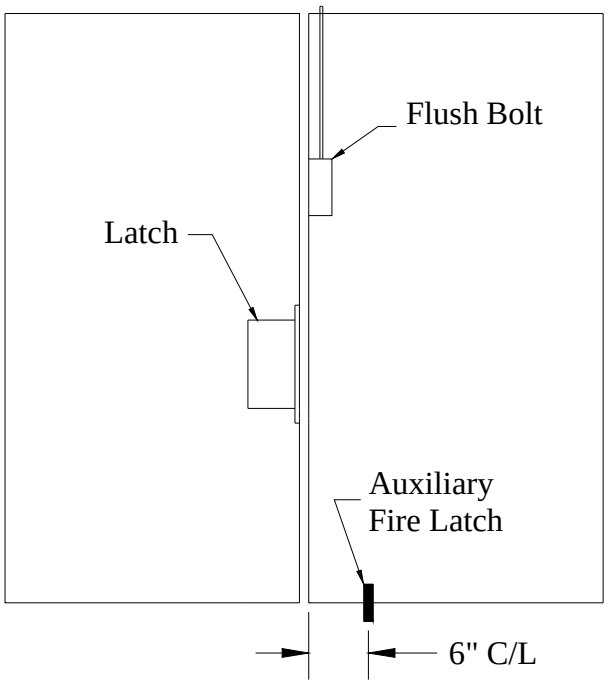
Flush Bolts
Information Bulletin 399

Date: August, 2013

Eggers Industries

Top Flushbolt Only on Mineral Core Pairs

We have approval to manufacture and label doors up to 90 minutes with a top flushbolt only. Most applications rated higher than 20 minutes will require and auxiliary fire latch in place of the bottom flush bolt. Doors need to be blocked as required for the flushbolt hardware being used. Please refer to Information Bulletin 322 for the available options. The auxiliary latch requirements for the use of a top flush bolt only over-ride the fire latch requirement shown in info bulleting 322, which was written for top and bottom flush bolt applications.



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Information Bulletin 399

Date: August, 2013

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Lead Lined Doors

Lead door applications are available with a 20-minute label from both UL and WH. Lead door applications are available with 45- or 60-min with a UL label. Pairs of lead-lined doors require a lead-lined astragal

eiDoor With Replaceable Edge

Only bored or extension type available in pairs of eiDoors (automatic corner mounted not allowed). These are available on non-rated or 20-min UL applications.

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: November, 2011

Eggers Industries

Warnock Hersey and Underwriters Laboratories have clarified the distance from lite cutout to door edge, multiple lites and other hardware cutouts as shown below. The cutout-to-door edge dimensions also apply to bottom rails for all but 45-min full lite constructions, but 10” is the recommended minimum to comply with ADA requirements. These dimensions do not apply to CVR hardware. Refer to info Bulletin 316 for appropriate margins.

Non-Rated		Edge of Lite Cutout to Edge of Door	Edge of Lite Cutout to Edge of Lite Cutout	Edge of Lite Cutout to Nearest Point of Lock Cutout
Particleboard	Non-Rated	5”	5”*	3-5/16”
Stave	Non-Rated	5”	3”	1-1/2”
Structural Composite	Non-Rated	5”	3”	1-1/2”
Agrifiber	Non-Rated	5”	5”	3-5/16”
Acoustical	Non-Rated	5”	5”	5”
Bullet Resistant	Non-Rated	5”	3”	1-1/2”

***** For applications without operable hardware, such as side panels, this margin may be reduced to 3” without voiding the warranty.

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: November, 2011

Eggers Industries

UL		Edge of Lite Cutout to Edge of Door	Edge of Lite Cutout to Edge of Lite Cutout	Edge of Lite Cutout to Nearest Point of Lock Cutout
Particleboard	20-min	5”	5”	3-5/16”
Stave	20-min	5”	3”	1-1/2”
Structural Composite	20-min	5”	3”	1-1/2”
Agrifiber	20-min	5”	5”	3-5/16”
Bullet Resistant	20-min	5”	3”	1-1/2”
Acoustical	All Ratings	5”	5”	5”
Agrifiber	45-min	NA	NA	NA
Particleboard	45-min	NA	NA	NA
Mineral	45-min Full Lite	5-1/2”	5-1/2”	3”
Mineral	45 through 90-min	5-1/2”	5-1/2”	3-1/2”

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: November, 2011

Eggers Industries

WH		Edge of Lite Cutout to Edge of Door	Edge of Lite Cutout to Edge of Lite Cutout	Edge of Lite Cutout to Nearest Point of Lock Cutout
Particleboard	20-min	5”	5”	5”
Stave	20-min	5”	5”	5”
Structural Composite	20-min	5”	5”	1-1/2”
Agrifiber	20-min	5”	5”	5”
Acoustical	All Ratings	5”	5”	5”
Agrifiber	45-min	6”	6”	6”
Particleboard	45-min	6”	6”	6”
Mineral	45-min Full Lite	5-1/4”	5-1/4”	3”
Mineral	45 through 90-min	5-1/4”	5-1/4”	3-1/2”

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: November, 2011

Eggers Industries

Notes:

1. Maximum lite dimensions are based on visible lite; the Minimum dimensions shown above are based on cutouts.
2. The distance between the visible lite to visible lite, visible lite to door edge, and visible lite to other hardware cutouts will vary depending upon the lite frame or bead used.
3. This revision changes the specified criteria from distance to visible lite to distance to the lite cutout. The cutout location is the important factor for the approvals. It does not affect the actual minimum dimensions to the visible lite, but changes the way it is determined.
4. The method of calculating lite location is now the same for both agencies.

Lite to edge of door margins: Lite to edge of door margins may be specified in one of two ways:

- Visible lite to door edge- In this case we have to verify the dimension between the cutout and door edge is acceptable by subtracting the bead height from the visible lite to door edge (cutout to edge of door = visible lite margin specified – bead height).

- Minimum margin – In this case the minimum dimension between the visible lite and the door edge is calculated by adding the bead height to the minimum margins in the tables above (visible lite to edge of door = edge of cutout to edge of door + bead height)

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Common Glass Types Used In Architectural Doors

Information Bulletin 262

Date: June, 2013

Eggers Industries

FIRE & SAFETY RATED GLASS

Wired Glass:

1. Eggers will only glaze with safety rated version of wired glass such as Superlite I-W. Doors can be glazed with non-safety rated glass by others where the building code allows its use.
2. Standard Thickness of Superlite I-W is nominally 1/4" (actual thickness is approximately .300").
3. Patterns available: Diamond, Square (Baroque).

Ceramic Glazing: (see info bulletin 352)

Superlite:

1. Superlite I, 1/4" glass for 20 minute only, can be etched prior to tempering.

Pyroedge Safety and Fire Rated:

1. 1/4" tempered for 20 minute only.
2. Glass can be etched, sandblasted, made obscure, or beveled *.
3. Glass can be radius – convex only not concave.
4. Requires special intumescent bead with 1/2" stop height

Pyroswiss 20 Safety and Fire Rated:

1. 1/4" tempered for 20 minute only.
2. Glass can be etched, sandblasted, made obscure, or beveled *.
3. Glass can be radius – convex only not concave.
4. Can be glazed with standard, non-intumescent wood beads with 5/8" stop height

SAFETY GLASS

Tempered Glass (Heat Treated):

1. Standard thickness 1/8", 3/16", 1/4".
2. 1/4" thick is most common, all thicknesses cost the same per square foot.
3. Meets safety glazing codes.
4. Cannot be cut after being heat treated.
5. When it breaks, explodes into very small non-jagged pieces.

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Common Glass Types Used In Architectural Doors

Information Bulletin 262

Date: June, 2013

Eggers Industries

Laminated Glass (2 pieces of 1/8" non-tempered glass laminated on either side of a plastic sheet):

1. Standard thickness 1/4".
2. Meets safety glazing codes.
3. When it breaks, it breaks in a spider web pattern with the plastic sheet holding the broken pieces together.

Bullet Resistant Glass:

1. Made of acrylic, polycarbonates, laminated safety glass combinations of these.
2. Thicknesses: the thickness varies between and within levels based on the other properties required such as fire rating or forced entry rating. Thickness and vision frame requirements will be determined as specified.
3. Meets safety glazing codes.

X-RAY GLASS

Leaded (standard):

1. Thickness:1/4" to 5/16" (This is equivalent to 1/16" lead shielding).
2. Does not meet fire or impact resistance requirements.
3. The new building codes do not allow non-safety rated glazing in doors, and Eggers will not install this glazing.

Leaded (safety rated):

1. Thickness: 9/16" (This is equivalent to 1/16" lead shielding).
2. Meet the impact resistance requirements.
3. This glass is not fire-rated by itself, but it can be used in labeled doors when installed in a dual glazed frame with fire rated glazing.
4. Cannot be glazed with wood beads.

*This allows the glazing to be made obscure glass or to add logo or other design. The tempered products, including Pyroswiss, Pyroedge, Fireglass 20 and Superlite 1, must be sandblasted before tempering. Orders will be priced out on a per job basis. Designs will require an approved drawing.

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Common Glass Types Used In Architectural Doors

Information Bulletin 262

Date: June, 2013

Eggers Industries

ACOUSTICAL GLASS

Standard Sealed Unit – from price list:

1. For non-fire rated doors
2. For 1 3/8" doors – 3/8" spacer – ¾" thick
3. For 1 3/4" doors – 3/4" spacer – 1 1/8" thick
4. For 2 1/4" doors – 3/4" spacer – 1 1/8" thick
5. Maximum size for STC guarantee is 370 sq. inches, except for STC 36 up to 1296 square inches.

Double Glazed Metal Vision Panel:

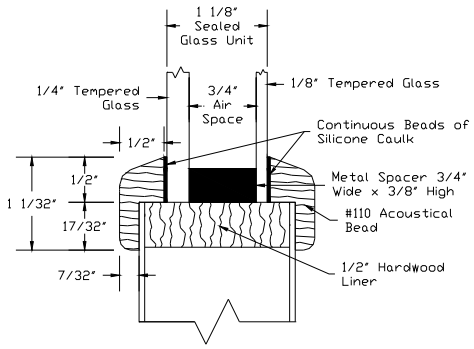
1. For 20-minute doors.
2. Maximum size 370 square inches for STC guarantee.
3. Maximum 1296 square inches for fire label.

Sealed Unit Metal Vision Panel:

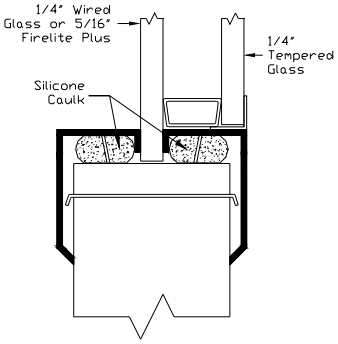
1. For 20 -minute doors.
2. Maximum size 370 square inches for STC guarantee.
3. Maximum 1296 square inches for fire label.
4. Aesthetically better looking than double glazed unit, but much more expensive.

Firelite Plus and tempered glass in a sealed unit and Anemostat Lo-Pro metal vision panel

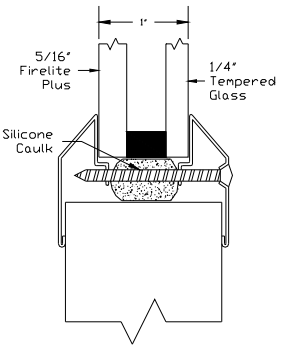
110 Wood Bead shown with Sealed Glass Unit



115 Dual Glazed Metal Vision Frame



Metal Vision Frame shown with Insulated Glass Unit



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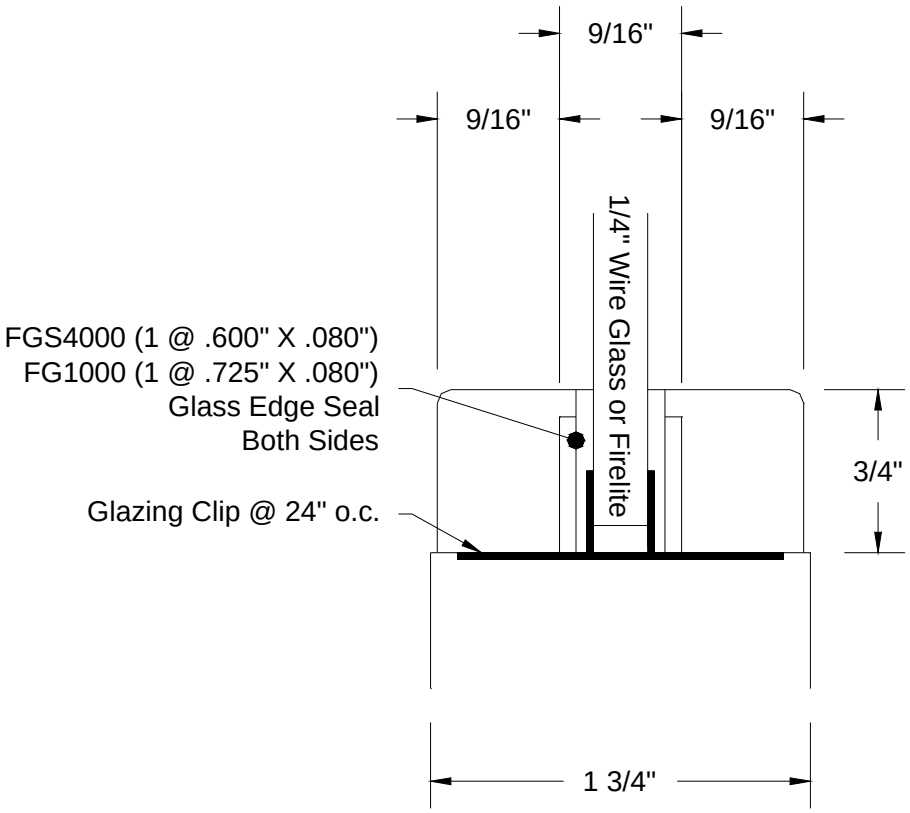
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Common Glass Types Used In Architectural Doors
Information Bulletin 262

Date: June, 2013

Eggers Industries

45-MINUTE FULL LITE DOORS
STOP DETAIL - #114



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Flush Doors

Neenah Division
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Neenah, WI 54956
Phone: 920.722.6444
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Architectural Veneer Faces,
Custom Wood Products,
Plywood

Kentucky Division
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Fax: 502.849.0444

Lead Door Guidelines
Information Bulletin

No. 286-12-10

Eggers Industries

Subject: Lead Door Guidelines

1. Maximum Size Doors
   All lead doors will be constructed at Neenah. The manufacturing process will limit the door dimensions to 48” in width and 10’ in length.

2. Core types available
   Lead doors are available with all standard core types. Specific core-related size or availability limitations will apply to lead doors constructed with that core.

3. Fire Ratings
   Lead-lined 20-min doors are available for Category A or B or as Neutral pressure applications (UL & WH).
   Lead-lined 45- and 60-min doors are only available as Category B or Neutral pressure (UL only).

4. Special Faces or Finishes
   Doors having any of the following will be quoted using Two Rivers pricing.
   A. Special finishes that only Two Rivers utilizes
   B. Sketch face doors
   C. Special veneers (i.e. soft wood veneers, blue print, burls, horizontal grain)

   Doors being sanded and finished at Neenah will be constructed using pre-made skins from Two Rivers. Doors that will have faces applied at Two Rivers will be manufactured and machined at Neenah using hardboard in place of the skin. The construction will be completed at Two Rivers per their Standard Instruction 1-10.

5. Maximum Thickness Lead
   Due to safety and material handling limitations our standard lead door offering is limited to a maximum lead thickness of 1/8” (1/16” each side). Doors having up to 1/4” of lead (1/8” each side) may be available upon engineering review. The maximum manufactured door weight will be limited to 500 lbs.

6. Pair Applications
   Lead-lined pairs will require the use of a leaded astragal. This astragal may be our lead-lined wood astragal for non-rated doors and 20-minute doors that do not require the astragal for their fire approval.

   For 45- and 60-min pairs, where an astragal in not required for the fire rating, a lead-lined flat steel astragal is required for x-ray protection. Where a MEA set is required for the fire approvals the astragal must be lead-lined for x-ray protection.

7. Hardware limitations
   Concealed vertical rod hardware cannot be used with lead-lined doors. The latch machining of many of these devices will remove the lead from both faces of the door. Other types of hardware may involve removal of the lead shielding and would void the protection in that area of the door. See our individual hardware tables for notes regarding lead door applications.

8. Construction
   Our lead door construction involves gluing lead to both sides of particleboard core and applying a 3-ply skin over the lead. Each sheet of lead will represent ½ the total lead thickness required. (i.e. 1/16" lead door = skin-1/32" lead-core-1/32" lead-skin). We will no longer supply 3/32" lead doors as a standard product because we do not inventory the 3/64" lead thickness and delivery time is too long for our standard lead-time.

   Because the lead is under the faces as opposed to being in the center of the core there is no special lining required for mortised lock machining.

9. Lites
   To be consistent with the International Building Code, glazing used in doors glazed by Eggers, must be safety rated. This has increased the thickness of 1/16" equivalent leaded glass from 1/4" to 9/16". We also have a 1/8" lead equivalent glazing available at a thickness of 3/4". Both of these glazing options require the use of metal vision panels for all glazed lead applications (see last page for glazing disclaimer).

   For non-rated 1/16" lead applications use the All Metal 105M L-2 lead-lined frame with 9/16" leaded glass. For non-rated 1/8" lead applications use the All Metal 115-L1 with tempered glass as the center pane and a 3/4" leaded glass outer pane.

   For labeled 20-, 45- and 60-min lead door applications use the dual-glazed All Metal 115-L1 vision panel. The center pane of glass must be fire rated; safety-rated single-ply ceramic such as Firelite NT is recommended. The outer pane will be 9/16" thick for 1/16" lead doors or 3/4" thick for 1/8" lead doors. This application is limited to a lead shielding of 1/8" or less.

   The thickness of glazing materials used with the All Metal vision panels referenced above are shown in the table below.

Frame	Lead Thick.	Center Pane Glazing	Outer Pane Glazing
115 L-1 (fire rated)	Up to 1/16"	3/16" to 5/16" Fire Rated	9/16" Leaded
115 L-1 (fire rated)	Up to 1/8"	3/16" to 1/4" Fire Rated	3/4" Leaded
105M L-2 (non-rated)	Up to 1/16"	9/16" Leaded	Not Applicable
115 L-1 (non-rated)	Up to 1/8"	3/16" to 1/4" Tempered	3/4" Leaded

10. Lite-to-Lock Dimension
    The minimum lite-to-lock dimension is core related. This dimension will be the same on lead-lined doors as for non-lead-lined doors constructed with the same core.

GLAZING OF LEAD-LINED DOORS

Eggers does not support the use of non-safety-rated glazing in door lites, and will not accept liability for the installation by others of non-safety-rated glazing in an Eggers door. The following options are available.

- Doors glazed by Eggers:
  These doors will require safety-rated glazing.

- Doors provided with cut-outs only:
  The glazing and glazing frame will be specified and ordered by the customer. Lead-lined wood beads not available through Eggers

- Doors provided with cutouts – glazing frame purchased through Eggers:
  Glazing and glazing frame will be specified by the customer. Commercially available frames can be ordered as an accessory through Eggers.

Eggers Industries

Stile & Rail Doors, Door Frames, Plywood, Veneered Components

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Flush Doors

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email: sales@eggersindustries.com

Mini-Blind Glass Units
Information Bulletin 410

Date: July, 2013

Eggers Industries

Subject: Mini-Blind Glass Units

Eggers Industries is able to provide doors incorporating mini-blind glass units. These units are supplied by more than one vendor, resulting in different size availability, options, lite bead requirements and cost. These units are only available as factory-glazed. See the table below for a summary of the offerings.

Generally, the mini-blinds are encapsulated between 2 pieces of 1/8" tempered glass. The controller(s) that tilt and raise the blinds are available on one side only. **The customer must specify which side of the door (INSIDE or OUTSIDE) the controller needs to be installed on**.

Key Features:

	Vendor 1	**Vendor 2**
Thickness of Unit	1-1/16"	1"
Wood Bead	#115	#113
Control Options	Tilt & Lift	Tilt & Lift or Tilt only
Slat Color	Bright White (all), tan optional on indicated sizes below	Bright White, Linen White, Tan
Slat Material	Aluminum	Aluminum
Delivery Lead Time	2 wks	10 wk minimum
Alternate Glazing	No	Yes (per availability)
Sizes	Standard sizes only per list below	Custom Sizes available

Standard sizes for 2 week lead-time:

7" x 64"	14" x 80"	20" x 80"	22" x 48"
8" x 64"	20" x 36"		* 22" x 64"
14" x 64"	* 20" x 64"	* 22" x 36"	22" x 80"

* Tan slats are optional for these sizes. All sizes available with bright white slats

Mini-blind units have not been evaluated for use on acoustic doors, and are not approved for use on fire-rated, x-ray or bullet-resistant doors.

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Physical Performance of eiDoors®

Information Bulletin 451

Date: July, 2011

Eggers Industries

Eggers eiDoors® are available with a variety of core options, including Particle, NAUF Particle, FSC Particle, Structural Composite Lumber, FSC Structural Composite Lumber, Stave, FSC Stave, Agrifiber, Mineral and Foam Core.

Because the vinyl cladding is removed during sample preparation, and our door edges do not rely on mechanical fasteners, the performance duty level of Eggers eiDoors® are the same as our standard door constructions of the same core type. Specifically, our eiDoors meet the Extra-Heavy Duty edge performance requirements of the Window & Door Manufacturer's Association test methods for Cycle Slam (TM-7), Hinge Loading (TM-8), and Screw Withdrawal (TM-10). (See Eggers Information Bulletin 420 for a full performance duty-level chart).

In addition to door performance, the PVC and G2 face options available on our rated and non-rated eiDoors have been evaluated for Resistance to Chemicals (ASTM D1308), Abrasion Resistance (ASTM D4060), Impact Resistance (ASTM D4226) and Fungal & Bacterial testing (ASTM G21, G22). Please find this test data located on our website at:
http://www.eggersindustries.com/TechnicalInformation/eiDOOR®.aspx.

Eggers Industries

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Puttying Nail Holes

Information Bulletin 274

Date: February, 2013

Eggers Industries

In Applied Moulding:

Eggers standard application of moulding is with adhesive only. Where nails are required per the door construction or moulding dimensions (see info bulletin #238). Nail holes will be treated as follows:

Doors Finished***** at Eggers – Nail holes will be filled to match the finish
Doors Primed at Eggers – Nail holes will be puttied but not primed
Doors shipped without finish – Nail holes will not be filled

In Beads (for Louver or Lites installed at Eggers)

Beads are secured in the opening with nails (brads). Nail holes will be treated as follows:

Doors Finished***** at Eggers – Nail holes will be filled to match the finish
Doors Primed at Eggers – Nail holes will be puttied but not primed
Doors shipped without finish – Nail holes will not be filled

***** This includes clear, stained and painted finish options

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eiDoor Rigid PVC Material Test Results
ASTM D1308-02 (07)

Eggers Industries

SGS

CLIENT: InPro Corporation
S80 W18 766 Apollo Dr
Muskego, WI 53150
Attn.: Matthew Bennett

Test Report No: 177:016620-01	**Date:** November 22, 2008

SAMPLE ID: Rigid PVC Material

DATE OF RECEIPT: October 29, 2008

TESTING PERIOD: November 15-22, 2008

AUTHORIZATION: Client's PO #: 65156

TESTS REQUESTED: The submitted sample was tested for Resistance to Chemicals in accordance with the procedures outlined in ASTM D1308-02 (07)

TEST RESULTS: Continued on the following pages

PREPARED BY:

Robert Strzelecki, Technician
Building Materials Lab

SIGNED FOR AND ON BEHALF OF SGS U.S. TESTING COMPANY INC.

Dominick Lepore, Manager
Building Materials

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CLIENT: InPro Corporation

RESULTS:

RESISTANCE TO CHEMICALS
ASTM D1308-02 (07)

Chemical	Discoloration	Change in Gloss	Blistering	Softening	Swelling
Distilled Water, Cold	0	0	0	0	0
Distilled Water, Hot	0	0	0	0	0
Ethyl Alcohol, 50% Vol.	0	0	0	0	0
Vinegar, 3% Acetic Acid	0	0	0	0	0
Sodium Hydroxide, 10%	0	0	0	0	0
Sulfuric Acid, 10%	0	0	0	0	0
Soap Solution, 1%	0	0	0	0	0
Detergent Solution, 1%	0	0	0	0	0
Bleach	0	0	0	0	0
Tomato Juice	1	0	0	0	0
Vegetable Oil	0	0	0	0	0
Ketchup	0	0	0	0	0
Mustard	0	0	0	0	0
Coca Cola	0	0	0	0	0
Coffee	0	0	0	0	0
Tea	1	0	0	0	0
Red Wine	0	0	0	0	0
Lubricating Oil	0	0	0	0	0
Pencil #2	1	0	0	0	0
BIC, Fine Point Pen	1	0	0	0	0
Crayon	1	0	0	0	0

Rating:
0 = No change
1 = Slight change
2 = Moderate change
3 = Severe change

Notes: Sample ID: Rigid PVC Material
Test Procedure: 7 days Spot Test, Open Method.
Lab Environment: Temperature 23°C, Humidity 50 %
Specimen Conditioning: 48 hours minimum

****

End of Report

Eggers Industries

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IPC Rigid Vinyl Sheet Woodland Test Results
ASTM D4060-07

Eggers Industries

SGS

CLIENT: InPro Corporation
S80 W18 766 Apollo Dr
Muskego, WI 53150
Attn.: Matthew Bennett

Test Report No: 177:019541-03	**Date:** February 02, 2009

SAMPLE ID: 0.040 Sanparrel Woodland Sheet

DATE OF RECEIPT: January 21, 2009

TESTING PERIOD: January 27 - February 02, 2009

AUTHORIZATION: Client's Letter

TESTS REQUESTED: The submitted sample was tested for Abrasion Resistance in accordance with the procedures outlined in ASTM D4060-07

TEST RESULTS: Continued on the following pages

PREPARED BY:

Robert Strzelecki, Technician
Building Materials Lab

SIGNED FOR AND ON BEHALF OF SGS U.S. TESTING COMPANY INC.

Dominick Lepore, Manager
Building Materials

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CLIENT: InPro Corporation

RESULTS:

ABRASION RESISTANCE
ASTM D4060-07

Specimen	Initial Weight	Final Weight	Weight Loss	Wear Index
	gm	gm	gm	
1	14.9945	14.8572	0.1373	0.0049
2	14.9738	14.8256	0.1482	0.0053
Avg.			**0.1428**	**0.0051**

Notes: Sample ID: 0.040 Sanparrel Woodland Sheet
CS-10 wheels
250 gm weights
28000 cycles
Lab Environment: Temperature 23°C, Humidity 50 %
Specimen Conditioning: 48 hours minimum

Observations: At 6,000 cycles very slight wear was observed
At 28,000 cycles a wear pattern became evident

****

End of Report

IPC Rigid Vinyl Sheet Face Test Results
ASTM D4226-05

Eggers Industries

SGS

CLIENT: InPro Corporation
S80 W18 766 Apollo Dr
Muskego, WI 53150
Attn.: Matthew Bennett

Test Report No: 177:019541-02	**Date:** February 02, 2009

SAMPLE ID: 0.040 Sanparrel Sheet

DATE OF RECEIPT: January 21, 2009

TESTING PERIOD: January 27, 2009

AUTHORIZATION: Client's Letter

TESTS REQUESTED: The submitted sample was tested for Impact Resistance in accordance with the procedures outlined in ASTM D4226-05

TEST RESULTS: Continued on the following pages

PREPARED BY:

Robert Strzelecki, Technician
Building Materials Lab

SIGNED FOR AND ON BEHALF OF
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Dominick Lepore, Manager
Building Materials

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CLIENT: InPro Corporation

RESULTS:

IMPACT RESISTANCE
ASTM D4226-05

IMPACT RESISTANCE	PASS	FAIL
in/lbs	%	%
120	40	60
112	40	60
108	70	30
104	90	10
100	70	30
96	100	0

Requirement: 50% of samples passing

Notes: Sample ID: 0.040 Sanparrel Sheet
Gardner Impact Tester, Method A
Impactor H 25
Impactor Weight: 8 lbs
Panel Support Ø 0.64"
Lab Environment: Temperature 23°C, Humidity 50 %
Specimen Conditioning: 48 hours minimum

****

End of Report

Eggers Industries

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IPC Rigid Vinyl Sheet Woodland Test Results
ASTM D4226-05

Eggers Industries

SGS

CLIENT: InPro Corporation
S80 W18 766 Apollo Dr
Muskego, WI 53150
Attn.: Matthew Bennett

Test Report No: 177:019541-01	**Date:** February 02, 2009

SAMPLE ID: 0.040 Sanparrel Woodland Sheet

DATE OF RECEIPT: January 21, 2009

TESTING PERIOD: January 27, 2009

AUTHORIZATION: Client's Letter

TESTS REQUESTED: The submitted sample was tested for Impact Resistance in accordance with the procedures outlined in ASTM D4226-05

TEST RESULTS: Continued on the following pages

PREPARED BY:

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Building Materials Lab

SIGNED FOR AND ON BEHALF OF
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Dominick Lepore, Manager
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CLIENT: InPro Corporation

RESULTS:

IMPACT RESISTANCE
ASTM D4226-05

IMPACT RESISTANCE	PASS	FAIL
in/lbs	%	%
120	100	0
128	80	20
132	50	50
136	0	100

Requirement: 50% of samples passing

Notes: Sample ID: 0.040 Sanparrel Woodland Sheet
Gardner Impact Tester, Method A
Impactor H 25
Impactor Weight: 8 lbs
Panel Support Ø 0.64"
Lab Environment: Temperature 23° C, Humidity 50 %
Specimen Conditioning: 48 hours minimum

****

End of Report

Eggers Industries

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eiDoor Rigid Vinyl Material (PVC) Test Results
ASTM G-21, G-22

Eggers Industries

Fungal and Bacterial Resistance Testing

Test Data

REPORT OF TEST

SGS U.S. Testing Company Inc.

291 Fairfield Avenue • Fairfield, NJ 07004-3833 • Tel: 201-575-5252 • Fax: 201-244-1823

Report Number: 203609-01
Date: 06/27/97
Page: 1 of 2

Client: Inpro Corporation
S. 80W. 18766 Apollo Drive/PO Box 406
Muskego, WI 53150

Subject: Samples submitted and identified by the client as: Rigid Vinyl Material (PVC).

Sample Description: 2"x2" white squares.

Project: Fungal and Bacterial Resistance Testing

Test Dates: 05/29/97 - 06/26/97

Procedure: A. ASTM G-21

The testing was conducted in accordance with the procedures outlined in ASTM G-21-90, "Determining Resistance of Synthetic Polymeric Materials to Fungi".

The samples were placed on a mineral salts medium and sprayed with a combined inoculum of the following spore suspensions.

	ATCC #
Aspergillus niger	9642
Penicillium funiculosum	9644
Chaetomium globosum	6205
Gliocladium virens	9645
Aureobasidium pullulans	9348

After inoculation, samples and controls were placed in a "tropical test chamber" and incubated at a temperature of 30 ± 1°C relative humidity greater than 85%.

The total incubation period was 21 days.

Prepared by:

Miguel Lijo
Laboratory Technician

SIGNED FOR THE COMPANY BY:

D. Keith Goins, Ph.D.
Manager, Microbiology

Member of the SGS Group

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REPORT OF TEST

SGS U.S. Testing Company Inc.

Client: Inpro Corporation

Report Number: 203669-01
Date: 06/27/97

B. ASTM G-22

The testing was conducted in accordance with the procedures outlined in ASTM G-22, "Determining Resistance of Synthetic Polymeric Materials to Bacteria".

The samples were placed on a mineral salts medium and inoculated with the test organisms *Pseudomonas aeruginosa*, ATCC #13388, *E. Coli* ATCC #8739 and *Staphylococcus aureus* 6538. The test sample and control were then incubated 21 days at 35ºC and 85% Relative Humidity.

* *E. Coli* and *Staphylococcus aureus* were tested at the client's request.

Results:

A. ASTM G-21

Sample	Evaluation of Fungal Growth
Rigid Vinyl Material (PVC)	0
Environmental Controls (paper, cork, cotton, leather)	3,4
Viability Control	4

*ASTM Rating	Observed Growth on Specimens
0	None
1	Traces of Growth (less than 10%)
2	Light Growth (10-30%)
3	Medium Growth (30-60%)
4	Heavy Growth (60% to complete coverage)

B. ASTM G-22

Sample	Evaluation of Bacterial Growth
Rigid Vinyl Material (PVC)	0
Viability Control	Heavy Growth

Conclusion: The submitted samples of Rigid Vinyl Material (PVC) did not support fungal or bacterial growth, when tested as specified.

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IPC EnviroGT, Non-PVC Material Test Results
ASTM D1308-02 (07)

Eggers Industries

SGS

CLIENT: InPro Corporation
S80 W18 766 Apollo Dr
Muskego, WI 53150
Attn.: Matthew Bennett

Test Report No: 177:016620-04	**Date:** November 22, 2008

SAMPLE ID: Envirogt, Non PVC Material

DATE OF RECEIPT: October 29, 2008

TESTING PERIOD: November 15-22, 2008

AUTHORIZATION: Client's PO #: 65156

TESTS REQUESTED: The submitted sample was tested for Resistance to Chemicals in accordance with the procedures outlined in ASTM D1308-02 (07)

TEST RESULTS: Continued on the following pages

PREPARED BY:

Robert Strzelecki, Technician
Building Materials Lab

SIGNED FOR AND ON BEHALF OF SGS U.S. TESTING COMPANY INC.

Dominick Lepore, Manager
Building Materials

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CLIENT: InPro Corporation

RESULTS:

RESISTANCE TO CHEMICALS
ASTM D1308-02 (07)

Chemical	Discoloration	Change in Gloss	Blistering	Softening	Swelling
Distilled Water, Cold	0	0	0	0	0
Distilled Water, Hot	0	0	0	0	0
Ethyl Alcohol, 50% Vol.	0	0	0	0	0
Vinegar, 3% Acetic Acid	0	0	0	0	0
Sodium Hydroxide, 10%	0	2	0	0	0
Sulfuric Acid, 10%	0	0	0	0	0
Soap Solution, 1%	0	0	0	0	0
Detergent Solution, 1%	0	0	0	0	0
Bleach	0	0	0	0	0
Tomato Juice	0	0	0	0	0
Vegetable Oil	0	0	0	0	0
Ketchup	0	0	0	0	0
Mustard	0	0	0	0	0
Coca Cola	0	0	0	0	0
Coffee	0	0	0	0	0
Tea	0	0	0	0	0
Red Wine	0	0	0	0	0
Lubricating Oil	0	0	0	0	0
Pencil #2	0	0	0	0	0
BIC, Fine Point Pen	0	0	0	0	0
Crayon	1	0	0	0	0

Rating:
0 = No change
1 = Slight change
2 = Moderate change
3 = Severe change

Notes: Sample ID: Envirogt, Non PVC Material
Test Procedure: 7 days Spot Test, Open Method.
Lab Environment: Temperature 23°C, Humidity 50 %
Specimen Conditioning: 48 hours minimum

****

End of Report

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164 North Lake Street
Neenah, WI 54956
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Fax: 920.722.0357
email: sales@eggersindustries.com

SGS

CLIENT: InPro Corporation
S80 W18 766 Apollo Dr
Muskego, WI 53150
Attn.: Matthew Bennett

Test Report No: 177:016620-06-R1	**Date:** February 16, 2009

SAMPLE ID: 0.040 Envirogt, Non PVC Material

DATE OF RECEIPT: October 29, 2008

TESTING PERIOD: November 15-22, 2008

AUTHORIZATION: Client's PO #: 65156

TESTS REQUESTED: The submitted sample was tested for Impact Resistance in accordance with the procedures outlined in ASTM D4226-05

TEST RESULTS: Continued on the following pages

PREPARED BY:

Robert Strzelecki, Technician
Building Materials Lab

SIGNED FOR AND ON BEHALF OF
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Dominick Lepore, Manager
Building Materials

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CLIENT: InPro Corporation

RESULTS:

IMPACT RESISTANCE
ASTM D4226-05

IMPACT RESISTANCE	PASS	FAIL
in/lbs	%	%
120	30	70
116	50	50
112	80	20
80	100	0
56	100	0
40	100	0

Requirement: 50% of samples passing

Notes: Sample ID: 0.040 Envirogt, Non PVC Material
Gardner Impact Tester, Method A
Impactor H 25
Impactor Weight: 8 lbs
Panel Support Ø 0.64"
Lab Environment: Temperature 23°C, Humidity 50 %
Specimen Conditioning: 48 hours minimum

****

End of Report

IPC EnviroGT, Non-PVC Material Test Results
ASTM G-21, G-22

Eggers Industries

SGS

CLIENT: Inpro Corporation
Attn: Matt Bennett
S 80 W 18766 Apollo Dr. POB 406
Muskego, WI 53150

Report No.: 001:056646/4 **Date:** 1/28/09

The following samples were submitted by the client as:

Envirogt, Non PVC Material

SAMPLE DESCRIPTION:	Non PVC Material
DATE OF RECEIPT:	11/20/08
TESTING PERIOD:	12/16/08 – 1/13/09
AUTHORIZATION:	Client's Purchase Order # 65443
TESTS REQUESTED:	Fungal Resistance Testing, ASTM G-21 Bacterial Resistance Testing, ASTM G-22
TEST RESULTS:	Page 3-4
CONCLUSIONS:	The submitted sample was found to be fungus and bacteria resistant when tested as specified.

SIGNED FOR AND ON BEHALF OF
SGS U.S. TESTING COMPANY INC.

Erin Ricciardi

Erin Ricciardi
Dept Head, Microbiology

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PROCEDURE:

A. ASTM G-21

The testing was conducted in accordance with the procedures outlined in ASTM G-21-96, "Determining Resistance of Synthetic Polymeric Materials to Fungi".

The samples were placed on a mineral salts medium and sprayed with a combined Inoculum of the following spore suspensions.

Organism	ATCC #
Aspergillus niger	9642
Penicillium funiculosum	11797
Chaetomium globosum	6205
Gliocladium virens	9645
Aureobasidium pullulans	15233

After inoculation with the above organisms, samples were evaluated by rating the extent of developing visible growth (including microscopic growth). Samples and controls were placed in a "tropical test chamber" and incubated at a temperature of 30 ± 1°C and relative humidity greater than 85%. The total incubation period was 28 days.

B. ASTM G-22

The testing was conducted in accordance with the procedures outlined in ASTM G-22-96, "Standard Practice For Determining Resistance of Plastics to Bacteria".

The samples were placed on a mineral salts medium and inoculated with the test organism *Pseudomonas aeruginosa,* ATCC #13388. The test sample and controls were then incubated 21 days at 35°- 37°C.

Samples were evaluated by rating the development and extent of microbial growth on the sample or in the surrounding medium.

CLIENT: Inpro Corporation

TEST RESULTS:

A. ASTM G-21

		Evaluation of Fungal Growth				
Sample	**Replicates**	**Day 0**	**Day 7**	**Day 14**	**Day 21**	**Day 28**
Envirogt, Non PVC Material	1	0	0	0	0	0
	2	0	0	0	0	0
	3	0	0	0	0	0
Controls						
Positive (paper/cork)		0/0	4/3	4/3	4/4	4/4
Positive (viability)		0	4	4	4	4
Negative (glass slide)		0	0	0	0	0

ASTM Rating	**Observed Growth on Specimens**
0	None
1	Traces of Growth (less than 10%)
2	Light Growth (10-30%)
3	Medium Growth (30-60%)
4	Heavy Growth (60% to complete coverage)

Summary:

The submitted sample did not support fungal growth. The positive and viability controls supported heavy growth, while the negative did not support growth, thus validating the test procedure.

TEST RESULTS (Continued):

B. ASTM G-22

		Evaluation of Bacterial Growth			
Sample	**Replicates**	**Day 0**	**Day 7**	**Day 14**	**Day 21**
Envirogt, Non PVC Material	1	0	0	0	0
	2	0	0	0	0
	3	0	0	0	0
Controls					
Positive (vinyl)		0	2	3	4
Negative (glass slide)		0	0	0	0

All positive ratings confirmed as *Pseudomonas aeruginosa,* the test organism.

Summary:

The submitted sample did not support bacterial growth. The positive control supported heavy growth, while the negative did not, thus validating the test results.

****

End of Report

INSTALLATION INSTRUCTIONS
- CONTENTS -

Pages	Subject Covered
2	General Description
3	20 Minute Applications (Single Swing and Pairs)
4	45-90 Minute Applications (Single Swing and Pairs)
5	Dutch Doors and Door & Transom Applications
6	Auxiliary Fire Latches
7	UL Fire Label Information
8	Warnock Hersey Fire Label Information

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POSITIVE PRESSURE INSTALLATION INSTRUCTIONS

Retain these instructions. They will be required by the local code official or authority having jurisdiction (AHJ) to determine if the wood fire doors have been properly installed.

These instructions are required for the installation of fire doors that fall under the jurisdiction of building codes, including the International Building Code (IBC), which requires side hinged fire doors to meet positive pressure test methods.

These instructions cover the two parts of positive pressure testing, (1) fire resistance and (2) smoke control. All doors required to meet positive pressure must meet the specified fire resistance. The application and code determine if smoke control is also required. A brief description of each part, and the typical method of addressing it, are given below.

Part 1 – Fire Resistance:
Fire resistance requires the doors to pass the criteria of the positive pressure fire test method such as UL 10C or NFPA 252 (where the neutral plane is located at 40" above the sill). Doors that meet the fire resistance are designated as either Category A or Category B as described below. As seen in the descriptions, this designation indicates job-site actions required during the door installation.

CATEGORY "A": The door does not require any additional edge sealing system to meet fire resistance. This designation indicates the door has been specially manufactured to meet fire resistance, or has had the required edge sealing systems pre-installed in the door by the door labeler.

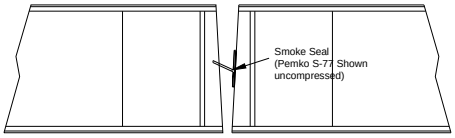
CATEGORY "B": The door requires additional edge sealing to meet fire resistance. This designation indicates the door will not meet fire resistance without the field application of an edge sealing material. This may involve an intumescent material, gasketing material, or combination of both.

Part 2 – Smoke Control:
Smoke control requires the doors to meet the air leakage criteria of UL 1784 or NFPA 105. This requirement is typically met by field application of a listed Category H gasketing material, indicating it has been evaluated for positive pressure. In some applications specific gasketing material may provide both the fire resistant edge seal and smoke control. The systems detailed in the following instructions are the systems provided with the doors if supplied by Eggers Industries.

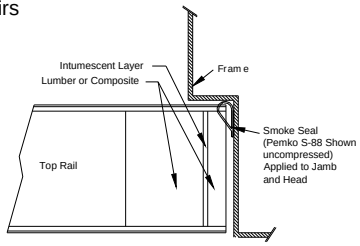
POSITIVE PRESSURE INSTALLATION INSTRUCTIONS
20 MINUTE APPLICATIONS

Category A

Meeting Edges of Pairs



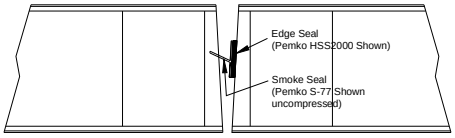
Singles and Hinge Edges of Pairs



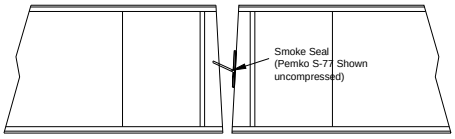
The smoke seal can be left out if smoke control ("S") is not required for Category A constructions.

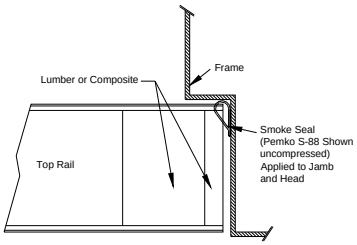
Category B

Meeting Edges of Pairs
(Category B)



Meeting Edges of Pairs
(Category A)





Singles and Hinge Edges of Pairs

The meeting edge gasketing can be left out if smoke control ("S") is not required. The frame gasketing is always required for Category B constructions.

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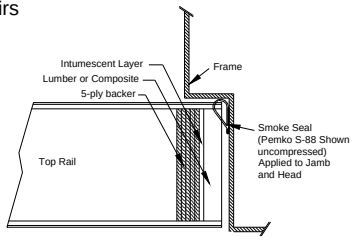
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POSITIVE PRESSURE INSTALLATION INSTRUCTIONS
45 -90 MINUTE APPLICATIONS

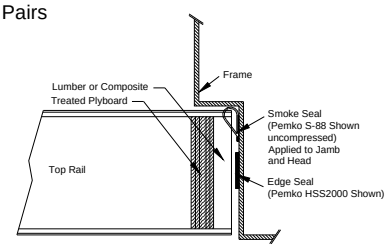
Category A

Singles and Hinge Edges of Pairs



Category B

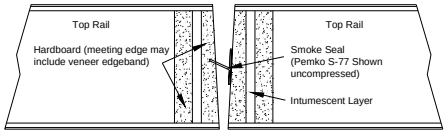
Singles and Hinge Edges of Pairs



The smoke seal can be left out if smoke control ("S") is not required.

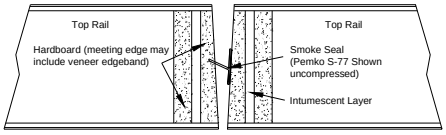
Category A

Meeting Edges of Pairs

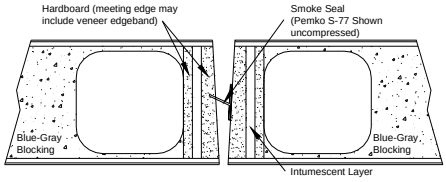


Full or partial height metal edges optional over the edges without additional intumescent

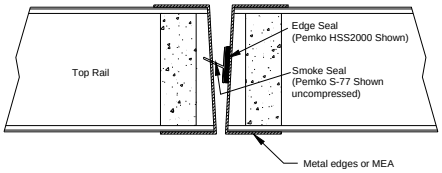
Category B



Full or partial height metal edges optional over the edges without additional intumescent



CVR applications (latch machining will vary)



The meeting edge gasketing can be left out if smoke control ("S") is not required.

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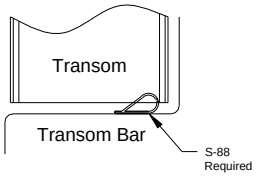
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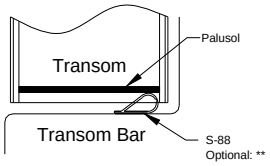
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POSITIVE PRESSURE INSTALLATION INSTRUCTIONS DOOR/TRANSOM COMBINATIONS AND DUTCH DOORS

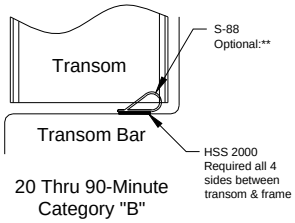
STRAIGHT CUT WITH HORIZONTAL TRANSOM BAR



20-Minute
Category "B"

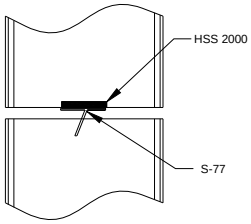


20 Thru 90-Minute
Category "A"

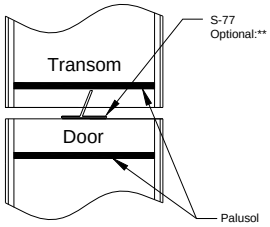


20 Thru 90-Minute
Category "B"

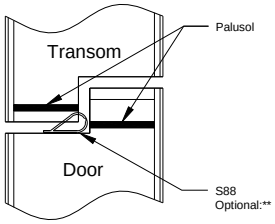
Category "A"



20-Minute
Dutch Door

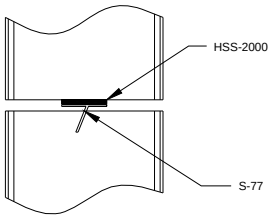


20 Thru 90-Minute
Straight Cut
Door & Transom

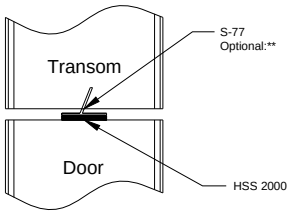


20 Thru 90-Minute
Rabbetted
Door & Transom

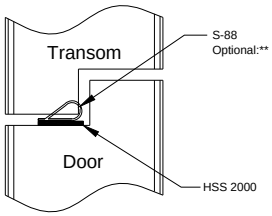
Category "B"



20-Minute
Dutch Door



20 Thru 90-Minute
Straight Cut
Door & Transom



20 Thru 90-Minute
Rabbetted
Door & Transom

** Smoke seal is required by code for "S" label.

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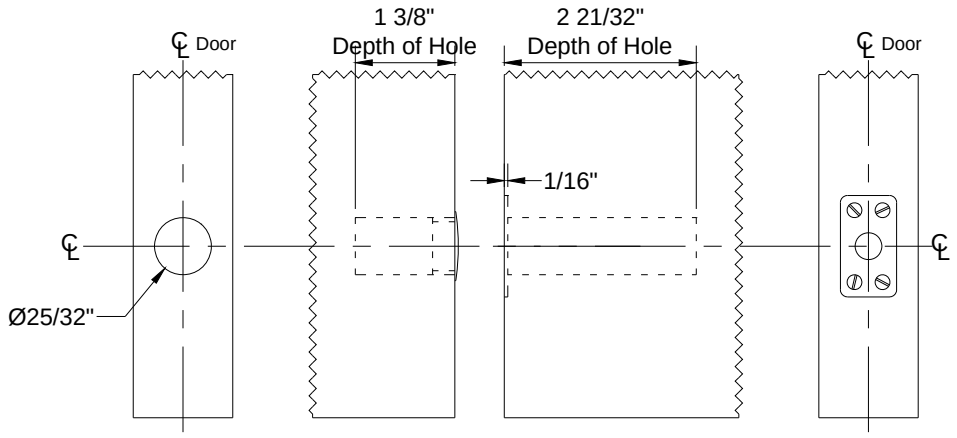
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POSITIVE PRESSURE INSTALLATION INSTRUCTIONS

AUXILIARY FIRE LATCH



STRIKE LATCH

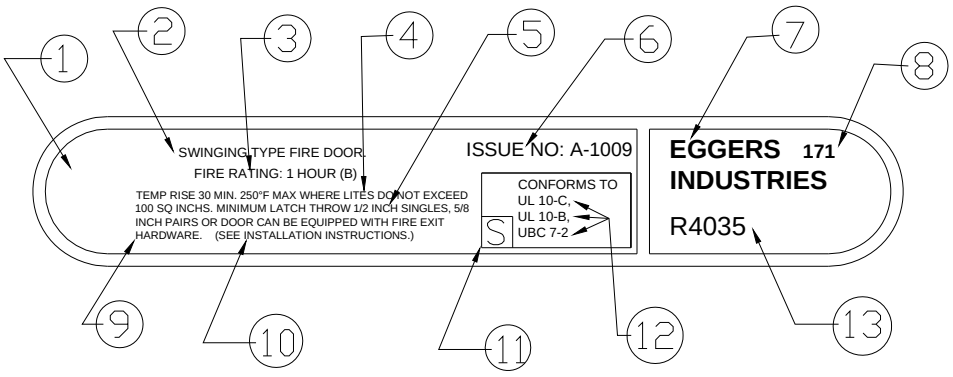
Several options are approved in our fire door procedures allowing auxiliary fire latches to be used in place of, or in addition to, bottom latching flush bolts, surface vertical rods, or concealed vertical rods. Where approved the fire door will be machined for the required fire latches.

The required latches are shipped in an accessory pack along with the doors, and must be installed to insure the fire protection rating. When the fire latches are required between the meeting stiles of pair doors the latch will be pre-machined in one door and the strike in the other door. Where the latch is required between the rail and floor, rail and frame header, or stile and frame jamb a corresponding strike must be machined in that surface opposite the fire latch. The strike hole should be covered with the plastic cap provided. Alternately, a dust proof strike of equal diameter may be used.

Note: Some hardware is furnished with its own auxiliary fire latches, and recommended fire latch locations. Where those locations or latch sizes vary from the door machining, the door machining takes precedence, and the hardware supplied with the door is to be used.

POSITIVE PRESSURE INSTALLATION INSTRUCTIONS

INFORMATION FOUND ON AN UNDERWRITERS LABORATORY LABEL



1. UL CLASSIFIED MARKING - Authorized mark verifying approval of label content
2. UL CATEGORY - Indicates product type
3. UL FIRE RATING - Hourly approval
4. TEMPERATURE RISE RATING - indicates the maximum temperature of the door face
5. MINIMUM LATCH THROW REQUIRED ON LOCK/LATCH.
6. MANUFACTURERS PERMANENT ISSUE NUMBER - This UL issued number indicates the label category. It replaces the earlier design using sequencial numbering.
7. MANUFACTURES NAME.
8. MANUFACTURES PART NUMBER.
9. STATES IF THE DOOR IS ELIGIBLE FOR FIRE EXIT HARDWARE.
10. REFERENCE TO INSTALLATION INSTRUCTIONS - Per code requirement, a packet of instructions are shipped with each fire door order. these are to aid the installer and are to be retained for the Authority Having Jurisdiction (AHJ) to use in determining code compliamce.
11. "S" MARK - Indicates the opening will meet smoke control requirements when gasketed per the installation instructions.
12. CONFORMANCE - Identifies the standard test methods the door has been evaluated to.
13. UL FILE NUMBER - The UL file established to document manufacturing approvals.

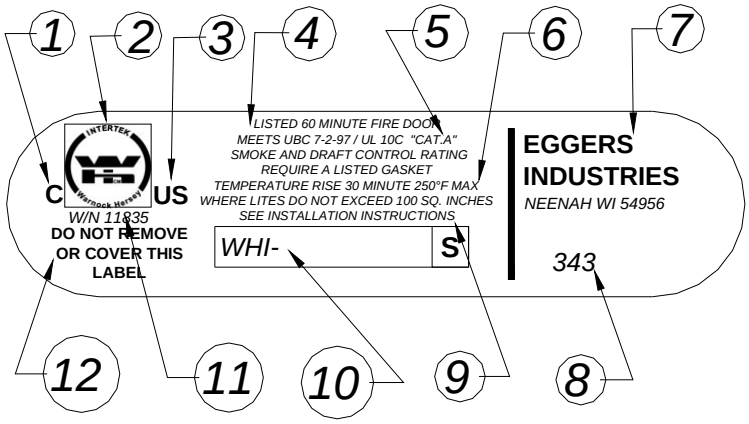
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Smithfield, KY 40068
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Fax: 502.849.0444

INFORMATION FOUND ON A WARNOCK HERSEY LABEL



1. *Country identifier "C" for Canada and Hose Stream.*
2. *Warnock Hersey Certification Mark.*
3. *Country identifier "US" for United States.*
4. *LISTED, Fire Rating & Category "FIRE DOOR".*
5. *Positive Pressure & Smoke and Draft Control.*
6. *Limitation if a Temperature Rise door is required.*
7. *Listee's name and location.*
8. *Manufactures part number.*
9. *Due to changes in fire codes a set of Installation Instructions are sent with each order of fire doors. These instructions are to aid the authority having jurisdicion (AHJ) in determining if the opening is in code compliance.*
10. *Serial Number.*
11. *Intertek part number.*
12. *DO NOT REMOVE OR COVER THIS LABEL.*

Removable Edge Replacement Procedure

Information Bulletin

Eggers Industries

No. 254-05-10

Procedures for replacing the profiled vinyl or steel edges on Eggers eiDoors®

There is no requirement to take the door down if replacing vinyl cladding on the lock edge. The door must be taken down to replace steel cladding or vinyl cladding on the hinge edge.

Vinyl Edges:

Step 1: Remove any hardware that will interfere with the removal or replacement of the edge. Begin removing the original vinyl edge by inserting a small flat blade screwdriver between the door edge and vinyl cladding at the top or bottom of the door, removing the return leg of the vinyl from the door kerf.



Step 2: From this point, slide the screwdriver down the length of the door on the wide face, releasing the return leg over the entire door length. Detach the vinyl from the door by lifting it from the return groove on the narrow face.



Step 3: Begin attachment of the replacement edge by engaging the return leg of the narrow face into the door kerf. (Note: the replacement vinyl cladding is provided with tape in both edges of the profile. This tape insures proper fit and aids in the impact resistance of the edge and should not to be removed.) To insure proper position, align the vinyl edge to the top end of the door before finishing the installation.



Step 4: Beginning at the top end, flex the vinyl edge and apply pressure to start engagement of the return leg of the vinyl edge into the door kerf. From this end, work down the length of the door engaging the return leg of the vinyl edge into the door kerf until the entire edge is engaged. Reattach any hardware removed in step 1.



Stainless Steel Edges:

Step 1: Remove any hardware that will interfere with the removal or replacement of the edge. Begin by removing the original stainless steel edge by sliding it off from one end of the door. Tapping the end of the steel edge with a wood block may assist in getting it started.



Step 2: A strip of tape should remain attached to the edge of the door on both the wide and narrow faces. This tape insures proper fit and aids in the impact resistance of the edge and should not to be removed.



Step 3: Begin attachment of the replacement edge by compressing the tape at one end of the door and sliding the replacement edge over it.



Step 4: Continue sliding the edge onto the door until it is properly aligned with the ends of the door. Reattach any hardware removed in step 1.



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Flush Doors

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email: sales@eggersindustries.com

eiDoor® Maintenance
Information Bulletin 255

Date: August, 2011

Eggers Industries

Clean-up and Routine Maintenance: Vinyl Clad Doors (eiDoor®) and Panels

Eggers recommends the following options to clean, degrease and remove stains from the vinyl-clad (PVC and Non-PVC) doors and panels.

For common stains like dirt, grease and food stains, spray cleaners such as Fantastic®, Clorox® Clean-up, or orange citrus cleaners can be used.

For tough stains like pens, markers, paints, some rubber heel marks and medical stains, a 10% bleach solution can be used but must be rinse-wiped following cleaning. Pink pearl erasers, Mr. Clean® Magic Eraser and 3M Scotch-Brite™ Easy Erasing pads are all excellent tools to use for removing stubborn stains or marks from the eiDoor® face.

Scratches to the Woodland face material can be repaired with the use of a Mohawk Fil-Stik™ to match the face color.

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TRUE STILE AND RAIL AND 5-PLY FLUSH DOORS
Warranty Information

Date: February, 2017

Eggers Industries

DURATION OF WARRANTIES

DOOR TYPE	INTERIOR USE	EXTERIOR USE
Particle, Agrifiber	Life of original installation	Not warranted
SCL	Life of original installation	Three years from date of original installation
Stave	Life of original installation	Not warranted
Plastic	Life of original installation	Not warranted
Mineral Core	Life of original installation	Not warranted
Acoustical	Life of original installation	Not warranted
Acoustical Airport – Flush	Life of original installation	Five years from date of original installation
Lead Shielded	Life of original installation	Not warranted
Stile & Rail - Non-Rated	Life of original installation	Three years from date of original installation
Stile & Rail - 20 Minute	Life of original installation	Not warranted
Stile & Rail - 45, 60, 90 Minute	Life of original installation	Not warranted
Full Lite Construction	Life of original installation	Not warranted
Bullet Resistant	Life of original installation	Three years from date of original installation
Foam Core	Life of original installation	Not warranted

All doors manufactured by EGGERS INDUSTRIES of Neenah, Wisconsin and EGGERS INDUSTRIES of Two Rivers, Wisconsin (hereinafter referred to as Eggers) are warranted to be free from defects in material and workmanship which would render them unserviceable or unfit for the ordinary, recommended use for the time periods as set forth below. This warranty automatically applies to purchasers of doors from Eggers and extends on resale of the product. Claims should be processed through the intermediate suppliers. It is the responsibility of Eggers' intermediate suppliers to make the initial jobsite visit on a complaint to verify the issue and collect necessary documentation (i.e., sizes, pictures, etc.). On occasion, it may be necessary for Eggers to send a representative to the jobsite. If an Eggers representative is required to go to the jobsite and the issue is determined not be a manufacturer's issue, then the intermediate supplier will be charged for all applicable expenses related to the jobsite visit.

LIMITATIONS OF LIABILITY

Eggers shall not be liable for incidental, indirect or consequential damages arising from the manufacture, use or sale of these goods. (This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.) Eggers' liability is expressly limited to the repair or replacement of non-conforming goods or the refund of the purchase price, at the option of Eggers

If any door becomes defective after installation, Eggers agrees to bear the **reasonable expense** of repairs, rework, machining, finishing, removing and rehanging such repairs. Rework, removal and rehanging shall be performed only after approval is obtained from Eggers and the cost of such work has been determined. **In the event the defect for which the doors are being rejected was apparent prior to hanging, Eggers is not obligated to pay removal and rehanging charges.**

NOTICE REQUIREMENT

Since Eggers cannot control the handling or exposure of doors after shipment, a specific duty of inspection is imposed upon the purchaser as a condition precedent to any claim under this warranty. Such inspection must be made upon receipt of the goods and written notice of any claim must be received by Eggers within 30 days of receipt of the goods, or discovery of the defect. NO CLAIM UNDER THIS WARRANTY SHALL BE ACTIONABLE UNLESS THE FOREGOING NOTICE IS GIVEN AS SET FORTH HEREIN.

It shall not be the policy of Eggers Industries to inspect finished installations for the sole purpose of certifying that the installation is within warranty.

MATTERS EXCLUDED FROM THIS WARRANTY

TRUE STILE AND RAIL AND 5-PLY FLUSH DOORS
Warranty Information

Date: February, 2017

Eggers Industries

Since methods and conditions or installation and use are beyond the control of Eggers, this warranty is not effective unless the doors are stored, handled, finished, used and installed in strict accordance with the provisions set in the following guidelines of this warranty.

Eggers Door Warranty
Tolerances, Exclusions and Instructions

TOLERANCES

1. Stile, rail and core show-through (telegraphing) shall not be considered a defect unless the face of the door varies from a true plane in excess of 1/100 (.010) in any 3 span.
2. Warp shall not be considered a defect unless it exceeds 1/4 in the plane of the door itself. For doors 1-3/4″ or thicker, warp shall not exceed 1/4 in doors 3'6″ x 7'0″ or smaller, nor shall it exceed 1/4 in any 3'6″ x 7'0″ section of larger doors. For doors less than 1-3/4 thick, warp shall not exceed 1/4 in doors 3'0″ x 7'0″ or smaller. Warp is any distortion in the door itself and does not refer to the relationship of the door to the frame, jamb, or adjacent doors. Warp is measured by placing a straight edge on the concave face and determining the maximum distance from straight edge to door face.
3. Tolerances for all applied moulding locations are ± 1/8″ reference to all margins.

HANDLING, FINISHING AND INSTALLATION INSTRUCTIONS

1. Store doors flat on a level surface in a dry, well-ventilated building. Protect doors with an opaque covering that does not permit light to penetrate to keep the doors clean and avoid discoloration. Covering must allow air circulation. If doors are to be stored more than a week, all edges should be sealed. Deliver doors or frames to building site after HVAC system is operating and balanced and plaster or cement is dry.
2. Doors should not be subjected to extreme heat and/or humidity. Relative humidity should not be less than 25% or greater than 55% and temperatures should not be less than 50 degrees F. or greater than 90 degrees F.
3. Handle with clean gloves and do not drag doors across one another or across other surfaces.
4. The utility or structural strength of the doors must not be impaired in the fitting of the door, the application of hardware or cutting and altering for lites, louvers, panels or any other special details.
5. Use three hinges for doors 7'6″ in height or less, and one additional hinge for each incremental 30 of height over 7′6″.
6. Allow a fitting clearance of 1/16″ to 1/8″ at each side and at the top.
7. Seal all edges immediately after field fitting.
8. Prior to field applied finishes, doors must be sanded. The finisher should thoroughly sand the doors with 150-grit sandpaper going with the grain direction of the veneer. A hand block should be used to remove all scuffs, handling marks, scratches, raised grain, burnishes and effects of exposure to moisture that may occur during handling, unloading and storage.
9. Some woods, particularly oak, contain chemicals which react with iron. Do not use steel wool on oak doors.
10. Doors prefinished at the factory should be checked against approved finish sample prior to hanging. (Installation of prefinished doors shall constitute acceptance.)
11. Stile and rail doors not prefinished at the factory must be stained and sealed, or painted, within 10 working days after the doors arrive from Eggers. Stile and rail doors supplied to Hawaii or Alaska must be factory finished.
12. Pilot holes must be drilled for all screws that act as hardware attachments. Self-tapping or combination wood/metal screws are not warranted for use on wood doors.

EXCLUSIONS

This warranty does not cover:

1. The appearance of field finished doors.
2. Natural variations in the color, texture, character, or cut of the wood.
3. Doors with cutouts closer than 5″ to the door edge or doors with adjacent cutouts such as hardware, lites, louvers, etc. closer than stated minimums.
4. Doors which have cutout areas exceeding 54″ door height. However, waivers in writing from the factory are available on a per job basis. This exclusion is waived on special full lite construction warranted for life of original installation for interior use.
5. Doors that are improperly hung and door frames that are not plumb, square and level and do not allow the door to swing freely.
6. Warpage of doors less than 1-3/4 thick which are wider than 3'0″ or higher than 7'0″.
7. Normal wear and tear including wear-through of finish.
8. Doors supplied outside the United States for telegraphing or warpage unless approved by the factory.
9. Cracking of plastic laminated surfaced doors with openings cut by other than Eggers or its authorized representative. Radius of 1/4 at corners of openings must be maintained.
10. Incompatibility of hardware with a particular door construction. This includes mortises such as concealed closers, magnetic holders, etc. deeper than 2″ or wider than 1-1/4″ and concealed vertical rod devices, unless special reinforced construction is ordered.
11. Constructions involving different species, face materials, or veneer grain configurations on opposite sides of the door. This includes doors with different plastic colors or patterns on each face. This may create an unbalanced condition not warranted against warpage, cracking, delaminations, etc. Exclusion may be waived for SCL core flush doors or stile and rail doors with proper approval in the form of a letter from manufacturing.
12. Constructions, other than flush SCL, involving appliques (excluding applied moulding) that are applied to only one face of the door.
13. Doors that are not stored as outlined in the Handling, Finishing and Installation Instructions.
14. Doors stored longer than six months.

TRUE STILE AND RAIL AND 5-PLY FLUSH DOORS
Warranty Information

Date: February, 2017

Eggers Industries

15. OEM's warranty applies to all accessories supplied by Eggers.
16. Doors that have any form of face grooving which penetrate the crossbanding in excess of limitations set by the factory.
17. Doors altered by others for size by re-railing or re-stiling or refacing or defects resulting from other machining or alterations performed by others.
18. Stylus moulding on one side of the door. Applied moulding on one side of door if moulding is over 1-3/4″ wide, 3/4″ high or over 24 lineal feet. Miter joints and flatness on mouldings over 3″ in width.
19. Doors up to 7'6″ in height with less than three hinges and doors with less than one additional hinge for each incremental 30 of height over 7'6″. This exclusion is waived on non-rated particle, agrifiber, or stave core up to 8'0″, stile & rail doors up to 8'0″ and SCL core doors up to 9′0″ when installed with top and bottom pivot hardware.
20. Doors machined for corner mortised flush bolts unless installed with metal edges or flush bolt cap.
21. Doors machined for specified concealed vertical rods unless installed with metal CVR cap. Consult factory for applicable CVR devices.
22. Lites not glazed by Eggers, including glass breakage and damage to the door.

NOTE: Action on any claim for warp or telegraphing defects may be deferred at the option of the manufacturer for a period not to exceed 12 months to permit conditioning of the doors to temperature and humidity conditions.

EXTERIOR FLUSH AND STILE AND RAIL DOOR GUIDELINES
An exterior door is defined as one that cannot be controlled on both sides for temperature and humidity.

When exterior doors are machined for hardware or a lite opening, opportunity exists for moisture penetration into the door which will eventually cause deterioration. Therefore, the existence of the following conditions will void the warranty for exterior installations:
1. Doors installed outside the continental 48 states.
2. Failure to double seal all machined surfaces including openings and hardware cuts with exterior sealer.
3. Failure to properly protect lite cutouts in exterior doors to prevent moisture from seeping into the core. Lip mouldings and exterior caulk are required. The top of an exterior door must be properly protected by flashing (except STC doors for airport housing).
4. Failure to provide adequate overhead protection. Adequate overhead protection includes a maximum of 4 ft. between the top of the door and the bottom of the overhead, a minimum overhead protection of 4′ out from the face of the door and a minimum protection extension of 4′ out from each side of the door.
5. Failure to provide the entire door including top and bottom edges with two coats of a good quality paint, varnish or lacquer.
6. This warranty does not cover telegraphing and checking of exterior doors.

Additional Exterior Guidelines
1. Eggers will not quote the Stylus door for an exterior application.
2. Eggers will not quote exterior doors with concealed hardware (vertical rods, flush bolts and closers/holders/stops).
3. Eggers will not quote exterior doors with machining for pivots and magnetic switches in the top rail of the door.
4. Eggers will not quote exterior doors with louvers.
5. Eggers will quote 20-minute flush doors for exterior applications.
6. Eggers will not quote 45, 60 and 90-minute flush doors for exterior application.
7. Eggers will not quote doors for applications with applied moulding and reveals.
8. Eggers will not quote 20, 45, 60 and 90-minute stile and rail doors for exterior applications.

Exterior finishes should be used on the exterior faces and all edges of exterior doors. A complete and continuous finish must be maintained on all surfaces of the door and must be refinished annually.

Airport Housing Projects
STC doors have been approved for residences around airports in Southern California and the Southwest with a five-year warranty. Contact the factory regarding exterior STC door requirements for airport housing projects in other locations. Top flashing not required on STC doors.

It should be noted that both the WDMA and AWI Standards indicate that wood doors are not recommended for exterior use.

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Fax: 502.845.0615

STANDARD TERMS OF SALE

Date: January, 2017

Eggers Industries

1. **Purpose and Acceptance of Order** – These terms are presented to avoid a misunderstanding between the customer and the vendor. Our acceptance of your order is expressly conditioned upon your confirming the accuracy of your order as acknowledged and your acceptance of our terms and conditions set forth. Our terms and conditions may be different from or additional to the terms of your purchase order.
2. **Credit Terms** - If vendor extends credit to customer, payment terms shall be Net 30 days from date of invoice. Vendor may change or withdraw credit amounts or payment terms at any time for any reason. If customer fails to make any payment when due, vendor may suspend or cancel performance on any orders in which vendor has extended credit to customer. Vendor's' suspension of performance may result in rescheduling delays. If, in vendor's judgment, customer's financial condition does not justify the payment terms specified herein, then Eggers may require customer to immediately pay for all materials that have been shipped/delivered and pay in advance for all materials yet to be shipped/delivered. Suspension in accordance with this clause shall not affect vendor's right to pursue any other available remedies.
3. **Price** – These prices are based on the order as written, not necessarily on your inquiry or original quotation. Prices as shown on the acknowledgment are final and will be invoiced on the date of shipment.
4. **Cancellation of Order** – Upon cancellation of an order in process, billing will be made to the customer for all work and materials expended up to the cancellation date. The order will be completed and/or materials shipped only at specific request of the customer. It is the manufacturer's option to use any materials from a cancelled order elsewhere, anytime following the cancellation of the order, and cancellation charges are based on this option.
5. **Change/Revision Charge** – Any change to an order that has already been released out of sales will be assessed a charge of $250/order plus any applicable material and labor costs associated with the change.
6. **Damaged Material** – This material will be carefully inspected and in good condition when accepted by the carrier. If damage occurs, it is your responsibility to immediately notify the transportation company to make an inspection prior to discarding packaging material. If packaging material is damaged, you must make the request upon receipt of the materials. The customer must not sign an inspection receipt that puts responsibility of damage on the shipper because of insufficient protection of materials without the consent of the shipper. If you feel the damage occurred prior to shipping, or is our responsibility, contact our company representative. The packaging material must be saved for our inspection. We will accept full responsibility for damaged material only if all of the above procedures are followed.
7. **Freight Allowance** – All quotations made with freight allowance are FOB Factory and based on method of shipment quoted. Should the customer request an alternate method of shipment, additional freight charges will be assessed.
8. **Required Customer Information** – If the customer fails to supply adequate hardware machining information or fails to agree on a finish sample, the company reserves the right to credit the charges for these items and ship the door without pre-machining or pre-finishing the product.
9. **Appearance** – All doors must be visually inspected for face grade, color, match, and other defects by the customer prior to further work or installation. If manufacturing defects are detected after staining or sealing, no additional coat of finish may be applied without approval of the manufacturer. We are responsible for repairing or replacing material as originally furnished, but not refinishing or reinstallation if the defect could be detected prior to further work or installation.
10. **Sanding Prior to Finishing** – Prior to field applied finishes, doors must be sanded. The finisher should thoroughly sand the doors with 150-grit sandpaper going with the grain direction of the veneer. A hand block should be used to remove all scuffs, handling marks, scratches, raised grain, burnishes and effects of exposure to moisture that may occur during handling, unloading and storage.
11. **End Matching** – An end match variation of grain pattern is considered acceptable for face of panels of 3/8" and back of panels of 7/8".
12. **Storage and Installation Conditions** – It is the responsibility of the customer to store and install the product in an enclosed area where the relative humidity is maintained between 25% and 55%. Certain veneers such as Cherry, Mahogany, Teak, Walnut, etc. may be damaged if exposed to either sunlight or forms of artificial light. Cover doors to keep clean and avoid discoloration with an opaque covering which does not permit light to penetrate during storage or staging. Covering must allow for air circulation. If doors are to be stored for more than one week, all edges should be sealed.
13. **Industry Standards** – For items not covered by these Standard Terms of Sale, these industry standards apply:
    a. Hardwood Plywood Veneer Association (HPVA), or
    b. Window & Door Manufacturers Association (WDMA), or
    c. Architectural Wood Institute (AWI), or
    d. Woodwork Institute (WI)
14. **Warranty** – Our sole and exclusive warranty to you under this contract is that the goods sold pursuant to this Contract will be as described and be free of any defects in parts and workmanship, if used under normal circumstances and in accordance with any instructions given to you. Except as expressly provided to the contrary in

paragraphs 10 and 11. **WE EXPRESSLY DISCLAIM ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSES OF THE BUYER AS PROVIDED BY THE UNIFORM COMMERCIAL CODE.** It is also agreed that our remedies to you for your breach under this Contract shall consist of the following, any or all of which may be exercised by us at our sole option and no others:

a. Repair the product without charges to you,
b. Replace the product without charge in the same stage of installation and/or finishing as originally supplied to you, or
c. Refund the purchase price.

If requested by the customer, only an Eggers Warranty will be issued for the project upon receipt of full payment as acknowledged by Eggers.

15. **Consequential Damages** – In the event that we breach this Contract, we shall not be liable to you for any consequential damages arising out of such breach. In the event that any other term of this Contract is found unconscionable or unenforceable for any reason, or the remedies identified in paragraph 12 above fail of their essential purpose, the provision of waiver by agreement of consequential damages shall continue in full force and effect.
16. **Shipping Delays** – We are excused from performing any of our obligations under this Contract which are prevented or delayed by any occurrence not within our control, including, but not limited to, destruction or damage to the goods of our manufacturing plant, strikes or other labor matters, floods, fire, accidents, riots, explosion, or any regulations, rules, ordinances or orders of any governmental authority, federal, state, or local.
17. **Choice of Law** – The terms, rights, and obligations under this Contract shall be construed under the laws of the State of Wisconsin.

Cancellation Charge	
Orders not started in production	No charge
Order that is in production	$200 per order plus the cost of rework, restock, etc. as well as labor expended.
All Fast Track Orders	$200 per order plus the cost of rework, restock, etc. as well as labor expended.

Change/Revision Charge	
Any change to an order that has been released out of sales	$250/order plus any applicable material and labor costs associated with the change.

STANDARD TERMS OF SALE

Date: January, 2017

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STYLUS DOORS

Eggers' Stylus doors combine the superior functionality of quality 5-ply flush doors with the elegance of stile & rail doors at an economical price.

Eggers Industries



Turning nature's beauty into works of art

STYLISHLY FUNCTIONAL FLUSH DOORS

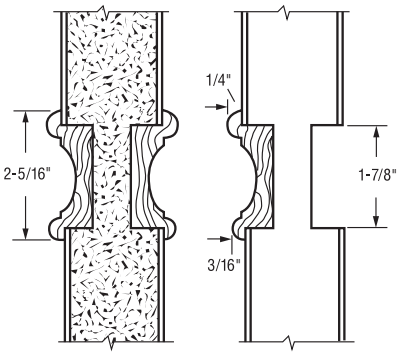
Eggers' Stylus doors are a cost-effective alternative to true stile & rail doors. Our Stylus doors are available in fire-ratings through 90-minute. Measuring a slim 1-3/4", Eggers' 90-minute Stylus doors provide the highest fire-rating possible for wood doors.

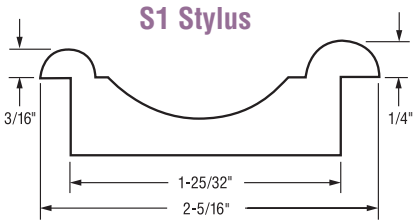
You will also enjoy added flexibility with panel layouts and custom moulding opportunities. Best of all, you have a wide range of veneers from which to choose with our Stylus doors.

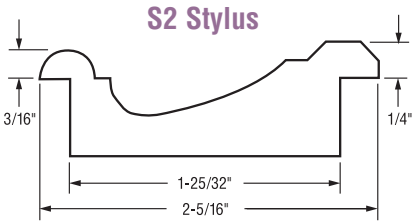
- Available in rectangular panel configuration and design.
- Choose from one of two standard mouldings, or match your custom moulding.
- Available in non-rated and 20-, 45-, 60-and 90-minute doors.
- Composed of particleboard, structural composite lumber or mineral core.
- Acoustic ratings through 33 available.
- Available in a variety of veneers.
- Available with or without a simulated stile & rail sketchface.
- Available prefinished and/or premachined.
- Available with or without lites.



STYLUS STANDARD MOULDING DETAILS







Custom profiles available upon request.



Stylus Standard Door



Stylus Sketchface Door

	Non-Rated	20-Minute	Non-Rated	20-Minutes	45-Minute	60-& 90-Minute
Core	SCL	SCL	PB or Stave	PB or Stave	Mineral	Mineral
Crossband	Min. 1/16" high-density hardboard					
Thickness	Min. 1-3/4" thickness, 2-1/4" optional					
Max. Door Size	Single: 4' x 10' Pair: 8' x 10'				Single: 4' x 10' Pair: 8' x 9'	Single: 4' x 9' Pair: 8' x 8'
Max. Size Rabbeted Door/Transom	4' x 14' Transom 4' x 4' or 8' x 3' for pairs		4' x 14' Transom 4' x 4' or 8' x 3' for pairs		3'6" x 10' (1)	
Max. Size Straight Cut Door/Transom	4' x 14' Transom bar not required		4' x 14' Transom 4' x 4' or 8' x 3' for pairs		4' x 11' Single Max transom size 4' x 4' (2)	
Face Veneer	Any available wood species					
Stiles	Matching or compatible to face veneer					
Adhesives	Water resistant (Type II)					
Veneer Matching	Pairs, sets, end matching in doors and transoms, blueprint, sequence and special selection options for color and grain (door faces only)					
Amount of Moulding	No limit	Max. 30.7 linear feet of Stylus moulding on each side of door to maintain warranty and/or fire rating				
Moulding Profiles	Max. size 2-5/16" x 11/16"; max. groove 1-7/8" x 9/16"; two standard moulding designs or custom profiles upon request					
Panel Layout	Layouts per customer specifications; no radius panel designs; min. inside dimension of a moulding frame is 3" Tolerance for location of moulding frames is +/- 1/16" For non-rated and 20-minute doors: moulding frames are glued; for 45-, 60- & 90-minute doors: moulding frames are glued and nailed					
STC Rating	32		33 (particleboard only)		31	
Min. Dimension Between Frames	2"				3-1/4"	
Min. Dimension from Edge of Door to Edge of Moulding	1-1/2"	3-1/4"	1-1/2"	3-1/4"		
Min. Dimension from Edge of Hardware or Lite Cutout to Edge of Moulding	1-1/2"				3-1/4"	
Min. Stile Dimensions with CVR Hardware	Min. 7" stile with concealed vertical rod exit device					
Machining	Prefitting, mortise for appropriate hardware No preparation for surface-mounted hardware Blocking for surface-applied hardware not required				Please refer to Eggers' flush door details for fire-rated doors	
Finishing	Full sealer, catalyzed conversion varnish, catalyzed polyurethane, Gardall, Gardall Plus and Gardall Supreme					
Special Details	Cut lite opening; install metal and wood louvers, wood beads and glazing					
Warranty	Life of original installation of interior applications - not suitable for exterior installation					
Security Rating	Class 40 per ASTM 476					
Standards	AWS Section 9 Edition 2 and WDMA I.S. 1A-11					
Frame Details	Shape must be rectangular, one side application is not warranted against warping Minimum inside dimension of a moulding frame: 3"					
Notes	(1) Meeting edges for rabbeted door and transom are white medium density mineral board. May be wood veneer wrapped. Stanley #1697 spring bolt for transom installation (2) Opening must be separated by non-removable minimum 2" transom bar. Stanley #1697 spring bolts for transom installation.					

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Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supersede those in print.

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SOUNDWOOD ACOUSTICAL PRODUCTS

Eggers Industries melds technology with style to produce beautiful, high-performing acoustical doors and frames.

Eggers Industries

Soundwood™
ACOUSTICAL WOOD PRODUCTS BY EGGERS



Turning nature's beauty into works of art



SOUNDWOOD ACOUSTICAL PRODUCTS

Eggers' sound control openings have the highest STC ratings in the industry, made of solid wood and wood composite based materials. Our capabilities allow combinations of acoustical performance and other special functionalities to meet design requirements and building codes. Eggers' STC doors and frames are found in airports, healthcare, and hospitality facilities, government and municipal buildings as well as educational institutions. Typical applications of our acoustical doors and frames include performance venues, conference rooms, lecture halls, auditoriums, and classrooms.

Our acoustical products include doors and frames that have been evaluated for sound transmission at a qualified testing laboratory using ASTM standard test method E-90-XX (where XX refers to the year). To ensure applicable data, make certain the products you are specifying reference an acceptable revision date of the test method. Products tested with old standards may not provide the same level of performance as those tested with newer versions.

Acoustical Performance Testing Methods

There are two ways to test and report the acoustical performance of doors. The first is as a fixed panel. This is done by fully sealing the door to frame perimeter and eliminating any sound leaks around the door perimeter. This type of test is helpful in determining the performance of the basic construction, but does not represent an operational application.

The second method is to test an operable assembly. In this case, the door is installed in a frame, including hinging and latching hardware as well as a gasketing system. In addition to including all of the required components of an operable assembly, the test method requires the door be operated normally through five open/close cycles, without subsequent adjustments, prior to running the acoustic test. This test method provides more useful performance values than an inoperable test. When comparing STC ratings, be sure that the ratings represent operable doors. While Eggers conducts research and development tests of many of our constructions as sealed panels, the advertised STC numbers are always for operable assemblies.

Eggers has generally limited the variables tested to the door construction, application and the gasketing system. With a few notable exceptions shown on our product matrix, we have limited our testing to readily available hardware and gasketing materials, ADA approved thresholds (where applicable), and steel frames. A special note regarding frames is appropriate here. Where steel frames are used in testing, they are normally fully grouted with cement. This is a standard method of installation at testing laboratories and is done to insure the resulting STC rating represents only the doors and gasketing system. This is not meant to restrict the openings in which acoustic doors are used. In many circumstances, existing frames or installation conditions may prevent the use of a solid filled frame. Where other types of fill are used, an acoustic consultant should be employed to determine if the alternate fill will maintain the desired acoustic performance for the opening. As long as the framing provides an acoustic performance equal or greater than the door rating, the advertised STC will be maintained.

The relevance chart below is given as a general guideline of the effect various STC ratings have on speech being heard through the door.

Advantages of Eggers Acoustic Doors

Eggers has conducted acoustic tests on all of our standard door constructions. In many cases where the acoustics properties need to be known, but are not the primary objective, gasketing a standard door construction may be all that is required. When the project design requires acoustic performance above and beyond the standard doors, Eggers has designed and tested a full line of specialty constructions. Benefits offered by this broad range of products include:

STC Rating	Speech heard through the door
30	Loud speech can be understood fairly well
35	Loud speech audible but not understandable
40	Loud speech audible as a murmur
45	Loud speech barely audible
50	Loud speech not audible

- STC ratings ranging from 38 through 52
- Applications that include single swing, standard swing pairs, doors and transoms and dutch doors
- Acoustic rating for both flush doors and stile and rail doors.
- Applications without lites, with small lites (100 sq. in.), medium sized lites (400 sq. in.), large lites (1296 sq. in.) and even full lites
- Applications with 20-minute, 45-minute, 60-minute, and 90-minute fire ratings
- Applications that provide x-ray protection as well as acoustical performance
- Applications tested in wood frames
- Applications for airport housing noise abatement programs

Specialized Constructions

A variety of components are used to provide the performance range of our acoustic products, alone or in combination with applicable fire, bullet-resistance, and X-ray protection. These components make 4' x 8' the practical maximum door dimension. Contact the technical department for applications requiring larger doors.

Guaranteed STC Ratings

The STC rating of acoustic doors depends on two things: the components used (doors and gasketing) and their installation. While Eggers does not perform installation, we are still able to guarantee our doors meet the advertised STC ratings when properly installed using the door construction, hardware, seals, and where applicable, the lites described in our STC Product Offering Matrix. This guarantee is given with confidence because of the stringent tests we conduct on all acoustic assemblies. The Eggers name alone is your assurance of the highest standards possible.

While we encourage use of these tested assemblies, we also recognize the need for substitutions such as a different type of glazing or alternate gasketing. In such cases where there is no test report for the final assembly, Eggers will provide the same door construction used for the tested assembly, but without a “guaranteed” STC rating. This allows for increased design flexibility starting with a proven door construction. We recommend the use of an acoustic consultant to review the final assembly whenever substitutions are made.

As stated above, the final performance depends heavily on the installation. The best acoustic doors will fail to meet expectations if they are improperly installed. Acoustic applications are special, they generally involve close tolerances that require square and plumb openings. The acoustic assemblies have been designed such that the seals are uniform between the door and the fixed elements of the opening. Do not expect an acoustic door to compensate for poor frame installation. It is better to fix the opening before installing the door. Likewise, insuring properly installed and adjusted gasketing will avoid remedial work. Extra time spent ensuring a good installation will pay off in superior quality sound control.

When gasketing an acoustic opening, a good analogy is to think about sealing out sound like you would seal out light in a dark room. Wherever light can leak through the opening, so will sound. A simple field test after the assembly is fully installed is to close the door, turn out the lights on one side of the door and, after allowing your eyes to adjust to the darkness, inspect the seals for light leaking through the assembly. To further aid in this test, have someone shine a bright light around the perimeter on the opposite side as you inspect for leaks. Preventing or solving installation issues will address over 95% of unsatisfactory acoustic assemblies.

STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Single Swing	52	1-3/4"	NR	S or T	NA	---	---	12.0	C5765.03	SG14
	51	1-3/4"	NR	S, T, or U	NA	---	---	12.0	C5765.03	SG14
	51	2 1/4"	20	A	NA	---	---	15.8	TL94-37	SG6
	50	1-3/4"	NR	S, T, or U	NA	---	---	12.0	C5765.03	SG14
	50	1-3/4"	NR	S or T	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C5765.04	SG14
	49	1-3/4"	NR	U	NA	---	---	12.0	C5765.03	SG14
	49	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	49	1-3/4"	NR	S or T	NA	---	---	10.5	"E1460.03-113-11-R0 C7672.03A"	SG16A
	48	1-3/4"	NR	S, T, or U	NA	---	---	10.5	"E1460.03-113-11-R0 C7672.03B"	SG16A
	48	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	48	1-3/4"	20	A	NA	---	---	13.7	TL97-320	SG5
	48	2-1/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	15.8	TL95-350	SG6
	47	1-3/4"	NR	S, T, or U	NA	---	---	10.5	"E1460.03-113-11-R0 C7672.03A"	SG16
	47	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	47	2 1/4"	20	A	VP:110-D2	Pyroswiss / 1/2" Laminated	400 (max)	15.8	TL95-351	SG6
	47	1-3/4"	60-45	A	NA	NA	NA	15.7	TL03-023	SG8
	47	1-3/4"	60-45	S, T, or U	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	15.4	"E1460.05-113-11-R0 C7672.02K-113-17-R0"	SG8
	46	1-3/4"	NR	S, T, or U	NA	---	---	10.5	"1460.03-113-11-R0 C7672.03A"	SG16
	46	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	45	1-3/4"	20	A	NA	---	---	7.7	TL94-220	SG4
	44	1-3/4"	20	I	NA	---	---	7.7	TL10-134	SG4 (4)
	43	1-3/4"	NR	P	NA	---	---	7.9	100534284CRT-001k	SG4
	43	1-3/4"	20	A	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	100 (max)	7.7	TL03-020	SG4
	43	1-3/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	7.7	TL03-019	SG4
	43	1-3/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	13.6	TL03-022	SG5
	42	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	42	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	42	1-3/4"	NR	A	Bead: 107	1/2" Laminated	400 (max)	7.7	TL03-021	SG4
	42	1-3/4"	60-45	S	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	13.6	"E1460.06-113-11-R0 C7672.02M-113-17-R0"	SG13
	42	1-3/4"	60-45	T	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	13.6	"E1460.06-113-11-R0 C7672.02M-113-17-R0"	SG13

Non-rated openings STC45 or lower available with Eggers acoustic wood frame
FSC® certification is available where core type is PC, SCL, SLC, SG3, or SG11
All acoustic doors are available as "No Added UF" and "Phase 2 Carb Compliant"

STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Single Swing	41	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	41	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	41	1-3/4"	NR	B	Bead: 107	1/2" Laminated	400 (max)	6.5	TL03-012	SG3
	41	1-3/4"	NR	B	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	6.5	TL03-013	SG3
	41	1-3/4"	20	A	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	400 (max)	7.7	TL95-348	SG4
	41	1-3/4"	60-45	S or T	NA	---	---	13.6	"E1460.06-113-11-R0 C7672.02O-113-17-R0"	SG13
	41	1-3/4"	60-45	U	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	13.6	"E1460.06-113-11-R0 C7672.02N-113-17-R0"	SG13
	40	1-3/4"	45	S or T	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	7.6	"E1460.04-113-11-R0 C7672.02G-113-17-R0"	SG7
	40	1-3/4"	60-45	U	NA	---	---	13.6	"E1460.06-113-11-R0 C7672.02P-113-17-R0"	SG13
	40	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	40	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	40	1-3/4"	NR	M	Bead: 110	1-1/8" Non-Rated IGU	1296 (max)	6.7	TL10-141	SG3
	40	1-3/4"	20	B	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	400 (max)	7.7	TL95-347	SG4
	40	1-3/4"	90-60-45	C	NA	---	---	7.6	TL06-051	SG9
	39	1-3/4"	45	S	NA	---	---	7.6	"E1460.04-113-11-R0 C7672.02I-113-17-R0"	SG7
	39	1-3/4"	45	T	NA	---	---	7.6	"E1460.04-113-11-R0 C7672.02I-113-17-R0"	SG7
	39	1-3/4"	45	U	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	7.6	"E1460.04-113-11-R0 C7672.02H-113-17-R0"	SG7
	39	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	39	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	39	1-3/4"	90-60-45	I	NA	---	---	7.7	TL06-053	SG9
	38	1-3/4"	45	U	NA	---	---	7.6	"E1460.04-113-11-R0 C7672.02J-113-17-R0"	SG7
	38	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	38	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	38	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (max)	6.7	C7672.01B	SG3
	37	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (max)	6.7	C7672.01B	SG3
	37	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	37	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	37	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	Full Lite (min 47% of area)	5.9	TL05-052	SCL
	37	1-3/4"	60-45	I	VP: 115-L1	Firelite Plus / Leaded	100 (max)	10.3	TL05-126	SG13
	37	1-3/4"	20	I	Bead: 100	Firelite Plus	400 (max)	6.0	TL05-051	SG3
	36	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (max)	6.7	C7672.01B	SG3
	36	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	36	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	36	1-3/4"	20	P	NA	---	---	6.3	100534284CRT-001l	SG11

Non-rated openings STC45 or lower available with Eggers acoustic wood frame
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STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Single Swing	36	1-3/4"	60-45	I	NA	---	---	10.2	TL05-125	SG13
	36	1-3/4"	20	N	NA	---	---	7.1	100534284CRT-001f	SG3
	35	1-3/4"	20	M	NA	---	---	10.0	TL10-142	BR3
	35	1-3/4"	90-60-45	U	NA	---	---	7.2	A5305.02-113-11	GC
	35	1-3/4"	NR	I	Bead: 107	1/2" Laminated	1296 (min)	6.2	TL10-138	PC
	35	1-3/4"	NR	O	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	7.3	TL10-144	SG11
	35	1-3/4"	20	I	NA	---	---	7.3	TL10-136	SG11
	35	1-3/4"	NR	I	NA	---	---	7.3	TL10-136	SG11
	35	1-3/4"	20	U	NA	---	---	7.3	TL10-136	SG11
	35	1-3/4"	NR	U	NA	---	---	7.3	TL10-136	SG11
	34	1-3/4"	NA	B	Bead: 107	1/2" Laminated	1296 (min)	6.2	TL10-138	PC
	34	1-3/4"	NA	I	LoPro IS	1/2" Laminated	400 (min)	6.1	TL10-135	PC
	33	1-3/4"	NA	I	Bead: 107	1/2" Laminated	400 (min)	6.1	TL10-133	PC
	33	1-3/4"	20	Q	NA	---	---	6.9	100534284CRT-001n	SCL
	32	1-3/4"	20	Q	NA	---	---	5.5	100534284CRT-001o 100534284CRT-001p	PC
	32	1-3/4"	20	I	NA	---	---	6.9	TL06-059	SCL
	32	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	6.9	TL06-059 & TL97-313	SCL
	32	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	6.9	TL06-059 & TL03-013	SCL
	32	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	6.9	TL06-059 & TL03-012	SCL
	32	1-3/4"	20	N	NA	---	---	6.9	100534284CRT-001b	SCL
	31	1-3/4"	20	I	NA	---	---	5.8	TL06-058, TL10-129	PC
	31	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	5.8	TL06-058 & TL97-313	PC
	31	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	5.8	TL06-058 & TL03-013	PC
	31	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	5.8	TL06-058 & TL03-012	PC
	31	1-3/4"	NR	N	NA	---	---	5.5	100534284CRT-001a	PC
	30	1-3/4"	20	I	NA	---	---	4.6	TL06-056	SLC
	30	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	4.6	TL06-056 & TL97-313	SLC
	30	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	4.6	TL06-056 & TL03-013	SLC
	30	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	4.6	TL06-056 & TL03-012	SLC
	29	1-3/4"	90-60-45	I	NA	---	---	4.4	TL06-057	MC
	27	1-3/4"	20	I	NA	---	---	4.9	TL07-035	AGR
	27	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	4.9	TL07-035 & TL97-313	AGR
	27	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	4.9	TL07-035 & TL03-013	AGR
	27	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	4.9	TL07-035 & TL03-012	AGR
Stylus	33	1-3/4"	20	I	NA	---	---	5.5	TL07-057	PC
	32	1-3/4"	20	I	NA	---	---	6.2	TL07-058	SCL
	31	1-3/4"	90-60-45	I	NA	---	---	4.3	TL07-059	MC

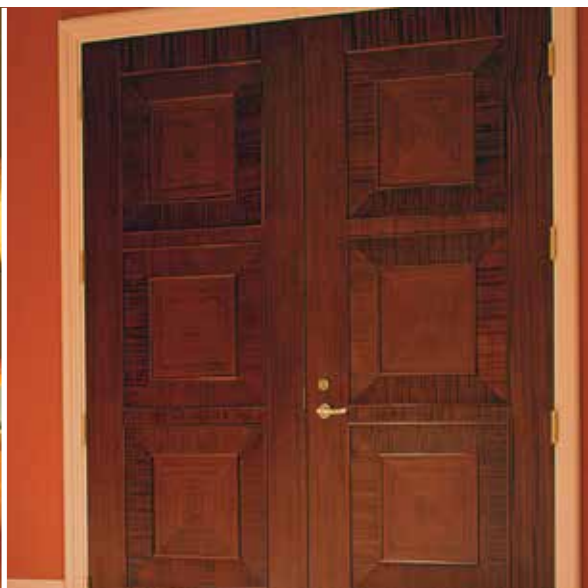
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STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Active-Inactive Pairs[1]	49	1-3/4"	20	A	NA	---	---	13.7	TL98-238	SG5
	44	1-3/4"	20	A	NA	---	---	7.7	TL98-236	SG4
	41	1-3/4"	20	B	NA	---	---	7.7	TL98-233	SG4
Flush Active-Active Pairs [2]	41	1-3/4"	20	K	NA	---	---	6.2	TL08-007	SG3
	40	1-3/4"	NR	K	Bead: 100	1/2" Laminated	400 (max)	6.3	TL08-009	SG3
	34	1-3/4"	45	K	VP: Lo-Pro IS	Superlite II-XL-45	Full Lite (min 47% of area)	6.5	TL11-111	MC
	31	1-3/4"	90-60-45	K	NA	---	---	7.2	TL11-110	GC
	31	1-3/4"	20	K	NA	---	---	6.4	TL11-112 TL11-113	SCL
Dutch Door	44	1-3/4"	20	A	NA	---	---	7.7	TL98-237	SG4
Door & Transom	44	1-3/4"	20	A	NA	---	---	7.7	TL98-237	SG4
Communicating	53	1-3/4"	20	B	NA	---	---	7.7	TL93-219	SG4
Stile & Rail Single Swing	40	1-3/4" (1-11/16")	NR	B	NA	---	---	8.3	TL99-120	SG12
	40	1-3/4" (1-11/16")	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	8.3	TL99-122	SG12
	39	1-3/4" (1-11/16")	NR	I	Bead: 110	1-1/8" Non-Rated IGU	1296 (max)	7.0	TL05-123	SG12
	38	1-3/4" (1-11/16")	NR	S or T	NA	---	---	7.6	"E1460.07-113-11-R0 C7672.02Q-113-17-R0"	SG12
	38	2 ¼" (1-7/8")	90-60-45	A	NA	---	---	12.5	TL97-321	MC
	37	1-3/4" (1-11/16")	NR	U	NA	---	---	7.6	"E1460.07-113-11-R0 C7672.02R-113-17-R0"	SG12
	37	2 ¼" (1-7/8")	90-60-45	B	NA	---	---	12.5	TL97-312	MC
	36	1-3/4" (1-3/4")	60-45	B	NA	---	---	9.7	TL97-317	MC
	33	1-3/4" (1-1/2")	20	B	NA	---	---	5.9	TL94-41	SCL
	33	2 ¼" (1-1/2")	20	B	NA	---	---	6.9	TL97-311	SCL
Stile & Rail Active-Active Pairs	37	1-3/4" (1-11/16")	NR	K	NA	---	---	7.9	TL11-109	SG12
	35	1-3/4" (1-3/4")	60-45	K	NA	---	---	10.2	TL11-108	MC
	32	1-3/4" (1-1/2")	20	K	NA	---	---	5.9	TL11-107	SCL

[1] Test was conducted as an active/inactive pair installation and requires Eggers' overlapping wood astragal.
[2] Test was conducted as an active/active pair with top latching surface hardware.







ACOUSTICAL GASKETING AND UNDERCUTTING		
Gasket System	**Components**	**Required Undercut**
A	Double row Pemko S-88 gasket, Pemko 434_ARL door bottom, Pemko 2005_AT threshold	1/2"
B	Double row Pemko S-88 gasket, Pemko 434_ARL door bottom	1/4"
C	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 2005_AT threshold	3/8"
I	Double row Pemko S-88 gasket, Pemko PDB411_AE door bottom	3/8" (1/4"-1/2")
K	Double row Pemko S-88 gasket and pad on frame, Pemko PDB411_AE door bottom, one row of Pemko S-1125 on each meeting edge	3/8" (1/4"-1/2")
M	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 151 flat threshold	3/8"
N	DHSI 105, DHSI AMDB3-3, & DP*	1/4"
O	Pemko 773, Pemko 234 door shoe, Flat smooth threshold	3/8"
P	DHSI 105, SA, CS, DP	3/8"
Q	DHSI 105, Pemko 2005_AT	3/8"
S	2008_APK Threshold, S44 and 312R	3/8"
T	2008_APK Threshold, S773 and S44	3/8"
U	Pemko PDB411_AE, S773, S44 and ACP112	3/8" (1/4"-1/2")

**DP375 is used for the Solid Wood Edge Option (SWE); DP250 is used for full width mortise or CS*





SOUNDWOOD ACOUSTICAL WOOD FRAMES

Eggers' acoustical wood jambs allow the beauty of our doors to be accented with matching wood frames designed to create a cohesive look metal frames cannot match. Create a masterpiece, knowing Eggers will work diligently to make your acoustical door and frame a perfect match. Available with an STC sound test report up to an STC 45, Eggers' two piece acoustical frame is sold exclusively in combination with Eggers' acoustical doors.

Elegant

Eggers' acoustical frames are available in virtually any veneer and finish color and offers quality control unparalleled in the acoustical wood door market. No longer is a metal frame with wood casing necessary for aesthetic appeal. Perfect for the grand entrance to a concert hall or the distinction of a boardroom, Eggers' acoustical wood frames complement our acoustical doors perfectly.

Functional

Eggers' STC doors and frames are found in healthcare and hospitality facilities, government and municipal buildings as well as educational institutions. Typical applications include performance venues, conference rooms, lecture halls, auditoriums, and classrooms.

Two Piece Acoustical Jamb Installation Instructions

Maximum Overall Opening	50-11/16" wide x 121-11/32" high (frame buck opening)
Maximum Door Opening	Single–4-0 x 10-0
Wall Depth	Minimum–4-7/8"
Wall Type	Wall must be constructed to meet the STC rating and lined with a wood stud for jamb attachment
Gasketing	Refer to gasketing installation instructions for the specific STC door rating selected from the STC Product Offerings chart

Note: Soundwood Acoustical Frames are veneer-wrapped and will maintain the opening rating with doors rated up to STC 45.

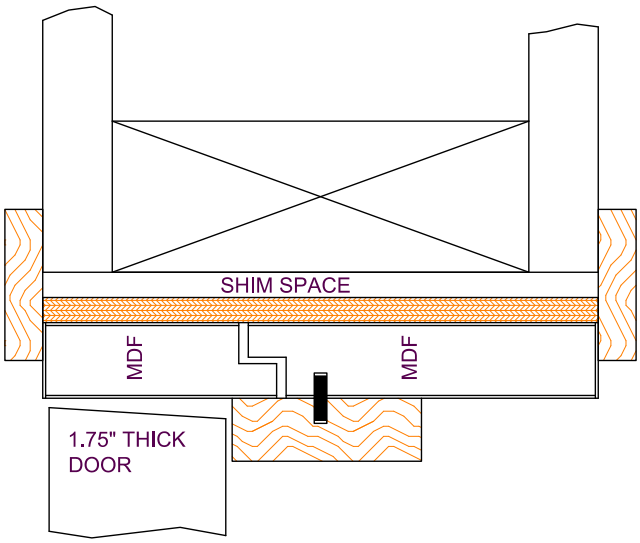
Door side of jamb is shimmed and installed first with #8 x 1-1/2" screws spaced a maximum of 4" from each end and 24" on center.

Stop side of jamb is then installed flush with the wall. Space in between the two jamb components is okay.

Attach stop side of jamb with #8 x 2" screws or 8d finishing nails spaced a maximum of 6" from the end and 24" on center. Fasteners can be located underneath the stop.

One #8 x 2" screw or 8d finish nail should be located at each hinge pocket and strike pocket on the door side of jamb before the hardware is installed.

Shim space is a maximum of 1/4" and must be tightly filled with fiberglass insulation



Flat Stop

Minimum 5/8" thick x 1-1/2" wide. Flat stops are installed with a 1/8" x 7/16" HDF spline and #4 finish nails or 18 gage x 1-1/2" long brads spaced maximum 4" from each end and 16" on center.

Casing

Minimum 3/8" thick x 1-1/2" wide. Casing is installed with minimum #4 finish nails spaced maximum 4" from each end and 16" on center and staggered.

ECOUSTICS

Acoustical Architectural Plywood



Plywood that looks beautiful and creates an environment that sounds great too. Eggers' acoustical plywood helps to reduce reverberation and noise pollution overall. Functionality and high-quality performance are matched with the beauty of an Eggers' plywood product.

SOUNDWOOD ACOUSTICAL PLYWOOD PANELS

Acoustical Performance Testing Methods

The Soundwood Ecoustics line of architectural plywood is tested differently from our acoustical door line. Two different values are captured:

- NRC–Noise Reduction Coefficient: a measure of how effective a material is at absorbing sound.
- SAA–Sound Absorption Average: the amount of sound absorbed by a surface finish.

There are two common mounting methods for plywood paneling, known as “A” mounting and “E” mounting. The “A” mounting is used to test wall panels. The “E” mounting is used to test ceiling panels and is typically given a three digit suffix, e.g. “E-400.” This represents the depth (in millimeters) of the sealed airspace behind the acoustical material tested. The “E” mounting method is typically used for acoustical ceiling tiles.

The ASTM C423 test standard is the standard test method for sound absorption and sound absorption coefficients by the reverberation room method.

All building materials have some acoustical properties that they will absorb, reflect, or transmit sound striking them. Conventionally speaking, acoustical materials are those materials designed and used for the purpose of absorbing sound that might otherwise be reflected. Sound absorption is defined as the incident sound that strikes a material and is not reflected back.

For the vast majority of conventional acoustical materials, the material thickness has the greatest impact on the material’s sound absorbing qualities. While the inherent composition of the acoustical material determines the material’s acoustical performance, other factors can improve or influence the acoustical performance. Incorporating an air space behind an acoustical ceiling or wall panel often serves to improve low frequency performance.





Installation Instructions

The manufacturers of the gasketing, door bottom, thresholds will generally provide a set of installation instructions with their components. In addition, Eggers has developed a set of installation instructions for each of the gasketing systems indicated in the product offering chart. This information is meant to augment those instructions.

Perimeter gasketing is intended to form a seal between the door leaf and the frame. Most of the systems used with Eggers doors include a double row of frame applied seals to accomplish this. If necessary due to installation clearances the seals allow a limited amount of re-positioning to assure adequate contact with the closed door.

Where used, raised thresholds should be adjusted and secured based on the position of the closed door. The threshold seal should make uniform contact with the door surface. Avoid excessive force between the door and threshold as this can hold the door away from the frame seals.

Auto door bottoms should be properly sized to the door width. Avoid undersizing them as this will prevent a good seal and allow sound to “leak” past.

There are several glazing options within Eggers approvals. Eggers recommends factory glazing of acoustic doors, where our controlled environment and installers familiar with the process can ensure proper sealing.

Where doors are to be field glazed, a good seal must be made between all of the components, regardless of the glazing system used. The best way to do this is with a small bead of 100% pure silicone. The seal does not have to be thick, but it must be continuous.

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Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supersede those in print.

The FSC certification ensures responsible use of forest products. 301-08-15

Look for FSC certified products.

R08.17

FSC www.fsc.org FSC® C019991 The mark of responsible forestry

RAINFOREST ALLIANCE CERTIFIED

CERTIFIED QUALITY WOODWORK

EGGERS' GREEN CAPABILITIES

Eggers' expertise in sustainable practices can help contribute towards green building credits for nationally recognized environmental building programs.

Eggers Industries



Turning nature's beauty into works of art

ARCHITECTURAL DOORS, PANELING AND VENEER MATCHING

Conserving our natural resources is as much an honor as it is a responsibility at Eggers Industries. It's a philosophy and a practice that echoes throughout Eggers.



We are certified by the Rainforest Alliance to manufacture products in accordance with the Forest Stewardship Council™(FSC®) standards. Our commitment to our customers and the environment is not only a guarantee of high-quality, custom wood products, but also a promise of credits toward the Leadership in Energy and Environmental Design (LEED®) program.

- Eggers offers agricultural fiber based particleboard as well as FSC certified structural composite lumber core, stave, and particleboard core types for flush doors.
- As an FSC Chain of Custody Certified Supplier by the Rainforest Alliance, all FSC certified materials meet or exceed requirements set by the FSC. These products come from managed forests that exercise selective harvesting.
- Eggers can provide you with FSC certified wood doors, frames and architectural plywood panels within one facility. Custom applications also include ceiling tiles and office components.
- Eggers' UV cured finishing system consists of water-based stains and 100 percent solid clear coats that are free of Volatile Organic Compounds (VOC).

In addition to providing sustainable manufacturing, Eggers follows environmentally-conscious practices as a company. Recycling is a primary focus at Eggers, both in our offices and our plants. We also harness energy from waste materials to heat our facilities.

LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED®)

The United States Green Building Council (USGBC) developed LEED as a set of guidelines to provide a national standard for green building design. It's the most recognized rating system for evaluating environmental performance of commercial, institutional, governmental and high-rise residential buildings. The information provided here is based on LEED 2009-NC. You can learn more about LEED by visiting their website at usgbc.org.

Green Design incorporates design and construction practices to greatly reduce or eliminate the negative impact of buildings on the environment and occupants through:

- Sustainable site planning
- Safeguarding water and water efficiency
- Energy efficiency
- Conservation of materials and resources
- Indoor environmental quality

The LEED program is a certification process to provide a sustainability rating system. Eggers' architectural wood doors, panels and other products can assist building owners and design teams toward certification by contributing to points in the **Materials & Resources** category, as well as **Indoor Environmental Quality.** Depending on the number of points earned, the buildings can achieve Certified (40-49 points), Silver (50-59 points), Gold (60-79 points) or Platinum (80+ points) status.

LEED-2009-NC Rating System

Credits		Points
17	Sustainable Sites	**26**
4	Water Efficiency	**10**
8	Energy and Atmosphere	**35**
8	Materials and Resources	**14**
22	Indoor Environmental Quality	**15**
4	Design Process and Innovation	**10**
	Total Points Possible	**110**

Due to recent changes in FSC regulations, your company may be required to complete certification through an FSC agency. Please contact USGBC for additional information.

LEED® OPPORTUNITIES AVAILABLE WITH EGGERS' PRODUCTS

EGGERS' FLUSH DOORS[1]		MR 4: Recycled Content[3]	MR 6: Rapidly Renewable Materials	MR 7: Certified Wood[3]	EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]	Total Point Contribution with Eggers' Flush Doors
Particleboard Core		2				**2**
No UF Particleboard		2			1	**3**
FSC Certified Particleboard				1	1	**2**
Agrifiber		2	1		1	**4**
Agrifiber with FSC Certified Components		2	1	1	1	**5**
Stave Lumber		2			1	**3**
FSC Certified Stave Lumber				1	1	**2**
SCL		2			1	**3**
FSC Certified SCL				1	1	**2**
45-90 Minute Mineral Core		2			1	**3**
EGGERS' STILE & RAIL DOORS[1]		**MR 4: Recycled Content[3]**	**MR 6: Rapidly Renewable Materials**	**MR 7: Certified Wood[3]**	**EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]**	**Total Point Contribution with Eggers' S & R Doors**
SCL Core - Lite Door		2			1	**3**
SCL Core- Panel Options	Particleboard	2				**2**
	MDF	2				**2**
	No UF MDF	2			1	**3**
FSC Certified Stave Core - Lite Door		2		1	1	**4**
FSC Certified Stave Core - Panel Options	FSC Certified/No UF MDF	2		1	1	**4**
45-90 Minute - Lite Door		2			1	**3**
45-90 Minute Panel Options	Membrane	2			1	**3**
	Rim	2			1	**3**
EGGERS' DOOR FRAMES[1]		**MR 4: Recycled Content[3]**	**MR 6: Rapidly Renewable Materials**	**MR 7: Certified Wood[3]**	**EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]**	**Total Point Contribution with Eggers' Door Frames**
Lumber				1	1	**2**
MDF		2				**2**
No UF MDF		2			1	**3**
FSC Certified		2		1	1	**4**
90-Minute					1	**1**
EGGERS' PANELS[1]		**MR 4: Recycled Content[3]**	**MR 6: Rapidly Renewable Materials**	**MR 7: Certified Wood[3]**	**EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]**	**Total Point Contribution with Eggers' Panels**
Particleboard or MDF*		2				**2**
No UF Particleboard or MDF*		2			1	**3**
FSC Certified Particleboard or MDF		2		1	1	**4**
Veneer Core					1	**1**

[1] Additional point contributions may be available for MR #5.1 and MR #5.2 if the materials are extracted, harvested, recovered and manufactured within 500 miles of the jobsite and Eggers' manufacturing facilities. Contributions are contingent on the design and layout of the product in question. [2] The product construction is only urea-formaldehyde free if it is ordered as urea-formaldehyde free. The core is urea-formaldehyde free, but the doors need to be constructed urea-formaldehyde free to contribute to this credit. [3] Per USGBC guidelines, the value of any content that contributes to MR #4 cannot be attributed to MR #7.0 calculation.* Only particleboard is available as UL Class A Label.

LEED® QUICK REFERENCE CHART FOR DOORS

Credit	Criteria	Intent
MATERIALS & RESOURCES		
4.0	**Recycled Content** 10 percent (post-consumer + 1/2 pre-consumer)	Increase demand for building products that incorporate recycled content materials, thereby reducing impact resulting from extraction and processing of virgin material
	Recycled Content 20 percent (post-consumer + 1/2 pre-consumer)	
5.0	**Regional Materials** 10 percent extracted, processed and manufactured regionally	Increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting indigenous resources and reducing environmental impact from transportation
	Regional Materials 20 percent extracted, processed and manufactured regionally	
6.0	**Rapidly Renewable Materials**	Reduce the use and depletion of finite raw materials and long-cycle renewable materials by replacing them with rapidly renewable materials
7.0	**Certified Wood**	Encourage environmentally responsible forest management
INDOOR ENVIRONMENTAL QUALITY		
4.4	**Low-Emitting Materials** Composite wood and agrifiber contains no added urea-formaldehyde	Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants





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Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supersede those in print.

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RAINFOREST ALLIANCE CERTIFIED

CERTIFIED ARCHITECTURAL WOODWORK INSTITUTE QUALITY WOODWORK

CERTIFIED INDOOR AIR QUALITY SCS GLOBAL SERVICES
INDOOR ADVANTAGE GOLD BUILDING MATERIALS

Silhouettes™

SPECIALTY GLASS COLLECTION

Eggers Industries

The *Silhouettes*™ Specialty Glass Collection from Eggers enhances the richness and beauty of wood entryways through the sublime interplay of glass and light.



Turning nature's beauty into works of art

NATURAL BEAUTY. NATURAL FUNCTIONALITY.

The *Silhouettes*™ Specialty Glass Collection features a variety of glass styles, thicknesses and translucency levels. Whichever option you choose, you can rest assured that your *Silhouettes* Specialty Glass is as arresting in beauty as it is in functionality.

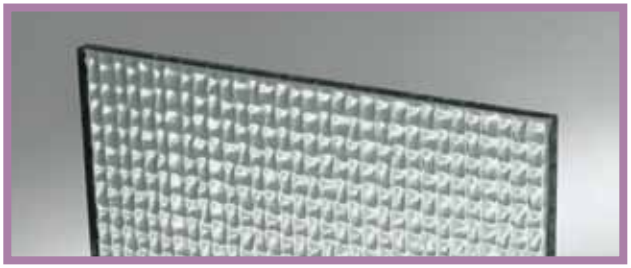
In addition to the Specialty Glass selection featured here, Eggers offers a wide variety of unique style options to make your doors as distinctive as possible.



Glue Chip



Spraylite



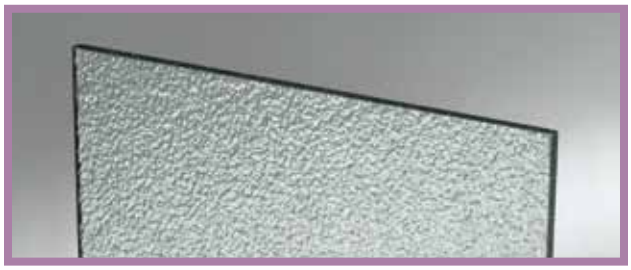
Flax



Niagara



White Laminated



Pattern 516



Skytex



Matelux



English Reeded

SPECIALTY GLASS

Glass Type	Pattern 516	Niagra	Spraylite	Flax	Skytex	White Laminated	Matelux	English Reeded	Glue Chip
Thickness	3/16"	3/16"	3/16"	3/16"	3/16"	1/4"	1/4"	1/4"	1/4"
Tempered	YES	YES	YES	YES	YES	NO	YES	YES	YES
ANSI Z97.1	YES	YES	YES	YES	YES	NO	YES	YES	YES
CPSC 16 CFR 1201 Category I	YES	YES	YES	YES	YES	NO	YES	YES	YES
CPSC 16 CFR 1201 Category II	YES	YES	YES	YES	YES	NO	YES	YES	YES



MINI-BLIND GLASS UNITS

Eggers' mini-blind glass units are the perfect solution for privacy. These blinds are placed between 2 pieces of 1/8" tempered glass. They come in several sizes with options for tilting and raising the blinds. With the tilt and raise controllers available on one side only, the customer must specify which side of the door receives the controller.

The units can only be installed in non-rated doors and must be factory glazed. Due to the bead size, the visible lite will be approximately 1" less in width and height than the glass unit size.

Mini-blind units have not been evaluated for use on acoustic doors, and are not approved for use on fire-rated , x-ray or bullet-resistant doors.

- Thickness of Unit - 1-1/16"
- Wood Bead - #115
- Slat Material - Aluminum
- Alternate Glazing - Not Available

Glass Size	Cut-Out Size	Visible Lite	Tilt/Raise
7" x 64"	7-1/8" x 64-1/8"	6" x 63"	Tilt and Lift
8" x 36"	8-1/8" x 36-1/8"	7" x 35"	Tilt and Lift
8" x 64" *	8-1/8" x 64-1/8"	7" x 63"	Tilt and Lift
14" x 64"	14-1/8" x 64-1/8"	13" x 63"	Tilt and Lift
20" x 64" *	20-1/8" x 64-1/8"	19" x 63"	Tilt and Lift
20" x 80"	20-1/8" x 80-1/8"	19" x 79"	Tilt and Lift
22" x 36" *	22-1/8" x 36-1/8"	21" x 35"	Tilt and Lift
22" x 48"	22-1/8" x 48-1/8"	21" x 47"	Tilt and Lift
22" x 64" *	22-1/8" x 64-1/8"	21" x 63"	Tilt and Lift
22" x 80"	22-1/8" x 80-1/8"	21" x 79"	Tilt and Lift

*Tan slats are options for these sizes. All sizes available with bright white slats.

THE BEAUTY OF SAFETY – GENERAL GLAZING INSTRUCTIONS

Eggers' specialty glass glazing options currently include: Textured, Tinted and Laminated, with or without colored film. These are in addition to our standard glazing options, which are wired, tempered, bullet-resistant, acoustical and fire-rated. Specialty glass is not meant for use in bullet-resistant, acoustical or fire-rated doors.

Glazing options for fire-rated doors continue to increase. There are now options for ceramic glazing materials, high tempered clear glazing, laminated glazing, clear composite glazing panels as well as traditional wired glass. There are also approvals gained by the manufacturers of metal vision frames, intumescent producers and door manufacturers. As the number of options increases, so does the complexity of installations.

Many of these approvals require very specific glazing parameters. These include limitations to the type and rating of the doors they may be installed in, stop heights, clearances between glazing and door cutout and use of setting blocks to support and center the glazing within the frame. The complexity of specific requirements increases exponentially with the use of different types of caulk, glazing tape, intumescent tapes and combinations to ensure that the final installation will meet fire labeling requirements.

Eggers recommends factory glazing for proper glass installation, especially special purpose doors such as fire and acoustics. Check with applicable codes as the current version of NFPA-80 requires new wood fire doors to be glazed under third party labeling service.

Eggers has developed a set of glazing instructions to address these installation issues, as well as meet the market demand for field glazing options. These instructions are shipped with each door order. They detail the four most commonly ordered bead installations:

- 20-minute lites with 3/16" to 5/16" glazing in wood beads (also applicable for non fire-rated installations).
- 20-minute full-lites with Pyroedge glazing and wood beads.
- 45-minute full-lites with Firelite Plus glazing in wood beads.
- 45- through 90-minute lites with wired glass or ceramic glazing in veneer wrapped lite beads.

Additional instructions may be added to this set as warranted by the market. Glazing instructions are also available on our website at www.eggersindustries.com.

It is the glass installer's responsibility to ensure installation instructions used are correct for the specific application. For metal vision panel applications, please refer to the manufacturers' instructions provided with their frame. You can also call 920.722.6444 for technical assistance and guidance for other applications.

Eggers will continue to develop additional tools to effectively correct specification and installation of fire-rated doors. As they become available, we will post them on our website for your immediate benefit.

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Fax: 920.722.0357

Architectural Veneer Faces, Custom Wood Products, Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.849.0444

Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supersede those in print.

The FSC® certification ensures responsible use of forest products. 204-08-14

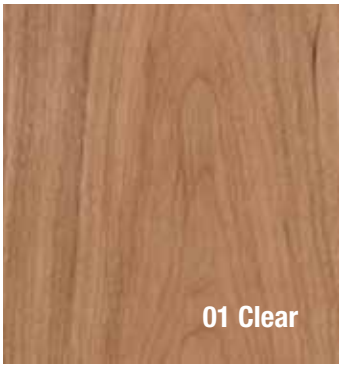
FSC www.fsc.org FSC® C019991 The mark of responsible forestry

RAINFOREST ALLIANCE CERTIFIED

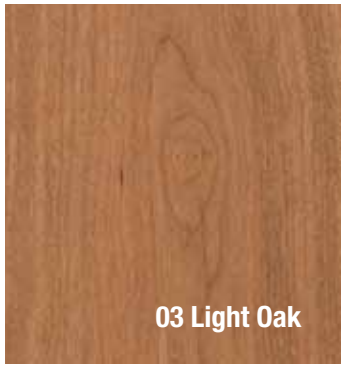
CERTIFIED QUALITY WOODWORK

STANDARD FINISH SELECTOR GUIDE

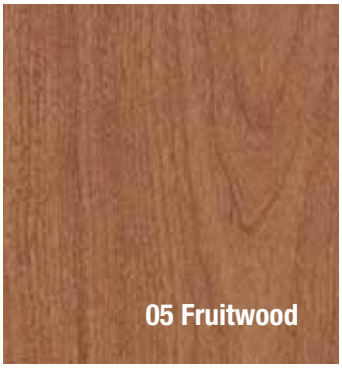
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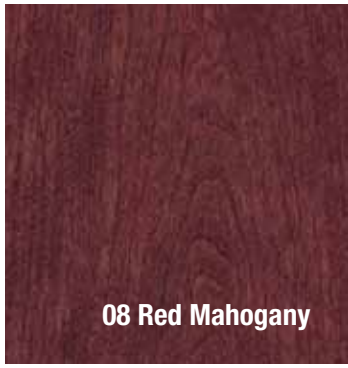












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for cherry doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



Eggers Industries

Stile & Rail Doors, Door Frames, Plywood

Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958
www.eggersindustries.com

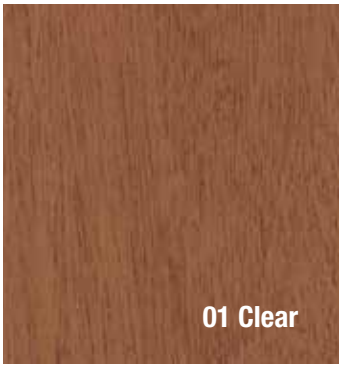
Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357
email: sales@eggersindustries.com

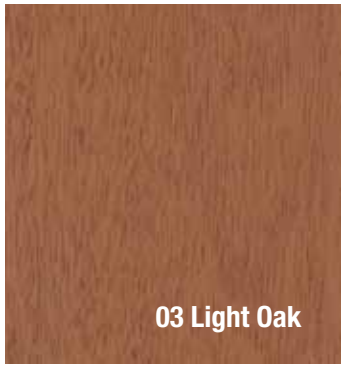
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STANDARD FINISH SELECTOR GUIDE

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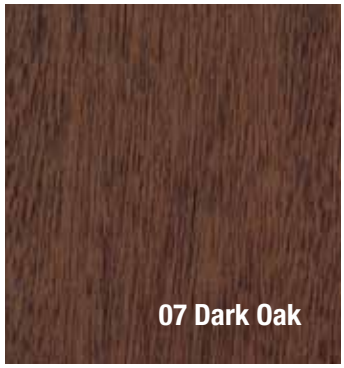


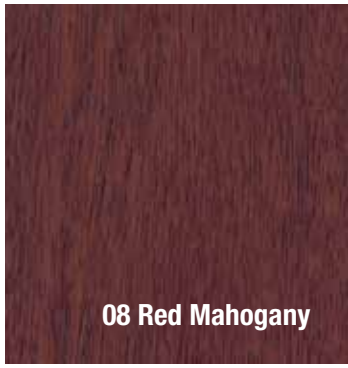












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for mahogany doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



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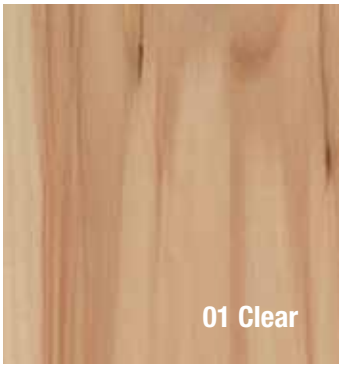
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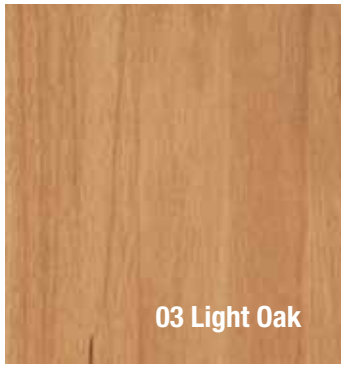
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STANDARD FINISH SELECTOR GUIDE

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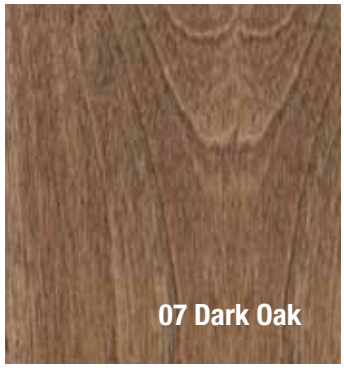


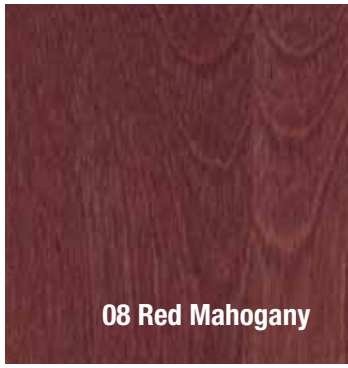












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for natural birch doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



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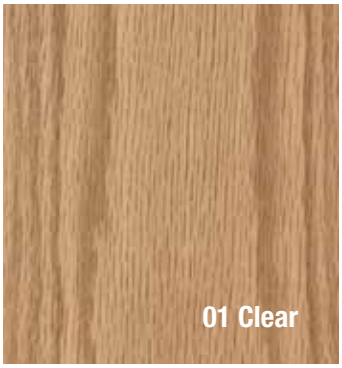
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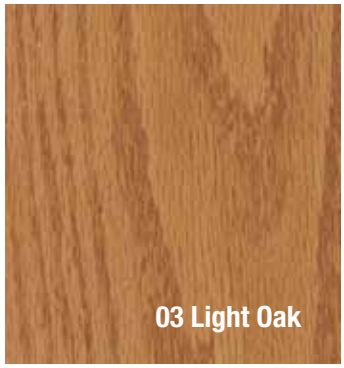
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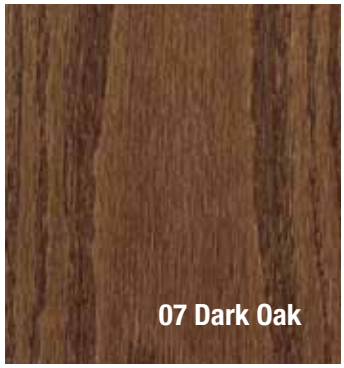


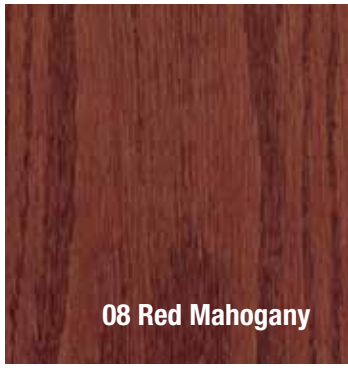












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for red oak doors that are unfinished, finished clear, or finished with stains.

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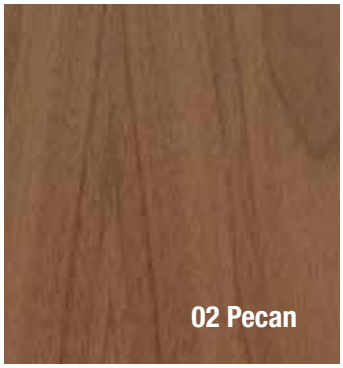
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Neenah, WI 54956
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Fax: 920.722.0357
email: sales@eggersindustries.com

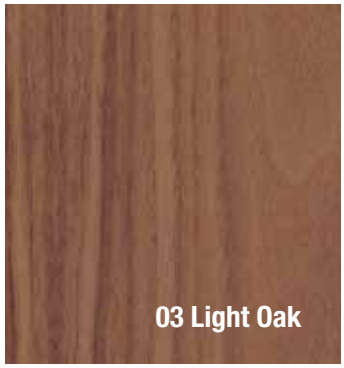
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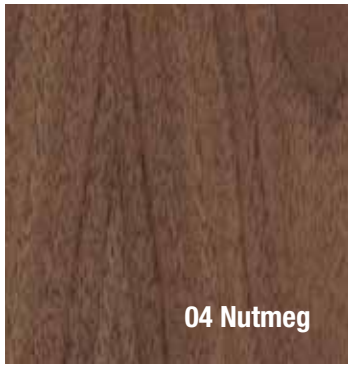
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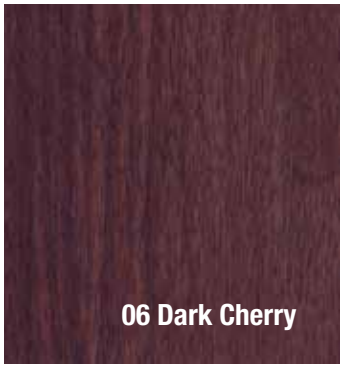


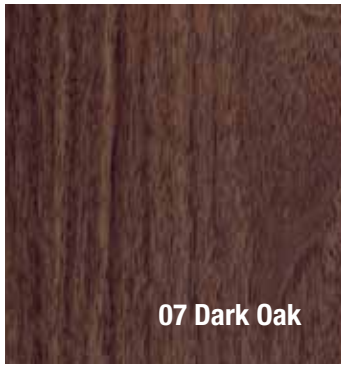














Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for walnut doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



Eggers Industries

Stile & Rail Doors, Door Frames, Plywood

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One Eggers Drive
Two Rivers, WI 54241
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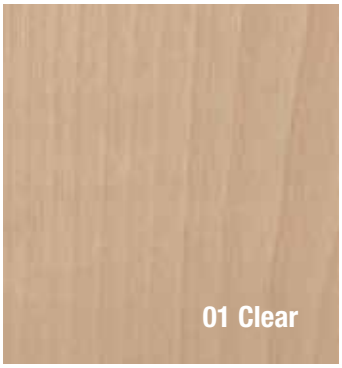
Flush Doors

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164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357
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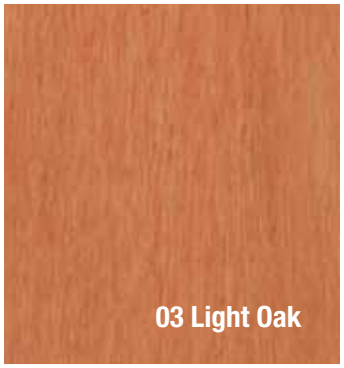
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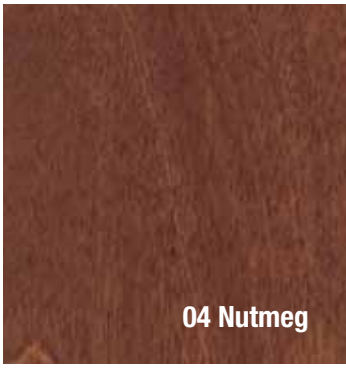
STANDARD FINISH SELECTOR GUIDE

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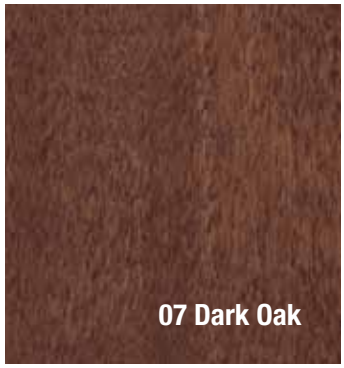














Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for white birch doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



Eggers Industries

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Door Frames, Plywood

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Flush Doors

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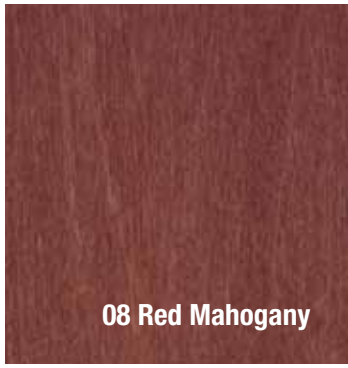












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for white maple doors that are unfinished, finished clear, or finished with stains.

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Two Rivers, WI 54241
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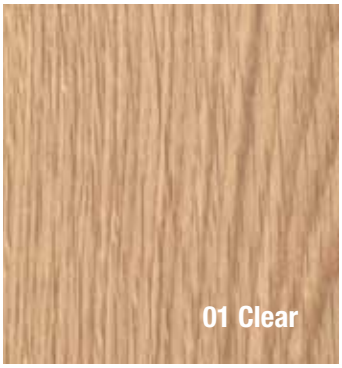
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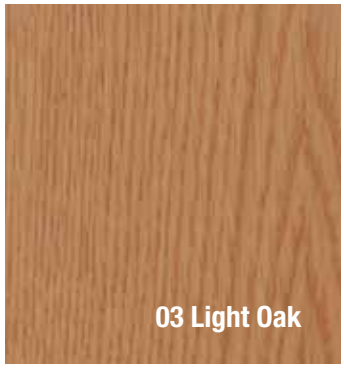
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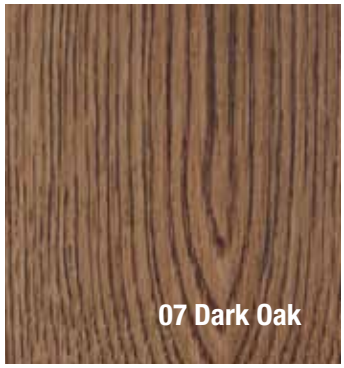


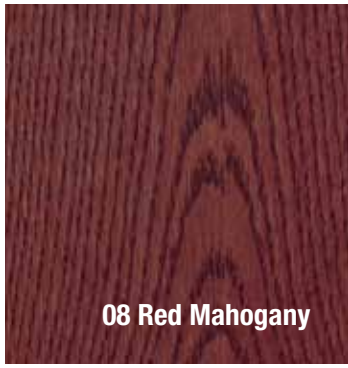












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for white oak doors that are unfinished, finished clear, or finished with stains.

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Natural Face Veneers
Information Bulletin

No. 300-09-07

Eggers Industries

Your door quote to us specifies a Natural veneer (Ash, Beech, Birch, Maple, or Poplar). **When specifying NATURAL, veneers contain unlimited amounts of sapwood and/or heartwood.** Natural veneer has extreme variation in the appearance of heartwood (the dark portions in the illustrations below, usually red/brown in an actual piece of veneer) and sapwood (the light portions in the illustrations below, usually white in an actual piece of veneer). **This variation cannot be controlled, and will vary both within individual door faces and between door faces.**

In Natural veneer door faces, there is no predictability of how and where heartwood and sapwood will appear. If the doors for your job require a similar appearance, either within a door face or from door to door, it will not be achieved with these species. **If you have a consistent appearance requirement for your wood doors, please contact Eggers for suitable alternatives.**



MOSTLY HEARTWOOD **MOSTLY SAPWOOD**

These veneer examples are typical of grain and color variations found within "A" grade plain sliced natural birch and plain sliced natural maple. However, even these do not represent the widest range possible.

Eggers Industries

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Eggers Finishing Systems

Information Bulletin 454

Date: May, 2015

Eggers Industries

Eggers provides the widest selection of finishing systems in the industry. Our wide range of finish systems are anchored by Gardall, consisting of water based stains and 100% solid clear coats which contain no VOC's. Gardall is an environmentally friendly finish system.

Eggers' Gardall finish system meets or exceeds the performance standards set by WDMA and AWS for UV-cured finish systems. Eggers' broad selection of finishing systems provides a cost effective alternative to field finishing. With factory finishing, you can expect superior color consistency and uniformity.

Neenah Division Finishing Process:
Our Neenah division utilizes a precision roll coating finishing process that results in six coats of finish with a final dry coating thickness of 1.5 mils. Multiple thin coats of material offer a high-quality smooth appearance with the durability that is essential in the commercial door industry.

Two Rivers Division Finishing Process:
Our Two Rivers Division utilizes a top-of-the-line spray finishing system with automatic spray guns all in an enclosed chamber. Eggers has implemented strict manufacturing procedures and processes to address and avoid the common finishing issues and we take great pride in the superior quality our finishing system provides.

OTHER SYSTEMS AVAILABLE

Gardall Plus
This is the same Gardall finish system but it has additional sealer and/or topcoats applied. This is used for specifications that call out filled effect finish or semi-filled. Ask for clarification whenever filled effect is listed in a specification.

Opaque Finish
Our opaque finish is offered as an AWS system 5 for opaque finishes and we can match any color. This finish is often referred to as a “painted finish”. AWI does not recognize “paint” as a finish system, only opaque varnishes, as “paint” is too generic of a term to be used as a designated architectural grade finish.

Ebonized Finish
This finish blackens the veneer and is done in one of two methods depending upon the look that is desired. We will either utilize stain or diluted opaque varnishes to obtain the desired color.

Eggers Industries

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Eggers Finishing Systems
Information Bulletin 454

Date: May, 2015

Eggers Industries

Whitewash Finish
A white stain is used to achieve this specialty look.

Toned / NGR Finishes
These systems are available by special request. These non-wiping stain application (NGR) finishes have the colorants incorporated into the transparent finish coats.

Exterior Finish
Exterior finish is different than any other finish system we offer. All exterior doors are finished with an exterior grade spar urethane, a water and UV resistant finish. This is a specially formulated finish designed to withstand extreme environmental conditions, the finish expands and contracts with wood as the humidity and temperature change.

These are not permanent finishes and will require yearly maintenance to preserve the integrity of the finish. Our exterior finish includes the preservative treatment which is a fungicide and mildew-resistant treatment that is sprayed on the doors prior to stain and topcoats. It contains water repellants to aid in control of checking and grain raising.

Due to the preservative treatment and the general characteristics of spar varnish, the overall appearance of an exterior finish is different than our interior finishes. Sample approval for both interior and exterior finishes will be required for all projects.

Factory Finish Specifications
Section 08200, Part II, Prefinish:
Doors to be factory finished to meet or exceed WDMA I.S. 1A-13 specifications for a TR-8 UV-cured finish system or AWI Section 5 specifications for a UV curable polyester urethane finish system.

Specify Eggers' Gardall – a water-based stain and UV curable polyester urethane finish system which complies with all applicable Federal and State regulations for Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAP) emission limitations per the EPA Clean Air Act.

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Phone: 502.845.0154
Fax: 502.849.0444

Eggers Finishing Systems
Information Bulletin 454

Date: May, 2015

Eggers Industries

Additional Specification Information:
Industry standards allow doors with a full range of color and grain that exist naturally in species. Veneer color and characteristic may vary between species, within the same specie, and potentially within a flitch. Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly or match uniformly in color or grain must be specified at the time of quotation.

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Puttying Nail Holes

Information Bulletin 274

Date: February, 2013

Eggers Industries

In Applied Moulding:

Eggers standard application of moulding is with adhesive only. Where nails are required per the door construction or moulding dimensions (see info bulletin #238). Nail holes will be treated as follows:

Doors Finished***** at Eggers – Nail holes will be filled to match the finish
Doors Primed at Eggers – Nail holes will be puttied but not primed
Doors shipped without finish – Nail holes will not be filled

In Beads (for Louver or Lites installed at Eggers)

Beads are secured in the opening with nails (brads). Nail holes will be treated as follows:

Doors Finished***** at Eggers – Nail holes will be filled to match the finish
Doors Primed at Eggers – Nail holes will be puttied but not primed
Doors shipped without finish – Nail holes will not be filled

***** This includes clear, stained and painted finish options

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20-Minute Fire Rated Doors

20-Minute Pyroswiss Glass

No. 432-07-08

Eggers Industries

Our standard non-wired glass offering for 20-minute doors is Pyroswiss.

This glazing:

- is nominally 1/4” thick.
- is available with any of our standard wood beads having a stop height of at least 3/8”
- requires 1/8” clearance between the glass and cutout on all four edges
- is fire rated for 20 minute doors only
- is safety rated
- is approved for a maximum height of 87-9/16”
- is approved for a maximum area of 2,868 sq. inches
- is not available in dimensions where the length is greater than 10 times the width
- has the following restrictions:
  - ✓ Minimum dimension of 4” (length or width)
  - ✓ Standard minimum diagonal dimension of 14” visible

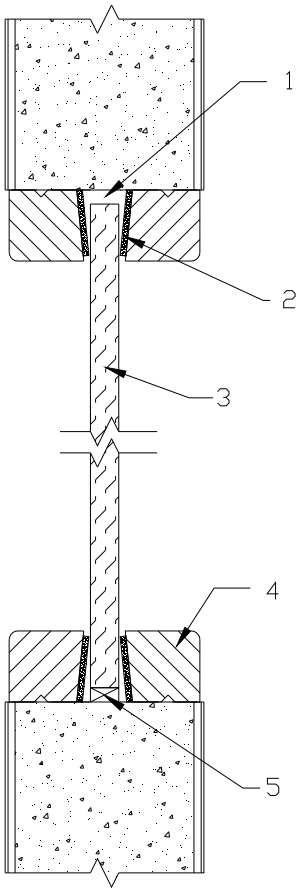
The following can be done with Pyroswiss (we will need to contact the manufacturer for prices):

- Glass can be radiused convex but not concave (the minimum radius for use with a wood bead is 6”)
- Can be etched (design or logo)
- Can have beveled edges
- Can be obscured

Note: Pyroswiss glazing must be allowed room to expand, and will be installed using 1/8” setting blocks (See Eggers glazing instructions for a full description of the installation procedure). Check with Eggers’ product development department before specifying for use in a metal vision panel, as the required setting blocks are incompatible with many metal vision panels.

Pyroswiss Glass in Wood Bead

1. 1/8" clearance between glass and cutout
2. Glazing tape or caulk
3. 1/4" Pyroswiss glass
4. Wood Bead (shown with #100 profile)
5. 1/8"x 1/8"x 3" neoprene setting block (at quarter points of cut-out)



Glazing Dimension:
Width = Cutout minus 1/4"
Length = Cutout minus 1/4"

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45-60-and 90-Minute Double Egress

Information Bulletin

Eggers Industries

No. 323-09-07

Eggers has approval, with both UL and Warnock Hersey, to manufacture and label pairs of double egress doors up to 90-minutes. This application is available with less-bottom-rod concealed vertical rods (except for plastic faced doors) or surface vertical rods (full or less- bottom-rod) hardware.

We can use any approved hardware, but will not machine for Monarch or American CVRs.

- Opening size is limited to 8-0 x 8-0 maximum size.
- Only available with Category A meeting edges.
- Full or partial height metal edges or metal edge and astragals are allowed with surface vertical rod hardware.
- With less-bottom-rod devices 5 auxiliary fire latches are required (one on the meeting edges, one in each top rail, and one in each bottom rail).
- With top and bottom surface vertical rods 3 auxiliary fire latches are required. (One on the meeting edge and one in each top rail).

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Continuous Hinge Applications
Information Bulletin 421

Date: February 2013

Eggers Industries

Continuous hinges require special prefitting. The issue is complicated by the following three things:

1) Different continuous hinges require different clearance dimensions for the hinges themselves.
2) Some hinge manufacturers recommend 3/16” meeting edge clearance for pairs. Both WDMA I.S.1A and NFPA-80 list the meeting edge clearance for pairs of wood doors as 1/8”.
3) Some of the prefit dimensions shown on the hinge manufacturer’s literature include an “extra” prefit dimension for anticipated frame variation.

The dimensions below are based on the hinge requirement, 1/8” meeting edge clearances, and a 1/32” per leaf allowance for frame irregularities.

Hinge Model	Fire Labeled	Hinge Edge	Single Swing	Standard Swing Pair	DE Pair
ABH A110HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
ABH A240HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
ABH A240LL	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
ABH A500	Up to 90-min	Square	13/32”	11/32"	9/32"
		Beveled	13/32"	11/32"	9/32"
Hagar (Roton) 780-041 HD - Swing Clear	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	N/A	N/A	N/A
Hagar (Roton) 780-111 HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Hagar (Roton) 780-112 HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Hagar (Roton) 780-224 HD and IVES 224HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”

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Hagar 790-900	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	13/32”	11/32”	9/32”
Hagar 790-905	Up to 90-min	Square	7/16”	3/8”	5/16”
		Beveled	N/A	N/A	N/A
Hagar 790-911 - Swing Clear	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	N/A	N/A	N/A
Hagar 790-915	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	N/A	N/A	N/A
Ives 112HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Ives 600/700	Up to 90-min	Square	13/32"	11/32"	9/32"
		Beveled	7/16”	3/8”	5/16”
Ives 705 Without Adjustable Studs	Up to 90-min	Square	17/32"	15/32"	13/32"
		Beveled	9/16"	1/2"	7/16"
Ives 705 Using Adjustable Studs	Up to 90-min	Square	21/32"	19/32"	17/32"
		Beveled	11/16"	5/8"	9/16"
Markar HG305	Up to 90-min	Square	17/32”	15/32”	13/32”
		Beveled	17/32”	15/32”	13/32”
Markar HG315	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
Markar HG326 – Swing Clear	Up to 90-min	Square	17/32”	15/32”	13/32”
		Beveled	17/32”	15/32”	13/32”
Markar HS-103	Non-Label	Square	11/32”	9/32”	7/32”
		Beveled	11/32”	9/32”	7/32”
Markar FM100	Non-Label	Square	17/32”	15/32”	13/32”
		Beveled	17/32”	15/32”	13/32”
Markar FM200	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
Markar FM300	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”

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Markar FM-3500	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	15/32”	13/32”	11/32”
McKinney 12HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	17/32”	15/32”	13/32”
McKinney 14HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	17/32”	15/32”	13/32”
McKinney 25HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	17/32”	15/32”	13/32”
Mckinney FM300	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
PBB CG31	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
PBB CH31	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
PBB CH51	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	7/16"	3/8"	5/16"
Pemko CFM 83HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	15/32”	13/32”	11/32”
Pemko SPBFM	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	7/16”	3/8”	5/16"
Select SL-11 HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Select SL-18 HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Select SL-24 HD	Up to 90-min	Square	15/32””	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Select SL300	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	15/32”	13/32”	11/32”
Select SL305	Up to 90-min	Square	17/32”	15/32”	13/32”
		Beveled	N/A	N/A	N/A

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Stanley 661 & 661HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Stanley 641 & 651	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	27/64"	23/64"	19/64"
Stanley 643 & 653	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
Stanley 646 & 656 Swing Clear	Up to 90-min	Square	5/16"	1/4"	3/16"
		Beveled	N/A	N/A	N/A
Stanley 662 & 662HD	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	1/2"	7/16”	3/8”

When determining prefit door dimensions for continuous hinge clearances the following wording should be part of the customer acknowledgement, “Prefit sizes for doors with continuous hinges are based on hinge requirement, 1/8” latch or meeting edge clearances and 1/32” per leaf allowance for frame irregularity. Please advise if you wish to request a different prefit clearance”.

Note: If the continuous hinge you are using is not included in this table please either verify that the hinge manufacturer’s dimensions apply to wood/composite doors, or bring it to the technical department to verify and add to the above table.

Fire Rated Glazing
Information Bulletin #447

Date: December 2016

Eggers Industries

The following 4 pages include an approvals matrix of glazing products available for use as lites in fire rated doors and an installation matrix of the installation options available for each glazing type. Please contact Product Development regarding glass types not shown.

The dimensions shown are based on the door and glazing approvals. These may be further restricted by the approval of the vision frame selected.

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Fire Rated Glazing
Information Bulletin #447

Date: December 2016

Eggers Industries

Approvals

WIRED GLASS		Thickness	Safety (Impact) Rated	Passes Hose stream Test	Option to Factory Glazing	Max size in 20-min std construction	Max size in 20-min full-lite construction	Max size in 45-min std construction	Max size in 45-min full-lite construction	Max size in 60-min std construction	Max size in 90-min std construction
Superlite I-W	Non-Temperature Rise Doors	5/16" (0.304)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq inches	36" wide, 84" high, 2856 sq inches	36" wide, 54" high, 1296 sq inches	36" wide, 54" high, 1296 sq inches	12" wide, 54" high; 648 sq inches	10" wide, 33" high; 100 sq inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq. inches	10" wide, 33" high, 100 sq. inches
SAFE-Wire	Non-Temperature Rise Doors	1/4"	Yes	Yes	Yes	35-3/4" wide, 54" high, 1296 sq inches	35-3/4" wide, 87-9/16" high, 2868 sq inches	36" wide, 54" high, 1296 sq inches	36" wide, 54" high, 1296 sq inches	12" wide, 33" high, 100 sq. inches	12" wide, 33" high, 100 sq. inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq. inches	12" wide, 33" high, 100 sq. inches
Wirelite NT	Non-Temperature Rise Doors	1/4" (0.259)	Yes	Yes	Yes	34-3/4" wide, 54" high, 1296 sq inches	34-3/4" wide, 87-9/16" high, 2868 sq inches	36" wide, 54" high, 1296 sq inches	34" wide, 84" high, 1714 sq inches	12" wide, 54" high; 648 sq inches	12" wide, 46" high; 552 sq inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	10" wide, 33" high, 100 sq. inches	10" wide, 33" high, 100 sq. inches
FIRE-PROTECTION GLAZING		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Max size in 20-min std construction**	**Max size in 20-min full-lite construction**	**Max size in 45-min std construction**	**Max size in 45-min full-lite construction**	**Max size in 60-min std construction**	**Max size in 90-min std construction**
Firelite NT	Non-Temperature Rise Doors	3/16" (0.201)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 87-9/16" high, 2868 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 86-1/2" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Firelite Plus	Non-Temperature Rise Doors	5/16" (0.350)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 87-9/16" high, 2868 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 86-1/2" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Superlite X-90	Non-Temperature Rise Doors	3/4"	Yes	Yes	Yes	Not Applicable		10" wide, 33" high, 100 sq inches	Not Applicable	10" wide, 33" high, 100 sq inches	10" wide, 33" high, 100 sq inches
	Temperature Rise Doors					Not Applicable	Not Applicable	10" wide, 33" high, 100 sq inches	Not Applicable	10" wide, 33" high, 100 sq inches	10" wide, 33" high, 100 sq inches
Superlite C/S	Non-Temperature Rise Doors	3/16" (0.187)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" Wide, 77" high, 2772 sq inches	36" wide, 54" high, 1296 sq Inches	36" Wide, 77" high, 1714 sq inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Pyran Platinum F	Non-Temperature Rise Doors	3/16" (0.194)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 76" high, 2736 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 76" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Pyran Platinum L	Non-Temperature Rise Doors	3/8" (0.362)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 75" high, 2700 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 75" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Keralite FR-F	Non-Temperature Rise Doors	3/16" (0.201)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 78" high, 2808 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 78" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches
Keralite FR_L	Non-Temperature Rise Doors	5/16" (0.340)	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 78" high, 2808 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 78" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	10" wide, 33" high, 100 sq inches	10" wide, 33" high, 100 sq inches
PyroStop (45, 60)	Non-Temperature Rise Doors	3/4" and 7/8" respectively	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in	36" wide, 86-1/2" high, 1714 sq Inches	36" wide, 54" high, 1296 sq in	Not Allowed
	Temperature Rise Doors							Not Applicable	Not Applicable	Not Applicable	

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Stile and Rail Doors, Door Frames, Plywood Veneered Components

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Flush Doors

Neenah Division
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Architectural Veneer Faces, Custom Wood Products, Plywood

Kentucky Division
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Fire Rated Glazing
Information Bulletin #447

Date: December 2016

Eggers Industries

Approvals (continued):

20-MIN CLEAR GLAZING		Thickness	Safety (Impact) Rated	Passes Hose Stream Test	Option to Factory Glazing	Max size in 20-min std construction	Max size in 20-min full-lite construction	Max size in 45-min std construction	Max size in 45-min full-lite construction	Max size in 60-min std construction	Max size in 90-min std construction
PyroSwiss	Non-Temperature Rise Doors	1/4" (.222)	Yes Cat I & II	No	Yes	36" wide, 54" High, 1296 sq in	36" wide, 87-9/16" High, 2868 sq in	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
PyroEdge-20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	36" wide, 54" High, 1296 sq in	36" wide, 87-9/16" High, 2868 sq in	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
FireSAFE-20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	34" wide, 54" High, 1296 sq in	34" wide, 76" High, 2584 sq in	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
FireGlass 20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	36" wide, 54" High, 1296 sq in	36" wide, 87-9/16" High, 2868 sq in	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
SuperLite I	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	36" wide, 54" High, 1296 sq in	36" wide, 87-9/16" High, 2868 sq in	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
Pyrodur	Non-Temperature Rise Doors	0.313	Yes Cat I	No	Yes	36" wide, 54" High, 1296 sq in	Not Approved	Not Approved	Not Approved	Not Approved	Not Approved
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Allowed	Not Allowed	Not Allowed	Not Allowed
FIRE-RESISTIVE GLAZING		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Max size in 20-min std construction**	**Max size in 20-min full-lite construction**	**Max size in 45-min std construction**	**Max size in 45-min full-lite construction**	**Max size in 60-min std construction**	**Max size in 90-min std construction**
SuperLite II-XL (45, 60, 90)	Non-Temperature Rise Doors	3/4", 1-1/8" and 1-1/2" respectively	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in	36" wide, 86-1/2" high, 1714 sq Inches	36" wide, 54" high, 1296 sq in	36" wide, 54" high, 1296 sq in
	Temperature Rise Doors										
PyroStop (90)	Non-Temperature Rise Doors	1-7/16"	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in
	Temperature Rise Doors										
ContraFlam or SwissFlam (45)	Non-Temperature Rise Doors	3/4"	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in	36" wide, 86-1/2" high, 1714 sq Inches	Not Approved	Not Approved
	Temperature Rise Doors										
ContraFlam or SwissFlam (60)	Non-Temperature Rise Doors	1"	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in	Not Approved
	Temperature Rise Doors										
ContraFlam or SwissFlam (90)	Non-Temperature Rise Doors	1-1/2"	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in
	Temperature Rise Doors										
Keralite FR_Ultra	Non-Temperature Rise Doors	3/4" (.719-.781)	Yes Cat I & II	Yes	Yes	Not Applicable	Not Applicable	36" wide, 54" high, 1296 sq in	36" wide, 76" high, 1714 sq in	36" wide, 54" high, 1296 sq in	36" wide, 54" high, 1296 sq in
	Temperature Rise Doors										
INSULATED GLASS UNITS (IGU)		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Max size in 20-min std construction**	**Max size in 20-min full-lite construction**	**Max size in 45-min std construction**	**Max size in 45-min full-lite construction**	**Max size in 60-min std construction**	**Max size in 90-min std construction**
Firelite Plus 1" IGU	Non-Temperature Rise Doors	1"	Yes	Yes	Yes	36" wide, 54" high, 1296 sq Inches	36" wide, 87-9/16" high, 2868 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 86-1/2" high, 1714 sq Inches	36" wide, 54" high, 1296 sq Inches	36" wide, 54" high, 1296 sq Inches
	Temperature Rise Doors					Not Applicable	Not Applicable	Not Applicable	Not Applicable	12" wide, 33" high, 100 sq inches	12" wide, 33" high, 100 sq inches

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Fire Rated Glazing
Information Bulletin #447

Date: December 2016

Eggers Industries

Installation:

WIRED GLASS		Thickness Advertized (Actual)	Safety (Impact) Rated	Passes Hose stream Test	Option to Factory Glazing	Installation in 20-min std construction	Installation in 20-min full-lite construction	Installation in 45-min std construction	Installation in 45-min full-lite construction	Installation in 60-min std construction	Installation in 90-min std construction
Superlite I-W	Non-Temperature Rise Doors	5/16" (0.304)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
SAFE-Wire	Non-Temperature Rise Doors	1/4"	Yes	Yes	Yes	Bead or MVP; min stop height is 5/8"	Bead or MVP; min stop height is 3/4"	Bead or MVP; min stop height is 5/8"	Bead or MVP; min stop height is 5/8"	Bead or MVP; min stop height is 5/8"	Bead or MVP; min stop height is 5/8"
	Temperature Rise Doors					Not Applicable				Bead or MVP; min stop height is 5/8"	Bead or MVP; min stop height is 5/8"
Wirelite NT	Non-Temperature Rise Doors	1/4" (0.259)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
FIRE-PROTECTION GLAZING		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Installation in 20-min std construction**	**Installation in 20-min full-lite construction**	**Installation in 45-min std construction**	**Installation in 45-min full-lite construction**	**Installation in 60-min std construction**	**Installation in 90-min std construction**
Firelite NT	Non-Temperature Rise Doors	3/16" (0.201)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
Firelite Plus	Non-Temperature Rise Doors	5/16" (0.350)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
Superlite X-90	Non-Temperature Rise Doors	3/4"	Yes	Yes	Yes	Not Applicable		Metal vision frame	Not Applicable	Metal vision frame	Metal vision frame
	Temperature Rise Doors					Not Applicable			Not Applicable		
Superlite C/S	Non-Temperature Rise Doors	3/16" (0.187)	Yes	Yes	Yes	Woodbead or metal vision frame with stop height of at least 5/8"	Woodbead or metal vision frame with stop height of at least 5/8"	Veneer-wrapped bead or MVP with stop height of at least 5/8"	Intumescent 114 bead or MVP with stop height of at least 5/8"	Veneer-wrapped bead or MVP with stop height of at least 5/8"	Veneer-wrapped bead or MVP with stop height of at least 5/8"
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or MVP with stop height of at	Veneer-wrapped bead or MVP with stop height of at
Pyran Platinum F	Non-Temperature Rise Doors	3/16" (0.194)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
Pyran Platinum L	Non-Temperature Rise Doors	3/8" (0.362)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
Keralite FR-F	Non-Temperature Rise Doors	3/16" (0.201)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
Keralite FR_L	Non-Temperature Rise Doors	5/16" (0.340)	Yes	Yes	Yes	Woodbead or metal vision frame	Woodbead or metal vision frame	Veneer-wrapped bead or metal vision panel	Intumescent 114 Woodbead or metal vision panel	Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
	Temperature Rise Doors					Not Applicable				Veneer-wrapped bead or metal vision panel	Veneer-wrapped bead or metal vision panel
PyroStop (45, 60)	Non-Temperature Rise Doors	3/4" and 7/8" respectively	Yes Cat I & II	Yes	Yes	Not Applicable		Metal vision frame	Metal vision frame	Metal vision frame	Not Applicable
	Temperature Rise Doors										

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Fire Rated Glazing
Information Bulletin #447

Date: December 2016

Eggers Industries

Installation (continued):

20-MIN CLEAR GLAZING		Thickness	Safety (Impact) Rated	Passes Hose Stream Test	Option to Factory Glazing	Installation in 20-min std construction	Installation in 20-min full-lite construction	Installation in 45-min std construction	Installation in 45-min full-lite construction	Installation in 60-min std construction	Installation in 90-min std construction
PyroSwiss	Non-Temperature Rise Doors	1/4" (.222)	Yes Cat I & II	No	Yes	Woodbead with 3/8" minimum stop height; metal vision frames	Woodbead with 3/8" minimum stop height; metal vision frames	Not Applicable			
	Temperature Rise Doors					Not Applicable					
PyroEdge-20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	Intumescent 200 or 208 woodbead with 1/2" maximum stop height;	Intumescent 200 or 208 woodbead with 1/2" maximum stop height;	Not Applicable			
	Temperature Rise Doors					Not Applicable					
FireSAFE-20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	Anemostat LoPro metal vision frames and 1/8" thick PVC glazing tape	Anemostat LoPro metal vision frames and 1/8" thick PVC glazing tape	Not Applicable			
	Temperature Rise Doors					Not Applicable					
FireGlass 20	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	Woodbead with 5/8" minimum stop height; metal vision frames	Woodbead with 5/8" minimum stop height; metal vision frames	Not Applicable			
	Temperature Rise Doors					Not Applicable					
SuperLite I	Non-Temperature Rise Doors	1/4"	Yes Cat I & II	No	Yes	Woodbead with 5/8" stop height	Woodbead with 5/8" stop height	Not Applicable			
	Temperature Rise Doors					Not Applicable					
Pyrodur	Non-Temperature Rise Doors	0.313	Yes Cat I	No	Yes	Woodbead with 5/8" minimum stop height; metal vision frames	Not Applicable due to Impact Resistance Rating	Not Applicable			
	Temperature Rise Doors					Not Applicable					
FIRE-RESISTIVE GLAZING		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Installation in 20-min std construction**	**Installation in 20-min full-lite construction**	**Installation in 45-min std construction**	**Installation in 45-min full-lite construction**	**Installation in 60-min std construction**	**Installation in 90-min std construction**
SuperLite II-XL (45, 60, 90)	Non-Temperature Rise Doors	3/4", 1-1/8" and 1-1/2" respectively	Yes Cat I & II	Yes	Yes	Not Applicable		Metal vision frame	Metal vision frame	Metal vision frame	Metal vision frame
	Temperature Rise Doors										
PyroStop (90)	Non-Temperature Rise Doors	1-7/16"	Yes Cat I & II	Yes	Yes	Not Applicable					Metal vision frame
	Temperature Rise Doors										
ContraFlam or SwissFlam (45)	Non-Temperature Rise Doors	3/4"	Yes Cat I & II	Yes	Yes	Not Applicable		Metal vision frame	Metal vision frame	Not Applicable	
	Temperature Rise Doors										
ContraFlam or SwissFlam (60)	Non-Temperature Rise Doors	1"	Yes Cat I & II	Yes	Yes	Not Applicable				Metal vision frame	Not Applicable
	Temperature Rise Doors										
ContraFlam or SwissFlam (90)	Non-Temperature Rise Doors	1-1/2"	Yes Cat I & II	Yes	Yes	Not Applicable					Metal vision frame
	Temperature Rise Doors										
Keralite FR_Ultra	Non-Temperature Rise Doors	3/4" (.719-.781)	Yes	Yes	Yes	Not Applicable		Metal vision frame	Metal vision frame	Metal vision frame	Metal vision frame
	Temperature Rise Doors										
INSULATED GLASS UNITS (IGU)		**Thickness**	**Safety (Impact) Rated**	**Passes Hose Stream Test**	**Option to Factory Glazing**	**Installation in 20-min std construction**	**Installation in 20-min full-lite construction**	**Installation in 45-min std construction**	**Installation in 45-min full-lite construction**	**Installation in 60-min std construction**	**Installation in 90-min std construction**
Firelite Plus 1" IGU	Non-Temperature Rise Doors	1"	Yes	Yes	Yes	Metal vision frame	Metal vision frame	Metal vision frame	Metal vision frame	Metal vision frame	Metal vision frame
	Temperature Rise Doors					Not Applicable				Metal vision frame	Metal vision frame

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Fire-Rated doors with a Mullion

Information Bulletin #353

Date: April, 2012

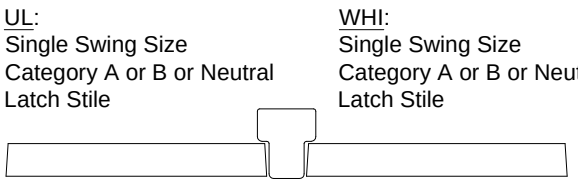
Eggers Industries

The inclusion of a mullion in a door opening can affect the door construction required for the opening. There are two basic types of mullions to be considered. Those located **behind** the doors and those located **between** the doors. The exact shape and dimensions are not important. The basic question is whether there is metal between the meeting edges of the doors.

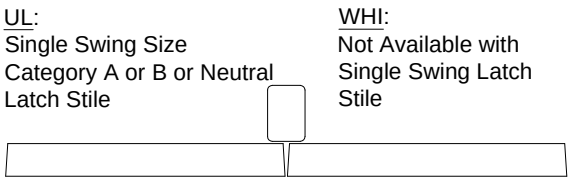
Underwriters Laboratories considers fire rated doors, 20 through 90 minute, as single swing whether the mullion is between or behind the doors. The maximum door size is per our single swing approvals. This applies for applications where both leaves are active, including mortised exits, rim exits, and other single or two point latch options (any single swing latch option).
Warnock Hersey (ITS) considers fire rated doors, 20 through 90 minute, as single swing if the mullion is between the doors. If the mullion is located behind the doors they are still considered a pair. The maximum sizes therefore vary depending on whether the mullion is between the doors or not.

These interpretations apply to neutral pressure, as well as Category A and B positive pressure.
For manufacturing reasons, applications where the mullion is behind the doors will only be offered with a UL label.

These options are summarized in the following drawings:



Mullion Between Doors



Mullion Behind Doors

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Glass Fire and Safety Information

Information Bulletin

No. 392-03-10

Eggers Industries

Eggers glazing policy regarding the markings required on fire and safety rated glazing is compatible with the International Building Code requirements.

The current code considers doors to be hazardous locations in regards to human impact. As a result all doors having lites must be glazed with impact resistant glazing. In addition, the historic exception for wired glass, allowing impact testing per ANSI Z97.1 rather than CPSC 16 CFR, part 1201 criteria, has been eliminated.

Eggers policy is:

1. Where safety rated glazing is used to glaze doors each pane of glazing will bear the safety logo (also referred to as the safety “bug”).
2. Where fire rated glazing is used to glaze doors each pane of glazing will bear both a fire and safety rating logo.

This policy applies to doors that have single or multiple lites. Each separate pane will bear the logo. Where grill work is applied to a single pane, giving a multiple lite appearance, only one logo will be applied.

By code, these logos must be permanent, and typically are either acid-etched or sand-blasted onto the glazing. Where logos are present and the glass is reversible, the doors will be glazed such that this logo will be located in the lower hinge corner of the lite opening. Where the glazing is not reversible (such as textured glass where the texture is specified towards on face or the other the logo will be in a lower corner, but may be on the latch or hinge edge.

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: November, 2011

Eggers Industries

Warnock Hersey and Underwriters Laboratories have clarified the distance from lite cutout to door edge, multiple lites and other hardware cutouts as shown below. The cutout-to-door edge dimensions also apply to bottom rails for all but 45-min full lite constructions, but 10” is the recommended minimum to comply with ADA requirements. These dimensions do not apply to CVR hardware. Refer to info Bulletin 316 for appropriate margins.

Non-Rated		Edge of Lite Cutout to Edge of Door	Edge of Lite Cutout to Edge of Lite Cutout	Edge of Lite Cutout to Nearest Point of Lock Cutout
Particleboard	Non-Rated	5”	5”*	3-5/16”
Stave	Non-Rated	5”	3”	1-1/2”
Structural Composite	Non-Rated	5”	3”	1-1/2”
Agrifiber	Non-Rated	5”	5”	3-5/16”
Acoustical	Non-Rated	5”	5”	5”
Bullet Resistant	Non-Rated	5”	3”	1-1/2”

***** For applications without operable hardware, such as side panels, this margin may be reduced to 3” without voiding the warranty.

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: November, 2011

Eggers Industries

UL		Edge of Lite Cutout to Edge of Door	Edge of Lite Cutout to Edge of Lite Cutout	Edge of Lite Cutout to Nearest Point of Lock Cutout
Particleboard	20-min	5”	5”	3-5/16”
Stave	20-min	5”	3”	1-1/2”
Structural Composite	20-min	5”	3”	1-1/2”
Agrifiber	20-min	5”	5”	3-5/16”
Bullet Resistant	20-min	5”	3”	1-1/2”
Acoustical	All Ratings	5”	5”	5”
Agrifiber	45-min	NA	NA	NA
Particleboard	45-min	NA	NA	NA
Mineral	45-min Full Lite	5-1/2”	5-1/2”	3”
Mineral	45 through 90-min	5-1/2”	5-1/2”	3-1/2”

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: November, 2011

Eggers Industries

WH		Edge of Lite Cutout to Edge of Door	Edge of Lite Cutout to Edge of Lite Cutout	Edge of Lite Cutout to Nearest Point of Lock Cutout
Particleboard	20-min	5”	5”	5”
Stave	20-min	5”	5”	5”
Structural Composite	20-min	5”	5”	1-1/2”
Agrifiber	20-min	5”	5”	5”
Acoustical	All Ratings	5”	5”	5”
Agrifiber	45-min	6”	6”	6”
Particleboard	45-min	6”	6”	6”
Mineral	45-min Full Lite	5-1/4”	5-1/4”	3”
Mineral	45 through 90-min	5-1/4”	5-1/4”	3-1/2”

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: November, 2011

Eggers Industries

Notes:

1. Maximum lite dimensions are based on visible lite; the Minimum dimensions shown above are based on cutouts.
2. The distance between the visible lite to visible lite, visible lite to door edge, and visible lite to other hardware cutouts will vary depending upon the lite frame or bead used.
3. This revision changes the specified criteria from distance to visible lite to distance to the lite cutout. The cutout location is the important factor for the approvals. It does not affect the actual minimum dimensions to the visible lite, but changes the way it is determined.
4. The method of calculating lite location is now the same for both agencies.

Lite to edge of door margins: Lite to edge of door margins may be specified in one of two ways:

- Visible lite to door edge- In this case we have to verify the dimension between the cutout and door edge is acceptable by subtracting the bead height from the visible lite to door edge (cutout to edge of door = visible lite margin specified – bead height).

- Minimum margin – In this case the minimum dimension between the visible lite and the door edge is calculated by adding the bead height to the minimum margins in the tables above (visible lite to edge of door = edge of cutout to edge of door + bead height)

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5-Ply Flush Doors
Smoke Barrier Labels

Information Bulletin 267

Date: June, 2011

Eggers Industries

Both the International Building code and the NFPA 101 Life Safety Code make provision for smoke barrier doors. Smoke barrier doors are constructed as fire doors but are unable to bear a true “Fire” label because they do not include latching hardware. While not fire doors, they still require the door construction consistent with the labeled doors on the job, including positive pressure.

To cover these applications, Eggers offers two types of Smoke Barrier label, both of which bear the Warnock Hersey mark. Label #330 is for Category B or Neutral pressure constructions; label #331 is for Category A constructions. The rules governing their sizes and machining options will be the same as those for 20-minute Warnock Hersey doors.

Because the constructions have passed the fire endurance portion of the test both of these labels bear the “S” mark indicating their compliance with the air leakage requirements of UL1784 and UBC 7-2 (1997) part 2.

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Top Latching Hardware Limitations

Information Bulletin

No. 433-06-08

Eggers Industries

Top latching hardware, when used on 20-90 minute labeled or stamped doors (UL or WH), is only allowed on pairs. This hardware cannot be used on single swing applications or where the pairs include a mullion between the doors. This includes any hardware that has only one self latching mechanism located at the top of the door. It does not include full rod hardware, rim exits or mortised exit hardware.

Top latching hardware, also referred to as less bottom rod, has only been evaluated for applications where the bottom of both leaves of a pair can move together. A fire test would be required to insure the door movement, during a fire, relative to a fixed frame or mullion would meet the deflection criteria of the fire test method.

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Von Duprin Concealed Vertical Rod Hardware

Information Bulletin

No. 430-04-08

Eggers Industries

Eggers is required to machine labeled doors in accordance with the hardware manufacturer's templates. In the case of the Von Duprin 3347, 3547 and 5547 concealed vertical rods the template calls for the stile to be attached after the hardware is installed and adjusted. When Eggers discontinued the use of 5" metal edges the option to field install a filler strip was removed. Von Duprin says the 3347A and 3547A versions can be installed in a pre-channeled edge, but they have not updated their template to reflect this. In addition, the 5547 device includes an inspection plate for adjustment and can be installed in a pre-channeled edge.

Eggers will provide labeled doors machined for the 3347A, 3547A or 5547 if the customer acknowledges the fact that the door will only be provided with a pre-channel edge and no 5" metal edge. A copy of a form letter (Von Duprin 33, 35 and 55 Series CVRs.doc) that may be used to communicate this to the customer is located in the "Form Letter" folder under Technical Literature on the shared (S) drive.

Note: The 3347 and 3547 (without the "A" suffix) are not available on labeled or construction tagged fire doors.

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Continuous Hinge Applications

Information Bulletin 421

Date: April, 2015

Eggers Industries

Continuous hinges require special prefitting. The issue is complicated by the following three things:

1) Different continuous hinges require different clearance dimensions for the hinges themselves.
2) Some hinge manufacturers recommend 3/16” meeting edge clearance for pairs. Both WDMA I.S.1A and NFPA-80 list the meeting edge clearance for pairs of wood doors as 1/8”.
3) Some of the prefit dimensions shown on the hinge manufacturer’s literature include an “extra” prefit dimension for anticipated frame variation.

The dimensions below are based on the hinge requirement, 1/8” meeting edge clearances, and a 1/32” per leaf allowance for frame irregularities.

Hinge Model	Fire Labeled	Hinge Edge	Single Swing	Standard Swing Pair	DE Pair
ABH A110HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
ABH A240HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
ABH A240LL	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
ABH A500	Up to 90-min	Square	13/32”	11/32"	9/32"
		Beveled	13/32"	11/32"	9/32"
Hagar (Roton) 780-041 HD - Swing Clear	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	N/A	N/A	N/A
Hagar (Roton) 780-111 HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Hagar (Roton) 780-112 HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Hagar (Roton) 780-224 HD and IVES 224HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”

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Continuous Hinge Applications

Information Bulletin 421

Date: April, 2015

Eggers Industries

Hinge Model	Fire Labeled	Hinge Edge	Single Swing	Standard Swing Pair	DE Pair
Hagar 790-900	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	13/32”	11/32”	9/32”
Hagar 790-905	Up to 90-min	Square	7/16”	3/8”	5/16”
		Beveled	N/A	N/A	N/A
Hagar 790-911 - Swing Clear	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	N/A	N/A	N/A
Hagar 790-915	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	N/A	N/A	N/A
Ives 112HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Ives 600/700	Up to 90-min	Square	13/32"	11/32"	9/32"
		Beveled	7/16”	3/8”	5/16”
Ives 705 Without Adjustable Studs	Up to 90-min	Square	17/32"	15/32"	13/32"
		Beveled	9/16"	1/2"	7/16"
Ives 705 Using Adjustable Studs	Up to 90-min	Square	21/32"	19/32"	17/32"
		Beveled	11/16"	5/8"	9/16"
Markar HG305	Up to 90-min	Square	17/32”	15/32”	13/32”
		Beveled	17/32”	15/32”	13/32”
Markar HG315	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
Markar HG326 – Swing Clear	Up to 90-min	Square	17/32”	15/32”	13/32”
		Beveled	17/32”	15/32”	13/32”
Markar HS-103	Non-Label	Square	11/32”	9/32”	7/32”
		Beveled	11/32”	9/32”	7/32”
Markar FM100	Non-Label	Square	17/32”	15/32”	13/32”
		Beveled	17/32”	15/32”	13/32”

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Continuous Hinge Applications

Information Bulletin 421

Date: April, 2015

Eggers Industries

Hinge Model	Fire Labeled	Hinge Edge	Single Swing	Standard Swing Pair	DE Pair
Markar FM200	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
Markar FM300	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
Markar FM-3500	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	15/32”	13/32”	11/32”
McKinney 12HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	17/32”	15/32”	13/32”
McKinney 14HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	17/32”	15/32”	13/32”
McKinney 25HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2”	7/16”	3/8”
McKinney FM300	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
McKinney HG315	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
PBB CG31	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
PBB CH31	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
PBB CH51	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	7/16"	3/8"	5/16"
Pemko CFM 83HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	15/32”	13/32”	11/32”
Pemko SPBFM	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	7/16”	3/8”	5/16"

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Continuous Hinge Applications

Information Bulletin 421

Date: April, 2015

Eggers Industries

Hinge Model	Fire Labeled	Hinge Edge	Single Swing	Standard Swing Pair	DE Pair
Pemko WTFM83	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	17/32”	15/32”	13/32”
Select SL-11 HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Select SL14	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Select SL-18 HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Select SL-24 HD	Up to 90-min	Square	15/32””	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Select SL300	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	15/32”	13/32”	11/32”
Select SL305	Up to 90-min	Square	17/32”	15/32”	13/32”
		Beveled	N/A	N/A	N/A
Stanley 661 & 661HD	Up to 90-min	Square	15/32”	13/32”	11/32”
		Beveled	1/2"	7/16”	3/8”
Stanley 641 & 651	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	27/64"	23/64"	19/64"
Stanley 643 & 653	Up to 90-min	Square	13/32”	11/32”	9/32”
		Beveled	13/32”	11/32”	9/32”
Stanley 646 & 656 Swing Clear	Up to 90-min	Square	5/16"	1/4"	3/16"
		Beveled	N/A	N/A	N/A
Stanley 662 & 662HD	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	1/2"	7/16”	3/8”

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Continuous Hinge Applications

Information Bulletin 421

Date: April, 2015

Eggers Industries

When determining prefit door dimensions for continuous hinge clearances the following wording should be part of the customer acknowledgement, “Prefit sizes for doors with continuous hinges are based on hinge requirement, 1/8” latch or meeting edge clearances and 1/32” per leaf allowance for frame irregularity. Please advise if you wish to request a different prefit clearance”.

Note: If the continuous hinge you are using is not included in this table please either verify that the hinge manufacturer’s dimensions apply to wood/composite doors, or bring it to the technical department to verify and add to the above table.

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Doors with Top & Bottom Pivot Only
Warranty Information

Eggers Industries

No. 425-08-10

Eggers' warranty now covers non-rated doors, 1-3/4" through 2-1/4" thick hung on top and bottom pivots only. This coverage includes Stile & Rail doors as well as flush doors constructed using Particleboard, SCL, Stave Lumber or Agrifiber core. It also includes lead doors constructed with these core types. In addition to regular offset pivot applications, this coverage will now allow center hung doors to carry our full warranty.

This coverage includes applications where a top pivot is used in combination with a floor closer (where the floor closer includes a pivot arm). It is the responsibility of the door specifier to insure the selected hardware is appropriate for the door weight and application, and that both pivots have the same offset. This warranty coverage does not apply for doors that also include molding or appliqués to one face only or have different species or finish on the faces.

This warranty coverage applies to:

Door Type	Maximum Width	Maximum Height
Flush Particle, Agrifiber, and Stave Core	4'	8'
Flush Structural Composite Core	4'	9'
Stile & Rail Doors	4'	8'

Notes:

- This coverage only applies to non-labeled doors. NFPA-80 requires labeled fire doors to have 2 hinges (or pivots) on doors up to 5' tall and an additional hinge (or pivot) for each 30" or fraction thereof.
- Special warranty coverage involving different maximum heights or alternate core types than noted above may apply to OEM accounts or on a job-specific basis.

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: November, 2011

Eggers Industries

Warnock Hersey and Underwriters Laboratories have clarified the distance from lite cutout to door edge, multiple lites and other hardware cutouts as shown below. The cutout-to-door edge dimensions also apply to bottom rails for all but 45-min full lite constructions, but 10” is the recommended minimum to comply with ADA requirements. These dimensions do not apply to CVR hardware. Refer to info Bulletin 316 for appropriate margins.

Non-Rated		Edge of Lite Cutout to Edge of Door	Edge of Lite Cutout to Edge of Lite Cutout	Edge of Lite Cutout to Nearest Point of Lock Cutout
Particleboard	Non-Rated	5”	5”*	3-5/16”
Stave	Non-Rated	5”	3”	1-1/2”
Structural Composite	Non-Rated	5”	3”	1-1/2”
Agrifiber	Non-Rated	5”	5”	3-5/16”
Acoustical	Non-Rated	5”	5”	5”
Bullet Resistant	Non-Rated	5”	3”	1-1/2”

***** For applications without operable hardware, such as side panels, this margin may be reduced to 3” without voiding the warranty.

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: November, 2011

Eggers Industries

UL		Edge of Lite Cutout to Edge of Door	Edge of Lite Cutout to Edge of Lite Cutout	Edge of Lite Cutout to Nearest Point of Lock Cutout
Particleboard	20-min	5”	5”	3-5/16”
Stave	20-min	5”	3”	1-1/2”
Structural Composite	20-min	5”	3”	1-1/2”
Agrifiber	20-min	5”	5”	3-5/16”
Bullet Resistant	20-min	5”	3”	1-1/2”
Acoustical	All Ratings	5”	5”	5”
Agrifiber	45-min	NA	NA	NA
Particleboard	45-min	NA	NA	NA
Mineral	45-min Full Lite	5-1/2”	5-1/2”	3”
Mineral	45 through 90-min	5-1/2”	5-1/2”	3-1/2”

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Lite Cutout Margins on Flush Doors

Information Bulletin 256

Date: November, 2011

Eggers Industries

WH		Edge of Lite Cutout to Edge of Door	Edge of Lite Cutout to Edge of Lite Cutout	Edge of Lite Cutout to Nearest Point of Lock Cutout
Particleboard	20-min	5”	5”	5”
Stave	20-min	5”	5”	5”
Structural Composite	20-min	5”	5”	1-1/2”
Agrifiber	20-min	5”	5”	5”
Acoustical	All Ratings	5”	5”	5”
Agrifiber	45-min	6”	6”	6”
Particleboard	45-min	6”	6”	6”
Mineral	45-min Full Lite	5-1/4”	5-1/4”	3”
Mineral	45 through 90-min	5-1/4”	5-1/4”	3-1/2”

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3. This revision changes the specified criteria from distance to visible lite to distance to the lite cutout. The cutout location is the important factor for the approvals. It does not affect the actual minimum dimensions to the visible lite, but changes the way it is determined.
4. The method of calculating lite location is now the same for both agencies.

Lite to edge of door margins: Lite to edge of door margins may be specified in one of two ways:

- Visible lite to door edge- In this case we have to verify the dimension between the cutout and door edge is acceptable by subtracting the bead height from the visible lite to door edge (cutout to edge of door = visible lite margin specified – bead height).

- Minimum margin – In this case the minimum dimension between the visible lite and the door edge is calculated by adding the bead height to the minimum margins in the tables above (visible lite to edge of door = edge of cutout to edge of door + bead height)

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Information Bulletin

No. 433-06-08

Eggers Industries

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Top latching hardware, also referred to as less bottom rod, has only been evaluated for applications where the bottom of both leaves of a pair can move together. A fire test would be required to insure the door movement, during a fire, relative to a fixed frame or mullion would meet the deflection criteria of the fire test method.

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email: sales@eggersindustries.com

TRANSOMS & SIDE PANELS

Type	Core	Rating	Application	MAX SIZE Width w/ Bar	Width w/o Bar	Height Door	Height Tran	Height Straight Cut with Transom Bar, 2" Minimum	Height Straight Cut without Transom Bar	Height 1/2" Rabbetted Cut without Transom Bar	Spring Bolts	Special Notes
Fire Rated Doors	Mineral Core	90 Min	Single Swing	+/- pressure: 48"	+/- pressure: 42"	Max door size	48"	+/- pressure: 132"	+/- pressure: 120"		Steel springbolts required	B,A
			Std Pairs		Not available				Not Available			C,A
			DE Pair									
		60 Min	Single Swing		+/- pressure: 42"				+/- pressure: 120"			A
			Std Pairs		Not available				Not Available			C,A
			DE Pair									
		45 Min	Single Swing		+/- pressure: 42"				+/- pressure: 120"			
			Std Pairs		Not available				Not Available			C,A
			DE Pair									
	SCL	20 Min	Single Swing	+/- pressure: 96"	+/- pressure: 48"	Max door size	48"	+/- pressure: 168"	+/- pressure: 144"		Steel springbolts required	A
			Std Pairs		96"		36"					A
			DE Pair		Not available		NA		Not available			A
	Particle, Stave, Agrifiber		Single Swing		+/- pressure: 48"		48"		+/- pressure: 144"			A
			Std Pairs		96"		36"					A
			DE Pair		Not available		NA		Not available			A
	Acoustic Cores		Single Swing		+/- pressure category "B" only: 48"		48"		Not available	+/- pressure category "B" only: 144"		D
			Std Pairs		Not available		NA		Not available			
			DE Pair									
	Bullet Resistant		Single Swing		+/- pressure category "B" only: 48"		48"		Not available	+/- pressure category "B" only: 144"		D
			Std Pairs		Not available		NA		Not available			
			DE Pair									
	Lead Lined		Single Swing		+/- pressure: 48"		48"		+/- pressure: 144"			
			Std Pairs		Not available		NA		Not available			D
			DE Pair									
Non-Fire-Rated Doors	SCL	None		48"	48"	Max door size	48"	168"	168"		Not Required	A
	Particle, Stave, Agrifiber											A
	Acoustic Cores											
	Bullet Resistant											
	Lead Lined											
	Hollow Core											

Special Notes:

- **A** All door/transom combination are pressed together unless they are greater than 120" in length or pairs with a full width transom.
- **B** See attached link to "transom drawing"
- **C** Transoms over pairs of doors 45-90-minute need to be separated by 2" transom bar in both width and height. Full width transoms can be provided for use over pairs when a horizonal transom bar only is used based on the frame approval. We can label the doors, but the transom would be provided with a letter or construction tag.
- **D** Can be labelled for both Negative and Positive Pressure category "B" only.
- **E** Bottom rails of transons, rabbetted or flat cut, must be veneered on 20-90 minute. They must be requested as veneered or matching lumber for non-rated.
- **F** Rabbett cut meeting rails are not compatible with CVR hardware.
- **G**

Eggers Industries

Von Duprin Concealed Vertical Rod Hardware

Information Bulletin

No. 430-04-08

Eggers Industries

Eggers is required to machine labeled doors in accordance with the hardware manufacturer's templates. In the case of the Von Duprin 3347, 3547 and 5547 concealed vertical rods the template calls for the stile to be attached after the hardware is installed and adjusted. When Eggers discontinued the use of 5" metal edges the option to field install a filler strip was removed. Von Duprin says the 3347A and 3547A versions can be installed in a pre-channeled edge, but they have not updated their template to reflect this. In addition, the 5547 device includes an inspection plate for adjustment and can be installed in a pre-channeled edge.

Eggers will provide labeled doors machined for the 3347A, 3547A or 5547 if the customer acknowledges the fact that the door will only be provided with a pre-channel edge and no 5" metal edge. A copy of a form letter (Von Duprin 33, 35 and 55 Series CVRs.doc) that may be used to communicate this to the customer is located in the "Form Letter" folder under Technical Literature on the shared (S) drive.

Note: The 3347 and 3547 (without the "A" suffix) are not available on labeled or construction tagged fire doors.

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Care, Handling, and Maintenance

Installation Instruction 101

Date: September 2017

Eggers Industries

The information included in this guideline is presented to help maintain your high quality wood doors. It includes the same basic information published by the Window and Door Manufacturers Association in Industry Standard I.S.-1A, as well as additional instructions specific to maintaining specialty doors.

STORAGE AND HANDLING

1. Store doors flat on a level surface in a dry, well-ventilated building. Doors should be kept at least 4 in. (102 mm) off the floor and should have protective coverings under the bottom door and over the top. Covering should protect doors from dirt, water, and abuse but allow for air circulation under and around the stack.
2. Avoid exposure of interior doors to direct sunlight. Certain species (e.g., cherry, mahogany, walnut, and teak) are more susceptible to discoloration if exposed to sunlight or some forms of artificial light.
3. Do not subject interior doors to extremes of heat and/or humidity. Do not allow doors to come in contact with water. Buildings where humidity and temperature are controlled provide the best storage facilities (recommended conditions 25%-55% RH and 50°F-90°F (10°C to 32°C).
4. Do not install doors in buildings that have wet plaster or cement. Do not store doors in buildings with excessive moisture content – HVAC systems should be operating and balanced.
5. Doors should always be handled with clean dry hands or while wearing clean dry gloves.
6. Doors should be lifted and carried when being moved, not dragged across one another.

FINISHING

Eggers recommends factory finishing to insure the most durable surface and uniform appearance. Factory finishing will also slow the response to changes in humidity. The following points provide guidance for doors being field finished.

1. Wood is hygroscopic and dimensionally influenced by changes in moisture content caused by changes within its surrounding environment. To assure uniform moisture exposure and dimensional control, all surfaces must be finished equally.
2. Doors should not be considered ready for finishing when initially received. Before finishing, remove all handling marks, raised grain, scuffs, burnishes and other undesirable blemishes by block sanding all surfaces in a horizontal position with 150 or 180-grit sandpaper. Sanding of the overall surface will be required to open the veneer grain to receive a field applied finish evenly. To avoid cross grain scratches, sand with the grain.
3. Certain species of wood, particularly oak, may contain extractives which react unfavorably with foreign materials in the finishing system. Do not use steel wool on bare wood, rusty containers or any other contaminate in the finishing system.

4. A thinned coat of sanding sealer should be applied prior to staining to promote a uniform appearance and avoid sharp contrasts in color or a blotchy appearance. Eggers will not be responsible for the final appearance of field-finished doors. It is expected that the painting contractor will make adjustments as needed to achieve desired results.
5. The top and bottom rails are sealed at the factory. All other exposed, unfinished wood surfaces should be finished. Cutouts for hardware in exterior doors and doors located adjacent to areas where high moisture is expected should be sealed prior to installation of hardware.
6. Dark colored finishes should be avoided on all surfaces if the door is exposed to direct sunlight, in order to reduce the chance of warping or veneer checking.
7. Water-based coatings on unfinished wood may cause veneer splits, highlighted joints and raised wood grain. If used on exterior doors, the coating should be an exterior grade product. When installed in exterior applications, doors must be properly sealed and adequately protected from the elements. Refer to Eggers' warranty for protection requirements.
8. Be sure the door surface being finished is satisfactory in both smoothness and color after each coat. Allow adequate drying time between coats. Desired results are best achieved by following the finish manufacturer's recommendations.
9. Certain wood fire doors have fire retardant salts impregnated into various wood components. Lightly sand treated wood before finishing to remove any surface salt that may be present.

INSTALLATION

1. Eggers recommends factory machining of all doors to insure proper machining tolerances. All labeled doors are required to be machined under licensed inspection service by NFPA 80.
2. The utility or structural strength of the doors must not be impaired when fitting to the opening, in applying hardware, in preparing for lites, louvers, plant-ons or other detailing.
3. The general rule is to use two hinges for solid core doors up to 60 in. (1524 mm) in height, and an additional hinge for every 30 in. (762 mm) or fraction thereof. This matches the requirements for installing fire doors. Refer to Eggers warranty and approvals for special provisions. Consult hinge or pivot hardware manufacturer with regard to weight and size of hinges or pivots required.
4. The maximum clearance between the top, hinge edge and lock edge to the frame and meeting edge of pairs of doors, is 1/8 in. (3.2 mm). NFPA 80 allows a tolerance of +0 and -1/16″ to this dimension.
5. All hardware locations, preparations and methods of attachment must be appropriate for the specific door construction.
6. When lite or louver cutouts exist in exterior doors, they must be protected in order to prevent water from entering the door core.
7. Pilot holes must be drilled for all screws that act as hardware attachments. Full threaded screws should be used for fastening hardware to non-rated doors and are required on fire-rated doors. Eggers does not warrant the use of self-tapping or combination (wood/metal) screws for the attachment of hardware.

8. In fitting non-rated doors for height, do not trim top or bottom edge by more than 3/4 in. (20 mm) unless accommodated by additional blocking. Trimming of fire-rated doors must be in accordance with NFPA 80.
9. Doors and door frames should be installed plumb, square and level.

CLEANING AND TOUCHUP

1. Inspect all wood doors prior to hanging them on the job. Repair noticeable marks or defects that may have resulted from improper storage and handling.
2. Field repairs and touchups are the responsibility of the installing contractor upon completion of initial installation. Field touchup shall include the filling of exposed nail or screw holes, re-finishing of raw surfaces resulting from job fitting, repair of job inflicted scratches and mars and final cleaning of finished surfaces.
3. When cleaning door surfaces, use a non-abrasive commercial cleaner designed for cleaning wood door or paneling surfaces, that does not leave a film residue that would build up or affect the surface gloss of the door finish. Refer to Eggers' eiDoor Maintenance information bulletin for vinyl door requirements.

GENERAL ADJUSTMENT AND MAINTENANCE

1. Insure that all doors swing freely and do not bind in their frame. Adjust the finish hardware for proper alignment, smooth operation and proper latching without unnecessary force or excessive clearance.
2. Periodically inspect all doors for wear, damage and natural deterioration.
3. Periodically inspect and adjust all hardware to insure that it continues to function as it was originally intended.
4. Finishes on exterior doors may deteriorate due to exposure to the environment. See Eggers' warranty for refinishing requirements.

SPECIFIC ADJUSTMENT AND MAINTENANCE FOR ACOUSTIC DOORS

1. Fixed seals should be routinely wiped clean and inspected for damage. Components that are damaged or otherwise fail to provide a continuous seal between the door surface and fixed elements of the assembly should be replaced. Seals may be wiped with a silicone coated cloth to help reduce opening and closing friction.
2. Operational seals such as automatic door bottoms should be routinely wiped clean and inspected for damage. Damaged seals should be replaced. These components need to be checked for proper operation to insure they seal when the door is closed and retract when the door is opened to prevent wear or damage. Seals may require periodic adjustment, per the hardware manufacturer's instructions.
3. Extra attention should be given to the hinging, closing and latching hardware. Tighten or shim hinges, adjust closures, and adjust latch strikes as required to insure the door remains squarely in the opening and makes a uniform continuous contact with the acoustic seals.

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INSTALLATION INSTRUCTIONS
- CONTENTS -

Pages	Subject Covered
2	General Description
3	20 Minute Applications (Single Swing and Pairs)
4	45-90 Minute Applications (Single Swing and Pairs)
5	Dutch Doors and Door & Transom Applications
6	Auxiliary Fire Latches
7	UL Fire Label Information
8	Warnock Hersey Fire Label Information

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POSITIVE PRESSURE INSTALLATION INSTRUCTIONS

Retain these instructions. They will be required by the local code official or authority having jurisdiction (AHJ) to determine if the wood fire doors have been properly installed.

These instructions are required for the installation of fire doors that fall under the jurisdiction of building codes, including the International Building Code (IBC), which requires side hinged fire doors to meet positive pressure test methods.

These instructions cover the two parts of positive pressure testing, (1) fire resistance and (2) smoke control. All doors required to meet positive pressure must meet the specified fire resistance. The application and code determine if smoke control is also required. A brief description of each part, and the typical method of addressing it, are given below.

Part 1 – Fire Resistance:
Fire resistance requires the doors to pass the criteria of the positive pressure fire test method such as UL 10C or NFPA 252 (where the neutral plane is located at 40" above the sill). Doors that meet the fire resistance are designated as either Category A or Category B as described below. As seen in the descriptions, this designation indicates job-site actions required during the door installation.

CATEGORY "A": The door does not require any additional edge sealing system to meet fire resistance. This designation indicates the door has been specially manufactured to meet fire resistance, or has had the required edge sealing systems pre-installed in the door by the door labeler.

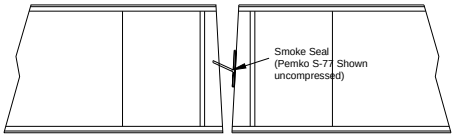
CATEGORY "B": The door requires additional edge sealing to meet fire resistance. This designation indicates the door will not meet fire resistance without the field application of an edge sealing material. This may involve an intumescent material, gasketing material, or combination of both.

Part 2 – Smoke Control:
Smoke control requires the doors to meet the air leakage criteria of UL 1784 or NFPA 105. This requirement is typically met by field application of a listed Category H gasketing material, indicating it has been evaluated for positive pressure. In some applications specific gasketing material may provide both the fire resistant edge seal and smoke control. The systems detailed in the following instructions are the systems provided with the doors if supplied by Eggers Industries.

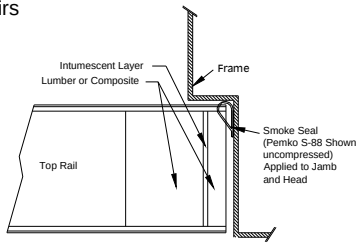
POSITIVE PRESSURE INSTALLATION INSTRUCTIONS
20 MINUTE APPLICATIONS

Category A

Meeting Edges of Pairs



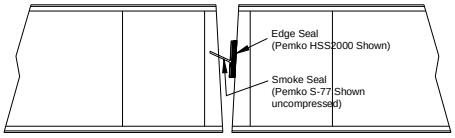
Singles and Hinge Edges of Pairs



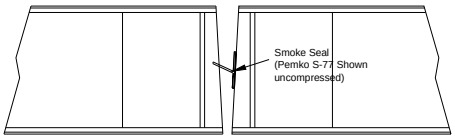
The smoke seal can be left out if smoke control ("S") is not required for Category A constructions.

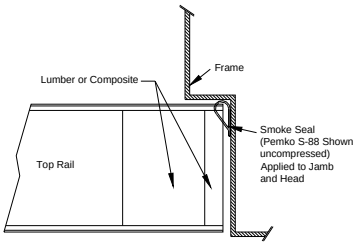
Category B

Meeting Edges of Pairs (Category B)



Meeting Edges of Pairs (Category A)





Singles and Hinge Edges of Pairs

The meeting edge gasketing can be left out if smoke control ("S") is not required. The frame gasketing is always required for Category B constructions.

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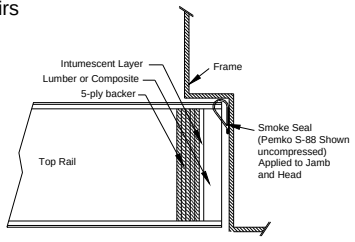
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POSITIVE PRESSURE INSTALLATION INSTRUCTIONS
45 -90 MINUTE APPLICATIONS

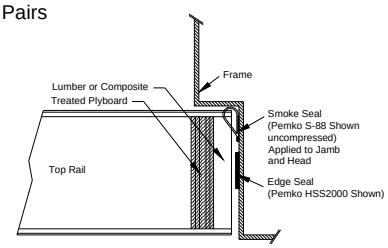
Category A

Singles and Hinge Edges of Pairs



Category B

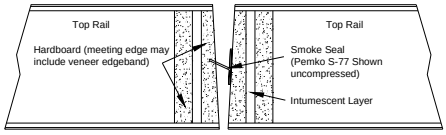
Singles and Hinge Edges of Pairs



The smoke seal can be left out if smoke control ("S") is not required.

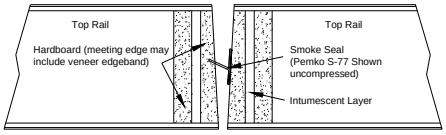
Category A

Meeting Edges of Pairs

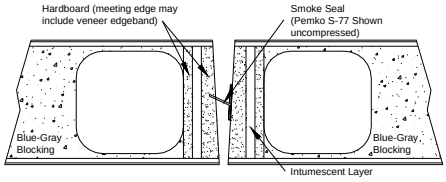


Full or partial height metal edges optional over the edges without additional intumescent

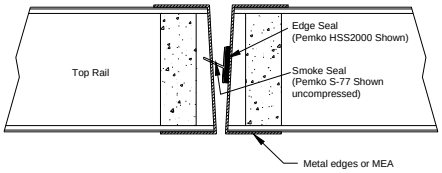
Category B



Full or partial height metal edges optional over the edges without additional intumescent



CVR applications (latch machining will vary)



The meeting edge gasketing can be left out if smoke control ("S") is not required.

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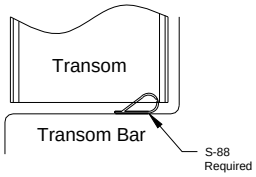
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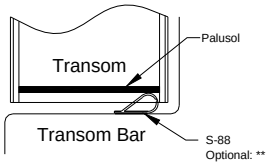
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POSITIVE PRESSURE INSTALLATION INSTRUCTIONS DOOR/TRANSOM COMBINATIONS AND DUTCH DOORS

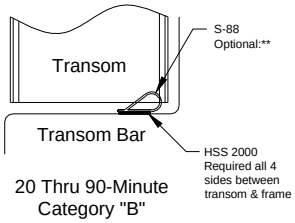
STRAIGHT CUT WITH HORIZONTAL TRANSOM BAR



20-Minute
Category "B"

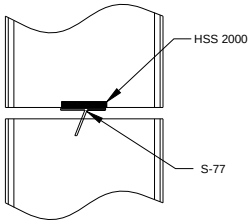


20 Thru 90-Minute
Category "A"

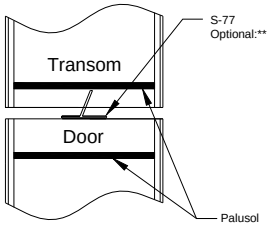


20 Thru 90-Minute
Category "B"

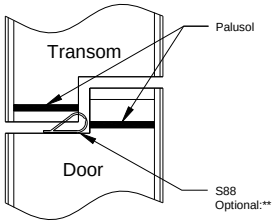
Category "A"



20-Minute
Dutch Door

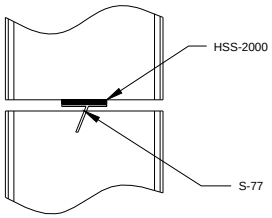


20 Thru 90-Minute
Straight Cut
Door & Transom

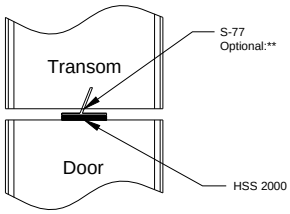


20 Thru 90-Minute
Rabbetted
Door & Transom

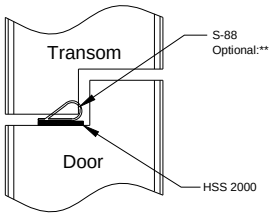
Category "B"



20-Minute
Dutch Door



20 Thru 90-Minute
Straight Cut
Door & Transom



20 Thru 90-Minute
Rabbetted
Door & Transom

** Smoke seal is required by code for "S" label.

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Fax: 920.793.2958

Flush Doors

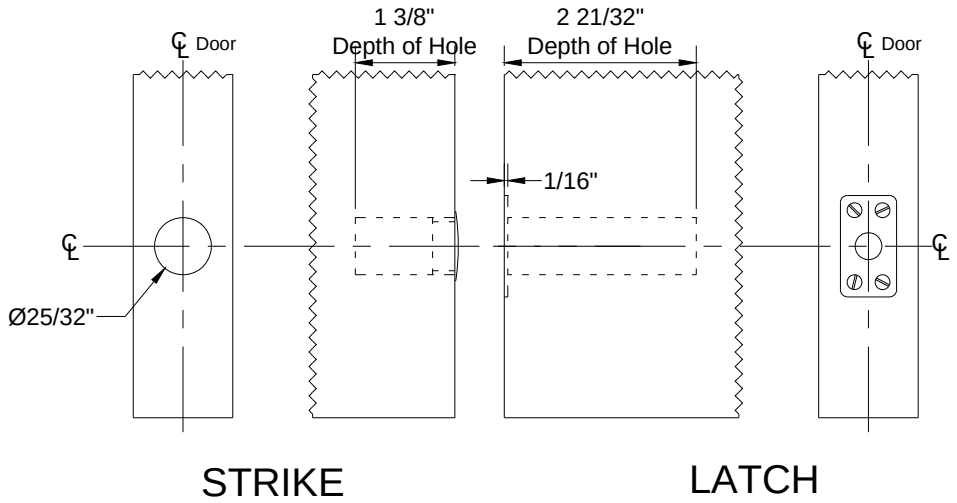
Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces, Custom Wood Products, Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.849.0444

POSITIVE PRESSURE INSTALLATION INSTRUCTIONS

AUXILIARY FIRE LATCH



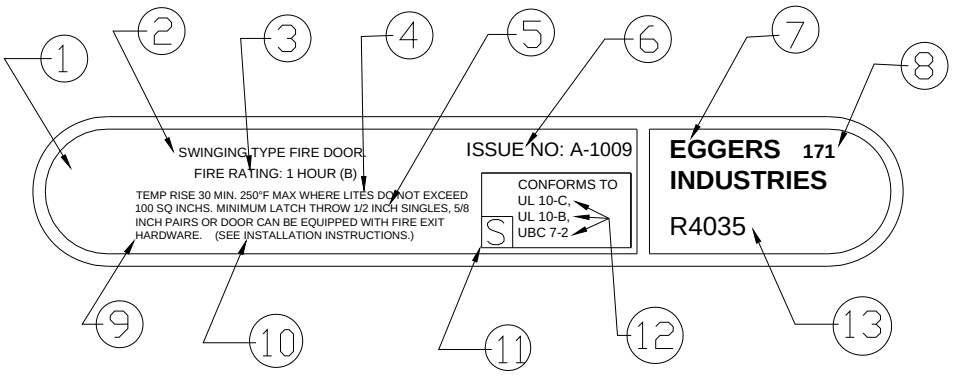
Several options are approved in our fire door procedures allowing auxiliary fire latches to be used in place of, or in addition to, bottom latching flush bolts, surface vertical rods, or concealed vertical rods. Where approved the fire door will be machined for the required fire latches.

The required latches are shipped in an accessory pack along with the doors, and must be installed to insure the fire protection rating. When the fire latches are required between the meeting stiles of pair doors the latch will be pre-machined in one door and the strike in the other door. Where the latch is required between the rail and floor, rail and frame header, or stile and frame jamb a corresponding strike must be machined in that surface opposite the fire latch. The strike hole should be covered with the plastic cap provided. Alternately, a dust proof strike of equal diameter may be used.

Note: Some hardware is furnished with its own auxiliary fire latches, and recommended fire latch locations. Where those locations or latch sizes vary from the door machining, the door machining takes precedence, and the hardware supplied with the door is to be used.

POSITIVE PRESSURE INSTALLATION INSTRUCTIONS

INFORMATION FOUND ON AN UNDERWRITERS LABORATORY LABEL



1. UL CLASSIFIED MARKING - Authorized mark verifying approval of label content
2. UL CATEGORY - Indicates product type
3. UL FIRE RATING - Hourly approval
4. TEMPERATURE RISE RATING - indicates the maximum temperature of the door face
5. MINIMUM LATCH THROW REQUIRED ON LOCK/LATCH.
6. MANUFACTURERS PERMANENT ISSUE NUMBER - This UL issued number indicates the label category. It replaces the earlier design using sequencial numbering.
7. MANUFACTURES NAME.
8. MANUFACTURES PART NUMBER.
9. STATES IF THE DOOR IS ELIGIBLE FOR FIRE EXIT HARDWARE.
10. REFERENCE TO INSTALLATION INSTRUCTIONS - Per code requirement, a packet of instructions are shipped with each fire door order. these are to aid the installer and are to be retained for the Authority Having Jurisdiction (AHJ) to use in determining code compliamce.
11. "S" MARK - Indicates the opening will meet smoke control requirements when gasketed per the installation instructions.
12. CONFORMANCE - Identifies the standard test methods the door has been evaluated to.
13. UL FILE NUMBER - The UL file established to document manufacturing approvals.

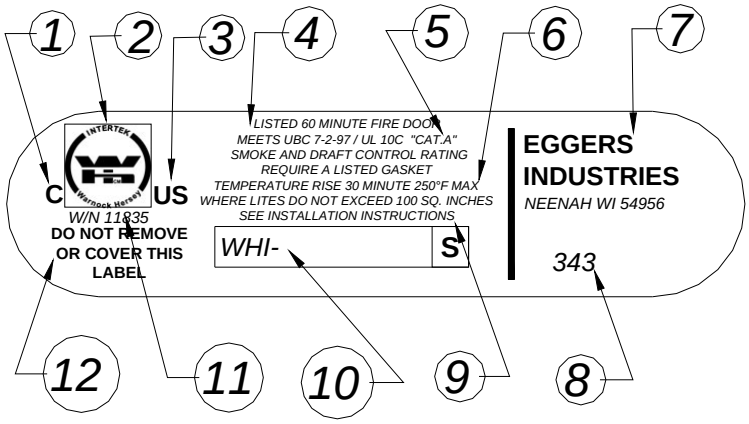
Eggers Industries
www.eggersindustries.com
sales@eggersindustries.com

Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.849.0444

INFORMATION FOUND ON A WARNOCK HERSEY LABEL



1. *Country identifier "C" for Canada and Hose Stream.*
2. *Warnock Hersey Certification Mark.*
3. *Country identifier "US" for United States.*
4. *LISTED, Fire Rating & Category "FIRE DOOR".*
5. *Positive Pressure & Smoke and Draft Control.*
6. *Limitation if a Temperature Rise door is required.*
7. *Listee's name and location.*
8. *Manufactures part number.*
9. *Due to changes in fire codes a set of Installation Instructions are sent with each order of fire doors. These instructions are to aid the authority having jurisdicion (AHJ) in determining if the opening is in code compliance.*
10. *Serial Number.*
11. *Intertek part number.*
12. *DO NOT REMOVE OR COVER THIS LABEL.*

Eggers Industries
www.eggersindustries.com
sales@eggersindustries.com

Stile and Rail Doors, Door Frames, Plywood Veneered Components

Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

Flush Doors

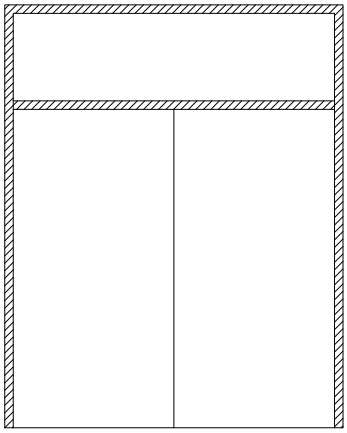
Neenah Division
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Architectural Veneer Faces, Custom Wood Products, Plywood

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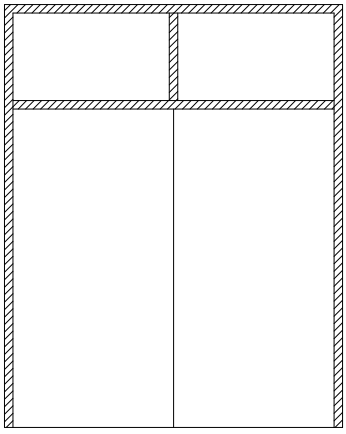
This bulletin addresses construction and installation details.
See product catalog for current sizes available.

Labeling



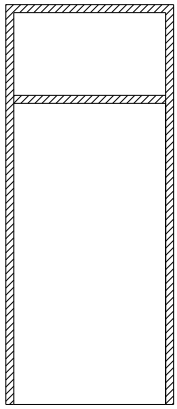
Pair doors with a full-width transom, separated by a transom bar:

1. Doors may be rated 45 thru 90 minutes. Transom can be construction tagged but not labeled.
2. 20-Minute full width transom can be labeled by UL only with or without a transom bar also can be rabbetted.
3. Available in neutral pressure or positive pressure Cat A or Cat B.



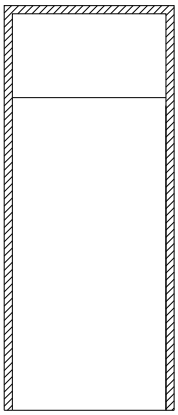
Pair doors with a split transom; doors and transoms separated by a transom bar:

1. Both the doors and transoms may be labeled for 20 thru 90 minutes.
2. Available in neutral pressure or positive pressure Cat A or Cat B.



Single door and transom separated by a transom bar:

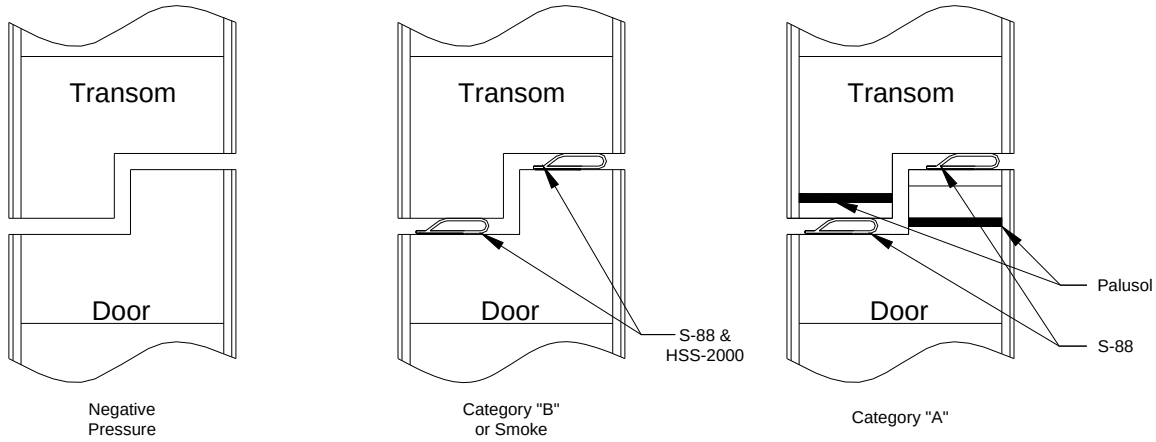
1. Both the doors and transoms may be labeled for 20 thru 90 minutes.
2. Available in neutral pressure or positive pressure Cat A or Cat B.



Rabbeted single door and transom:

1. Both the doors and transoms may be labeled for 20 thru 90 minutes.
2. Available in neutral pressure or positive pressure Cat A or Cat B.
3. When core is other than SCL and the closer will be screw attached to the transom, the transom requires a 5” bottom rail or 5” bottom blocking.

Gasketing



Clearances

	+ Pressure (A or B)	Non-Rated and Neutral Pressure
Transom with Transom Bar	1/4" width, 1/4" height	1/8" width, 1/8" height
Flat Cut Transom no Transom Bar	1/4" width, 1/8" height*	1/8" width, 1/16" height*
Rabbetted Cut Transom no Transom Bar	1/4" width, 1/8" height* (plus 1/2" for the rabbet)	1/8" width, 1/16" height* (plus 1/2" for the rabbet)

*The height clearance is for the transom to frame, the clearance between the door and transom are accounted for in the door trimming.

Lites in Labeled Transoms

1. Available with UL labels only for 20-90 minutes.
2. 20-minute transoms must have 5” from edge of door to edge of cutout.
3. 45, 60, 90 minute transoms must have 5 ½” from cutout to edge of door.
4. You could have multiple lites but margins must be adhered to.
5. Maximum height and square inches must be adhered to.
6. Any lite kit wood beads, veneered label beads, MVP’s can be used with the same restrictions as in doors.

Applied Molding on Labeled Transoms

1. Available with UL only for 20-90 minutes.
2. Untreated wood 1 ½” high maximum x 6” wide maximum x varying lengths.
3. No maximum area of coverage.
4. If the transom has lites, the molding can cover the bead. In this case the transoms would be required to be factory glazed.

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Chemical or Common Name **CAS #**	**%**	**Exposure Limits**	
Calcium Silicate CAS #1344-95-2	51-73	OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA	15mg/m^3 (a) 5mg/m^3 (b) 10mg/m^3 (c)
Inert Ingredients • Proprietary CAS # Proprietary	6-9	OSHA PEL-TWA OSHA PEL-TWA ACGIH TLB-TWA	15mg/m^3 (a) 0.1mg/m^3 (b) 0.1mg/m^3 (d)
Wood CAS # None	4-8	ACGIH TLV-TWA OSHA PEL-TWA	1mg/m^3 (e) 2.5mg/m^3 (f)
Resin Solids CAS # None	<1	None Established	
Composite Material • Proprietary CAS # Proprietary	0-15	OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV OSHA PEL-TWA ACGIH TLV-TWA OSHA PEL-TWA ACGIH TLV-TWA	15mg/m^3 (a) 5mg/m^3 (b) 10mg/m^3 (c) 0.1mg/m^3 (b) 0.1mg/m^3 (b) 5mg/m^3 (a) 10mg/m^3 (a)
Door Faces • Wood CAS # None • Paper (cellulose) CAS #9004-34-6 • Plastic CAS # None	17	See Above OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA	15mg/m^3 (a) 5mg/m^3 (b) 10mg/m^3 (a) 15mg/m^3 (a) 5mg/m^3 (b) 10mg/m^3 (a)

(a) total dust
(b) respirable dust
(c) total dust containing no asbestos and <1% crystalline silica
(d) respirable fraction containing respirable quartz
(e) selected hardwood total dust (beech, oak, others)
(f) western red cedar total dust

Based on 1989 OSHA Permissible Exposure Limits (PEL)

Note: Neither calcium silicate nor inert ingredients (complex metal silicates, etc.) contain any asbestos. Free silica (quartz) may be present in 1-2% by weight.

Appearance and Odor: Doors with a variety of grain patterns and hues. The products have a slight aromatic odor. Wood component may contain alder, ash, aspen, basswood, beech, birch, bubinga, cherry, chestnut, cottonwood, cypress, elm, fir, gum, hemlock, hickory, koa, mahogany (true or false), mansonia, maple, oak (red or white), pine, poplar, spruce, teak and/or walnut.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (1 atm)	NAP
Vapor Pressure (mm Hg)	NAP
Vapor Density (Air=1; 1 atm)	NAP
Specific Gravity (H_2O=1)	0.297 (Mineral Core) 0.40-0.80 (Wood)
Melting Point	NAP
Evaporation Rate (Butyl Acetate=1)	NAP
Solubility in Water (% by weight)	<0.1%
% Volatile by Volume	0

FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): NAP
Flammable Limits:
LEL: See below under "Unusual Fire and Explosion Hazards"
UEL: NAP
Extinguishing Media: Water, carbon dioxide, sand, dry chemical
Autoignition Temperature (F or C): 400°F - 500°F (204°C - 260°C) - Wood
Special Firefighting Procedures: None
Unusual Fire and Explosion Hazards: Depending on moisture content and--more importantly—particle diameter, wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts.

REACTIVITY DATA

Stability: ( ) Unstable (X) Stable
Conditions to Avoid: NAP
Incompatibility (Materials to Avoid):
Wood Components: Avoid contact with oxidizing agents. Avoid open flame and areas of high radiant heat flux.
Material Core Components: ammonium salts (sulfates, nitrates, phosphates or halides), in the presence of water, react with mineral core to release small amounts of ammonium gas.

Hazardous Decomposition or By-Products:
Wood Components: Depending on moisture content, availability of oxygen and temperature, thermal decomposition products include carbon monoxide, carbon dioxide, water, various aldehydes (both aliphatic and aromatic), tars and carbon.
Hazardous Polymerization: ( ) May Occur (X) Will Not Occur

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Not applicable for product in purchased form. Dust generated from sawing, sanding, drilling or routing of this product may be vacuumed or shoveled after wetting for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA approved respirator and goggles where ventilation is not possible.

Waste Disposal Method: Dry land disposal is acceptable in most states if disposed of or discarded in its purchased form. It is, however, the user's responsibility to determine at the time of disposal whether their product meets RCRA criteria for hazardous waste. Follow applicable federal, state and local regulations.

Precautions to be Taken in Handling and Storage: No special handling precautions are required for product in purchased form. Keep in cool, dry place away from open flame and areas of radiant heat flux. Store in well-ventilated area.

Other Precautions: A NIOSH/MSHA approved respirator and goggles should be worn when the allowable exposure limits may be exceeded.

HEALTH HAZARD DATA

Primary Health Hazards: The primary health hazards posed by this product are thought to be due to exposure to dust generated from sawing, sanding, drilling or routing of this product.

Primary Route(s) of Exposure:

( ) Ingestion
(X) Skin (Dust)
(X) Inhalation (Dust)

Acute Health Hazards: *Signs and Symptoms of Exposure—Emergency and First Aid Procedures.*

- INGESTION: Not applicable under normal use.
- EYE CONTACT: Dust may cause mechanical irritation. Treat dust in eye as a foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.
- SKIN CONTACT: Wood dust(s) of certain species may elicit allergic contact dermatitis in sensitized individuals, as well as mechanical irritation resulting in hives. Get medical help if rash, irritation, or dermatitis persists.
- SKIN ABSORPTION: Not know to occur with normal use.
- INHALATION: High concentrations of dust may cause unpleasant deposit/obstruction in the nasal passages, resulting in runny nose, dry cough and/or sneezing. Remove to fresh air. Get medical help if persistent irritation, severe coughing or breathing difficulty occurs.

Medical Conditions Generally Aggravated by Exposure: Dust may aggravate preexisting respiratory conditions or allergies.

Chronic Health Hazards: Wood dust(s), depending on the species, may cause allergic contact dermatitis with prolonged, repetitive contact, and respiratory sensitization after prolonged exposure to elevated dust levels. Long-term inhalation of silica dust may cause lung injury or disease (silicosis)).

Carcinogenicity Listing:

(X)	NTP	Crystalline silica
(X)	IARC Monographs	Crystalline silica
( )	OSHA Regulated	

Wood dust has been alleged to cause nasal/paranasal sinus cancer (certain European hardwoods: oak and beech).

Note: The IARC (International Agency for Research on Cancer) has categorized crystalline silica as a 2A carcinogen, meaning: (1) there is sufficient evidence for the carcinogenicity to experimental animals, and (2) there is limited evidence of the carcinogenicity to humans. The National Toxicology Program (NTP) has reported crystalline silica is reasonably anticipated to be a carcinogen, meaning there is limited evidence of carcinogenicity from studies in humans or sufficient evidence of carcinogenicity from studies in experimental animals.

CONTROL MEASURES

Personal Protective Equipment:

- RESPIRATORY PROTECTION: Not applicable for product in purchased form. A NOSH/MSHA approved respirator is recommended when allowable exposure limits may be exceeded.
- PROTECTIVE GLOVES: Not required. However, cloth, canvas or leather gloves are recommended to minimize potential mechanical irritation from handling product.
- EYE PROTECTION: Not applicable for product in purchased form. Goggles or safety glasses are recommended when machining this product.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
- WORK/HYGIENE PRACTICES: Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation. Minimize blowdown or other practices that generate high airborne-dust concentrations.

Ventilation:

- LOCAL EXHAUST: Provide local exhaust as needed so that exposure limits are met.
- MECHANICAL (GENERAL): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.
- SPECIAL: Self-contained breathing apparatus (SCBA) is recommended when fighting fire.
- OTHER: NAP.

TRANSPORATATION DATA:

DOT Proper Shipping Name: Not regulated.
Hazard Class/Division Number:
ID Number:
Packing Group:
Label/Placard Required:
DOT Hazardous Substance:

USER'S RESPONSIBILITY:

The information contained in this Material Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources believed to be accurate or otherwise technically correct. It is the user's responsibility to determine if this information is suitable for their applications and to follow safety precautions as may be necessary. The user has the responsibility to make sure that this sheet is the most up-to-date issue.

ADDITIONAL INFORMATION – Definition of Common Terms:

ACGIH = American Conference of Governmental Industrial Hygienists
C = Ceiling Limit
CAS # = Chemical Abstracts System Number
IARC = International Agency for Research on Cancer
MSHA = Mining Safety and Health Administration
NAP = Not Applicable
NAV = Not Available
NIOSH = National Institute of Occupational Safety and Health
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration
PEL = Permissible Exposure Limit
STEL = Short-Term Exposure Limit (15 minutes)
TLV = Threshold Limit Value
TWA = Time-Weighted Average (8 hours)

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CHEMICAL OR COMMON NAME CAS #	%	EXPOSURE LIMITS	
Wood CAS # None	75-93	OSHA PEL-TWA OSHA PEL-STEL ACGIH TLV-TWA WISHA PEL-TWA WISHA PEL-TWA	5mg/m^3 (a) 10mg/m^3 (a) 1mg/m^3 (b) 5mg/m^3 (c) 2.5mg/m^3 (d)
Door Faces • Wood CAS # None • Paper (cellulose) CAS #9004-34-6 • Plastic CAS # None	~ 17	See Above OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA	 15mg/m^3 (e) 5mg/m^3 (f) 10mg/m^3 (e) 15mg/m^3 (e) 5mg/m^3 (f) 10mg/m^3 (e)
Resin Solids (ureaformaldehyde) CAS # 9011-05-6	1-10	OSHA PEL-TWA OSHA PEL-STEL ACGIH TLV-TWA ACGIH TLV-STEL WISHA PEL-C OREGON PEL-TWA OREGON PEL-STEL	1 ppm (g) 2 ppm (g) 1 ppm (g) 2 ppm (g) 1 ppm (g)) 1 ppm (g) 2 ppm (g)
Wax CAS # None	~ <1	OSHA PEL-TWA ACGIH TLV-TWA	2 mg/m (h) 2mg/m (h)

(a) softwood or hardwood total dust
(b) selected hardwood total dust beech, oak
(c) Non-allergenic total dust
(d) allergenic total dust
(e) total dust
(f) respirable dust
(g) free vinyl acetate
(h) paraffin wax fume

Appearance and Odor: Doors with a variety of grain patterns and hues. The products have a slight aromatic odor. Wood component may contain alder, ash, aspen, basswood, beech, birch, bubinga, cherry, chestnut, cottonwood, cypress, elm, fir, gum, hemlock, hickory, koa, mahogany (true or false), mansonia, maple, oak (red or white), pine, poplar, spruce, teak and/or walnut.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (F or C)	NAP
Vapor Pressure (mm Hg)	NAP
Vapor Density (Air=1)	NAP
Specific Gravity (H_2O=1)	0.40-0.80
Melting Point	NAP
Evaporation Rate (Butyl Acetate=1)	NAP
Solubility in Water	<0.1%
% Volatile by Volume @ 70°F	0

FIRE AND EXPLOSION HAZARD DATA
Flash Point (Method Used): NAP
Flammable Limits:
LEL: See below under "Unusual Fire and Explosion Hazards"
UEL: NAP
Extinguishing Media: Water, carbon dioxide, sand
Autoignition Temperature (F or C): 400°F - 500°F (204°C - 260°C)
Special Firefighting Procedures: None
Unusual Fire and Explosion Hazards: Depending on moisture content and–more importantly—particle diameter, wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts.

REACTIVITY DATA

Stability: ( ) Unstable (X) Stable

Conditions to Avoid: NAP
Incompatibility (Materials to Avoid): Avoid contact with oxidizing agents. Avoid open flame. Product may ignite at temperatures in excess of 400°F.

Hazardous Decomposition or By-Products: Depending on moisture content, availability of oxygen and temperature, thermal decomposition products include carbon monoxide, carbon dioxide, water, various aldehydes (both aliphatic and aromatic), tars and carbon.

Hazardous Polymerization: ( ) May Occur (X) Will Not Occur
Conditions to Avoid: NAP

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Not applicable for product in purchased form. Wood, paper or plastic dust(s) generated from sawing, sanding, drilling or routing of this product may be vacuumed or shoveled for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA approved respirator and goggles where ventilation is not possible.

Waste Disposal Method: Dry land disposal is acceptable in most states if disposed of or discarded in its purchased form. It is, however, the user's responsibility to determine at the time of disposal whether their product meets RCRA criteria for hazardous waste. Follow applicable federal, state and local regulations.

Precautions to be Taken in Handling and Storage: No special handling precautions are required. Keep in cool, dry place away from open flame. This product may release small amounts of gaseous formaldehyde. Store in well-ventilated area.

Other Precautions: A NIOSH/MSHA approved respirator and goggles should be worn when the allowable exposure limits may be exceeded.

HEALTH HAZARD DATA

Primary Health Hazards: The primary health hazards posed by this product are thought to be due to exposure to wood dust or free gaseous formaldehyde.

Primary Route(s) of Exposure:

( ) Ingestion

(X) Skin (Dust)

(X) Inhalation (Dust or Gas)

Acute Health Hazards: *Signs and Symptoms of Exposure—Emergency and First Aid Procedures.*

- INGESTION: Not applicable under normal use.

- EYE CONTACT: Gaseous formaldehyde may cause temporary irritation or a temporary burning sensation. Wood, paper or plastic dust(s) may cause mechanical irritation as a foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.

- SKIN CONTACT: Gaseous formaldehyde may cause allergic contact dermatitis in sensitized individuals, resulting in redness, itching and occasionally hives. Wood dust(s) of certain species may elicit allergic contact dermatitis in sensitized individuals, as well as mechanical irritation resulting in erythema and hives. Get medical help if rash, irritation, or dermatitis persists.

- SKIN ABSORPTION: Not know to occur with normal use.

- INHALATION: High concentrations of wood, paper or plastic dust(s) may cause unpleasant deposit/obstruction in the nasal passages, resulting in runny nose, dry cough and/or sneezing. Gaseous formaldehyde may temporarily irritate the nose and throat, and may aggravate preexisting respiratory conditions depending on the level of exposure. Remove to fresh air. Get medical help if persistent irritation, severe coughing or breathing difficulty occurs.

Medical Conditions Generally Aggravated by Exposure: Wood dust may aggravate preexisting respiratory conditions or allergies.

Chronic Health Hazards: Gaseous formaldehyde has been shown to cause cancer in certain laboratory animals after long-term exposure to very high concentrations (14+ppm), far above those normally found in the workplace with this product. Wood dust(s), depending on the species (for example, iroko, cocobolo), may cause allergic contact dermatitis with prolonged, repetitive contact, and respiratory sensitization after prolonged exposure to elevated dust levels (for example, western red cedar). Wood dust has been alleged to cause nasal/paranasal sinus cancer (certain European hardwoods: oak and beech).

Carcinogenicity Listing:

(X)	NTP	Formaldehyde
(X)	ARC Monographs	Formaldehyde
(X)	OSHA Regulated	Formaldehyde

CONTROL MEASURES - Personal Protective Equipment

- RESPIRATORY PROTECTION: Not applicable for product in purchased form. A NOSH/MSHA approved respirator is recommended when allowable exposure limits may be exceeded.
- PROTECTIVE GLOVES: Not required. However, cloth, canvas or leather gloves are recommended to minimize potential mechanical irritation from handling product.
- EYE PROTECTION: Not applicable for product in purchased form. Goggles or safety glasses are recommended when machining this product.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
- WORK/HYGIENE PRACTICES: Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation of this combustible material. Minimize blowdown or other practices that generate high airborne-dust concentrations.

Ventilation:

- LOCAL EXHAUST: Provide local exhaust as needed so that exposure limits are met.
- MECHANICAL (GENERAL): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.
- SPECIAL: Self-contained breathing apparatus (SCBA) is recommended when fighting fire.
- OTHER: NAP.

USER'S RESPONSIBILITY: The information contained in this Material Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources believed to be accurate or otherwise technically correct. It is the user's responsibility to determine if this information is suitable for their applications and to follow safety precautions as may be necessary. The user has the responsibility to make sure that this sheet is the most up-to-date issue.

ADDITIONAL INFORMATION – Definition of Common Terms:

ACGIH	=	American Conference of Governmental Industrial Hygienists
C	=	Ceiling Limit
CAS #	=	Chemical Abstracts System Number
IARC	=	International Agency for Research on Cancer
MSHA	=	Mining Safety and Health Administration
NAP	=	Not Applicable
NAV	=	Not Available
NIOSH	=	National Institute of Occupational Safety and Health
NTP	=	National Toxicology Program
OSHA	=	Occupational Safety and Health Administration
PEL	=	Permissible Exposure Limit
STEL	=	Short-Term Exposure Limit (15 minutes)
TLV	=	Threshold Limit Value
TWA	=	Time-Weighted Average (8 hours)
WISHA	=	Washington Industrial Safety and Health Administration

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CHEMICAL OR COMMON NAME CAS #	%	EXPOSURE LIMITS	
Wood CAS # None	75-93	OSHA PEL-TWA OSHA PEL-STEL ACGIH TLV-TWA WISHA PEL-TWA WISHA PEL-TWA	5mg/m^3 (a) 10mg/m^3 (a) 1mg/m^3 (b) 5mg/m^3 (c) 2.5mg/m^3 (d)
Door Faces • Wood CAS # None • Paper (cellulose) CAS #9004-34-6 • Plastic CAS # None	~ 17	See Above OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA	 15mg/m^3 (e) 5mg/m^3 (f) 10mg/m^3 (e) 15mg/m^3 (e) 5mg/m^3 (f) 10mg/m^3 (e)
Resin Solids (PVA) Vinyl Acetate CAS # None	<1	OSHA PEL ACGIH TLV-TWA ACGIH TLV-STEL	None Established 10 ppm (g) 15 ppm (g)

(a) softwood or hardwood total dust
(b) selected hardwood total dust beech, oak
(c) Non-allergenic total dust
(d) allergenic total dust
(e) total dust
(f) respirable dust
(g) free vinyl acetate

Appearance and Odor: Doors with a variety of grain patterns and hues. The products have a slight aromatic odor. Wood component may contain alder, ash, aspen, basswood, beech, birch, bubinga, cherry, chestnut, cottonwood, cypress, elm, fir, gum, hemlock, hickory, koa, mahogany (true or false), mansonia, maple, oak (red or white), pine, poplar, spruce, teak and/or walnut.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (F or C)	NAP
Vapor Pressure (mm Hg)	NAP
Vapor Density (Air=1)	NAP
Specific Gravity (H_2O=1)	0.40-0.80
Melting Point	NAP
Evaporation Rate (Butyl Acetate=1)	NAP
Solubility in Water	<0.1%
% Volatile by Volume @ 70°F	0

FIRE AND EXPLOSION HAZARD DATA
Flash Point (Method Used): NAP
Flammable Limits:
LEL: See below under "Unusual Fire and Explosion Hazards"
UEL: NAP
Extinguishing Media: Water, carbon dioxide, sand
Autoignition Temperature (F or C): 400°F - 500°F (204°C - 260°C)
Special Firefighting Procedures: None
Unusual Fire and Explosion Hazards: Depending on moisture content and–more importantly—particle diameter, wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts.

REACTIVITY DATA

Stability: ( ) Unstable (X) Stable

Conditions to Avoid: NAP
Incompatibility (Materials to Avoid): Avoid contact with oxidizing agents. Avoid open flame. Product may ignite at temperatures in excess of 400°F.

Hazardous Decomposition or By-Products: Depending on moisture content, availability of oxygen and temperature, thermal decomposition products include carbon monoxide, carbon dioxide, water, various aldehydes (both aliphatic and aromatic), tars and carbon.

Hazardous Polymerization: ( ) May Occur (X) Will Not Occur
Conditions to Avoid: NAP

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Not applicable for product in purchased form. Wood, paper or plastic dust(s) generated from sawing, sanding, drilling or routing of this product may be vacuumed or shoveled for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA approved respirator and goggles where ventilation is not possible.

Waste Disposal Method: Dry land disposal is acceptable in most states if disposed of or discarded in its purchased form. It is, however, the user's responsibility to determine at the time of disposal whether their product meets RCRA criteria for hazardous waste. Follow applicable federal, state and local regulations.

Precautions to be Taken in Handling and Storage: No special handling precautions are required. Keep in cool, dry place away from open flame. This product may release small amounts of gaseous formaldehyde. Store in well-ventilated area.

Other Precautions: A NIOSH/MSHA approved respirator and goggles should be worn when the allowable exposure limits may be exceeded.

HEALTH HAZARD DATA

Primary Health Hazards: The primary health hazards posed by this product are thought to be due to exposure to wood dust or free gaseous formaldehyde.

Primary Route(s) of Exposure:

( ) Ingestion

(X) Skin (Dust)

(X) Inhalation (Dust or Gas)

Acute Health Hazards: *Signs and Symptoms of Exposure—Emergency and First Aid Procedures.*

- INGESTION: Not applicable under normal use.

- EYE CONTACT: Gaseous formaldehyde may cause temporary irritation or a temporary burning sensation. Wood, paper or plastic dust(s) may cause mechanical irritation as a foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.

- SKIN CONTACT: Gaseous formaldehyde may cause allergic contact dermatitis in sensitized individuals, resulting in redness, itching and occasionally hives. Wood dust(s) of certain species may elicit allergic contact dermatitis in sensitized individuals, as well as mechanical irritation resulting in erythema and hives. Get medical help if rash, irritation, or dermatitis persists.

- SKIN ABSORPTION: Not know to occur with normal use.

- INHALATION: High concentrations of wood, paper or plastic dust(s) may cause unpleasant deposit/obstruction in the nasal passages, resulting in runny nose, dry cough and/or sneezing. Gaseous formaldehyde may temporarily irritate the nose and throat, and may aggravate preexisting respiratory conditions depending on the level of exposure. Remove to fresh air. Get medical help if persistent irritation, severe coughing or breathing difficulty occurs.

Medical Conditions Generally Aggravated by Exposure: Wood dust may aggravate preexisting respiratory conditions or allergies.

Chronic Health Hazards: Gaseous formaldehyde has been shown to cause cancer in certain laboratory animals after long-term exposure to very high concentrations (14+ppm), far above those normally found in the workplace with this product. Wood dust(s), depending on the species (for example, iroko, cocobolo), may cause allergic contact dermatitis with prolonged, repetitive contact, and respiratory sensitization after prolonged exposure to elevated dust levels (for example, western red cedar). Wood dust has been alleged to cause nasal/paranasal sinus cancer (certain European hardwoods: oak and beech).

Carcinogenicity Listing:

(X)	NTP	Formaldehyde
(X)	ARC Monographs	Formaldehyde
(X)	OSHA Regulated	Formaldehyde

CONTROL MEASURES - Personal Protective Equipment

- RESPIRATORY PROTECTION: Not applicable for product in purchased form. A NOSH/MSHA approved respirator is recommended when allowable exposure limits may be exceeded.
- PROTECTIVE GLOVES: Not required. However, cloth, canvas or leather gloves are recommended to minimize potential mechanical irritation from handling product.
- EYE PROTECTION: Not applicable for product in purchased form. Goggles or safety glasses are recommended when machining this product.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
- WORK/HYGIENE PRACTICES: Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation of this combustible material. Minimize blowdown or other practices that generate high airborne-dust concentrations.

Ventilation:

- LOCAL EXHAUST: Provide local exhaust as needed so that exposure limits are met.
- MECHANICAL (GENERAL): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.
- SPECIAL: Self-contained breathing apparatus (SCBA) is recommended when fighting fire.
- OTHER: NAP.

USER'S RESPONSIBILITY: The information contained in this Material Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources believed to be accurate or otherwise technically correct. It is the user's responsibility to determine if this information is suitable for their applications and to follow safety precautions as may be necessary. The user has the responsibility to make sure that this sheet is the most up-to-date issue.

ADDITIONAL INFORMATION – Definition of Common Terms:

ACGIH	=	American Conference of Governmental Industrial Hygienists
C	=	Ceiling Limit
CAS #	=	Chemical Abstracts System Number
IARC	=	International Agency for Research on Cancer
MSHA	=	Mining Safety and Health Administration
NAP	=	Not Applicable
NAV	=	Not Available
NIOSH	=	National Institute of Occupational Safety and Health
NTP	=	National Toxicology Program
OSHA	=	Occupational Safety and Health Administration
PEL	=	Permissible Exposure Limit
STEL	=	Short-Term Exposure Limit (15 minutes)
TLV	=	Threshold Limit Value
TWA	=	Time-Weighted Average (8 hours)
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HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CHEMICAL OR COMMON NAME CAS #	%	EXPOSURE LIMITS
Wood CAS # None	75-93	OSHA PEL-TWA 5mg/m^3 (a) OSHA PEL-STEL 10mg/m^3 (a) ACGIH TLV-TWA 1mg/m^3 (b) WISHA PEL-TWA 5mg/m^3 (c) WISHA PEL-TWA 2.5mg/m^3 (d)
Door Faces • Wood CAS # None • Paper (cellulose) CAS #9004-34-6 • Plastic CAS # None	~ 17	See Above OSHA PEL-TWA 15mg/m^3 (e) OSHA PEL-TWA 5mg/m^3 (f) ACGIH TLV-TWA 10mg/m^3 (e) OSHA PEL-TWA 15mg/m^3 (e) OSHA PEL-TWA 5mg/m^3 (f) ACGIH TLV-TWA 10mg/m^3 (e)
Resin Solids (PVA) Vinyl acetate CAS #None	<1	OSHA PEL – none established ACGIH TLV-TWA 10 ppm (g) ACGIH TLV-STEL 15 ppm (g)

(a) softwood or hardwood total dust
(b) selected hardwood total dust beech, oak
(c) Non-allergenic total dust
(d) allergenic total dust
(e) total dust
(f) respirable dust
(g) free vinyl acetate

Appearance and Odor: Doors with a variety of grain patterns and hues. The products have a slight aromatic odor. Wood component may contain alder, ash, aspen, basswood, beech, birch, bubinga, cherry, chestnut, cottonwood, cypress, elm, fir, gum, hemlock, hickory, koa, mahogany (true or false), mansonia, maple, oak (red or white), pine, poplar, spruce, teak and/or walnut.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (F or C)	NAP
Vapor Pressure (mm Hg)	NAP
Vapor Density (Air=1)	NAP
Specific Gravity (H_2O=1)	0.40-0.80
Melting Point	NAP
Evaporation Rate (Butyl Acetate=1)	NAP
Solubility in Water	<0.1%
% Volatile by Volume @ 70°F	0

FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): NAP

Flammable Limits:

LEL: See below under "Unusual Fire and Explosion Hazards"

UEL: NAP

Extinguishing Media: Water, carbon dioxide, sand

Autoignition Temperature (F or C): 400°F - 500°F (204°C - 260°C)

Special Firefighting Procedures: None

Unusual Fire and Explosion Hazards: Depending on moisture content and–more importantly—particle diameter, wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts.

REACTIVITY DATA

Stability: ( ) Unstable (X) Stable

Conditions to Avoid: NAP

Incompatibility (Materials to Avoid): Avoid contact with oxidizing agents. Avoid open flame. Product may ignite at temperatures in excess of 400°F.

Hazardous Decomposition or By-Products: Depending on moisture content, availability of oxygen and temperature, thermal decomposition products include carbon monoxide, carbon dioxide, water, various aldehydes (both aliphatic and aromatic), tars and carbon.

Hazardous Polymerization: ( ) May Occur (X) Will Not Occur

Conditions to Avoid: NAP

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Not applicable for product in purchased form. Wood, paper or plastic dust(s) generated from sawing, sanding, drilling or routing of this product may be vacuumed or shoveled for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA approved respirator and goggles where ventilation is not possible.

Waste Disposal Method: Dry land disposal is acceptable in most states if disposed of or discarded in its purchased form. It is, however, the user's responsibility to determine at the time of disposal whether their product meets RCRA criteria for hazardous waste. Follow applicable federal, state and local regulations.

Precautions to be Taken in Handling and Storage: No special handling precautions are required. Keep in cool, dry place away from open flame. This product may release small amounts of gaseous formaldehyde. Store in well-ventilated area.

Other Precautions: A NIOSH/MSHA approved respirator and goggles should be worn when the allowable exposure limits may be exceeded.

HEALTH HAZARD DATA

Primary Health Hazards: The primary health hazards posed by this product are thought to be due to exposure to wood dust or free gaseous formaldehyde.

Primary Route(s) of Exposure:

( ) Ingestion

(X) Skin (Dust)

(X) Inhalation (Dust or Gas)

Acute Health Hazards: *Signs and Symptoms of Exposure—Emergency and First Aid Procedures.*

- INGESTION: Not applicable under normal use.

- EYE CONTACT: Gaseous formaldehyde may cause temporary irritation or a temporary burning sensation. Wood, paper or plastic dust(s) may cause mechanical irritation as a foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.

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(X)	NTP	Formaldehyde
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(X)	OSHA Regulated	Formaldehyde

CONTROL MEASURES - Personal Protective Equipment

- RESPIRATORY PROTECTION: Not applicable for product in purchased form. A NOSH/MSHA approved respirator is recommended when allowable exposure limits may be exceeded.
- PROTECTIVE GLOVES: Not required. However, cloth, canvas or leather gloves are recommended to minimize potential mechanical irritation from handling product.
- EYE PROTECTION: Not applicable for product in purchased form. Goggles or safety glasses are recommended when machining this product.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
- WORK/HYGIENE PRACTICES: Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation of this combustible material. Minimize blowdown or other practices that generate high airborne-dust concentrations.

Ventilation:

- LOCAL EXHAUST: Provide local exhaust as needed so that exposure limits are met.
- MECHANICAL (GENERAL): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.
- SPECIAL: Self-contained breathing apparatus (SCBA) is recommended when fighting fire.
- OTHER: NAP.

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TRUE STILE AND RAIL AND 5-PLY FLUSH DOORS
Warranty Information

Date: February, 2017

Eggers Industries

DURATION OF WARRANTIES

DOOR TYPE	INTERIOR USE	EXTERIOR USE
Particle, Agrifiber	Life of original installation	Not warranted
SCL	Life of original installation	Three years from date of original installation
Stave	Life of original installation	Not warranted
Plastic	Life of original installation	Not warranted
Mineral Core	Life of original installation	Not warranted
Acoustical	Life of original installation	Not warranted
Acoustical Airport – Flush	Life of original installation	Five years from date of original installation
Lead Shielded	Life of original installation	Not warranted
Stile & Rail - Non-Rated	Life of original installation	Three years from date of original installation
Stile & Rail - 20 Minute	Life of original installation	Not warranted
Stile & Rail - 45, 60, 90 Minute	Life of original installation	Not warranted
Full Lite Construction	Life of original installation	Not warranted
Bullet Resistant	Life of original installation	Three years from date of original installation
Foam Core	Life of original installation	Not warranted

All doors manufactured by EGGERS INDUSTRIES of Neenah, Wisconsin and EGGERS INDUSTRIES of Two Rivers, Wisconsin (hereinafter referred to as Eggers) are warranted to be free from defects in material and workmanship which would render them unserviceable or unfit for the ordinary, recommended use for the time periods as set forth below. This warranty automatically applies to purchasers of doors from Eggers and extends on resale of the product. Claims should be processed through the intermediate suppliers. It is the responsibility of Eggers' intermediate suppliers to make the initial jobsite visit on a complaint to verify the issue and collect necessary documentation (i.e., sizes, pictures, etc.). On occasion, it may be necessary for Eggers to send a representative to the jobsite. If an Eggers representative is required to go to the jobsite and the issue is determined not be a manufacturer's issue, then the intermediate supplier will be charged for all applicable expenses related to the jobsite visit.

LIMITATIONS OF LIABILITY

Eggers shall not be liable for incidental, indirect or consequential damages arising from the manufacture, use or sale of these goods. (This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.) Eggers' liability is expressly limited to the repair or replacement of non-conforming goods or the refund of the purchase price, at the option of Eggers

If any door becomes defective after installation, Eggers agrees to bear the **reasonable expense** of repairs, rework, machining, finishing, removing and rehanging such repairs. Rework, removal and rehanging shall be performed only after approval is obtained from Eggers and the cost of such work has been determined. **In the event the defect for which the doors are being rejected was apparent prior to hanging, Eggers is not obligated to pay removal and rehanging charges.**

NOTICE REQUIREMENT

Since Eggers cannot control the handling or exposure of doors after shipment, a specific duty of inspection is imposed upon the purchaser as a condition precedent to any claim under this warranty. Such inspection must be made upon receipt of the goods and written notice of any claim must be received by Eggers within 30 days of receipt of the goods, or discovery of the defect. NO CLAIM UNDER THIS WARRANTY SHALL BE ACTIONABLE UNLESS THE FOREGOING NOTICE IS GIVEN AS SET FORTH HEREIN.

It shall not be the policy of Eggers Industries to inspect finished installations for the sole purpose of certifying that the installation is within warranty.

MATTERS EXCLUDED FROM THIS WARRANTY

TRUE STILE AND RAIL AND 5-PLY FLUSH DOORS
Warranty Information

Date: February, 2017

Eggers Industries

Since methods and conditions or installation and use are beyond the control of Eggers, this warranty is not effective unless the doors are stored, handled, finished, used and installed in strict accordance with the provisions set in the following guidelines of this warranty.

Eggers Door Warranty
Tolerances, Exclusions and Instructions

TOLERANCES

1. Stile, rail and core show-through (telegraphing) shall not be considered a defect unless the face of the door varies from a true plane in excess of 1/100 (.010) in any 3 span.
2. Warp shall not be considered a defect unless it exceeds 1/4 in the plane of the door itself. For doors 1-3/4″ or thicker, warp shall not exceed 1/4 in doors 3'6″ x 7'0″ or smaller, nor shall it exceed 1/4 in any 3'6″ x 7'0″ section of larger doors. For doors less than 1-3/4 thick, warp shall not exceed 1/4 in doors 3'0″ x 7'0″ or smaller. Warp is any distortion in the door itself and does not refer to the relationship of the door to the frame, jamb, or adjacent doors. Warp is measured by placing a straight edge on the concave face and determining the maximum distance from straight edge to door face.
3. Tolerances for all applied moulding locations are ± 1/8″ reference to all margins.

HANDLING, FINISHING AND INSTALLATION INSTRUCTIONS

1. Store doors flat on a level surface in a dry, well-ventilated building. Protect doors with an opaque covering that does not permit light to penetrate to keep the doors clean and avoid discoloration. Covering must allow air circulation. If doors are to be stored more than a week, all edges should be sealed. Deliver doors or frames to building site after HVAC system is operating and balanced and plaster or cement is dry.
2. Doors should not be subjected to extreme heat and/or humidity. Relative humidity should not be less than 25% or greater than 55% and temperatures should not be less than 50 degrees F. or greater than 90 degrees F.
3. Handle with clean gloves and do not drag doors across one another or across other surfaces.
4. The utility or structural strength of the doors must not be impaired in the fitting of the door, the application of hardware or cutting and altering for lites, louvers, panels or any other special details.
5. Use three hinges for doors 7'6″ in height or less, and one additional hinge for each incremental 30 of height over 7′6″.
6. Allow a fitting clearance of 1/16″ to 1/8″ at each side and at the top.
7. Seal all edges immediately after field fitting.
8. Prior to field applied finishes, doors must be sanded. The finisher should thoroughly sand the doors with 150-grit sandpaper going with the grain direction of the veneer. A hand block should be used to remove all scuffs, handling marks, scratches, raised grain, burnishes and effects of exposure to moisture that may occur during handling, unloading and storage.
9. Some woods, particularly oak, contain chemicals which react with iron. Do not use steel wool on oak doors.
10. Doors prefinished at the factory should be checked against approved finish sample prior to hanging. (Installation of prefinished doors shall constitute acceptance.)
11. Stile and rail doors not prefinished at the factory must be stained and sealed, or painted, within 10 working days after the doors arrive from Eggers. Stile and rail doors supplied to Hawaii or Alaska must be factory finished.
12. Pilot holes must be drilled for all screws that act as hardware attachments. Self-tapping or combination wood/metal screws are not warranted for use on wood doors.

EXCLUSIONS

This warranty does not cover:

1. The appearance of field finished doors.
2. Natural variations in the color, texture, character, or cut of the wood.
3. Doors with cutouts closer than 5″ to the door edge or doors with adjacent cutouts such as hardware, lites, louvers, etc. closer than stated minimums.
4. Doors which have cutout areas exceeding 54″ door height. However, waivers in writing from the factory are available on a per job basis. This exclusion is waived on special full lite construction warranted for life of original installation for interior use.
5. Doors that are improperly hung and door frames that are not plumb, square and level and do not allow the door to swing freely.
6. Warpage of doors less than 1-3/4 thick which are wider than 3'0″ or higher than 7'0″.
7. Normal wear and tear including wear-through of finish.
8. Doors supplied outside the United States for telegraphing or warpage unless approved by the factory.
9. Cracking of plastic laminated surfaced doors with openings cut by other than Eggers or its authorized representative. Radius of 1/4 at corners of openings must be maintained.
10. Incompatibility of hardware with a particular door construction. This includes mortises such as concealed closers, magnetic holders, etc. deeper than 2″ or wider than 1-1/4″ and concealed vertical rod devices, unless special reinforced construction is ordered.
11. Constructions involving different species, face materials, or veneer grain configurations on opposite sides of the door. This includes doors with different plastic colors or patterns on each face. This may create an unbalanced condition not warranted against warpage, cracking, delaminations, etc. Exclusion may be waived for SCL core flush doors or stile and rail doors with proper approval in the form of a letter from manufacturing.
12. Constructions, other than flush SCL, involving appliques (excluding applied moulding) that are applied to only one face of the door.
13. Doors that are not stored as outlined in the Handling, Finishing and Installation Instructions.
14. Doors stored longer than six months.

TRUE STILE AND RAIL AND 5-PLY FLUSH DOORS
Warranty Information

Date: February, 2017

Eggers Industries

15. OEM's warranty applies to all accessories supplied by Eggers.
16. Doors that have any form of face grooving which penetrate the crossbanding in excess of limitations set by the factory.
17. Doors altered by others for size by re-railing or re-stiling or refacing or defects resulting from other machining or alterations performed by others.
18. Stylus moulding on one side of the door. Applied moulding on one side of door if moulding is over 1-3/4″ wide, 3/4″ high or over 24 lineal feet. Miter joints and flatness on mouldings over 3″ in width.
19. Doors up to 7'6″ in height with less than three hinges and doors with less than one additional hinge for each incremental 30 of height over 7'6″. This exclusion is waived on non-rated particle, agrifiber, or stave core up to 8'0″, stile & rail doors up to 8'0″ and SCL core doors up to 9′0″ when installed with top and bottom pivot hardware.
20. Doors machined for corner mortised flush bolts unless installed with metal edges or flush bolt cap.
21. Doors machined for specified concealed vertical rods unless installed with metal CVR cap. Consult factory for applicable CVR devices.
22. Lites not glazed by Eggers, including glass breakage and damage to the door.

NOTE: Action on any claim for warp or telegraphing defects may be deferred at the option of the manufacturer for a period not to exceed 12 months to permit conditioning of the doors to temperature and humidity conditions.

EXTERIOR FLUSH AND STILE AND RAIL DOOR GUIDELINES
An exterior door is defined as one that cannot be controlled on both sides for temperature and humidity.

When exterior doors are machined for hardware or a lite opening, opportunity exists for moisture penetration into the door which will eventually cause deterioration. Therefore, the existence of the following conditions will void the warranty for exterior installations:
1. Doors installed outside the continental 48 states.
2. Failure to double seal all machined surfaces including openings and hardware cuts with exterior sealer.
3. Failure to properly protect lite cutouts in exterior doors to prevent moisture from seeping into the core. Lip mouldings and exterior caulk are required. The top of an exterior door must be properly protected by flashing (except STC doors for airport housing).
4. Failure to provide adequate overhead protection. Adequate overhead protection includes a maximum of 4 ft. between the top of the door and the bottom of the overhead, a minimum overhead protection of 4′ out from the face of the door and a minimum protection extension of 4′ out from each side of the door.
5. Failure to provide the entire door including top and bottom edges with two coats of a good quality paint, varnish or lacquer.
6. This warranty does not cover telegraphing and checking of exterior doors.

Additional Exterior Guidelines
1. Eggers will not quote the Stylus door for an exterior application.
2. Eggers will not quote exterior doors with concealed hardware (vertical rods, flush bolts and closers/holders/stops).
3. Eggers will not quote exterior doors with machining for pivots and magnetic switches in the top rail of the door.
4. Eggers will not quote exterior doors with louvers.
5. Eggers will quote 20-minute flush doors for exterior applications.
6. Eggers will not quote 45, 60 and 90-minute flush doors for exterior application.
7. Eggers will not quote doors for applications with applied moulding and reveals.
8. Eggers will not quote 20, 45, 60 and 90-minute stile and rail doors for exterior applications.

Exterior finishes should be used on the exterior faces and all edges of exterior doors. A complete and continuous finish must be maintained on all surfaces of the door and must be refinished annually.

Airport Housing Projects
STC doors have been approved for residences around airports in Southern California and the Southwest with a five-year warranty. Contact the factory regarding exterior STC door requirements for airport housing projects in other locations. Top flashing not required on STC doors.

It should be noted that both the WDMA and AWI Standards indicate that wood doors are not recommended for exterior use.

Eggers Industries
www.eggersindustries.com
sales@eggersindustries.com

Stile and Rail Doors, Door Frames, Plywood, Veneered Components
Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

Flush Doors, eiDoor®
Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces, Custom Wood Products, Plywood
Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
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Care, Handling, and Maintenance

Installation Instruction 101

Date: September 2017

Eggers Industries

The information included in this guideline is presented to help maintain your high quality wood doors. It includes the same basic information published by the Window and Door Manufacturers Association in Industry Standard I.S.-1A, as well as additional instructions specific to maintaining specialty doors.

STORAGE AND HANDLING

1. Store doors flat on a level surface in a dry, well-ventilated building. Doors should be kept at least 4 in. (102 mm) off the floor and should have protective coverings under the bottom door and over the top. Covering should protect doors from dirt, water, and abuse but allow for air circulation under and around the stack.
2. Avoid exposure of interior doors to direct sunlight. Certain species (e.g., cherry, mahogany, walnut, and teak) are more susceptible to discoloration if exposed to sunlight or some forms of artificial light.
3. Do not subject interior doors to extremes of heat and/or humidity. Do not allow doors to come in contact with water. Buildings where humidity and temperature are controlled provide the best storage facilities (recommended conditions 25%-55% RH and 50°F-90°F (10°C to 32°C).
4. Do not install doors in buildings that have wet plaster or cement. Do not store doors in buildings with excessive moisture content – HVAC systems should be operating and balanced.
5. Doors should always be handled with clean dry hands or while wearing clean dry gloves.
6. Doors should be lifted and carried when being moved, not dragged across one another.

FINISHING

Eggers recommends factory finishing to insure the most durable surface and uniform appearance. Factory finishing will also slow the response to changes in humidity. The following points provide guidance for doors being field finished.

1. Wood is hygroscopic and dimensionally influenced by changes in moisture content caused by changes within its surrounding environment. To assure uniform moisture exposure and dimensional control, all surfaces must be finished equally.
2. Doors should not be considered ready for finishing when initially received. Before finishing, remove all handling marks, raised grain, scuffs, burnishes and other undesirable blemishes by block sanding all surfaces in a horizontal position with 150 or 180-grit sandpaper. Sanding of the overall surface will be required to open the veneer grain to receive a field applied finish evenly. To avoid cross grain scratches, sand with the grain.
3. Certain species of wood, particularly oak, may contain extractives which react unfavorably with foreign materials in the finishing system. Do not use steel wool on bare wood, rusty containers or any other contaminate in the finishing system.

4. A thinned coat of sanding sealer should be applied prior to staining to promote a uniform appearance and avoid sharp contrasts in color or a blotchy appearance. Eggers will not be responsible for the final appearance of field-finished doors. It is expected that the painting contractor will make adjustments as needed to achieve desired results.
5. The top and bottom rails are sealed at the factory. All other exposed, unfinished wood surfaces should be finished. Cutouts for hardware in exterior doors and doors located adjacent to areas where high moisture is expected should be sealed prior to installation of hardware.
6. Dark colored finishes should be avoided on all surfaces if the door is exposed to direct sunlight, in order to reduce the chance of warping or veneer checking.
7. Water-based coatings on unfinished wood may cause veneer splits, highlighted joints and raised wood grain. If used on exterior doors, the coating should be an exterior grade product. When installed in exterior applications, doors must be properly sealed and adequately protected from the elements. Refer to Eggers' warranty for protection requirements.
8. Be sure the door surface being finished is satisfactory in both smoothness and color after each coat. Allow adequate drying time between coats. Desired results are best achieved by following the finish manufacturer's recommendations.
9. Certain wood fire doors have fire retardant salts impregnated into various wood components. Lightly sand treated wood before finishing to remove any surface salt that may be present.

INSTALLATION

1. Eggers recommends factory machining of all doors to insure proper machining tolerances. All labeled doors are required to be machined under licensed inspection service by NFPA 80.
2. The utility or structural strength of the doors must not be impaired when fitting to the opening, in applying hardware, in preparing for lites, louvers, plant-ons or other detailing.
3. The general rule is to use two hinges for solid core doors up to 60 in. (1524 mm) in height, and an additional hinge for every 30 in. (762 mm) or fraction thereof. This matches the requirements for installing fire doors. Refer to Eggers warranty and approvals for special provisions. Consult hinge or pivot hardware manufacturer with regard to weight and size of hinges or pivots required.
4. The maximum clearance between the top, hinge edge and lock edge to the frame and meeting edge of pairs of doors, is 1/8 in. (3.2 mm). NFPA 80 allows a tolerance of +0 and -1/16″ to this dimension.
5. All hardware locations, preparations and methods of attachment must be appropriate for the specific door construction.
6. When lite or louver cutouts exist in exterior doors, they must be protected in order to prevent water from entering the door core.
7. Pilot holes must be drilled for all screws that act as hardware attachments. Full threaded screws should be used for fastening hardware to non-rated doors and are required on fire-rated doors. Eggers does not warrant the use of self-tapping or combination (wood/metal) screws for the attachment of hardware.

8. In fitting non-rated doors for height, do not trim top or bottom edge by more than 3/4 in. (20 mm) unless accommodated by additional blocking. Trimming of fire-rated doors must be in accordance with NFPA 80.
9. Doors and door frames should be installed plumb, square and level.

CLEANING AND TOUCHUP

1. Inspect all wood doors prior to hanging them on the job. Repair noticeable marks or defects that may have resulted from improper storage and handling.
2. Field repairs and touchups are the responsibility of the installing contractor upon completion of initial installation. Field touchup shall include the filling of exposed nail or screw holes, re-finishing of raw surfaces resulting from job fitting, repair of job inflicted scratches and mars and final cleaning of finished surfaces.
3. When cleaning door surfaces, use a non-abrasive commercial cleaner designed for cleaning wood door or paneling surfaces, that does not leave a film residue that would build up or affect the surface gloss of the door finish. Refer to Eggers' eiDoor Maintenance information bulletin for vinyl door requirements.

GENERAL ADJUSTMENT AND MAINTENANCE

1. Insure that all doors swing freely and do not bind in their frame. Adjust the finish hardware for proper alignment, smooth operation and proper latching without unnecessary force or excessive clearance.
2. Periodically inspect all doors for wear, damage and natural deterioration.
3. Periodically inspect and adjust all hardware to insure that it continues to function as it was originally intended.
4. Finishes on exterior doors may deteriorate due to exposure to the environment. See Eggers' warranty for refinishing requirements.

SPECIFIC ADJUSTMENT AND MAINTENANCE FOR ACOUSTIC DOORS

1. Fixed seals should be routinely wiped clean and inspected for damage. Components that are damaged or otherwise fail to provide a continuous seal between the door surface and fixed elements of the assembly should be replaced. Seals may be wiped with a silicone coated cloth to help reduce opening and closing friction.
2. Operational seals such as automatic door bottoms should be routinely wiped clean and inspected for damage. Damaged seals should be replaced. These components need to be checked for proper operation to insure they seal when the door is closed and retract when the door is opened to prevent wear or damage. Seals may require periodic adjustment, per the hardware manufacturer's instructions.
3. Extra attention should be given to the hinging, closing and latching hardware. Tighten or shim hinges, adjust closures, and adjust latch strikes as required to insure the door remains squarely in the opening and makes a uniform continuous contact with the acoustic seals.

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164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

STANDARD TERMS OF SALE

Date: January, 2017

Eggers Industries

1. **Purpose and Acceptance of Order** – These terms are presented to avoid a misunderstanding between the customer and the vendor. Our acceptance of your order is expressly conditioned upon your confirming the accuracy of your order as acknowledged and your acceptance of our terms and conditions set forth. Our terms and conditions may be different from or additional to the terms of your purchase order.
2. **Credit Terms** - If vendor extends credit to customer, payment terms shall be Net 30 days from date of invoice. Vendor may change or withdraw credit amounts or payment terms at any time for any reason. If customer fails to make any payment when due, vendor may suspend or cancel performance on any orders in which vendor has extended credit to customer. Vendor's' suspension of performance may result in rescheduling delays. If, in vendor's judgment, customer's financial condition does not justify the payment terms specified herein, then Eggers may require customer to immediately pay for all materials that have been shipped/delivered and pay in advance for all materials yet to be shipped/delivered. Suspension in accordance with this clause shall not affect vendor's right to pursue any other available remedies.
3. **Price** – These prices are based on the order as written, not necessarily on your inquiry or original quotation. Prices as shown on the acknowledgment are final and will be invoiced on the date of shipment.
4. **Cancellation of Order** – Upon cancellation of an order in process, billing will be made to the customer for all work and materials expended up to the cancellation date. The order will be completed and/or materials shipped only at specific request of the customer. It is the manufacturer's option to use any materials from a cancelled order elsewhere, anytime following the cancellation of the order, and cancellation charges are based on this option.
5. **Change/Revision Charge** – Any change to an order that has already been released out of sales will be assessed a charge of $250/order plus any applicable material and labor costs associated with the change.
6. **Damaged Material** – This material will be carefully inspected and in good condition when accepted by the carrier. If damage occurs, it is your responsibility to immediately notify the transportation company to make an inspection prior to discarding packaging material. If packaging material is damaged, you must make the request upon receipt of the materials. The customer must not sign an inspection receipt that puts responsibility of damage on the shipper because of insufficient protection of materials without the consent of the shipper. If you feel the damage occurred prior to shipping, or is our responsibility, contact our company representative. The packaging material must be saved for our inspection. We will accept full responsibility for damaged material only if all of the above procedures are followed.
7. **Freight Allowance** – All quotations made with freight allowance are FOB Factory and based on method of shipment quoted. Should the customer request an alternate method of shipment, additional freight charges will be assessed.
8. **Required Customer Information** – If the customer fails to supply adequate hardware machining information or fails to agree on a finish sample, the company reserves the right to credit the charges for these items and ship the door without pre-machining or pre-finishing the product.
9. **Appearance** – All doors must be visually inspected for face grade, color, match, and other defects by the customer prior to further work or installation. If manufacturing defects are detected after staining or sealing, no additional coat of finish may be applied without approval of the manufacturer. We are responsible for repairing or replacing material as originally furnished, but not refinishing or reinstallation if the defect could be detected prior to further work or installation.
10. **Sanding Prior to Finishing** – Prior to field applied finishes, doors must be sanded. The finisher should thoroughly sand the doors with 150-grit sandpaper going with the grain direction of the veneer. A hand block should be used to remove all scuffs, handling marks, scratches, raised grain, burnishes and effects of exposure to moisture that may occur during handling, unloading and storage.
11. **End Matching** – An end match variation of grain pattern is considered acceptable for face of panels of 3/8" and back of panels of 7/8".
12. **Storage and Installation Conditions** – It is the responsibility of the customer to store and install the product in an enclosed area where the relative humidity is maintained between 25% and 55%. Certain veneers such as Cherry, Mahogany, Teak, Walnut, etc. may be damaged if exposed to either sunlight or forms of artificial light. Cover doors to keep clean and avoid discoloration with an opaque covering which does not permit light to penetrate during storage or staging. Covering must allow for air circulation. If doors are to be stored for more than one week, all edges should be sealed.
13. **Industry Standards** – For items not covered by these Standard Terms of Sale, these industry standards apply:
    a. Hardwood Plywood Veneer Association (HPVA), or
    b. Window & Door Manufacturers Association (WDMA), or
    c. Architectural Wood Institute (AWI), or
    d. Woodwork Institute (WI)
14. **Warranty** – Our sole and exclusive warranty to you under this contract is that the goods sold pursuant to this Contract will be as described and be free of any defects in parts and workmanship, if used under normal circumstances and in accordance with any instructions given to you. Except as expressly provided to the contrary in

paragraphs 10 and 11. **WE EXPRESSLY DISCLAIM ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSES OF THE BUYER AS PROVIDED BY THE UNIFORM COMMERCIAL CODE.** It is also agreed that our remedies to you for your breach under this Contract shall consist of the following, any or all of which may be exercised by us at our sole option and no others:

a. Repair the product without charges to you,
b. Replace the product without charge in the same stage of installation and/or finishing as originally supplied to you, or
c. Refund the purchase price.

If requested by the customer, only an Eggers Warranty will be issued for the project upon receipt of full payment as acknowledged by Eggers.

15. **Consequential Damages** – In the event that we breach this Contract, we shall not be liable to you for any consequential damages arising out of such breach. In the event that any other term of this Contract is found unconscionable or unenforceable for any reason, or the remedies identified in paragraph 12 above fail of their essential purpose, the provision of waiver by agreement of consequential damages shall continue in full force and effect.
16. **Shipping Delays** – We are excused from performing any of our obligations under this Contract which are prevented or delayed by any occurrence not within our control, including, but not limited to, destruction or damage to the goods of our manufacturing plant, strikes or other labor matters, floods, fire, accidents, riots, explosion, or any regulations, rules, ordinances or orders of any governmental authority, federal, state, or local.
17. **Choice of Law** – The terms, rights, and obligations under this Contract shall be construed under the laws of the State of Wisconsin.

Cancellation Charge	
Orders not started in production	No charge
Order that is in production	$200 per order plus the cost of rework, restock, etc. as well as labor expended.
All Fast Track Orders	$200 per order plus the cost of rework, restock, etc. as well as labor expended.

Change/Revision Charge	
Any change to an order that has been released out of sales	$250/order plus any applicable material and labor costs associated with the change.

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DOOR FRAMES

Eggers' meticulously-crafted door frames are rivaled only by their beauty, quality and lasting performance.

Eggers Industries



DOOR FRAMES

Eggers Industries is the door manufacturer of choice because of its uncompromising commitment to excellence and unwavering attention to detail. Those exacting standards extend to our door frames, which not only match our doors in quality, but enhance the overall beauty and performance of every Eggers' door.

- Available as non-rated, 20- or 45-minute veneered or solid lumber frames.
- 90-minute veneered frames available with Warnock Hersey label.
- Positive or negative pressure.
- All frame components shipped knocked down.
- Marked and bundled by opening.
- Available with a STC test report up to a 45 when bought in combination with an Eggers' acoustical door.
- Factory machining and finishing available.
- For non-rated frame information, refer to AWI, Section 900, 8th Edition.



UL FIREGUARD	20-MINUTE FRAMES, SIDELITES & BORROWED LITES	
	Frame & Sidelite	**Borrowed Lite**
Frame Size	Minimum 3/4" thick frame with 3/4" thick MDF filler, 3-3/4" minimum width	
Overall Opening	14' 2" x 11' 6" maximum	5' 9" x 11' 6" maximum
Single Door Opening	4' x 9' maximum	N/A
Pair Door Opening	8' x 9' maximum	N/A
Wood Density	Minimum 30#/cu. ft. Paint Grade Poplar OK	
T-stop	Minimum 5/8" x 1-1/2"	N/A
Shim Space	Minimum 1/2" - if greater than 1/4" must be filled with fiberglass	
Casing	Minimum 3/8" x 1-3/4" - casing may be supplied by others (custom profiles available)	
Lite Stops	3/4" x 1-1/8" minimum	
Panels	Maximum 48" x 116" installed with minimum 3/4" x 1-1/8" panel stop, two-sides	
Panel Stops	Minimum 3/4" x 1-1/8"	
Lite Opening / Transom	Maximum 36" x 96" or 96" or 36"	
Hardware	Hinges shall be steel mortise butt hinges or continuous hinges per NFPA 80. Strikes shall be steel mortise or surface applied for labeled flushbolts, deadlocks or latchsets. Track for labeled closer with mortise maximum 1-1/4" wide x 13/16" deep x 17-5/16" long with minimum 3/4" stop at head and HSS2000 applied to stop.	
Silencer Buttons	Surface applied only	
Options	Frame may be veneered MDF	
Corner Detail	Square cut only - header runs through	

20- & 45-Minute UBC

Eggers' fire-rated door frames are approved for use in positive pressure installations. Frame labels do not have any reference to positive pressure and are not supplied with edge seals. The opening will meet positive pressure requirements only when a positive pressure labeled door is installed with an edge seal system approved for use with that door.

Positive pressure openings in accordance with UBC 7-2-1 can be accomplished in two basic ways:

- Category "A" Doors – This category includes doors that are listed for use as fire doors without the use of field installed edge seals (such as intumescent).
- Category "B" Doors – This category includes doors that require the field installation of a listed edge seal to meet their fire protection rating.

The new codes also require gasketing to meet the smoke control requirements of UBC 7-2-2 (1997). The gasketing completely conceals the intumescent on the frame.

UL FIREGUARD	45-MINUTE FRAMES, SIDELITES & BORROWED LITES	
	Frame & Sidelite	**Borrowed Lite**
Frame Size	Minimum 3/4" thick frame with 3/4" thick MDF filler, 4-7/8" minimum width	
Overall Opening	12' x 11' 6" maximum	5' 9" x 11' 6" maximum
Single Door Opening	4' x 9' maximum	N/A
Pair Door Opening	6' x 9' or 8' x 8' maximum	N/A
Wood Density	Minimum 33#/cu. ft.	
T-stop	Minimum 5/8" x 1-1/2"	N/A
Shim Space	Minimum 1/2" - if greater than 1/4" must be filled with fiberglass	
Casing	Minimum 3/8" x 1-3/4" - casing may be supplied by others	
Lite Stops	3/4" x 1-5/8" minimum	
Panels	Maximum 48" x 116" (minimum 1-3/4" thick) installed with minimum 3/4" x 1-1/8" panel stop, two-sides	
Panel Stops	Minimum 3/4" x 1-1/8"	
Lite Opening / Transom	Maximum 36" x 96" or 96" x 36"	
Hardware	Hinges shall be steel mortise butt hinges or continuous hinges per NFPA 80. Strikes shall be steel mortise or surface applied for labeled flushbolts, deadlocks or latchsets.	
Silencer Buttons	Surface applied only	
Options	Frame may be veneered MDF	
Corner Detail	Square cut only - header runs through	

Optional Casing Details

Custom details and examples are available at www.eggersindustries.com





WHI	FIREGUARD 20-MINUTE FRAMES
Frame Size	3/4” thickness, 3-3/4” minimum width, 4-1/2” minimum width with panel
Assembly Size	8’ x 9’ maximum
Casing	Any profile with 3/8” or more material at shim space - minimum width 1-3/4” (casing may be supplied by others)
Stop Application	Field applied with 16 gauge staples or 4d nails - minimum 2” from any end and maximum 12” on center
T-stop	Minimum 5/8” x 1-1/2”
Frame Profile	T-stop, double and single rabbet
Shim Space	No more than 1/4” clearance between studs and back of frames If tightly filled with fiberglass insulation, clearance may be increased to 1/2”
Rough Opening	Opening lined with minimum 2” nominal wood stud - 5/8” gypsum board required
Masonry Opening	Stud must be anchored with mechanical fasteners - maximum 24” center
Frame Attachment	10d nails in pairs at a maximum of 24” on center - one 2-1/2”, #10 screw at each hinge and latch Replacement screws supplied with hardware
Stop Dimension from Edge of Frame	1-7/8” on 1-3/4” doors, 2-3/8” on 2-1/4” doors
Hinges	Steel mortise butt hinges or continuous hinges per NFPA 80
Strikes	Steel mortise or surface applied for labeled latchsets or deadlocks
Silencer Buttons	Surface applied only



WHI	20-MINUTE FIREGUARD PLUS VENEERED FRAMES
Size Limit	8' x 9' opening
Frame Width	5" x 9"
Thickness Overall	1-1/2" minimum, 2-1/2" maximum (3/4" minimum thickness from face of frame to deepest portion of plow)
Machining	Hollowed-out to wrap minimum 3-3/4" thick wall - grooved for T-stop
T-stop	Frame may be furnished with or without solid wood T-stops (a 20-minute fire rating requires the use of a T-stop)
Shim Space	No shim space intended - 1/4" maximum shim space if needed (jamb must overlap drywall by 1/2")
Corner Detail	Must have rabbeted, mitered or butt and doweled joints at header - standard frame provided with veneer on all sides
Hardware	Hinges shall be steel mortise butt hinges or continuous hinges per NFPA 80. Strikes shall be steel mortise or surface applied for labeled flushbolts, deadlocks or latchsets. Silencer buttons, surface only.
Options	Optional 1-1/2" thick lumber edges, either square, bullnose or profiled design. Can be furnished with or without T-stops. (T-stops must be used to maintain 20-minute rating.) Can be furnished premachined and factory finished. Any size or configuration frame is available. Variations from frames indicated may not be WHI approved. Can be ordered in stock lengths, in sets or in specified lengths. Two species can be used on the frame to match adjoining rooms with a different decor. Solid lumber frame.

FireGuard PLUS

Eggers' FireGuard frames have a number of advantages and features not available with solid lumber or metal frames.

Most important is the fact that frames and door lites or panels can be matched in any commercially available veneer species. This assures a superior color match when compared to solid lumber or metal frames.

The following advantages of veneered frames also apply:

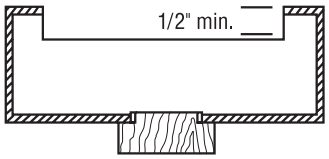
- Increased resistance to denting compared to many moderately soft hardwoods such as Mahogany, Walnut and Cherry.
- Increased stability that eliminates the risk of twisting or warping.
- Ease of repair – nicks and chips can be easily patched and touched up.
- Easier to install than a three-piece frame.
- Supplied finish sanded.
- Generally lower cost than solid lumber, especially in the more exotic species.

Optional Edge Treatments

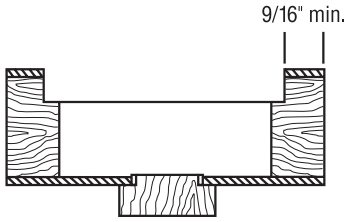
Eggers offers a variety of choices where a solid lumber edge is compatible with a specific veneer specie and where a profile or custom edge is desired. The features and options shown also apply to frames with lumber banded edges.

Wrap Around Frame Options

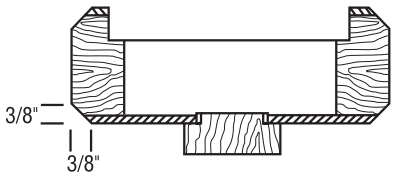
Eggers' profile options are pictured to the right. The backs are hollowed out for 2 x 4 or 2 x 6 wrap around. Check with your Eggers representative for additional profile design options.



Standard Frame
FG-H1 – Veneer Edge



Optional Frame
FG-H2 – Lumber Edge

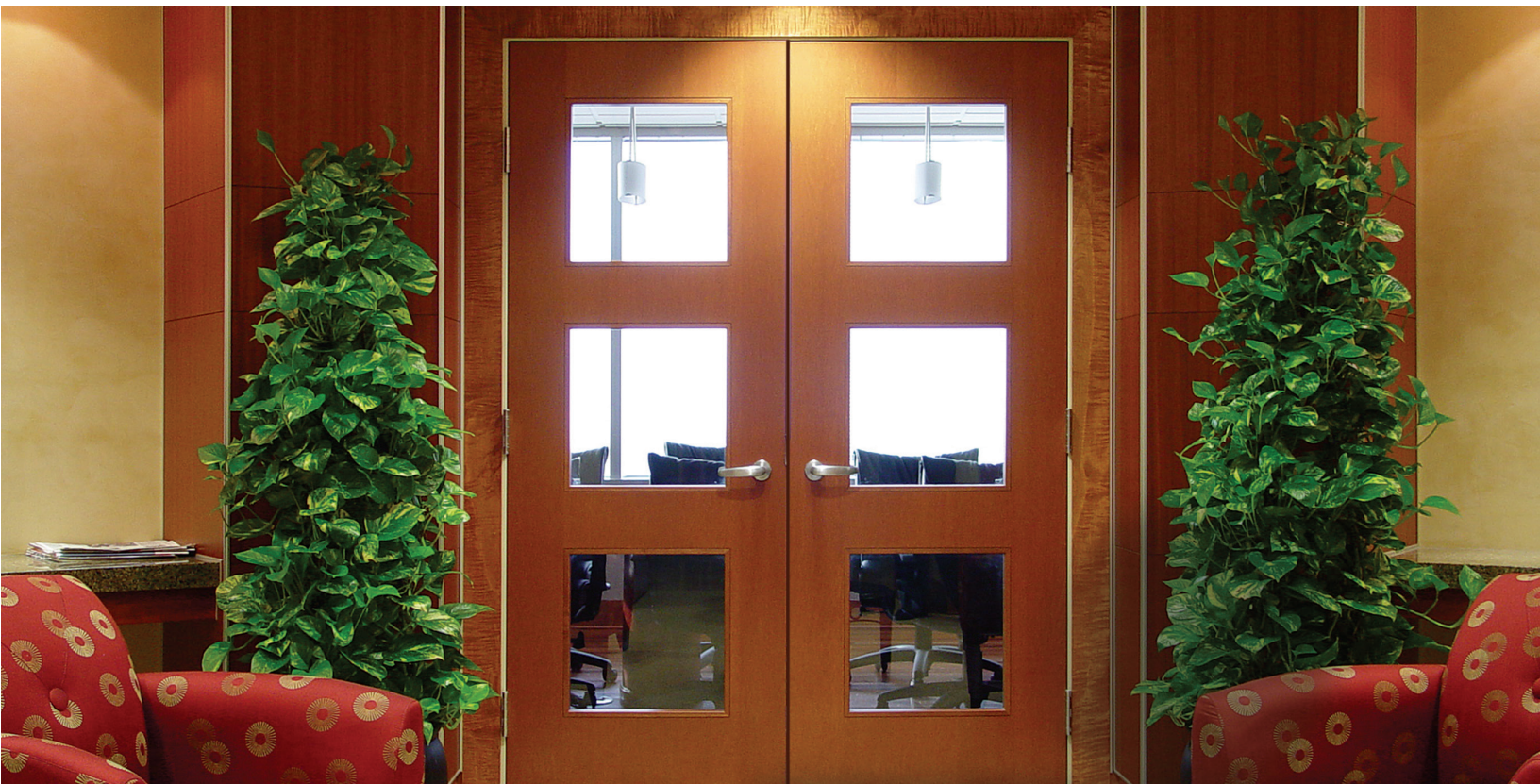


Optional Frame
FG-H3 – Bullnosed Lumber Edge

WHI	90-MINUTE FRAMES
Frame Size	1” minimum thickness, 5” minimum width
Assembly Size	8’ x 8’ maximum - singles 4’ x 8’ maximum (no sidelites, borrowed lites or transoms)
Casing	Minimum 1-3/4” wide x 3/8” thick - casing may be supplied by others
Stop Application	1-1/2” trim head screws or spiral nails with 1/8” head in pre-drilled holes spaced a maximum of 12” on center
Flat Stop Size	Minimum 1” wide x 5/8” thick
Rough Opening for 1” Frames	3” +/- wider than net opening for door (1-1/2” +/- 1/2” higher than net opening for door)
Masonry Opening	A 2” x 3” nominal dimension lumber buck frame shall be attached to masonry with 3/8” expansion masonry anchors spaced at a maximum of 26” on center
Hinges	Per NFPA #80 or Soss 220, 416 or 418 concealed hinges in 2” thick frame
Strikes	Steel mortise or surface applied for labeled flushbolts, deadlocks or latchsets
Stop Dimension from Edge of Frame	Minimum 1-7/8” on 1-3/4” doors - minimum 2-3/8” on 2-1/4” doors
Silencer Buttons	Not allowed
Corner Detail	Square cut or miter cut
Warranty	Failure to install in accordance with installation instructions will void label.

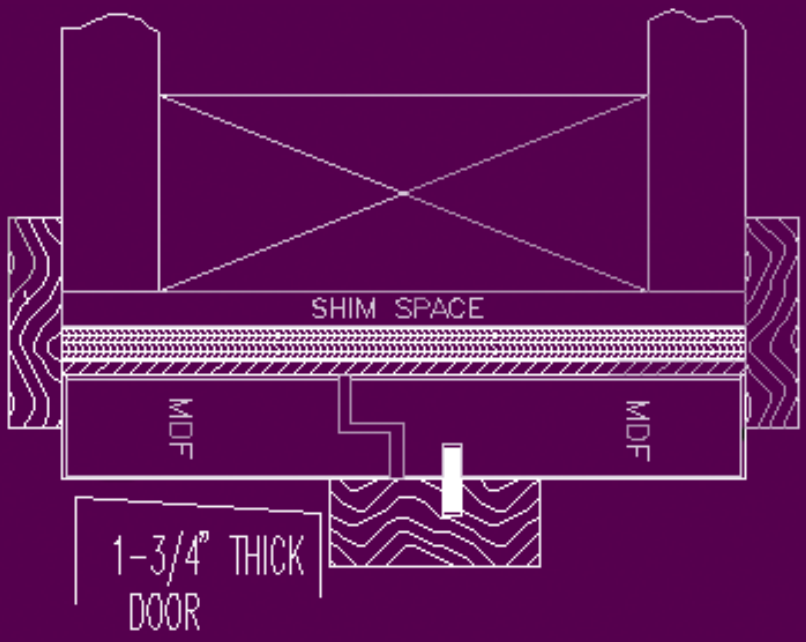
Optional Casing Details

Custom details and examples are available at www.eggersindustries.com



Acoustical Frames

Eggers' acoustical wood jambs allow the beauty of our doors to be accented with matching wood frames, designed to create a cohesive look metal frames can't match. Create a masterpiece, knowing Eggers will work diligently to make your acoustical door and frame a perfect match. Available with a STC sound test report up to and STC 45, Eggers' two piece acoustical frame is sold exclusively in combination with Eggers' acoustical doors. Please see our Acoustical Products brochure for more information.



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Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supersede those in print.

The FSC® certification ensures responsible use of forest products. 384-07-16

FSC www.fsc.org FSC® C019991 The mark of responsible forestry

RAINFOREST ALLIANCE CERTIFIED

CERTIFIED ARCHITECTURAL WOODWORK INSTITUTE QUALITY WOODWORK



EGGERS' GREEN CAPABILITIES

Eggers' expertise in sustainable practices can help contribute towards green building credits for nationally recognized environmental building programs.

Eggers Industries



Turning nature's beauty into works of art

ARCHITECTURAL DOORS, PANELING AND VENEER MATCHING

Conserving our natural resources is as much an honor as it is a responsibility at Eggers Industries. It's a philosophy and a practice that echoes throughout Eggers.



We are certified by the Rainforest Alliance to manufacture products in accordance with the Forest Stewardship Council™(FSC®) standards. Our commitment to our customers and the environment is not only a guarantee of high-quality, custom wood products, but also a promise of credits toward the Leadership in Energy and Environmental Design (LEED®) program.

- Eggers offers agricultural fiber based particleboard as well as FSC certified structural composite lumber core, stave, and particleboard core types for flush doors.
- As an FSC Chain of Custody Certified Supplier by the Rainforest Alliance, all FSC certified materials meet or exceed requirements set by the FSC. These products come from managed forests that exercise selective harvesting.
- Eggers can provide you with FSC certified wood doors, frames and architectural plywood panels within one facility. Custom applications also include ceiling tiles and office components.
- Eggers' UV cured finishing system consists of water-based stains and 100 percent solid clear coats that are free of Volatile Organic Compounds (VOC).

In addition to providing sustainable manufacturing, Eggers follows environmentally-conscious practices as a company. Recycling is a primary focus at Eggers, both in our offices and our plants. We also harness energy from waste materials to heat our facilities.

LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED®)

The United States Green Building Council (USGBC) developed LEED as a set of guidelines to provide a national standard for green building design. It's the most recognized rating system for evaluating environmental performance of commercial, institutional, governmental and high-rise residential buildings. The information provided here is based on LEED 2009-NC. You can learn more about LEED by visiting their website at usgbc.org.

Green Design incorporates design and construction practices to greatly reduce or eliminate the negative impact of buildings on the environment and occupants through:

- Sustainable site planning
- Safeguarding water and water efficiency
- Energy efficiency
- Conservation of materials and resources
- Indoor environmental quality

The LEED program is a certification process to provide a sustainability rating system. Eggers' architectural wood doors, panels and other products can assist building owners and design teams toward certification by contributing to points in the **Materials & Resources** category, as well as **Indoor Environmental Quality.** Depending on the number of points earned, the buildings can achieve Certified (40-49 points), Silver (50-59 points), Gold (60-79 points) or Platinum (80+ points) status.

LEED-2009-NC Rating System

Credits		Points
17	Sustainable Sites	**26**
4	Water Efficiency	**10**
8	Energy and Atmosphere	**35**
8	Materials and Resources	**14**
22	Indoor Environmental Quality	**15**
4	Design Process and Innovation	**10**
	Total Points Possible	**110**

Due to recent changes in FSC regulations, your company may be required to complete certification through an FSC agency. Please contact USGBC for additional information.

LEED® OPPORTUNITIES AVAILABLE WITH EGGERS' PRODUCTS

EGGERS' FLUSH DOORS[1]		MR 4: Recycled Content[3]	MR 6: Rapidly Renewable Materials	MR 7: Certified Wood[3]	EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]	Total Point Contribution with Eggers' Flush Doors
Particleboard Core		2				**2**
No UF Particleboard		2			1	**3**
FSC Certified Particleboard				1	1	**2**
Agrifiber		2	1		1	**4**
Agrifiber with FSC Certified Components		2	1	1	1	**5**
Stave Lumber		2			1	**3**
FSC Certified Stave Lumber				1	1	**2**
SCL		2			1	**3**
FSC Certified SCL				1	1	**2**
45-90 Minute Mineral Core		2			1	**3**
EGGERS' STILE & RAIL DOORS[1]		**MR 4: Recycled Content[3]**	**MR 6: Rapidly Renewable Materials**	**MR 7: Certified Wood[3]**	**EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]**	**Total Point Contribution with Eggers' S & R Doors**
SCL Core - Lite Door		2			1	**3**
SCL Core- Panel Options	Particleboard	2				**2**
	MDF	2				**2**
	No UF MDF	2			1	**3**
FSC Certified Stave Core - Lite Door		2		1	1	**4**
FSC Certified Stave Core - Panel Options	FSC Certified/No UF MDF	2		1	1	**4**
45-90 Minute - Lite Door		2			1	**3**
45-90 Minute Panel Options	Membrane	2			1	**3**
	Rim	2			1	**3**
EGGERS' DOOR FRAMES[1]		**MR 4: Recycled Content[3]**	**MR 6: Rapidly Renewable Materials**	**MR 7: Certified Wood[3]**	**EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]**	**Total Point Contribution with Eggers' Door Frames**
Lumber				1	1	**2**
MDF		2				**2**
No UF MDF		2			1	**3**
FSC Certified		2		1	1	**4**
90-Minute					1	**1**
EGGERS' PANELS[1]		**MR 4: Recycled Content[3]**	**MR 6: Rapidly Renewable Materials**	**MR 7: Certified Wood[3]**	**EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]**	**Total Point Contribution with Eggers' Panels**
Particleboard or MDF*		2				**2**
No UF Particleboard or MDF*		2			1	**3**
FSC Certified Particleboard or MDF		2		1	1	**4**
Veneer Core					1	**1**

[1] Additional point contributions may be available for MR #5.1 and MR #5.2 if the materials are extracted, harvested, recovered and manufactured within 500 miles of the jobsite and Eggers' manufacturing facilities. Contributions are contingent on the design and layout of the product in question. [2] The product construction is only urea-formaldehyde free if it is ordered as urea-formaldehyde free. The core is urea-formaldehyde free, but the doors need to be constructed urea-formaldehyde free to contribute to this credit. [3] Per USGBC guidelines, the value of any content that contributes to MR #4 cannot be attributed to MR #7.0 calculation.* Only particleboard is available as UL Class A Label.

LEED® QUICK REFERENCE CHART FOR DOORS

Credit	Criteria	Intent
MATERIALS & RESOURCES		
4.0	**Recycled Content** 10 percent (post-consumer + 1/2 pre-consumer)	Increase demand for building products that incorporate recycled content materials, thereby reducing impact resulting from extraction and processing of virgin material
	Recycled Content 20 percent (post-consumer + 1/2 pre-consumer)	
5.0	**Regional Materials** 10 percent extracted, processed and manufactured regionally	Increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting indigenous resources and reducing environmental impact from transportation
	Regional Materials 20 percent extracted, processed and manufactured regionally	
6.0	**Rapidly Renewable Materials**	Reduce the use and depletion of finite raw materials and long-cycle renewable materials by replacing them with rapidly renewable materials
7.0	**Certified Wood**	Encourage environmentally responsible forest management
INDOOR ENVIRONMENTAL QUALITY		
4.4	**Low-Emitting Materials** Composite wood and agrifiber contains no added urea-formaldehyde	Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants





Eggers Industries

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Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supersede those in print.

The FSC certification ensures responsible use of forest products. 501-09-14
Look for FSC certified products.

FSC www.fsc.org FSC® C019991
The mark of responsible forestry

RAINFOREST ALLIANCE CERTIFIED

CERTIFIED ARCHITECTURAL WOODWORK INSTITUTE QUALITY WOODWORK

CERTIFIED INDOOR AIR QUALITY SCS GLOBAL SERVICES
INDOOR ADVANTAGE GOLD BUILDING MATERIALS

SOUNDWOOD ACOUSTICAL PRODUCTS

Eggers Industries melds technology with style to produce beautiful, high-performing acoustical doors and frames.

Eggers Industries

Soundwood™
ACOUSTICAL WOOD PRODUCTS BY EGGERS



Turning nature's beauty into works of art



SOUNDWOOD ACOUSTICAL PRODUCTS

Eggers' sound control openings have the highest STC ratings in the industry, made of solid wood and wood composite based materials. Our capabilities allow combinations of acoustical performance and other special functionalities to meet design requirements and building codes. Eggers' STC doors and frames are found in airports, healthcare, and hospitality facilities, government and municipal buildings as well as educational institutions. Typical applications of our acoustical doors and frames include performance venues, conference rooms, lecture halls, auditoriums, and classrooms.

Our acoustical products include doors and frames that have been evaluated for sound transmission at a qualified testing laboratory using ASTM standard test method E-90-XX (where XX refers to the year). To ensure applicable data, make certain the products you are specifying reference an acceptable revision date of the test method. Products tested with old standards may not provide the same level of performance as those tested with newer versions.

Acoustical Performance Testing Methods

There are two ways to test and report the acoustical performance of doors. The first is as a fixed panel. This is done by fully sealing the door to frame perimeter and eliminating any sound leaks around the door perimeter. This type of test is helpful in determining the performance of the basic construction, but does not represent an operational application.

The second method is to test an operable assembly. In this case, the door is installed in a frame, including hinging and latching hardware as well as a gasketing system. In addition to including all of the required components of an operable assembly, the test method requires the door be operated normally through five open/close cycles, without subsequent adjustments, prior to running the acoustic test. This test method provides more useful performance values than an inoperable test. When comparing STC ratings, be sure that the ratings represent operable doors. While Eggers conducts research and development tests of many of our constructions as sealed panels, the advertised STC numbers are always for operable assemblies.

Eggers has generally limited the variables tested to the door construction, application and the gasketing system. With a few notable exceptions shown on our product matrix, we have limited our testing to readily available hardware and gasketing materials, ADA approved thresholds (where applicable), and steel frames. A special note regarding frames is appropriate here. Where steel frames are used in testing, they are normally fully grouted with cement. This is a standard method of installation at testing laboratories and is done to insure the resulting STC rating represents only the doors and gasketing system. This is not meant to restrict the openings in which acoustic doors are used. In many circumstances, existing frames or installation conditions may prevent the use of a solid filled frame. Where other types of fill are used, an acoustic consultant should be employed to determine if the alternate fill will maintain the desired acoustic performance for the opening. As long as the framing provides an acoustic performance equal or greater than the door rating, the advertised STC will be maintained.

The relevance chart below is given as a general guideline of the effect various STC ratings have on speech being heard through the door.

Advantages of Eggers Acoustic Doors

Eggers has conducted acoustic tests on all of our standard door constructions. In many cases where the acoustics properties need to be known, but are not the primary objective, gasketing a standard door construction may be all that is required. When the project design requires acoustic performance above and beyond the standard doors, Eggers has designed and tested a full line of specialty constructions. Benefits offered by this broad range of products include:

STC Rating	Speech heard through the door
30	Loud speech can be understood fairly well
35	Loud speech audible but not understandable
40	Loud speech audible as a murmur
45	Loud speech barely audible
50	Loud speech not audible

- STC ratings ranging from 38 through 52
- Applications that include single swing, standard swing pairs, doors and transoms and dutch doors
- Acoustic rating for both flush doors and stile and rail doors.
- Applications without lites, with small lites (100 sq. in.), medium sized lites (400 sq. in.), large lites (1296 sq. in.) and even full lites
- Applications with 20-minute, 45-minute, 60-minute, and 90-minute fire ratings
- Applications that provide x-ray protection as well as acoustical performance
- Applications tested in wood frames
- Applications for airport housing noise abatement programs

Specialized Constructions

A variety of components are used to provide the performance range of our acoustic products, alone or in combination with applicable fire, bullet-resistance, and X-ray protection. These components make 4' x 8' the practical maximum door dimension. Contact the technical department for applications requiring larger doors.

Guaranteed STC Ratings

The STC rating of acoustic doors depends on two things: the components used (doors and gasketing) and their installation. While Eggers does not perform installation, we are still able to guarantee our doors meet the advertised STC ratings when properly installed using the door construction, hardware, seals, and where applicable, the lites described in our STC Product Offering Matrix. This guarantee is given with confidence because of the stringent tests we conduct on all acoustic assemblies. The Eggers name alone is your assurance of the highest standards possible.

While we encourage use of these tested assemblies, we also recognize the need for substitutions such as a different type of glazing or alternate gasketing. In such cases where there is no test report for the final assembly, Eggers will provide the same door construction used for the tested assembly, but without a “guaranteed” STC rating. This allows for increased design flexibility starting with a proven door construction. We recommend the use of an acoustic consultant to review the final assembly whenever substitutions are made.

As stated above, the final performance depends heavily on the installation. The best acoustic doors will fail to meet expectations if they are improperly installed. Acoustic applications are special, they generally involve close tolerances that require square and plumb openings. The acoustic assemblies have been designed such that the seals are uniform between the door and the fixed elements of the opening. Do not expect an acoustic door to compensate for poor frame installation. It is better to fix the opening before installing the door. Likewise, insuring properly installed and adjusted gasketing will avoid remedial work. Extra time spent ensuring a good installation will pay off in superior quality sound control.

When gasketing an acoustic opening, a good analogy is to think about sealing out sound like you would seal out light in a dark room. Wherever light can leak through the opening, so will sound. A simple field test after the assembly is fully installed is to close the door, turn out the lights on one side of the door and, after allowing your eyes to adjust to the darkness, inspect the seals for light leaking through the assembly. To further aid in this test, have someone shine a bright light around the perimeter on the opposite side as you inspect for leaks. Preventing or solving installation issues will address over 95% of unsatisfactory acoustic assemblies.

STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Single Swing	52	1-3/4"	NR	S or T	NA	---	---	12.0	C5765.03	SG14
	51	1-3/4"	NR	S, T, or U	NA	---	---	12.0	C5765.03	SG14
	51	2 1/4"	20	A	NA	---	---	15.8	TL94-37	SG6
	50	1-3/4"	NR	S, T, or U	NA	---	---	12.0	C5765.03	SG14
	50	1-3/4"	NR	S or T	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C5765.04	SG14
	49	1-3/4"	NR	U	NA	---	---	12.0	C5765.03	SG14
	49	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	49	1-3/4"	NR	S or T	NA	---	---	10.5	"E1460.03-113-11-R0 C7672.03A"	SG16A
	48	1-3/4"	NR	S, T, or U	NA	---	---	10.5	"E1460.03-113-11-R0 C7672.03B"	SG16A
	48	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	48	1-3/4"	20	A	NA	---	---	13.7	TL97-320	SG5
	48	2-1/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	15.8	TL95-350	SG6
	47	1-3/4"	NR	S, T, or U	NA	---	---	10.5	"E1460.03-113-11-R0 C7672.03A"	SG16
	47	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	47	2 1/4"	20	A	VP:110-D2	Pyroswiss / 1/2" Laminated	400 (max)	15.8	TL95-351	SG6
	47	1-3/4"	60-45	A	NA	NA	NA	15.7	TL03-023	SG8
	47	1-3/4"	60-45	S, T, or U	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	15.4	"E1460.05-113-11-R0 C7672.02K-113-17-R0"	SG8
	46	1-3/4"	NR	S, T, or U	NA	---	---	10.5	"1460.03-113-11-R0 C7672.03A"	SG16
	46	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	45	1-3/4"	20	A	NA	---	---	7.7	TL94-220	SG4
	44	1-3/4"	20	I	NA	---	---	7.7	TL10-134	SG4 (4)
	43	1-3/4"	NR	P	NA	---	---	7.9	100534284CRT-001k	SG4
	43	1-3/4"	20	A	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	100 (max)	7.7	TL03-020	SG4
	43	1-3/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	7.7	TL03-019	SG4
	43	1-3/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	13.6	TL03-022	SG5
	42	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	42	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	42	1-3/4"	NR	A	Bead: 107	1/2" Laminated	400 (max)	7.7	TL03-021	SG4
	42	1-3/4"	60-45	S	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	13.6	"E1460.06-113-11-R0 C7672.02M-113-17-R0"	SG13
	42	1-3/4"	60-45	T	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	13.6	"E1460.06-113-11-R0 C7672.02M-113-17-R0"	SG13

Non-rated openings STC45 or lower available with Eggers acoustic wood frame
FSC® certification is available where core type is PC, SCL, SLC, SG3, or SG11
All acoustic doors are available as "No Added UF" and "Phase 2 Carb Compliant"

STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Single Swing	41	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	41	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	41	1-3/4"	NR	B	Bead: 107	1/2" Laminated	400 (max)	6.5	TL03-012	SG3
	41	1-3/4"	NR	B	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	6.5	TL03-013	SG3
	41	1-3/4"	20	A	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	400 (max)	7.7	TL95-348	SG4
	41	1-3/4"	60-45	S or T	NA	---	---	13.6	"E1460.06-113-11-R0 C7672.02O-113-17-R0"	SG13
	41	1-3/4"	60-45	U	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	13.6	"E1460.06-113-11-R0 C7672.02N-113-17-R0"	SG13
	40	1-3/4"	45	S or T	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	7.6	"E1460.04-113-11-R0 C7672.02G-113-17-R0"	SG7
	40	1-3/4"	60-45	U	NA	---	---	13.6	"E1460.06-113-11-R0 C7672.02P-113-17-R0"	SG13
	40	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	40	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	40	1-3/4"	NR	M	Bead: 110	1-1/8" Non-Rated IGU	1296 (max)	6.7	TL10-141	SG3
	40	1-3/4"	20	B	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	400 (max)	7.7	TL95-347	SG4
	40	1-3/4"	90-60-45	C	NA	---	---	7.6	TL06-051	SG9
	39	1-3/4"	45	S	NA	---	---	7.6	"E1460.04-113-11-R0 C7672.02I-113-17-R0"	SG7
	39	1-3/4"	45	T	NA	---	---	7.6	"E1460.04-113-11-R0 C7672.02I-113-17-R0"	SG7
	39	1-3/4"	45	U	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	7.6	"E1460.04-113-11-R0 C7672.02H-113-17-R0"	SG7
	39	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	39	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	39	1-3/4"	90-60-45	I	NA	---	---	7.7	TL06-053	SG9
	38	1-3/4"	45	U	NA	---	---	7.6	"E1460.04-113-11-R0 C7672.02J-113-17-R0"	SG7
	38	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	38	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	38	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (max)	6.7	C7672.01B	SG3
	37	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (max)	6.7	C7672.01B	SG3
	37	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	37	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	37	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	Full Lite (min 47% of area)	5.9	TL05-052	SCL
	37	1-3/4"	60-45	I	VP: 115-L1	Firelite Plus / Leaded	100 (max)	10.3	TL05-126	SG13
	37	1-3/4"	20	I	Bead: 100	Firelite Plus	400 (max)	6.0	TL05-051	SG3
	36	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (max)	6.7	C7672.01B	SG3
	36	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	36	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	36	1-3/4"	20	P	NA	---	---	6.3	100534284CRT-001l	SG11

Non-rated openings STC45 or lower available with Eggers acoustic wood frame
FSC® certification is available where core type is PC, SCL, SLC, SG3, or SG11
All acoustic doors are available as "No Added UF" and "Phase 2 Carb Compliant"

STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Single Swing	36	1-3/4"	60-45	I	NA	---	---	10.2	TL05-125	SG13
	36	1-3/4"	20	N	NA	---	---	7.1	100534284CRT-001f	SG3
	35	1-3/4"	20	M	NA	---	---	10.0	TL10-142	BR3
	35	1-3/4"	90-60-45	U	NA	---	---	7.2	A5305.02-113-11	GC
	35	1-3/4"	NR	I	Bead: 107	1/2" Laminated	1296 (min)	6.2	TL10-138	PC
	35	1-3/4"	NR	O	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	7.3	TL10-144	SG11
	35	1-3/4"	20	I	NA	---	---	7.3	TL10-136	SG11
	35	1-3/4"	NR	I	NA	---	---	7.3	TL10-136	SG11
	35	1-3/4"	20	U	NA	---	---	7.3	TL10-136	SG11
	35	1-3/4"	NR	U	NA	---	---	7.3	TL10-136	SG11
	34	1-3/4"	NA	B	Bead: 107	1/2" Laminated	1296 (min)	6.2	TL10-138	PC
	34	1-3/4"	NA	I	LoPro IS	1/2" Laminated	400 (min)	6.1	TL10-135	PC
	33	1-3/4"	NA	I	Bead: 107	1/2" Laminated	400 (min)	6.1	TL10-133	PC
	33	1-3/4"	20	Q	NA	---	---	6.9	100534284CRT-001n	SCL
	32	1-3/4"	20	Q	NA	---	---	5.5	100534284CRT-001o 100534284CRT-001p	PC
	32	1-3/4"	20	I	NA	---	---	6.9	TL06-059	SCL
	32	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	6.9	TL06-059 & TL97-313	SCL
	32	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	6.9	TL06-059 & TL03-013	SCL
	32	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	6.9	TL06-059 & TL03-012	SCL
	32	1-3/4"	20	N	NA	---	---	6.9	100534284CRT-001b	SCL
	31	1-3/4"	20	I	NA	---	---	5.8	TL06-058, TL10-129	PC
	31	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	5.8	TL06-058 & TL97-313	PC
	31	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	5.8	TL06-058 & TL03-013	PC
	31	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	5.8	TL06-058 & TL03-012	PC
	31	1-3/4"	NR	N	NA	---	---	5.5	100534284CRT-001a	PC
	30	1-3/4"	20	I	NA	---	---	4.6	TL06-056	SLC
	30	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	4.6	TL06-056 & TL97-313	SLC
	30	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	4.6	TL06-056 & TL03-013	SLC
	30	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	4.6	TL06-056 & TL03-012	SLC
	29	1-3/4"	90-60-45	I	NA	---	---	4.4	TL06-057	MC
	27	1-3/4"	20	I	NA	---	---	4.9	TL07-035	AGR
	27	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	4.9	TL07-035 & TL97-313	AGR
	27	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	4.9	TL07-035 & TL03-013	AGR
	27	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	4.9	TL07-035 & TL03-012	AGR
Stylus	33	1-3/4"	20	I	NA	---	---	5.5	TL07-057	PC
	32	1-3/4"	20	I	NA	---	---	6.2	TL07-058	SCL
	31	1-3/4"	90-60-45	I	NA	---	---	4.3	TL07-059	MC

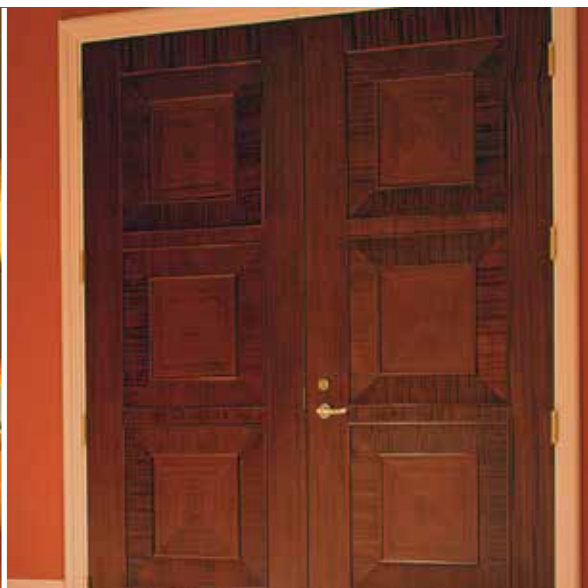
Non-rated openings STC45 or lower available with Eggers acoustic wood frame
FSC® certification is available where core type is PC, SCL, SLC, SG3, or SG11
All acoustic doors are available as "No Added UF" and "Phase 2 Carb Compliant"

STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Active-Inactive Pairs[1]	49	1-3/4"	20	A	NA	---	---	13.7	TL98-238	SG5
	44	1-3/4"	20	A	NA	---	---	7.7	TL98-236	SG4
	41	1-3/4"	20	B	NA	---	---	7.7	TL98-233	SG4
Flush Active-Active Pairs [2]	41	1-3/4"	20	K	NA	---	---	6.2	TL08-007	SG3
	40	1-3/4"	NR	K	Bead: 100	1/2" Laminated	400 (max)	6.3	TL08-009	SG3
	34	1-3/4"	45	K	VP: Lo-Pro IS	Superlite II-XL-45	Full Lite (min 47% of area)	6.5	TL11-111	MC
	31	1-3/4"	90-60-45	K	NA	---	---	7.2	TL11-110	GC
	31	1-3/4"	20	K	NA	---	---	6.4	TL11-112 TL11-113	SCL
Dutch Door	44	1-3/4"	20	A	NA	---	---	7.7	TL98-237	SG4
Door & Transom	44	1-3/4"	20	A	NA	---	---	7.7	TL98-237	SG4
Communicating	53	1-3/4"	20	B	NA	---	---	7.7	TL93-219	SG4
Stile & Rail Single Swing	40	1-3/4" (1-11/16")	NR	B	NA	---	---	8.3	TL99-120	SG12
	40	1-3/4" (1-11/16")	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	8.3	TL99-122	SG12
	39	1-3/4" (1-11/16")	NR	I	Bead: 110	1-1/8" Non-Rated IGU	1296 (max)	7.0	TL05-123	SG12
	38	1-3/4" (1-11/16")	NR	S or T	NA	---	---	7.6	"E1460.07-113-11-R0 C7672.02Q-113-17-R0"	SG12
	38	2 ¼" (1-7/8")	90-60-45	A	NA	---	---	12.5	TL97-321	MC
	37	1-3/4" (1-11/16")	NR	U	NA	---	---	7.6	"E1460.07-113-11-R0 C7672.02R-113-17-R0"	SG12
	37	2 ¼" (1-7/8")	90-60-45	B	NA	---	---	12.5	TL97-312	MC
	36	1-3/4" (1-3/4")	60-45	B	NA	---	---	9.7	TL97-317	MC
	33	1-3/4" (1-1/2")	20	B	NA	---	---	5.9	TL94-41	SCL
	33	2 ¼" (1-1/2")	20	B	NA	---	---	6.9	TL97-311	SCL
Stile & Rail Active-Active Pairs	37	1-3/4" (1-11/16")	NR	K	NA	---	---	7.9	TL11-109	SG12
	35	1-3/4" (1-3/4")	60-45	K	NA	---	---	10.2	TL11-108	MC
	32	1-3/4" (1-1/2")	20	K	NA	---	---	5.9	TL11-107	SCL

[1] Test was conducted as an active/inactive pair installation and requires Eggers' overlapping wood astragal.
[2] Test was conducted as an active/active pair with top latching surface hardware.







ACOUSTICAL GASKETING AND UNDERCUTTING		
Gasket System	**Components**	**Required Undercut**
A	Double row Pemko S-88 gasket, Pemko 434_ARL door bottom, Pemko 2005_AT threshold	1/2"
B	Double row Pemko S-88 gasket, Pemko 434_ARL door bottom	1/4"
C	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 2005_AT threshold	3/8"
I	Double row Pemko S-88 gasket, Pemko PDB411_AE door bottom	3/8" (1/4"-1/2")
K	Double row Pemko S-88 gasket and pad on frame, Pemko PDB411_AE door bottom, one row of Pemko S-1125 on each meeting edge	3/8" (1/4"-1/2")
M	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 151 flat threshold	3/8"
N	DHSI 105, DHSI AMDB3-3, & DP*	1/4"
O	Pemko 773, Pemko 234 door shoe, Flat smooth threshold	3/8"
P	DHSI 105, SA, CS, DP	3/8"
Q	DHSI 105, Pemko 2005_AT	3/8"
S	2008_APK Threshold, S44 and 312R	3/8"
T	2008_APK Threshold, S773 and S44	3/8"
U	Pemko PDB411_AE, S773, S44 and ACP112	3/8" (1/4"-1/2")

**DP375 is used for the Solid Wood Edge Option (SWE); DP250 is used for full width mortise or CS*





SOUNDWOOD ACOUSTICAL WOOD FRAMES

Eggers' acoustical wood jambs allow the beauty of our doors to be accented with matching wood frames designed to create a cohesive look metal frames cannot match. Create a masterpiece, knowing Eggers will work diligently to make your acoustical door and frame a perfect match. Available with an STC sound test report up to an STC 45, Eggers' two piece acoustical frame is sold exclusively in combination with Eggers' acoustical doors.

Elegant

Eggers' acoustical frames are available in virtually any veneer and finish color and offers quality control unparalleled in the acoustical wood door market. No longer is a metal frame with wood casing necessary for aesthetic appeal. Perfect for the grand entrance to a concert hall or the distinction of a boardroom, Eggers' acoustical wood frames complement our acoustical doors perfectly.

Functional

Eggers' STC doors and frames are found in healthcare and hospitality facilities, government and municipal buildings as well as educational institutions. Typical applications include performance venues, conference rooms, lecture halls, auditoriums, and classrooms.

Two Piece Acoustical Jamb Installation Instructions

Maximum Overall Opening	50-11/16" wide x 121-11/32" high (frame buck opening)
Maximum Door Opening	Single–4-0 x 10-0
Wall Depth	Minimum–4-7/8"
Wall Type	Wall must be constructed to meet the STC rating and lined with a wood stud for jamb attachment
Gasketing	Refer to gasketing installation instructions for the specific STC door rating selected from the STC Product Offerings chart

Note: Soundwood Acoustical Frames are veneer-wrapped and will maintain the opening rating with doors rated up to STC 45.

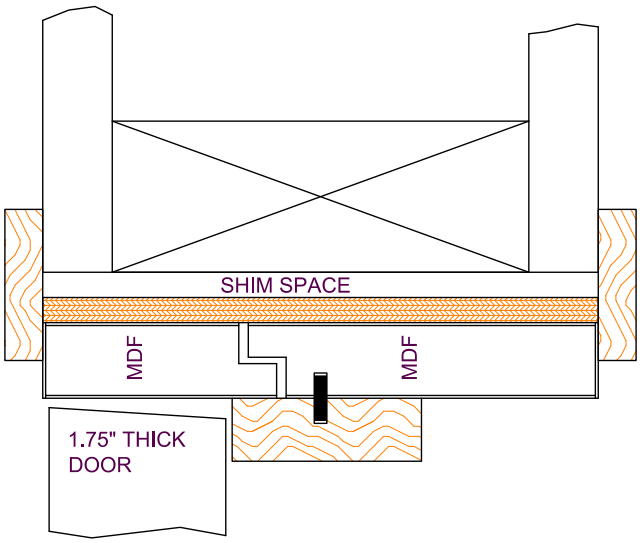
Door side of jamb is shimmed and installed first with #8 x 1-1/2" screws spaced a maximum of 4" from each end and 24" on center.

Stop side of jamb is then installed flush with the wall. Space in between the two jamb components is okay.

Attach stop side of jamb with #8 x 2" screws or 8d finishing nails spaced a maximum of 6" from the end and 24" on center. Fasteners can be located underneath the stop.

One #8 x 2" screw or 8d finish nail should be located at each hinge pocket and strike pocket on the door side of jamb before the hardware is installed.

Shim space is a maximum of 1/4" and must be tightly filled with fiberglass insulation



Flat Stop

Minimum 5/8" thick x 1-1/2" wide. Flat stops are installed with a 1/8" x 7/16" HDF spline and #4 finish nails or 18 gage x 1-1/2" long brads spaced maximum 4" from each end and 16" on center.

Casing

Minimum 3/8" thick x 1-1/2" wide. Casing is installed with minimum #4 finish nails spaced maximum 4" from each end and 16" on center and staggered.

ECOUSTICS

Acoustical Architectural Plywood



Plywood that looks beautiful and creates an environment that sounds great too. Eggers' acoustical plywood helps to reduce reverberation and noise pollution overall. Functionality and high-quality performance are matched with the beauty of an Eggers' plywood product.

SOUNDWOOD ACOUSTICAL PLYWOOD PANELS

Acoustical Performance Testing Methods

The Soundwood Ecoustics line of architectural plywood is tested differently from our acoustical door line. Two different values are captured:

- NRC–Noise Reduction Coefficient: a measure of how effective a material is at absorbing sound.
- SAA–Sound Absorption Average: the amount of sound absorbed by a surface finish.

There are two common mounting methods for plywood paneling, known as “A” mounting and “E” mounting. The “A” mounting is used to test wall panels. The “E” mounting is used to test ceiling panels and is typically given a three digit suffix, e.g. “E-400.” This represents the depth (in millimeters) of the sealed airspace behind the acoustical material tested. The “E” mounting method is typically used for acoustical ceiling tiles.

The ASTM C423 test standard is the standard test method for sound absorption and sound absorption coefficients by the reverberation room method.

All building materials have some acoustical properties that they will absorb, reflect, or transmit sound striking them. Conventionally speaking, acoustical materials are those materials designed and used for the purpose of absorbing sound that might otherwise be reflected. Sound absorption is defined as the incident sound that strikes a material and is not reflected back.

For the vast majority of conventional acoustical materials, the material thickness has the greatest impact on the material’s sound absorbing qualities. While the inherent composition of the acoustical material determines the material’s acoustical performance, other factors can improve or influence the acoustical performance. Incorporating an air space behind an acoustical ceiling or wall panel often serves to improve low frequency performance.





Installation Instructions

The manufacturers of the gasketing, door bottom, thresholds will generally provide a set of installation instructions with their components. In addition, Eggers has developed a set of installation instructions for each of the gasketing systems indicated in the product offering chart. This information is meant to augment those instructions.

Perimeter gasketing is intended to form a seal between the door leaf and the frame. Most of the systems used with Eggers doors include a double row of frame applied seals to accomplish this. If necessary due to installation clearances the seals allow a limited amount of re-positioning to assure adequate contact with the closed door.

Where used, raised thresholds should be adjusted and secured based on the position of the closed door. The threshold seal should make uniform contact with the door surface. Avoid excessive force between the door and threshold as this can hold the door away from the frame seals.

Auto door bottoms should be properly sized to the door width. Avoid undersizing them as this will prevent a good seal and allow sound to “leak” past.

There are several glazing options within Eggers approvals. Eggers recommends factory glazing of acoustic doors, where our controlled environment and installers familiar with the process can ensure proper sealing.

Where doors are to be field glazed, a good seal must be made between all of the components, regardless of the glazing system used. The best way to do this is with a small bead of 100% pure silicone. The seal does not have to be thick, but it must be continuous.

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Flush Doors, eiDoor®

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Architectural Veneer Faces, Custom Wood Products, Plywood

Kentucky Division
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Fax: 502.845.0615

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The FSC certification ensures responsible use of forest products. 301-08-15

Look for FSC certified products.

R08.17

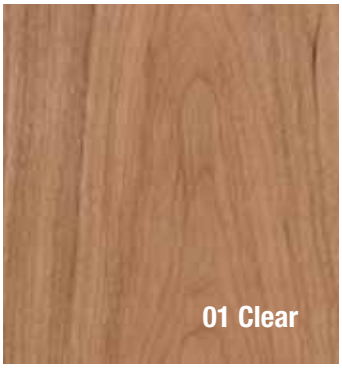
FSC www.fsc.org FSC® C019991 The mark of responsible forestry

RAINFOREST ALLIANCE CERTIFIED

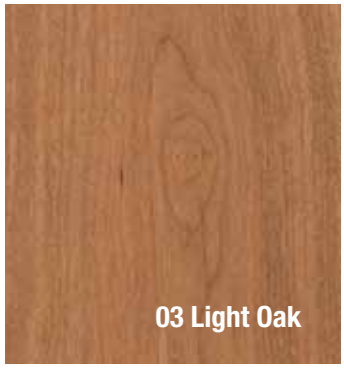
CERTIFIED QUALITY WOODWORK

STANDARD FINISH SELECTOR GUIDE

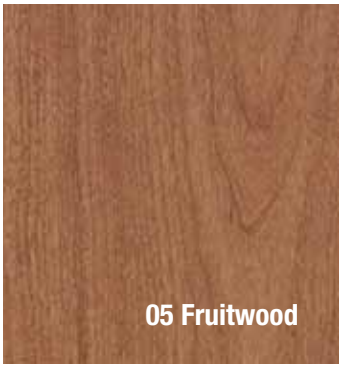
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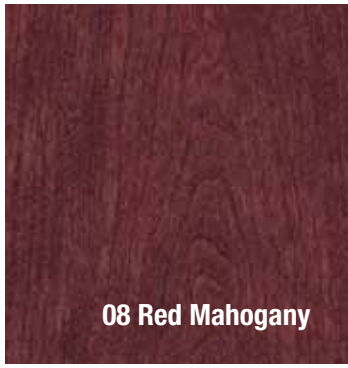












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for cherry doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



Eggers Industries

Stile & Rail Doors, Door Frames, Plywood

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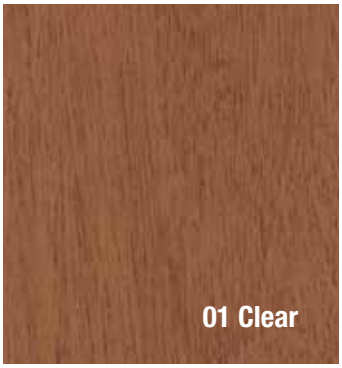
Flush Doors

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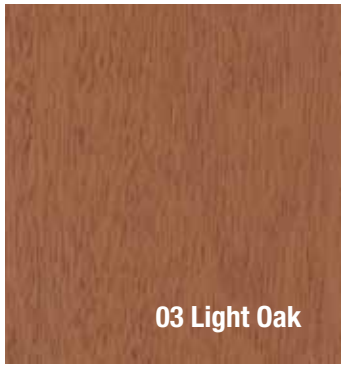
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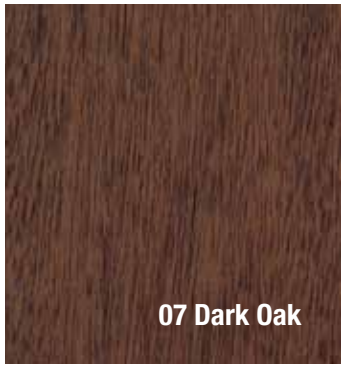


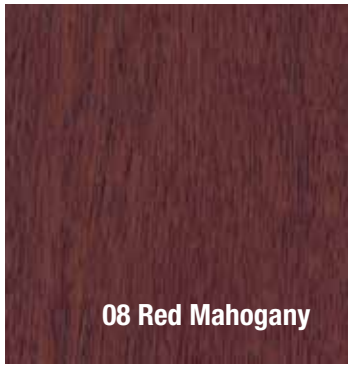












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for mahogany doors that are unfinished, finished clear, or finished with stains.

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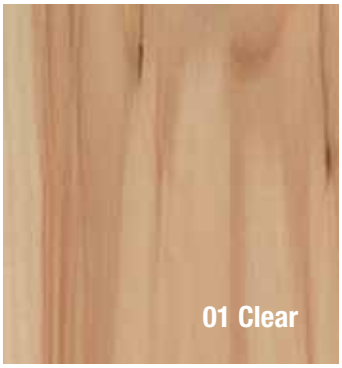
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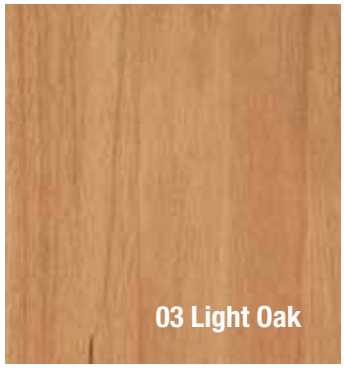
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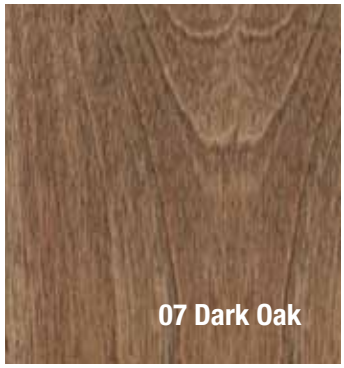


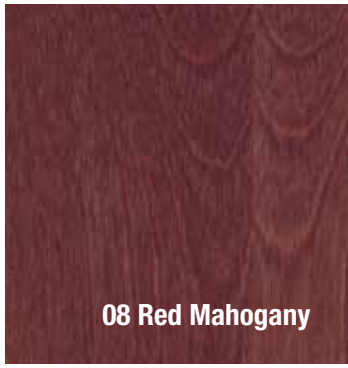












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for natural birch doors that are unfinished, finished clear, or finished with stains.

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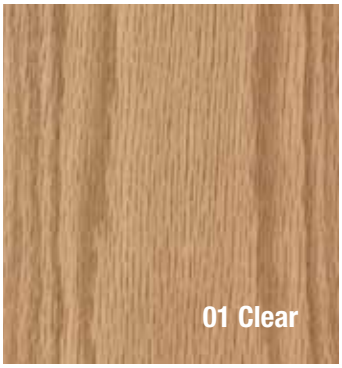
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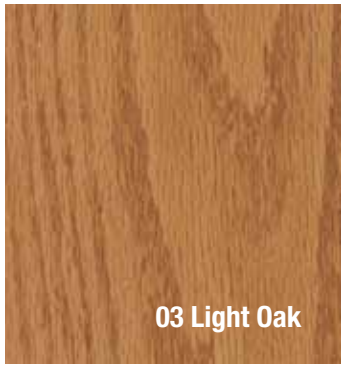
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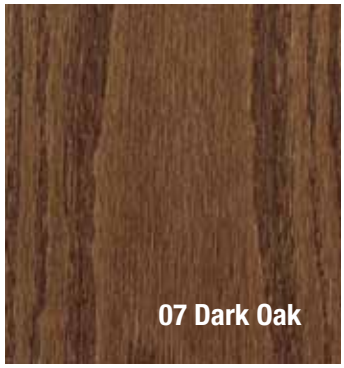


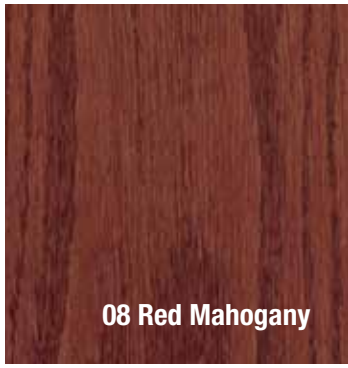












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for red oak doors that are unfinished, finished clear, or finished with stains.

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Flush Doors

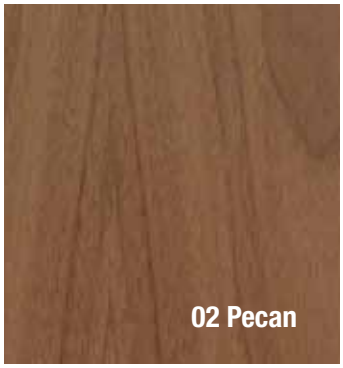
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Fax: 920.722.0357
email: sales@eggersindustries.com

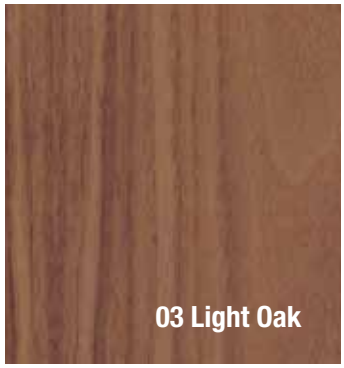
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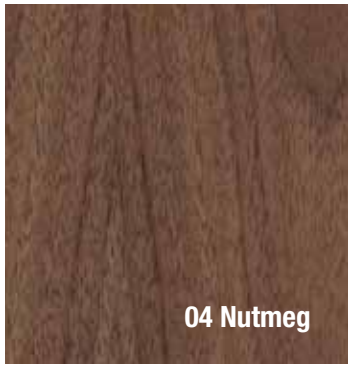
STANDARD FINISH SELECTOR GUIDE

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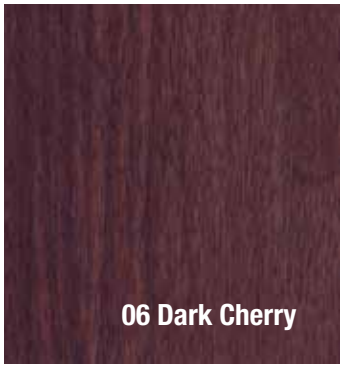


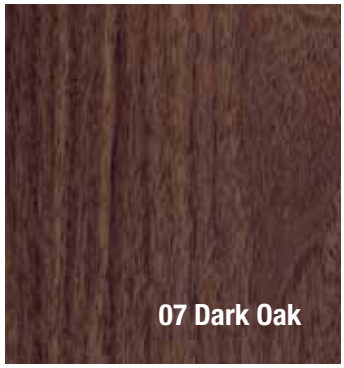














Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for walnut doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



Eggers Industries

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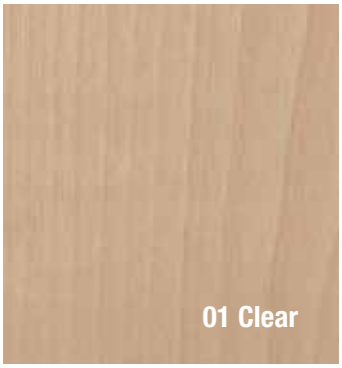
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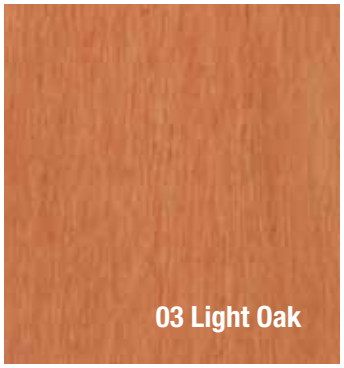
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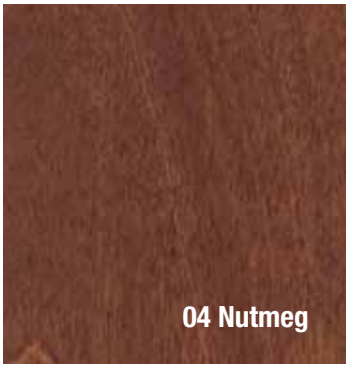
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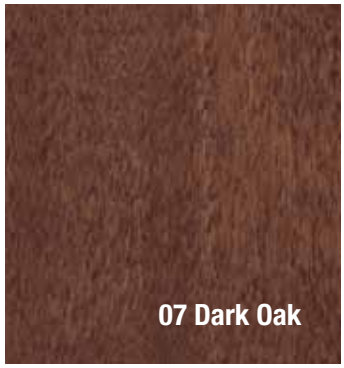














Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for white birch doors that are unfinished, finished clear, or finished with stains.

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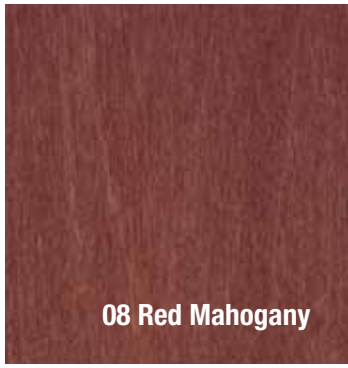












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for white maple doors that are unfinished, finished clear, or finished with stains.

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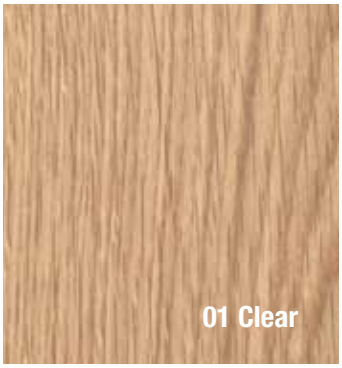
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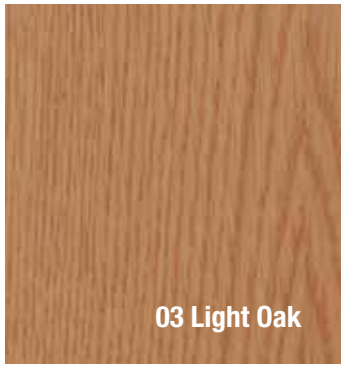
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STANDARD FINISH SELECTOR GUIDE

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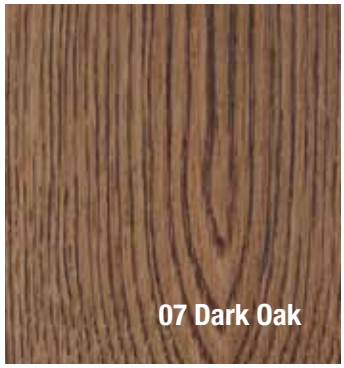


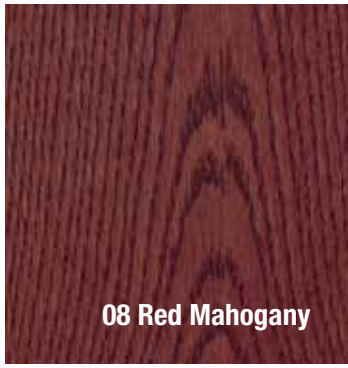












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for white oak doors that are unfinished, finished clear, or finished with stains.

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Care, Handling, and Maintenance

Installation Instruction 101

Date: September 2017

Eggers Industries

The information included in this guideline is presented to help maintain your high quality wood doors. It includes the same basic information published by the Window and Door Manufacturers Association in Industry Standard I.S.-1A, as well as additional instructions specific to maintaining specialty doors.

STORAGE AND HANDLING

1. Store doors flat on a level surface in a dry, well-ventilated building. Doors should be kept at least 4 in. (102 mm) off the floor and should have protective coverings under the bottom door and over the top. Covering should protect doors from dirt, water, and abuse but allow for air circulation under and around the stack.
2. Avoid exposure of interior doors to direct sunlight. Certain species (e.g., cherry, mahogany, walnut, and teak) are more susceptible to discoloration if exposed to sunlight or some forms of artificial light.
3. Do not subject interior doors to extremes of heat and/or humidity. Do not allow doors to come in contact with water. Buildings where humidity and temperature are controlled provide the best storage facilities (recommended conditions 25%-55% RH and 50°F-90°F (10°C to 32°C).
4. Do not install doors in buildings that have wet plaster or cement. Do not store doors in buildings with excessive moisture content – HVAC systems should be operating and balanced.
5. Doors should always be handled with clean dry hands or while wearing clean dry gloves.
6. Doors should be lifted and carried when being moved, not dragged across one another.

FINISHING

Eggers recommends factory finishing to insure the most durable surface and uniform appearance. Factory finishing will also slow the response to changes in humidity. The following points provide guidance for doors being field finished.

1. Wood is hygroscopic and dimensionally influenced by changes in moisture content caused by changes within its surrounding environment. To assure uniform moisture exposure and dimensional control, all surfaces must be finished equally.
2. Doors should not be considered ready for finishing when initially received. Before finishing, remove all handling marks, raised grain, scuffs, burnishes and other undesirable blemishes by block sanding all surfaces in a horizontal position with 150 or 180-grit sandpaper. Sanding of the overall surface will be required to open the veneer grain to receive a field applied finish evenly. To avoid cross grain scratches, sand with the grain.
3. Certain species of wood, particularly oak, may contain extractives which react unfavorably with foreign materials in the finishing system. Do not use steel wool on bare wood, rusty containers or any other contaminate in the finishing system.

4. A thinned coat of sanding sealer should be applied prior to staining to promote a uniform appearance and avoid sharp contrasts in color or a blotchy appearance. Eggers will not be responsible for the final appearance of field-finished doors. It is expected that the painting contractor will make adjustments as needed to achieve desired results.
5. The top and bottom rails are sealed at the factory. All other exposed, unfinished wood surfaces should be finished. Cutouts for hardware in exterior doors and doors located adjacent to areas where high moisture is expected should be sealed prior to installation of hardware.
6. Dark colored finishes should be avoided on all surfaces if the door is exposed to direct sunlight, in order to reduce the chance of warping or veneer checking.
7. Water-based coatings on unfinished wood may cause veneer splits, highlighted joints and raised wood grain. If used on exterior doors, the coating should be an exterior grade product. When installed in exterior applications, doors must be properly sealed and adequately protected from the elements. Refer to Eggers' warranty for protection requirements.
8. Be sure the door surface being finished is satisfactory in both smoothness and color after each coat. Allow adequate drying time between coats. Desired results are best achieved by following the finish manufacturer's recommendations.
9. Certain wood fire doors have fire retardant salts impregnated into various wood components. Lightly sand treated wood before finishing to remove any surface salt that may be present.

INSTALLATION

1. Eggers recommends factory machining of all doors to insure proper machining tolerances. All labeled doors are required to be machined under licensed inspection service by NFPA 80.
2. The utility or structural strength of the doors must not be impaired when fitting to the opening, in applying hardware, in preparing for lites, louvers, plant-ons or other detailing.
3. The general rule is to use two hinges for solid core doors up to 60 in. (1524 mm) in height, and an additional hinge for every 30 in. (762 mm) or fraction thereof. This matches the requirements for installing fire doors. Refer to Eggers warranty and approvals for special provisions. Consult hinge or pivot hardware manufacturer with regard to weight and size of hinges or pivots required.
4. The maximum clearance between the top, hinge edge and lock edge to the frame and meeting edge of pairs of doors, is 1/8 in. (3.2 mm). NFPA 80 allows a tolerance of +0 and -1/16″ to this dimension.
5. All hardware locations, preparations and methods of attachment must be appropriate for the specific door construction.
6. When lite or louver cutouts exist in exterior doors, they must be protected in order to prevent water from entering the door core.
7. Pilot holes must be drilled for all screws that act as hardware attachments. Full threaded screws should be used for fastening hardware to non-rated doors and are required on fire-rated doors. Eggers does not warrant the use of self-tapping or combination (wood/metal) screws for the attachment of hardware.

8. In fitting non-rated doors for height, do not trim top or bottom edge by more than 3/4 in. (20 mm) unless accommodated by additional blocking. Trimming of fire-rated doors must be in accordance with NFPA 80.
9. Doors and door frames should be installed plumb, square and level.

CLEANING AND TOUCHUP

1. Inspect all wood doors prior to hanging them on the job. Repair noticeable marks or defects that may have resulted from improper storage and handling.
2. Field repairs and touchups are the responsibility of the installing contractor upon completion of initial installation. Field touchup shall include the filling of exposed nail or screw holes, re-finishing of raw surfaces resulting from job fitting, repair of job inflicted scratches and mars and final cleaning of finished surfaces.
3. When cleaning door surfaces, use a non-abrasive commercial cleaner designed for cleaning wood door or paneling surfaces, that does not leave a film residue that would build up or affect the surface gloss of the door finish. Refer to Eggers' eiDoor Maintenance information bulletin for vinyl door requirements.

GENERAL ADJUSTMENT AND MAINTENANCE

1. Insure that all doors swing freely and do not bind in their frame. Adjust the finish hardware for proper alignment, smooth operation and proper latching without unnecessary force or excessive clearance.
2. Periodically inspect all doors for wear, damage and natural deterioration.
3. Periodically inspect and adjust all hardware to insure that it continues to function as it was originally intended.
4. Finishes on exterior doors may deteriorate due to exposure to the environment. See Eggers' warranty for refinishing requirements.

SPECIFIC ADJUSTMENT AND MAINTENANCE FOR ACOUSTIC DOORS

1. Fixed seals should be routinely wiped clean and inspected for damage. Components that are damaged or otherwise fail to provide a continuous seal between the door surface and fixed elements of the assembly should be replaced. Seals may be wiped with a silicone coated cloth to help reduce opening and closing friction.
2. Operational seals such as automatic door bottoms should be routinely wiped clean and inspected for damage. Damaged seals should be replaced. These components need to be checked for proper operation to insure they seal when the door is closed and retract when the door is opened to prevent wear or damage. Seals may require periodic adjustment, per the hardware manufacturer's instructions.
3. Extra attention should be given to the hinging, closing and latching hardware. Tighten or shim hinges, adjust closures, and adjust latch strikes as required to insure the door remains squarely in the opening and makes a uniform continuous contact with the acoustic seals.

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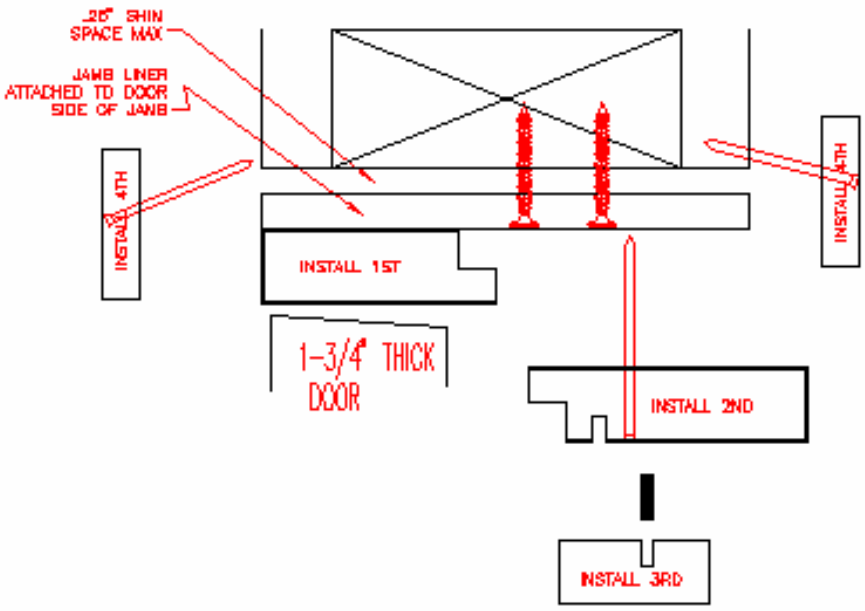
TWO PIECE ACOUSTICAL JAMB INSTALLATION INSTRUCTIONS

Maximum overall opening: 50-11/16" wide x 121-11/32" high. (Frame Buck opening)
Maximum door opening: Single 4-0 x 10-0
Wall depth: Minimum 4-7/8"
Wall type: Wall must be constructed to meet the STC rating and lined with a wood stud for jamb attachment.
Gasketing: Please refer to separate handout for required gasketing installation.

- Door side of jamb is shimmed and installed first with #8 X 1-1/2" screws spaced maximum 4" from each end and 24" on center. Stop side of jamb is then installed flush with the wall. Space in between the two jamb components is okay. Attach stop side of jamb with #8 x 2" screws or 8d finishing nails spaced a maximum 6" from the end and 24" on center. Fasteners can be located underneath the stop.
- One #8 x 2" screw or 8d finish nail should be located at each hinge pocket and strike pocket on the door side of jamb before the hardware is installed.
- Shim space is maximum 1/4" must be tightly filled with fiberglass insulation.

FLAT STOP: Minimum 5/8" thick x 1-1/2" wide. Flat stops are installed with a 1/8" x 7/16" HDF spline and #4 finish nails or 18 gage x 1-1/2" long brads spaced maximum 4" from each end and 16" on center.

CASING: Minimum 3/8" thick x 1-1/2" wide. Casing is installed with minimum #4 finish nails spaced maximum 4" from each end and 16" on center and staggered.



**Failure to install the frame in accordance with these installation instructions voids the possible STC rating.*

UL 20-MINUTE FRAME & SIDELITE OR BORROWED LITE INSTALLATION INSTRUCTIONS

Maximum overall opening: 170.25" wide X 11'-6" high. (frame Buck opening)
Maximum door opening: Single 4-0 X 9-0 / Pair 8-0 X 9-0
Borrowed lite: Maximum overall opening is 5'-9" wide X 11'-6" high.
Wall depth: Minimum 3-3/4" with ¾" thick MDF liner behind the frame.
Wall type: Metal stud, wood stud or masonry. As an option metal stud or masonry openings may have a wood liner.

- Frames are installed with countersunk #8 X 2-1/2" long deck screws spaced maximum 4" from each end and 32" on center. Masonry walls require ¼" X 2-1/4" masonry anchors spaced maximum 4" from each end and 32" on center. At wood stud walls or walls with a wood liner the frame may be installed with 10d finishing nails spaced maximum 4" from each end and 32" on center.
- Sills are installed with ¼ X 2-1/4" masonry anchors spaced maximum 32" OC.
- Shim space is maximum ½". A shim space greater than ¼" must be tightly filled with fiberglass insulation.

T-STOP: Minimum 5/8" thick X 1-1/2" wide. T-stops are installed with #4 finish nails spaced maximum 4" from each end and 16" on center.

CASING: Minimum 3/8" thick X 1-3/4" wide. Casing is installed with minimum #4 finish nails spaced maximum 4" from each end and 16" on center and staggered.

LITE STOPS: Minimum ¾" thick X 1-1/8" wide. Lite stops are installed with #6 finish nails or #6 X 1-5/8" trim screws spaced maximum 4" from each end and 8" on center.
Maximum glass opening size is 36" X 96" or 96" X 36".
Glazing clips are not required.

GLASS: May be Firelite Plus manufactured by Technical Glass, Pyroedge-20 manufactured by Interedge Technologies or ¼" diamond wire glass manufactured by Asahi or Pilkington.
Glass must be cut 7/32" smaller than the opening size in width and height. Cutting tolerance is +/- 1/32".

PANELS: Maximum panel opening is 48" X 116". Panels must be wood covered fire doors with minimum 20-minute rating. Panels may be installed with springbolts or countersunk No 8 X 2-1/2" long hi/lo deck screws on the vertical edges spaced maximum 10" from each end and 32" on center. HSS2000 intumescent seal material is to be applied around the perimeter of the panel along the centerline. Secure panel in place with wood stops on both sides.

**Pemko HSS2000 intumescent and Pemko S88 smoke seals are required only for positive pressure and smoke control openings. (UL 10C, U.B.C. 7-2 1997)*

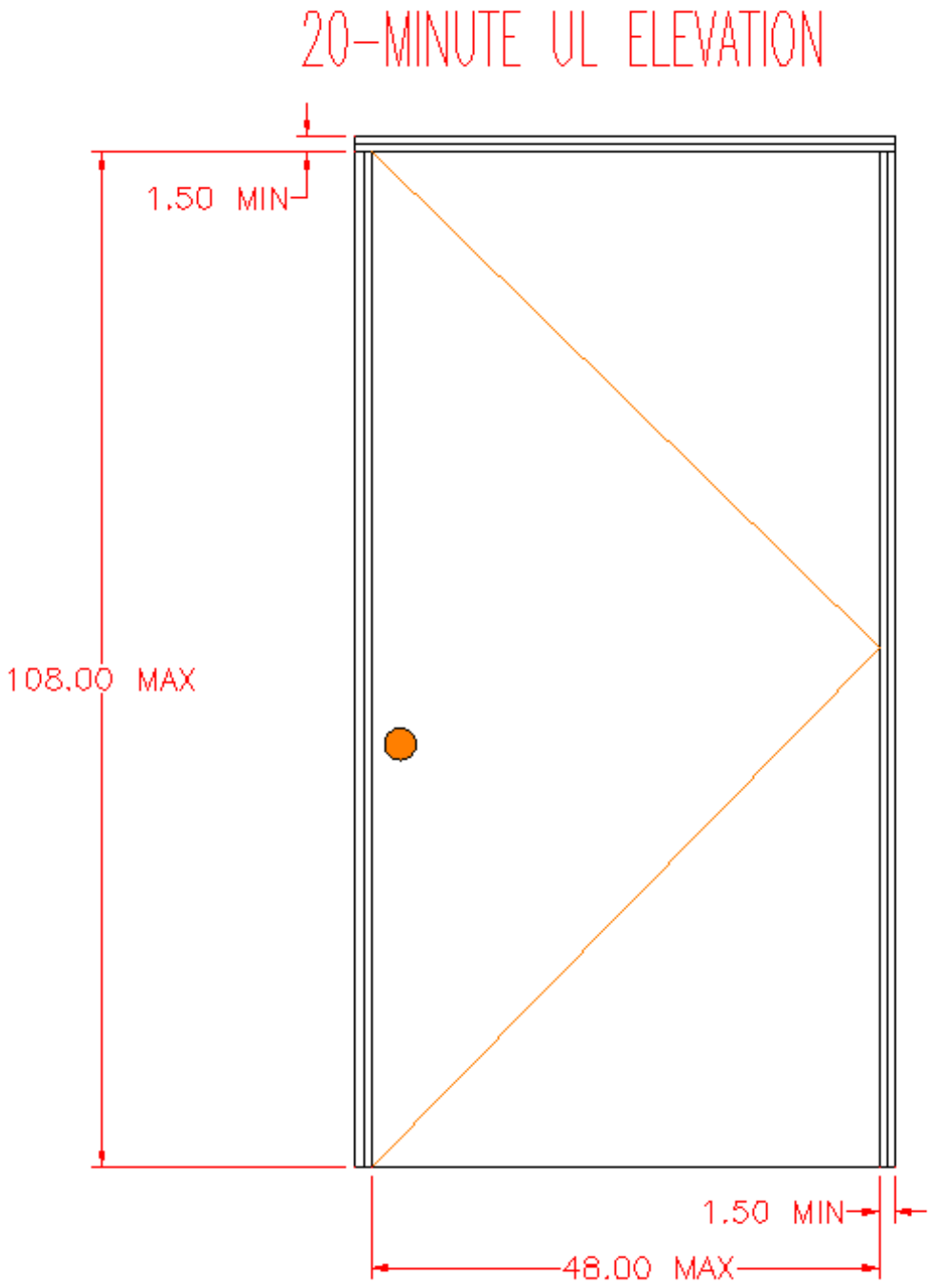
***Failure to install the frame in accordance with these installation instructions voids the label.*

UL 20-Minute Frame & Sidelite or Borrowed Lite

Installation Instructions

No. 900-03-10

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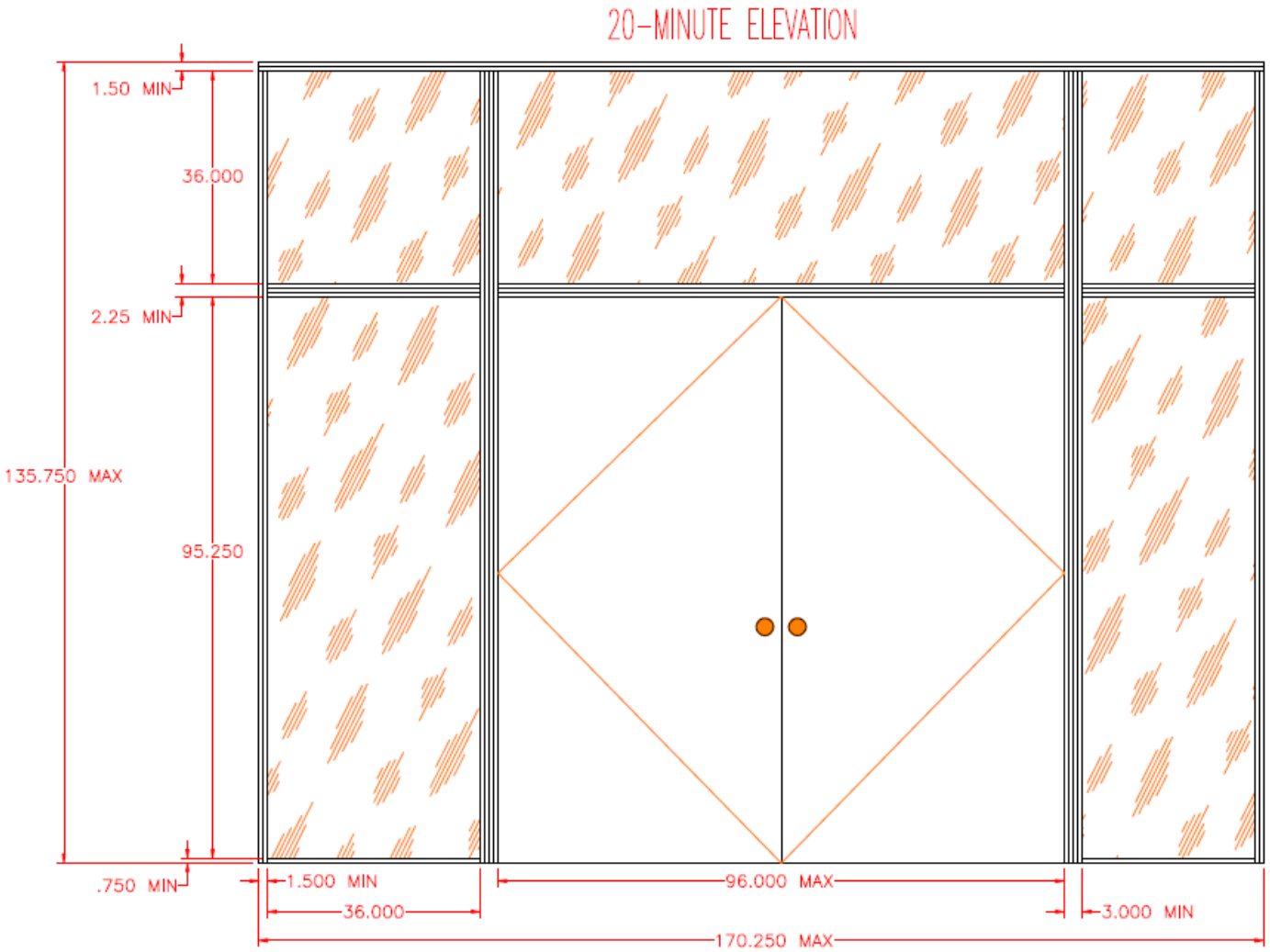


UL 20-Minute Frame & Sidelite or Borrowed Lite

Installation Instructions

No. 900-03-10

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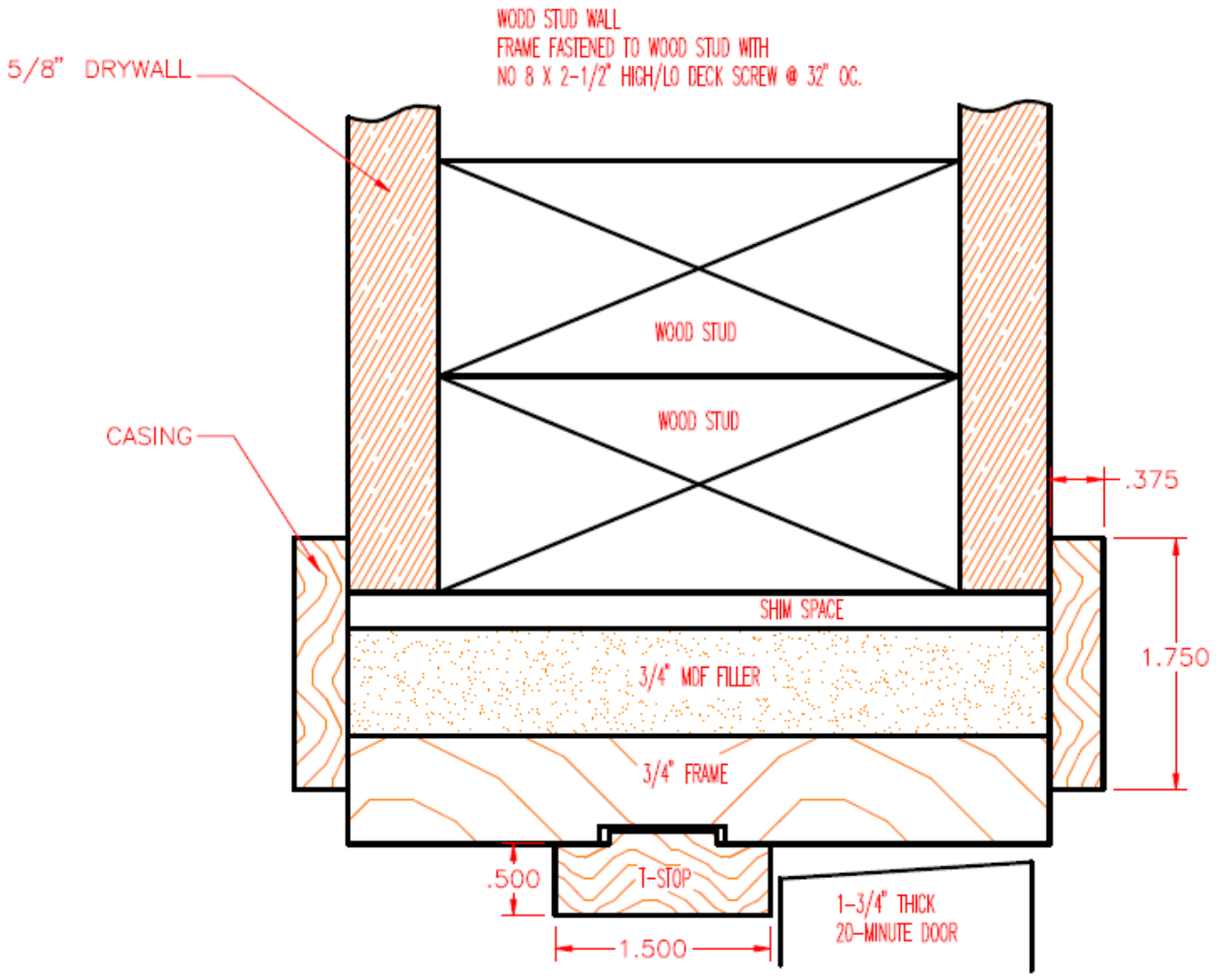


UL 20-Minute Frame & Sidelite or Borrowed Lite
Installation Instructions

No. 900-03-10

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FIREGUARD 20 MINUTE HEADER/JAMB IN WOOD STUD WALL

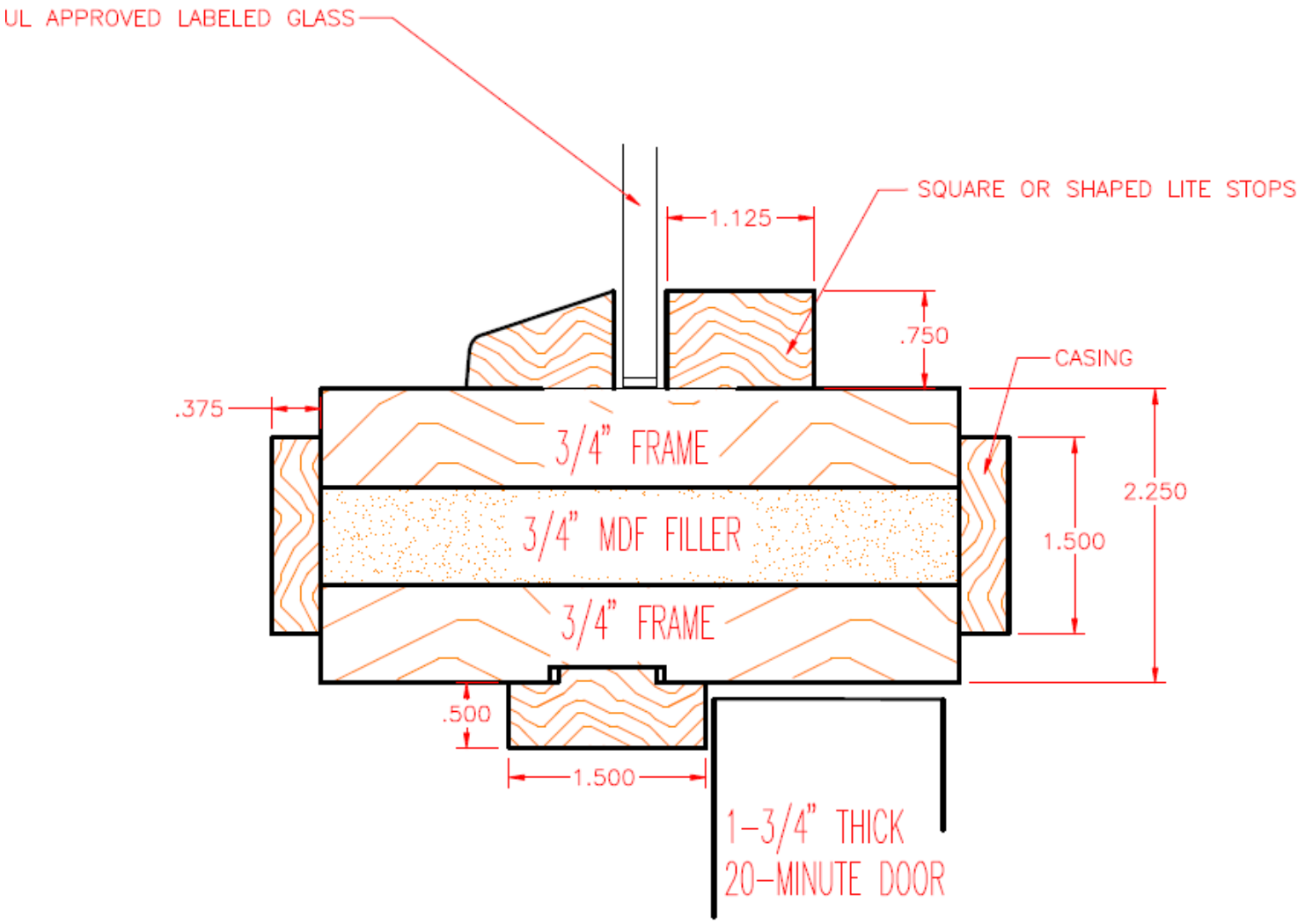


UL 20-Minute Frame & Sidelite or Borrowed Lite
Installation Instructions

No. 900-03-10

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FIREGUARD 20 MINUTE TRANSOM BAR

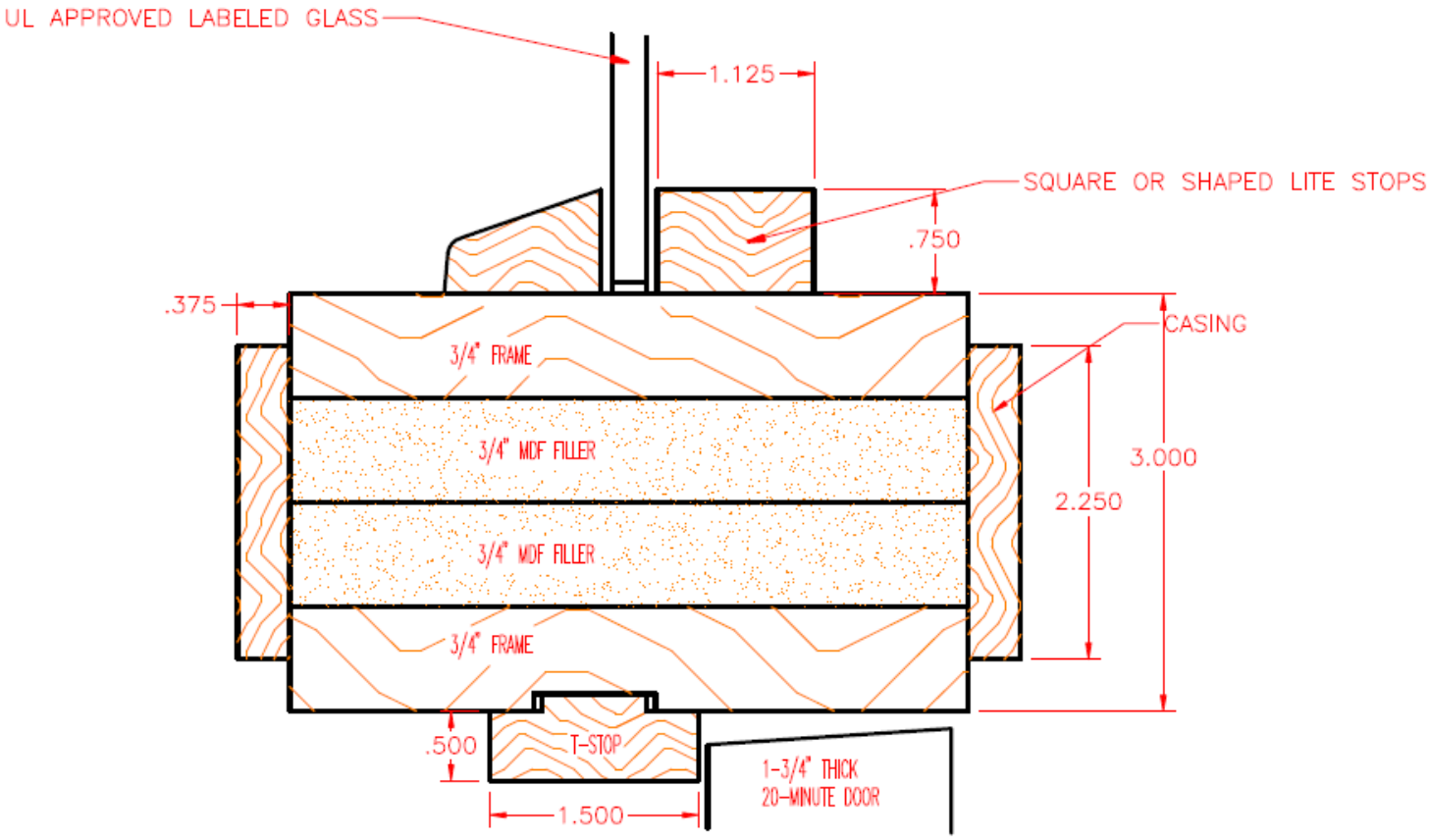


UL 20-Minute Frame & Sidelite or Borrowed Lite
Installation Instructions

No. 900-03-10

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FIREGUARD 20 MINUTE COMMON DOOR/SIDELITE LEG

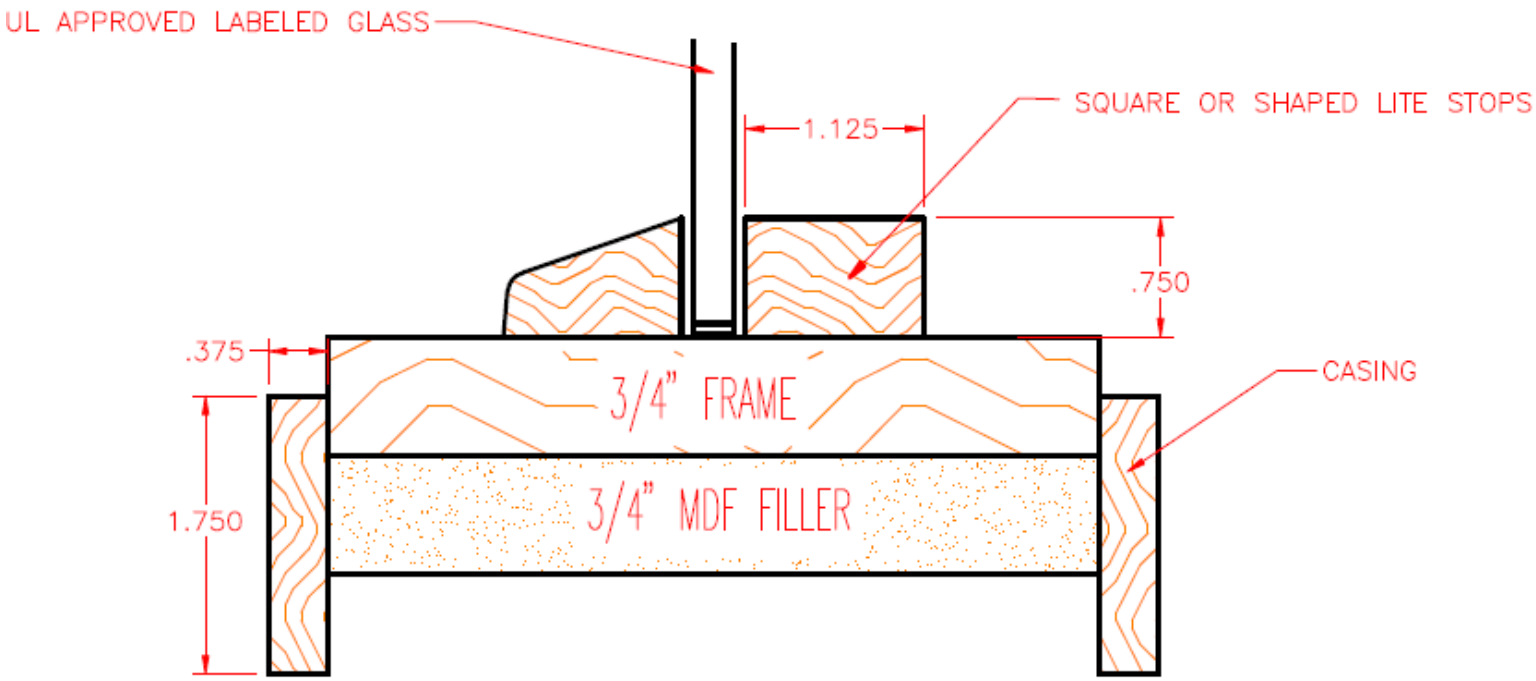


UL 20-Minute Frame & Sidelite or Borrowed Lite
Installation Instructions

No. 900-03-10

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FIREGUARD 20 MINUTE SIDELITE/BORROWED LITE DETAIL



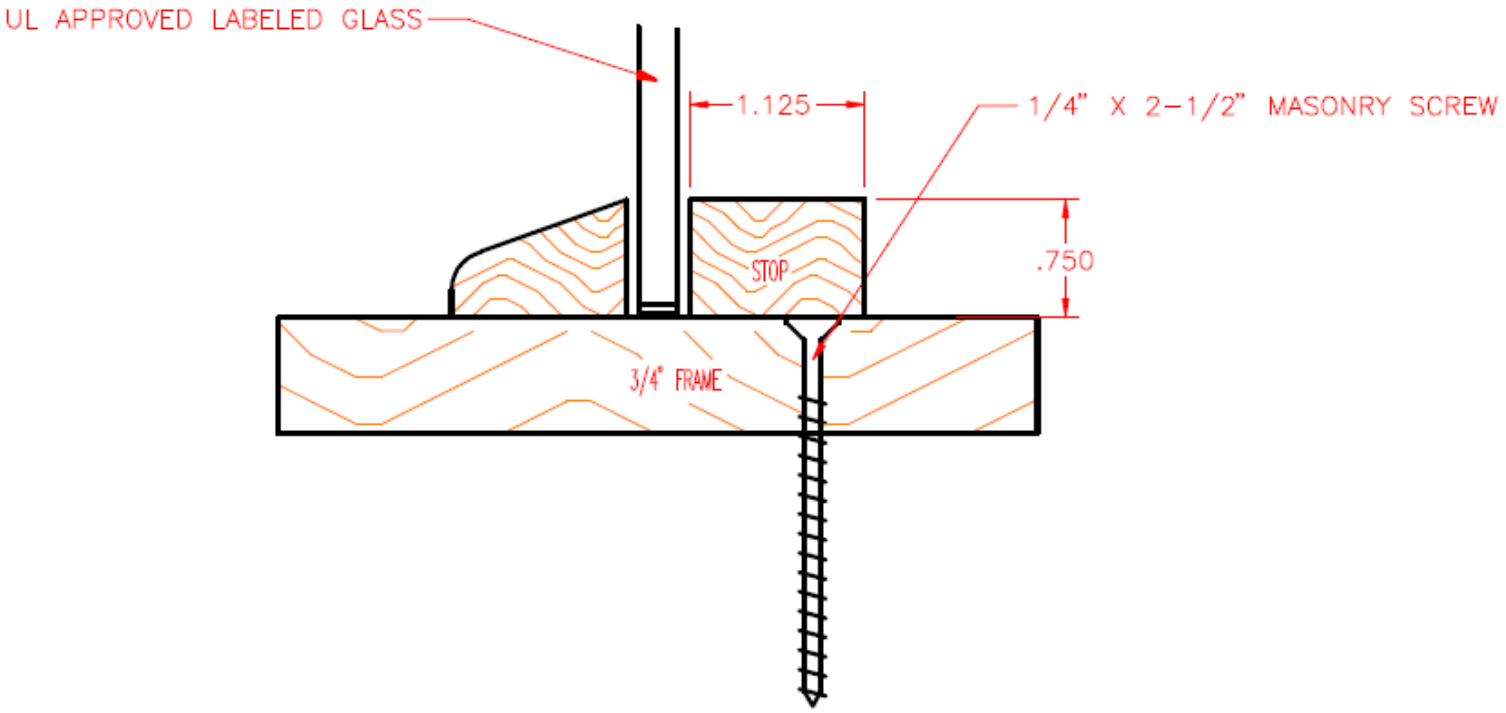
UL 20-Minute Frame & Sidelite or Borrowed Lite

Installation Instructions

No. 900-03-10

Eggers Industries

FIREGUARD 20 MINUTE SILL DETAIL



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UL 45-Minute Frame & Sidelite or Borrowed Lite

Installation Instructions

No. 910-03-10

Eggers Industries

Maximum overall opening: 144" wide x 135.75" high. (Frame Buck opening)
Maximum door opening: Single 4-0 x 9-0 / Pair 6-0 x 9-0 or 8-0 x 8-0
Borrowed lite: Maximum overall opening is 5'-9" wide x 11'-6" high.
Wall depth: Minimum 4-7/8" with 3/4" thick MDF liner behind the frame.
Wall type: Metal stud, wood stud or masonry. As an option metal stud or masonry openings may have a wood liner.
Intumescent caulk: FlameSafe (Grace), Metacaulk1000 (RectorSeal), or Firestop Plus (Jaco)

- Frames are installed with countersunk #8 x 2-1/2" long deck screws spaced maximum 4" from each end and 32" on center. Masonry walls require 1/4" x 2-1/4" masonry anchors spaced maximum 4" from each end and 32" on center. At wood stud walls or walls with a wood liner the frame may be installed with 10d finishing nails spaced maximum 4" from each end and 32" on center.
- Sills are installed with 1/4 x 2-1/4" masonry anchors spaced maximum 32" OC.
- Shim space maximum 1/2". Shim space greater than 1/4" must be tightly filled with fiberglass insulation.
- Apply intumescent caulk a minimum of 3/8" deep filling shim space continuously on both sides of frame after frame is shimmed and installed into opening.

T-Stop: Minimum 5/8" thick x 1-1/2" wide. T-stops are installed with 4d finish nails spaced maximum 4" from each end and 16" on center.

Casing: Minimum 3/8" thick and 1-3/4" wide. Casing is installed with minimum 4d finish nails spaced maximum 4" from each end and 16" on center and staggered. Casing must cover shim space.

Lite stops: Minimum 3/4" thick x 1-5/8" wide. Lite stops installed with "6d finish nails or No 6 x 1-5/8" trim screws spaced maximum 4" from each end and 8" on center. Glazing clips installed maximum 10" from each corner and maximum 24" on center. Clips installed with No 6 x 1-1/4 hi/lo drywall screws or 4d common nails using 4 fasteners per glazing clip. Nails are provided with the glazing clips.

Glass: Maximum glass opening size is 36" x 96" or 96" x 36". May be Firelite plus manufactured by Technical Glass or 1/4" diamond wire glass manufactured by Asahi or Pilkington. Glass must be cut 7/32" smaller than the opening size in width and height. Cutting tolerance is +/- 1/32".

Panels: Maximum panel opening is 48" x 116". Panels must be wood covered composite core fire doors with minimum 45-minute rating. Panels may be installed with springbolts or countersunk No 8 x 2-1/2" long hi/lo deck screws on the vertical edges spaced maximum 10" from each end and 32" on center. Intumescent caulk or HSS2000 intumescent seal material is to be applied around the perimeter of the panel along the centerline, refer to details. Secure panel in place with wood stops on both sides.

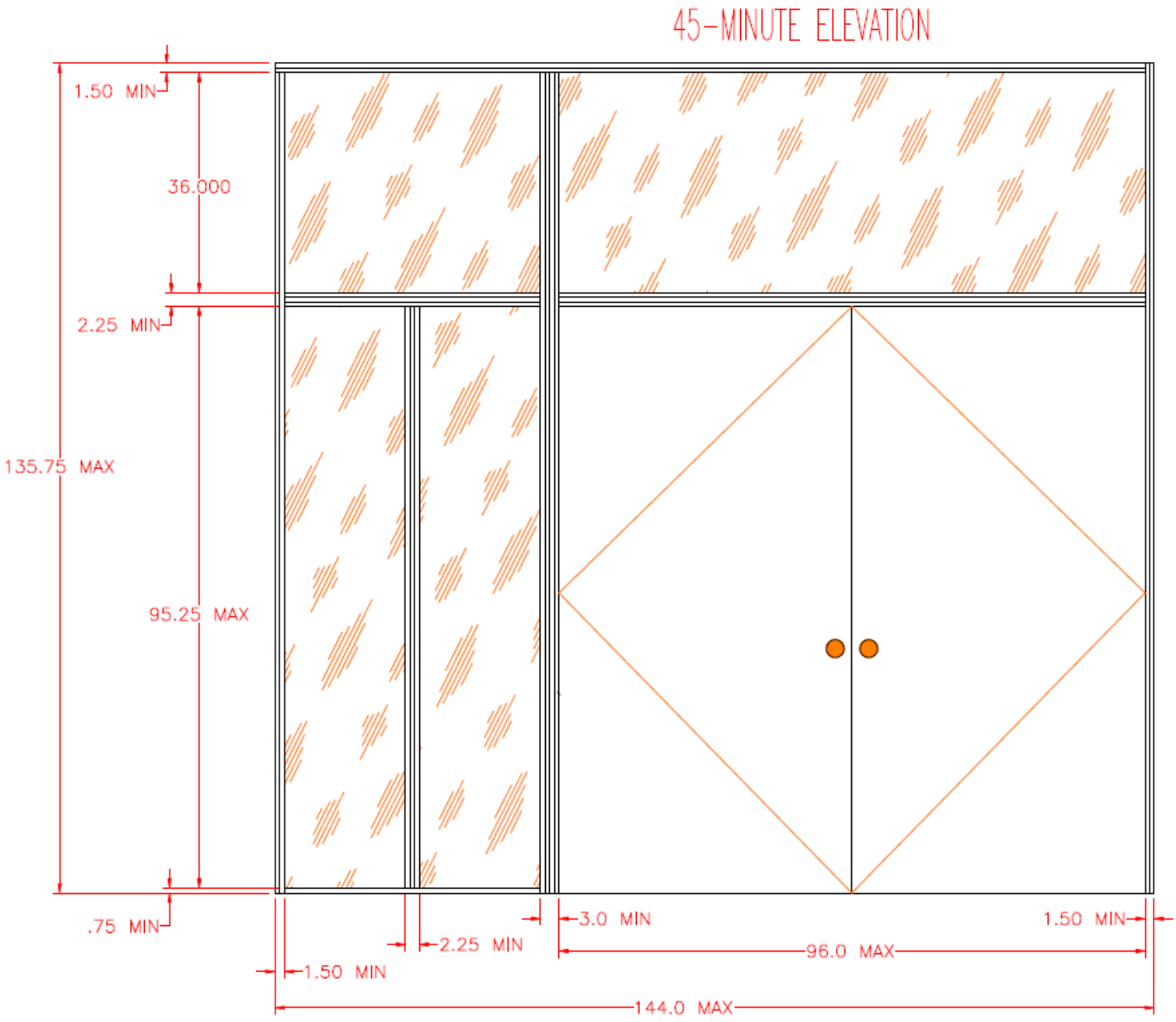
***Intumescent caulk or HSS2000 is required only for positive pressure and smoke control openings (UL 10C, U.B.C. 7-2 1997).*
****Failure to install the frame in accordance with these installation instructions voids the label.*
***** *Door opening perimeter hot and cold smoke seals are determined by opening category type and supplied by door manufacturer or contractor.*

UL 45-Minute Frame & Sidelite or Borrowed Lite

Installation Instructions

Eggers Industries

No. 910-03-10



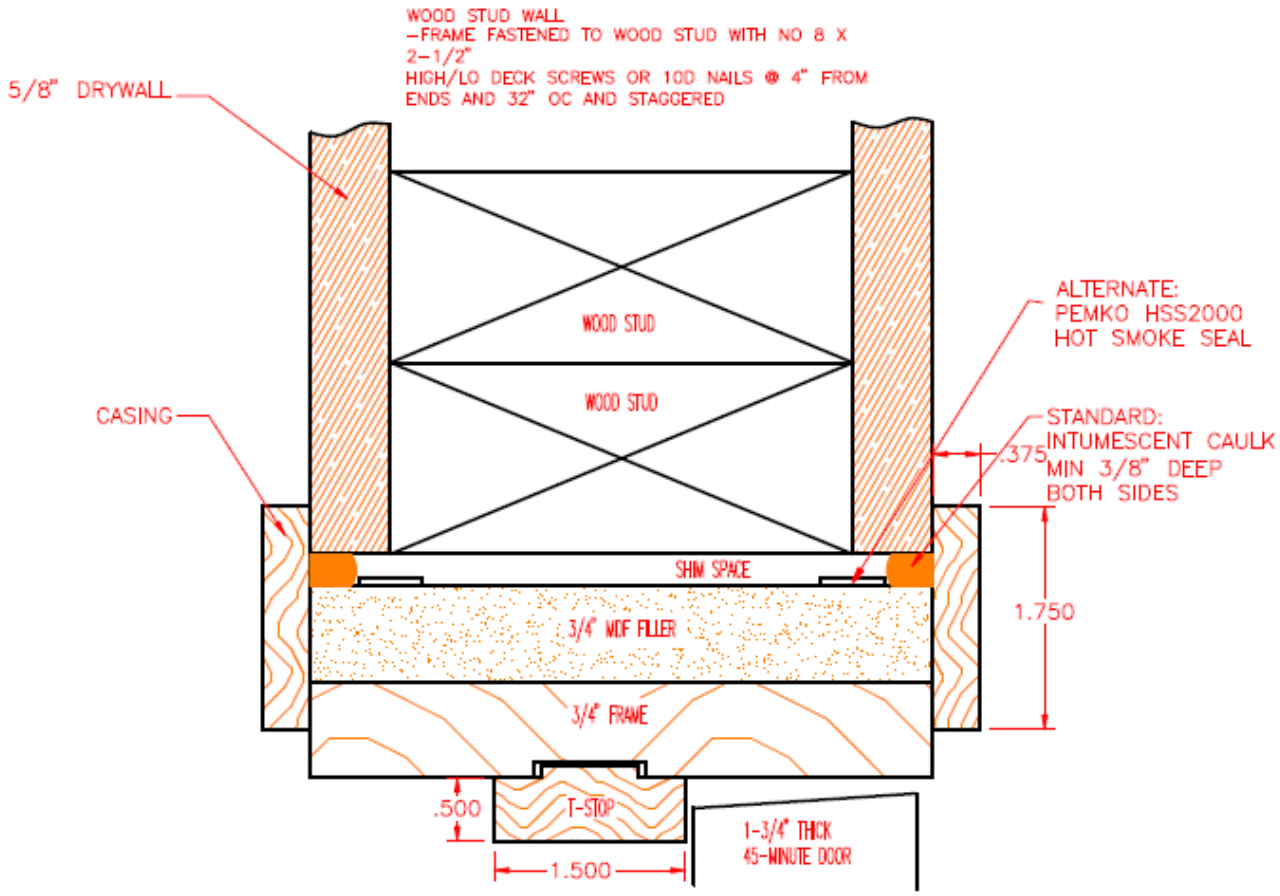
UL 45-Minute Frame & Sidelite or Borrowed Lite

Installation Instructions

Eggers Industries

No. 910-03-10

FIREGUARD 45 MINUTE HEADER/JAMB IN WOOD STUD WALL



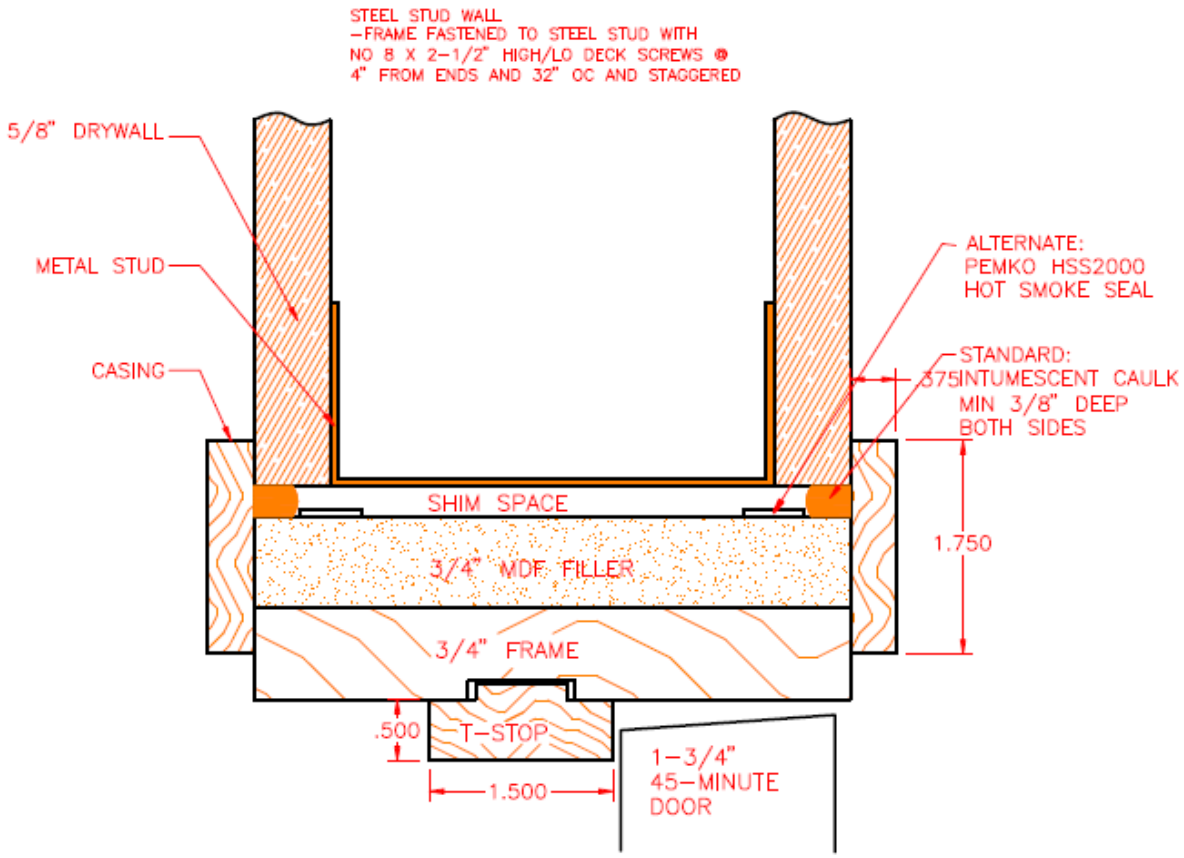
UL 45-Minute Frame & Sidelite or Borrowed Lite

Installation Instructions

No. 910-03-10

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FIREGUARD 45 MINUTE HEADER/JAMB IN METAL STUD WALL



UL 45-Minute Frame & Sidelite or Borrowed Lite

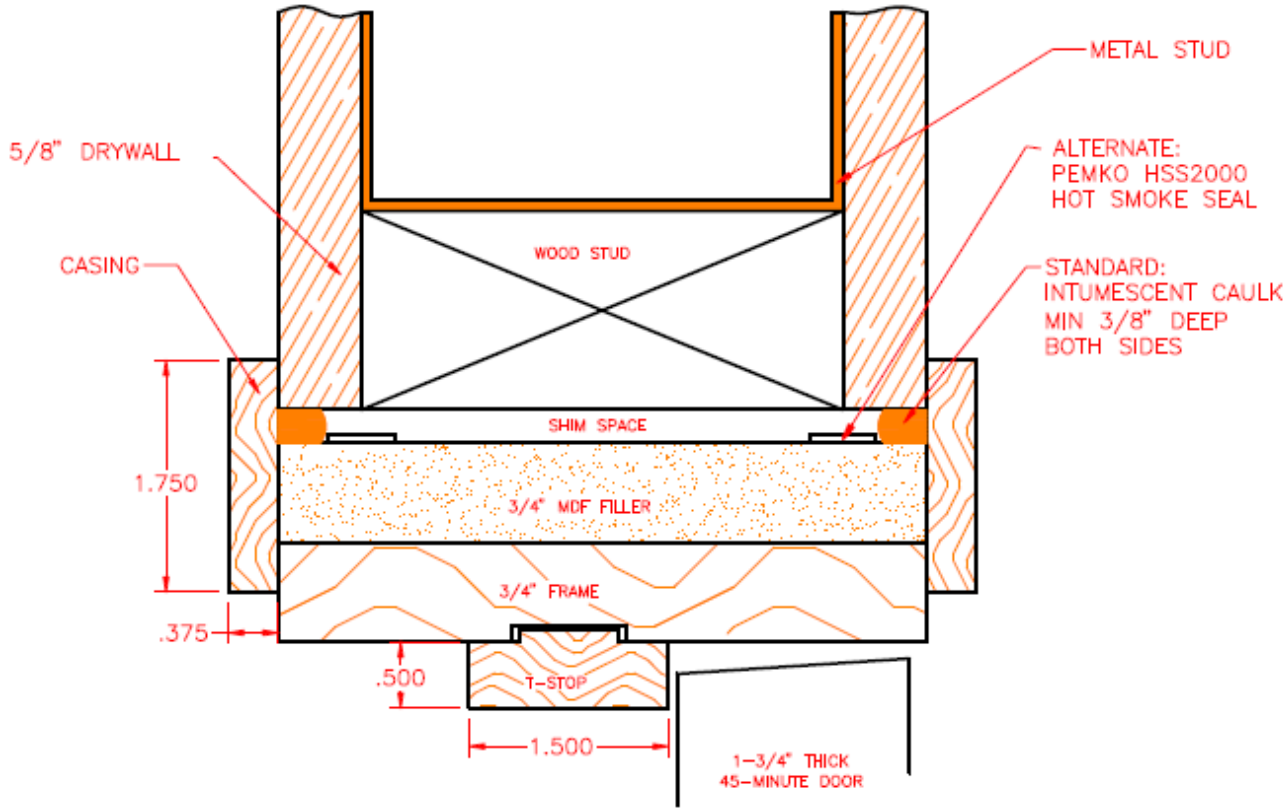
Installation Instructions

No. 910-03-10

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FIREGUARD 45 MINUTE HEADER/JAMB IN METAL STUD WALL WITH WOOD LINER

STEEL STUD WALL WITH LUMBER LINER
–WOOD LINER FASTENED TO STEEL STUD WITH NO 8 X 2–1/2" HIGH/LO DECK SCREWS @ 32" OC.
–FRAME FASTENED TO WOOD LINER WITH NO 8 X 2–1/2" HIGH/LO DECK SCREWS OR 10D NAILS @ 4" FROM ENDS AND 32" OC AND STAGGERED



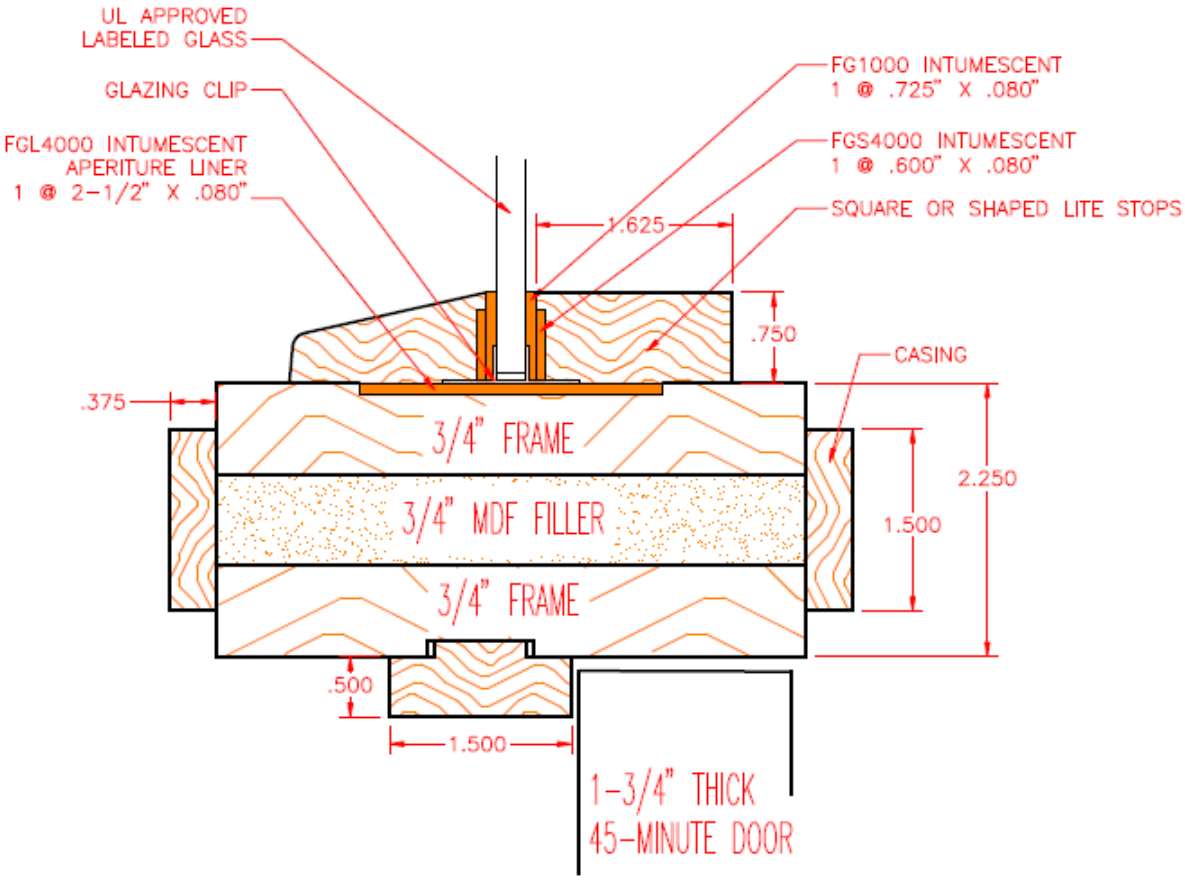
UL 45-Minute Frame & Sidelite or Borrowed Lite

Installation Instructions

No. 910-03-10

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FIREGUARD 45 MINUTE TRANSOM BAR



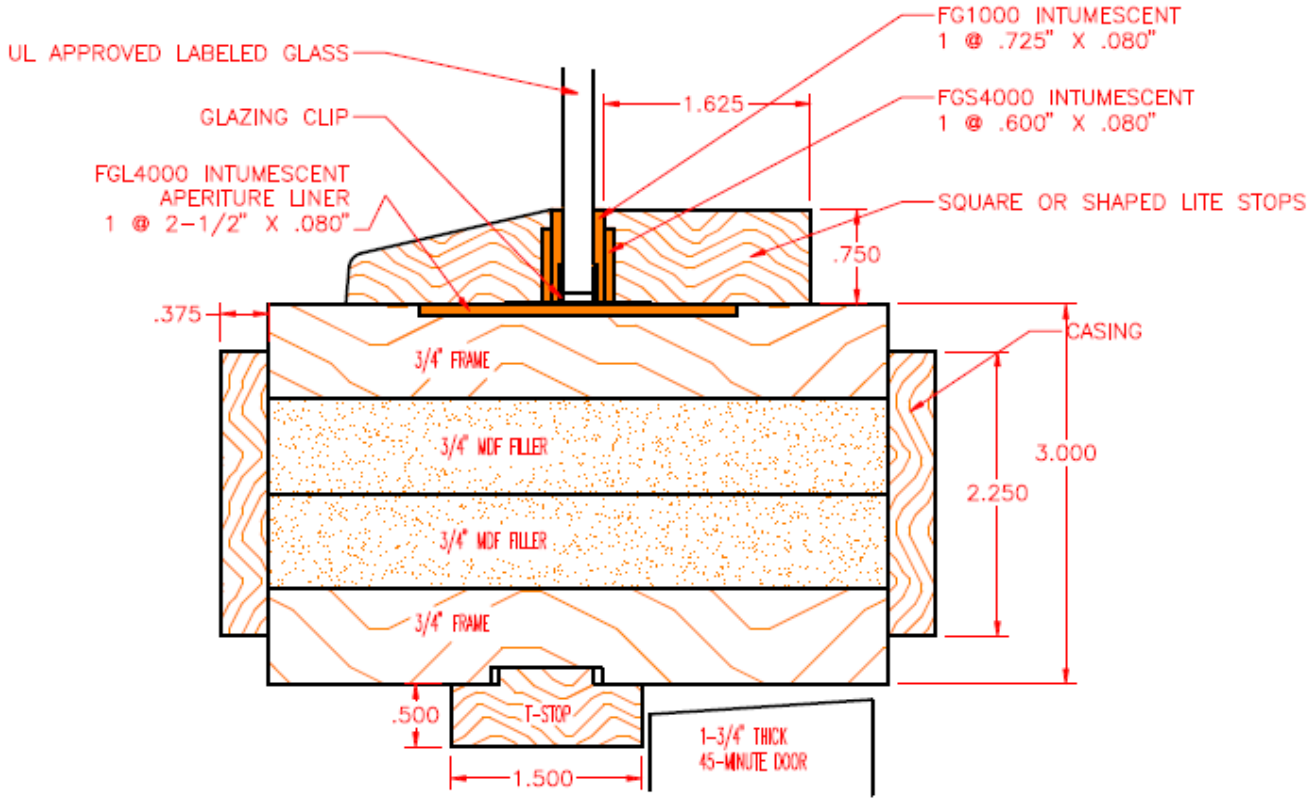
UL 45-Minute Frame & Sidelite or Borrowed Lite

Installation Instructions

No. 910-03-10

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FIREGUARD 45 MINUTE COMMON DOOR/SIDELITE LEG



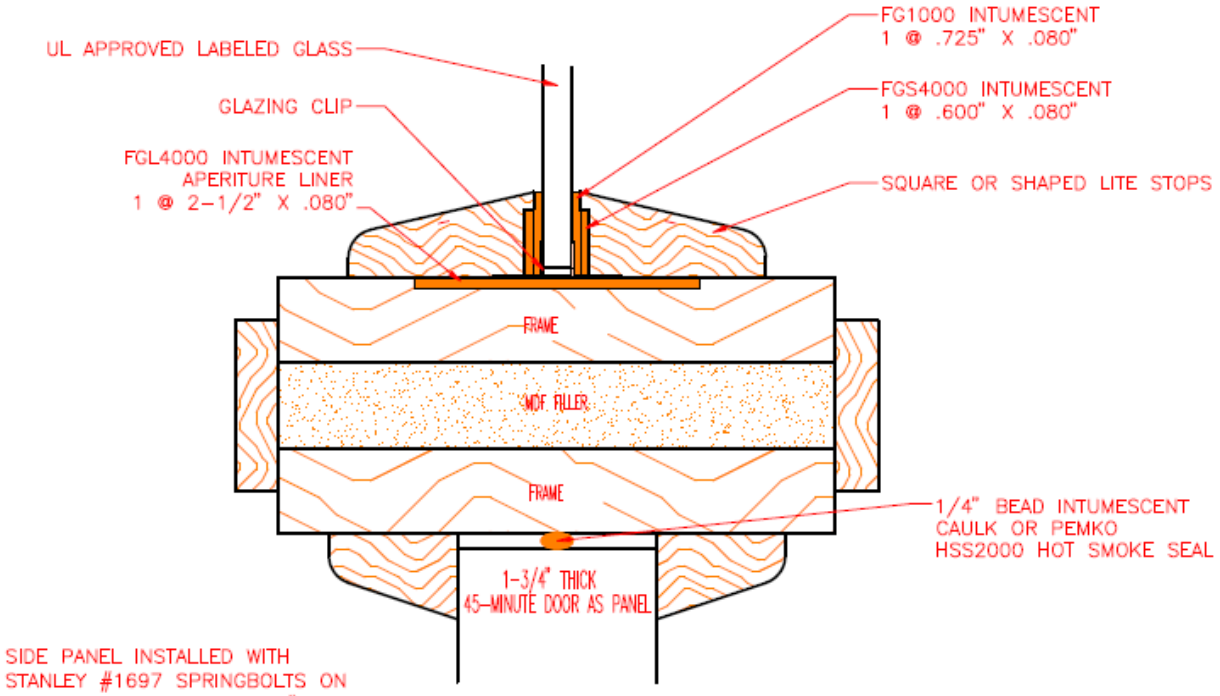
UL 45-Minute Frame & Sidelite or Borrowed Lite

Installation Instructions

No. 910-03-10

Eggers Industries

FIREGUARD 45 MINUTE COMMON MEMBER
(SIDE LITE AND FIXED PANEL SHOWN)



SIDE PANEL INSTALLED WITH STANLEY #1697 SPRINGBOLTS ON THE VERTICAL EDGES AT 18" OC, OR COUNTERSUNK NO 8 X 2-1/2" HI/LO DECK SCREWS MAXIMUM 10" FROM ENDS AND 32" OC

UL 45-Minute Frame & Sidelite or Borrowed Lite

Installation Instructions

No. 910-03-10

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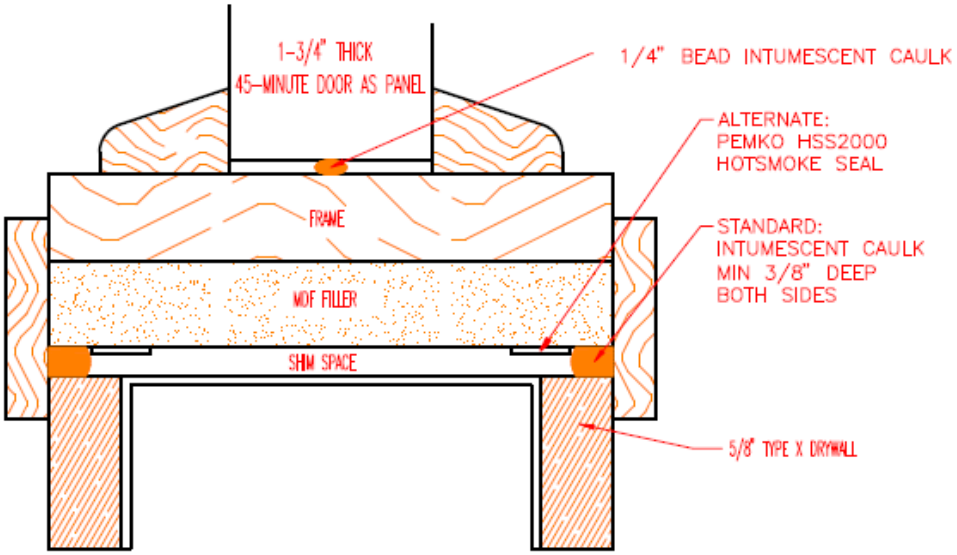
FIREGUARD 45 MINUTE SIDELITE/BORROWED LITE/SILL
(METAL STUD WALL & FIXED PANEL SHOWN)

STEEL STUD WALL WITH LUMBER LINER
–WOOD LINER FASTENED TO STEEL STUD WITH NO 8 X 2–1/2" HIGH/LO DECK SCREWS @ 32" OC.
–FRAME FASTENED TO WOOD LINER WITH NO 8 X 2–1/2" HIGH/LO DECK SCREWS OR 10D NAILS @ 4" FROM ENDS AND 32" OC AND STAGGERED

WOOD STUD WALL
–FRAME FASTENED TO WOOD STUD WITH NO 8 X 2–1/2" HIGH/LO DECK SCREWS OR 10D NAILS @ 4" FROM ENDS AND 32" OC AND STAGGERED

STEEL STUD WALL
–FRAME FASTENED TO STEEL STUD WITH NO 8 X 2–1/2" HIGH/LO DECK SCREWS @ 4" FROM ENDS AND 32" OC AND STAGGERED

MASONRY WALL OR FLOOR
–FRAME FASTENED TO MASONRY WALL WITH 1/4" X 2–1/4" MASONRY ANCHORS @ 4" FROM ENDS AND 32" OC AND STAGGERED



SIDE PANEL INSTALLED WITH STANLEY #1697 SPRINGBOLTS ON THE VERTICAL EDGES AT 18" OC, OR COUNTERSUNK NO8 X 2–1/2" HI/LO DECK SCREWS MAXIMUM 10" FROM ENDS AND 32" OC

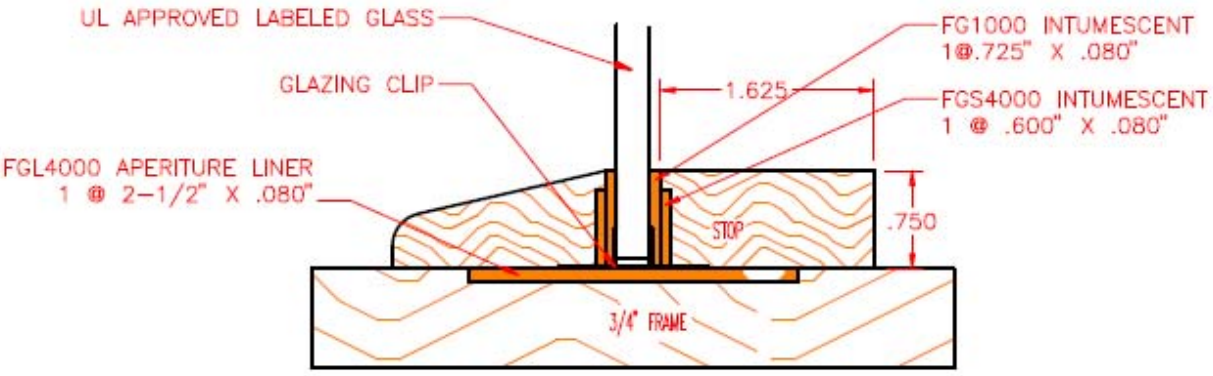
UL 45-Minute Frame & Sidelite or Borrowed Lite

Installation Instructions

No. 910-03-10

Eggers Industries

FIREGUARD 45 MINUTE SILL DETAIL



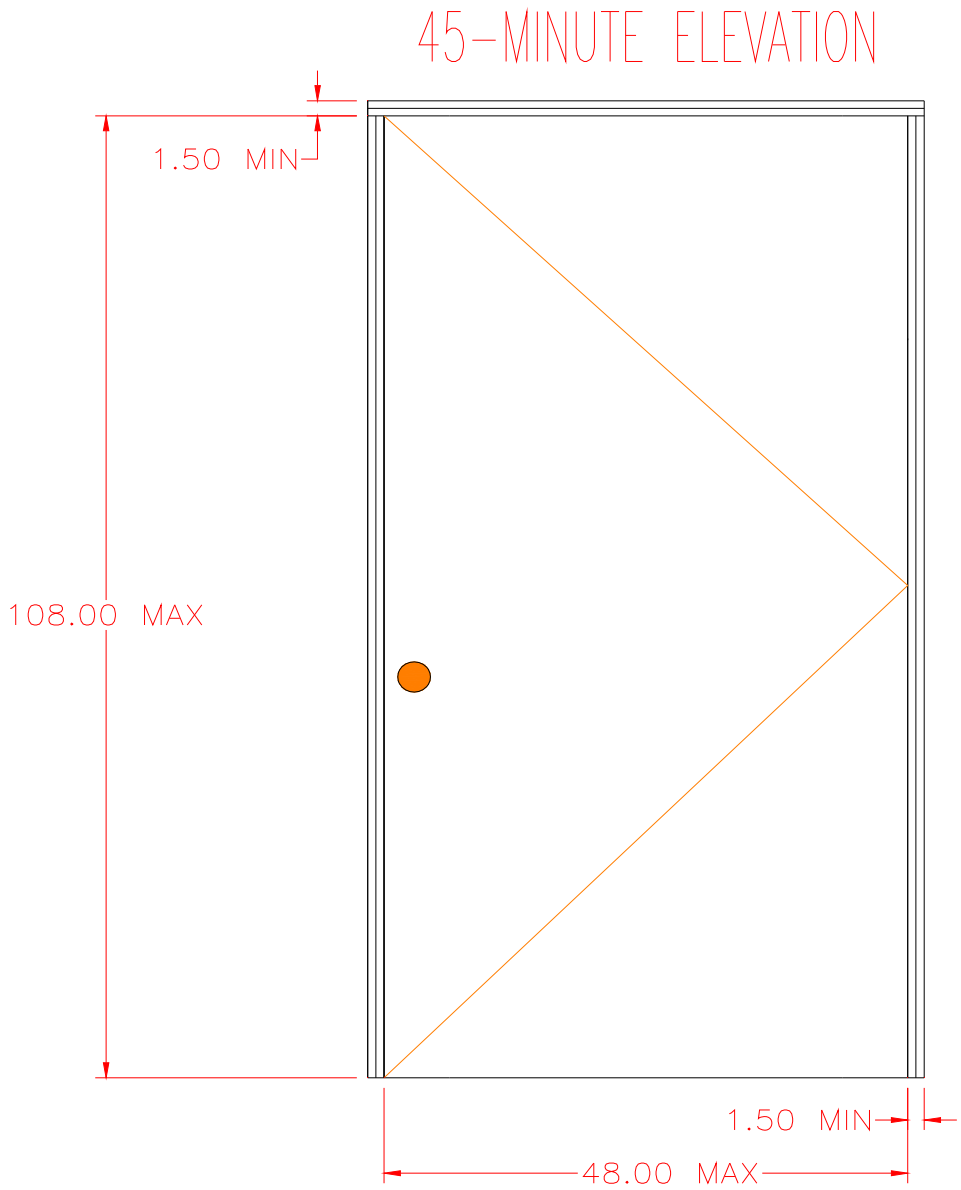
SIDE PANEL INSTALLED WITH STANLEY #1697 SPRINGBOLTS ON THE VERTICAL EDGES AT 18" OC, OR COUNTERSUNK NO 8 X 2-1/2" HI/LO DECK SCREWS MAXIMUM 10" FROM ENDS AND 32" OC

UL 45-Minute Frame & Sidelite or Borrowed Lite

Installation Instructions

No. 910-03-10

Eggers Industries



UL 45-Minute Frame & Sidelite or Borrowed Lite

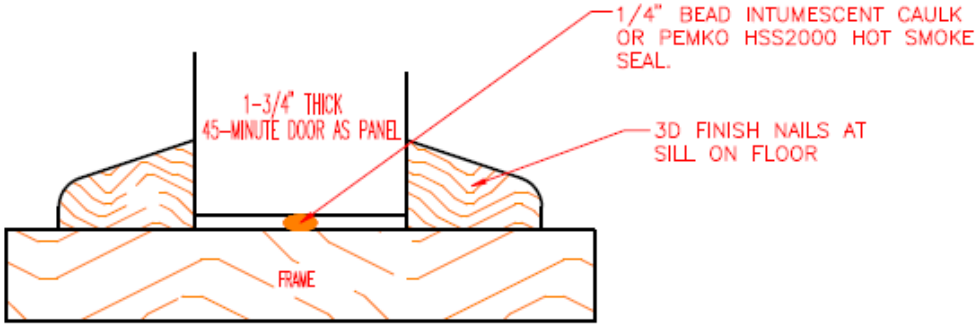
Installation Instructions

No. 910-03-10

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FIREGUARD 45 MINUTE SILL
(SILL ON FLOOR & FIXED PANEL SHOWN)

SIDE PANEL INSTALLED WITH STANLEY #1697 SPRINGBOLTS ON THE VERTICAL EDGES AT 18" OC, OR COUNTERSUNK NO 8 X 2-1/2" HI/LO DECK SCREWS MAXIMUM 10" FROM ENDS AND 32" OC



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email: sales@eggersindustries.com

WHI 20-MINUTE FIREGUARD PLUS FGH WRAP AROUND JAMB INSTALLATION INSTRUCTIONS

Maximum door opening: Single 4'-0" X 9'-0" / Pair 8'-0" X 9'-0"
Maximum overall opening: Max door opening plus thickness of jamb equals jamb buck opening
Wall depth: 3-3/4" (2-1/2" stud plus 5/8" drywall both sides)
Wall type (rough opening): Metal or wood stud

- Jambs are installed with 1-1/8" long drywall screws thru metal stud in pairs into the back of the jamb member or nailed thru the wood stud in pairs into the back of the jamb member with 8d nails. Nails must penetrate the jamb 1" deep. Fasteners are to be a maximum of 4" from each end and spaced a maximum of 12" O.C
- Jambs may also be nailed thru the face with 10d finish nails staggered and spaced a maximum 4" from each end and 12" O.C.
- Jamb must overlap drywall by ½" minimum on both sides of the wall.
- Jambs are intended to be installed without shim space before or after drywall is installed, studs should be plumb and squared before jamb installation.

OPTIONAL SHIMMING: Maximum shim space is ¼". Shims are required are at each hinge and strike location. If jambs require shimming, back plow on the jamb member is required to be ¾" deep and jamb thickness can be no less than ¾". This can be performed by a WHI machinist licensed to machine Eggers WHI jambs. *See attached drawings*

T-STOP: Minimum 1/2" thick X 1-1/2" wide. T-stops are installed with 6d finish nails spaced maximum 2" from each end and 12" on center.

CORNER JOINT: Jambs can be machined for dowels or biscuits and glued at the corner joint

**Pemko HSS2000 intumescent and Pemko S88 smoke seals are required only for positive pressure and smoke control openings. (UL 10C, U.B.C. 7-2 1997)*

***Failure to install the jamb in accordance with these installation instructions voids the label.*

WHI 20-Minute Fireguard Plus FGH Wrap Around Jamb

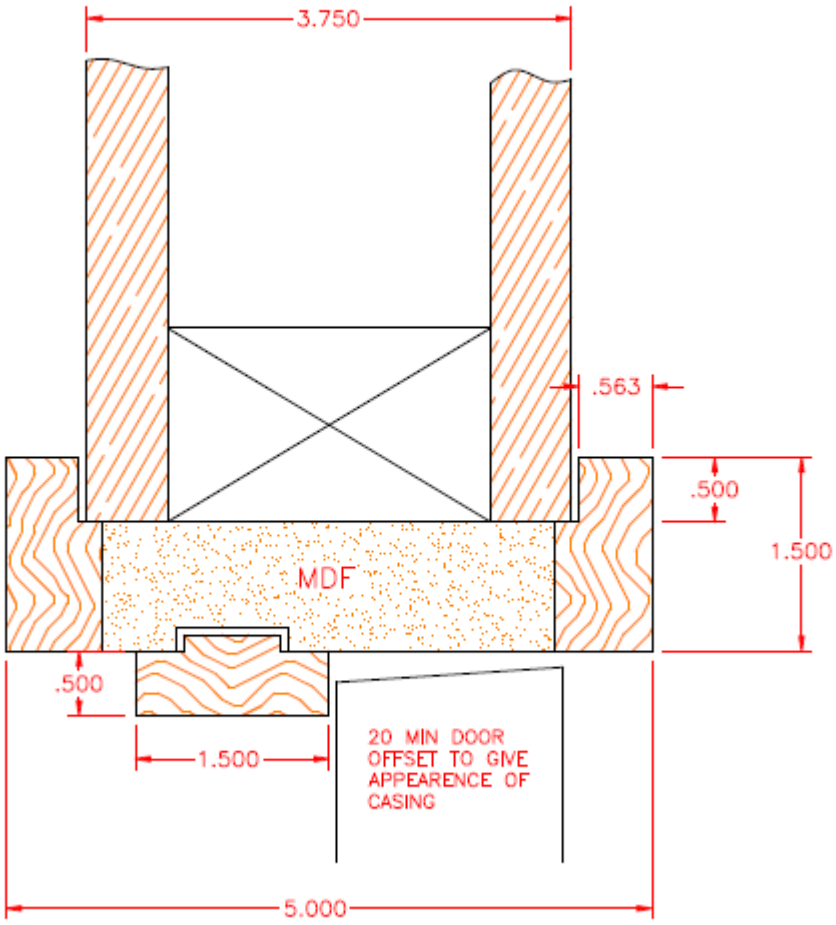
Installation Instructions

No. 930-10-09

Eggers Industries

WHI 20 MINUTE FIREGUARD PLUS FGH HEADER/JAMB

–FRAME WITHOUT SHIM SPACE
–ALL DIMENSIONS SHOWN ARE MINIMUMS
–WOOD OR METAL STUD, WOOD STUD SHOWN



WHI 20-Minute Fireguard Plus FGH Wrap Around Jamb

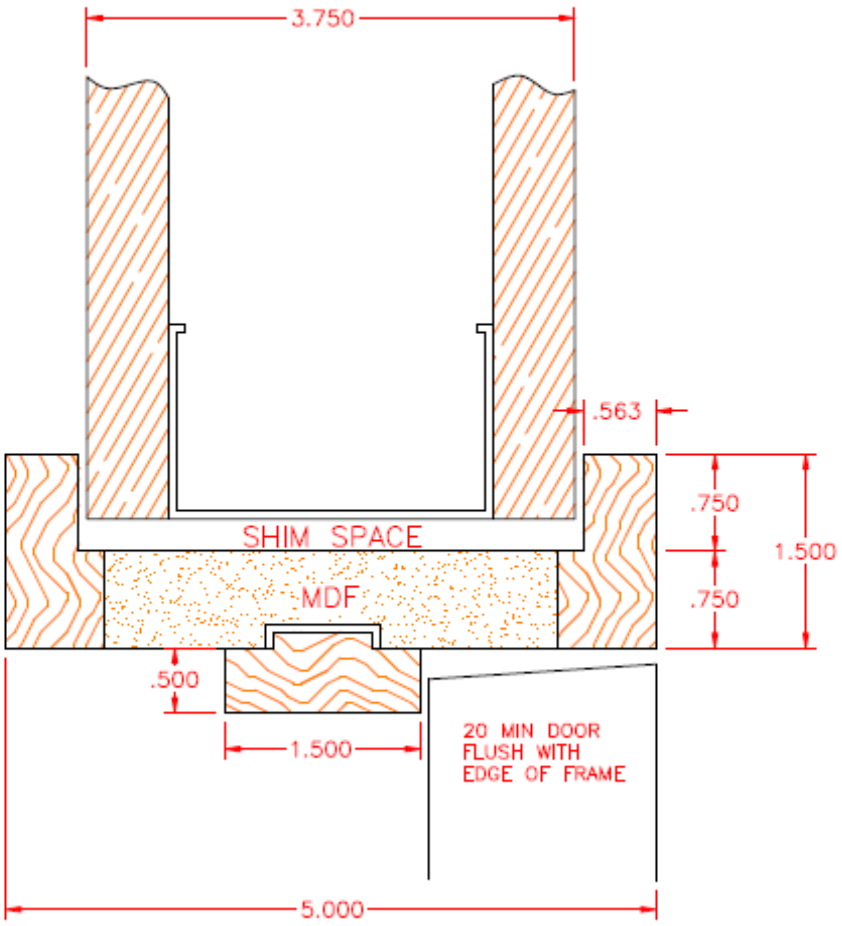
Installation Instructions

No. 930-10-09

Eggers Industries

WHI 20 MINUTE FIREGUARD PLUS FGH HEADER/JAMB

–FRAME WITH SHIM SPACE (1/4" MAX)
–ALL DIMENSIONS SHOWN ARE MINIMUMS
–WOOD OR METAL STUDS, METAL STUD SHOWN



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WHI 90-Minute Rated Veneered Door Frame

Installation Instruction 106

Date: July, 2016

Eggers Industries

DOOR REQUIREMENTS:

Consult the door manufacturer to make sure that the doors are qualified for the hardware to be installed, and particularly if for use in door pairs.

POSITIVE PRESSURE REQUIREMENTS:

Positive pressure openings require the use of a Category G edge sealing system as specified by the wood door manufacturer. To meet smoke control requirements of UBC 7-2-2 (1997), Category H smoke and draft control gasketing must be used as specified by the wood door manufacturer. Edge seal and smoke control gasketing are furnished by the door supplier.

WALL REQUIREMENTS:

- Two-hour rated, wood or steel framed wall or masonry wall
- Minimum thickness: 5 inches
- Framing: 2” X 4” nominal dimension lumber or 2-1/2” X 0.019” (25
- gauge) minimum steel framing
- Rough opening size for 1” thick frames:
  (3 ± 1)” wider than net opening width for door
  (1-1/2 ± ½)” higher than net opening height for door

Note:

1. Dimensions are based on those to webs of buck framing members.
2. For masonry, a 2” X 3” nominal dimension lumber buck frame shall be attached to masonry with 3/8” expansion masonry anchors, spaced 26” on centers maximum.

ROUGH OPENING PREPARATION:

See Figure 1

Two inch wide by 12” long by 0.036” (20 gauge) steel plates shall be supplied with the frame. These plates are for supplementary anchoring at each door hinge and strike plate, along the header or jambs of the frame. Plates shall be approximately centered at each hinge or strike plate elevation with approximately 1” lap over the web of the buck framing on the side of the wall that hinges are to
be installed. Secure each plate to the buck framing with three suitable fasteners
about 5” apart. Use 3/8” long, #6 pan head framing screws for steel buck framing. Use 1” long type ‘S’ or ‘W’ drywall screws for wood buck framing. Alternatively, 3-penny box nails may be used through predrilled holes in the steel plate for wood buck framing.

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Fax: 920.722.0357

Architectural Veneer Faces,
Custom Wood Products, Plywood
Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.667.1051

FRAME DESIGN LIMITATIONS:

- Minimum jamb depth: 5”
- Minimum rabbet for door: 1-7/8”
- Minimum stop height: 5/8”
- Minimum soffit: 1”
- Maximum sizes: (inches)

For swinging doors	Net Opening		Overall	
	Width	Height	Width	Height
Singles	48	96	50	97
Pairs	96	96	98	97

Hinges: Size and spacing to be in accordance with Table 2-8(a) of NFPA 80, mortise type only.

Strikes: Per templates for labeled latch sets, (including cylindrical, mortise or unit type), rim exit device, vertical rod fire exit device, flush bolts and/or dead bolts.

FRAME INSTALLATION: See Figures 2 through 5

Remove the frame from the carton and become familiar with the components by checking each component versus the shipping list. Obtain any hardware item not supplied with your purchase (but required by these instructions) at your local door/frame hardware or building materials dealer.

In the event your frame was supplied without casing trim, you may install any wood, plastic or metal casing trim obtained from your local dealer.

In the event your frame was supplied without the required screws, they may be obtained from your local hardware dealer.

To reduce soiling and staining of the frame finish and for ease of installation, it is recommended that all holes for fasteners through the frame be predrilled before the fasteners are installed. Use 5/32” drill bits for #10 screws or 3/32” drill bits for #6 screws. Pilot holes from 65-70% of the fastener shank diameter are best.

If needed, up to ¾” may be sawed from the bottom of each jamb to fit the rough opening. Use caution to make sure that this does not require trimming the bottom of the door. Some doors may not be trimmed at the bottom.

Align the header section to the top of each jamb section. Drive the 2-1/4” long, #6 screws through predrilled holes at each end of the header to the top of each jamb.

Orient, position, align and square the assembled frame within the rough opening in the wall. See Figure 2. Position wood shims at about 2” from the top and bottom to fill the opening between the hinge jamb and wall buck framing. Drive a 2-1/4” long, #6, trim head screw immediately above or below each set of wood shims through the door rabbet of the frame. Do not completely tighten these screws until you are sure the wood shims have been adjusted to have the head within the width of the rough opening and with the hinge jamb in plumb. Tighten the two screws, then drive additional 2-1/4”, #6 trim screws through the frame on the opposite side of the stop to the buck farming at the same elevation.

Install the door to the frame at top and bottom hinges only. Close the door to check and adjust for alignment of the door from the frame stops and for 1/8” maximum clearance for wood doors or 3/16” maximum clearance for steel doors from the header and both jambs. In the case of door pairs, both doors should be similarly installed to adjust for 1/8” clearance for wood doors or 3/16” clearance for steel doors between the meeting edges and for 1/8” maximum offset along the meeting edges. When alignment is satisfactory, install wood shims, 26” on center maximum, between buck framing and along both jamb and header sections. Drive and tighten 2-1/4” long #6, trim head screws through the frame on each side of the stop soffit to the buck framing, adjoining each set of wood shims. Recheck clearances and readjust if necessary. Install the remaining hinges with the hinge screws provided, except replace one screw at each hinge with a 2-1/4” long #10 screw, driving this screw through the 2” X 12” X 20 gauge steel plates, previously attached to the buck framing. See Figure 4.

If stops were supplied loose, they should be attached with spiral nails or trim head screws, spaced 12” on center, through the predrilled holes at this time. Preposition the stops on the frame to allow for any required labeled gasketing with the doors in the closed position.

For flushbolt or latchset strikes, cut to length and insert 1/8” inside diameter steel screw sleeves through the 7/16” diameter predrilled holes in the frame. The screw sleeves span the distance between the strike and the buck framing or the 2” X 12” X 20 gauge steel plate previously installed to the buck framing. Install the strikes with #10 screws, 2-1/4” long minimum through the steel sleeves.

Surface strikes used for rim exit devices and vertical rod fire exit devices are sometimes installed to the soffit. These strikes require that 7/16” diameter holes be predrilled through both the stop and the frame. Steel screw sleeves and 3” long, #10 screws are used to install strikes to the soffit.

Dead bolt strikes (mortise type) closer and surface brackets for closer arms do not require the 7/16” diameter holes nor the steel screw sleeves. It is recommended that holes for the screws be predrilled. If mounted to the soffit, screws should extend through

the stop and penetrate the frame by ½" minimum. If mounted to the face of the frame, a 16-gauge steel mounting plate may be cut up to 2" high by the width of the bracket or closer body. The steel mounting plate may be surface attached to the face of the frame with not less than two, #8, ¾" long screws through predrilled holes in the plate. The closer or closer arm bracket may then be screw attached to the mounting plate, using self-tapping screws provided with the closer.

Check and adjust hardware to make sure door(s) are self-closing and self-latching.

Break or saw off any wood shims that extend beyond the frame or wall on each side of the assembly. Mix a setting type joint compound according to the directions on each bag. Fill the area between sets of wood shims, frame and buck framing on each side of the wall to a minimum depth of 1". See Figure 3. This may be accomplished with joint finishing tools. A caulking tube and gun may simplify this installation. For installation in masonry, extend the joint compound over the buck framing to bridge the frame to the masonry. See Figure 5. After the joint compound has hardened, install the casing trim on each side of the wall to the buck framing and to the frame with suitable fasteners, spaced 24" on center maximum. Use 1-5/8" or 2-1/4" long, #6 trim head screws for installation of casing trim to wood or steel buck framing of the frame. As an alternate 6 penny finishing nails may be used for installation of casing trim to wood buck framing. Casing trim fastener length should be selected to penetrate the frame or wood buck by ½" minimum. If desired, the screw and nail heads may be covered using a veneer color matched caulking or putty stick. If the frame has a natural wood veneer, it may be stained and finished with a clear varnish or drying oil.

CONGRATULATIONS! You may now enjoy the safety and appearance of a 90 minute rated frame.

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Custom Wood Products, Plywood

Kentucky Division
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Fax: 502.667.1051

FIGURE 1

INSTALL 20GA.
METAL PLATES
TO METAL STUD

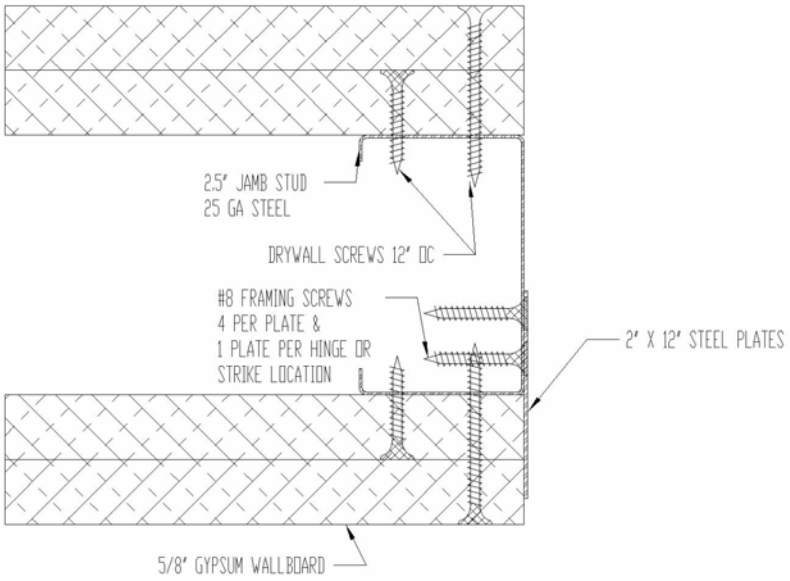
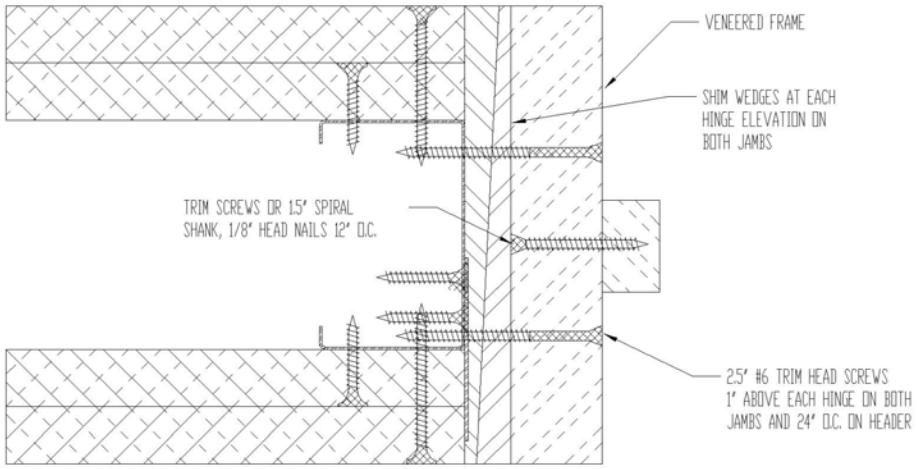


FIGURE 2

INSTALL SHIMS AND
SCREW ATTACH
FRAME TO STUD



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Stile and Rail Doors, Door Frames
Veneered Components, Plywood

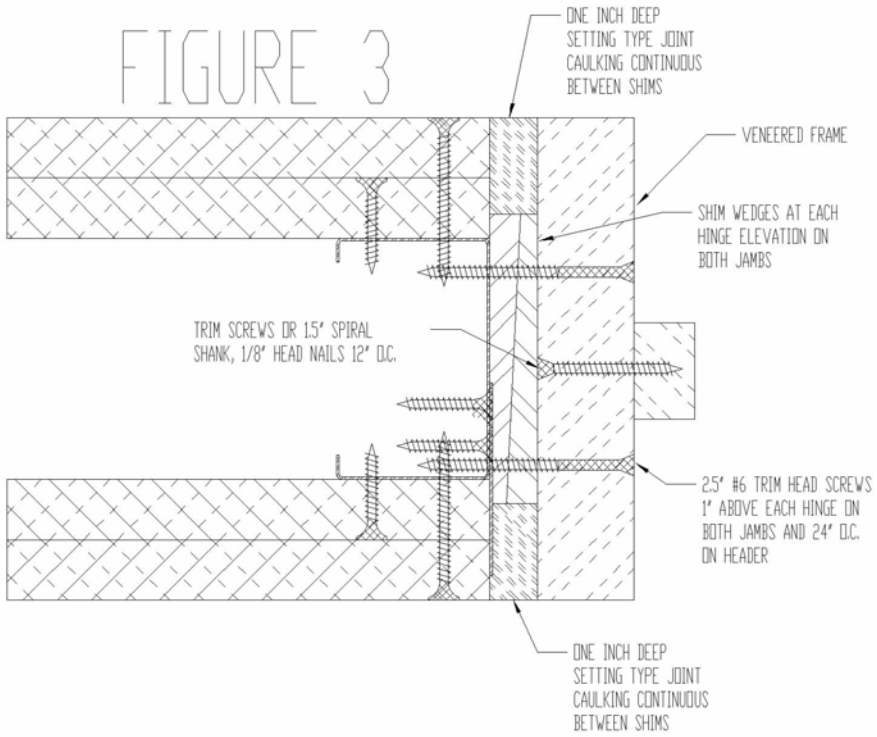
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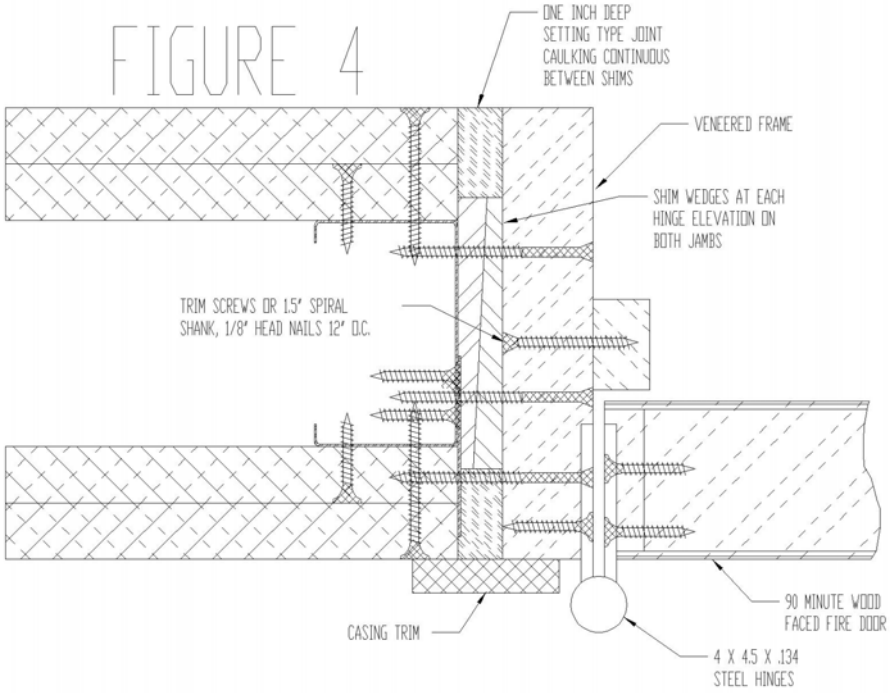
Flush Doors, eiDoor®

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces,
Custom Wood Products, Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.667.1051





Eggers Industries
www.eggersindustries.com
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Stile and Rail Doors, Door Frames
Veneered Components, Plywood

Two Rivers Division
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Two Rivers, WI 54241
Phone: 920.793.1351
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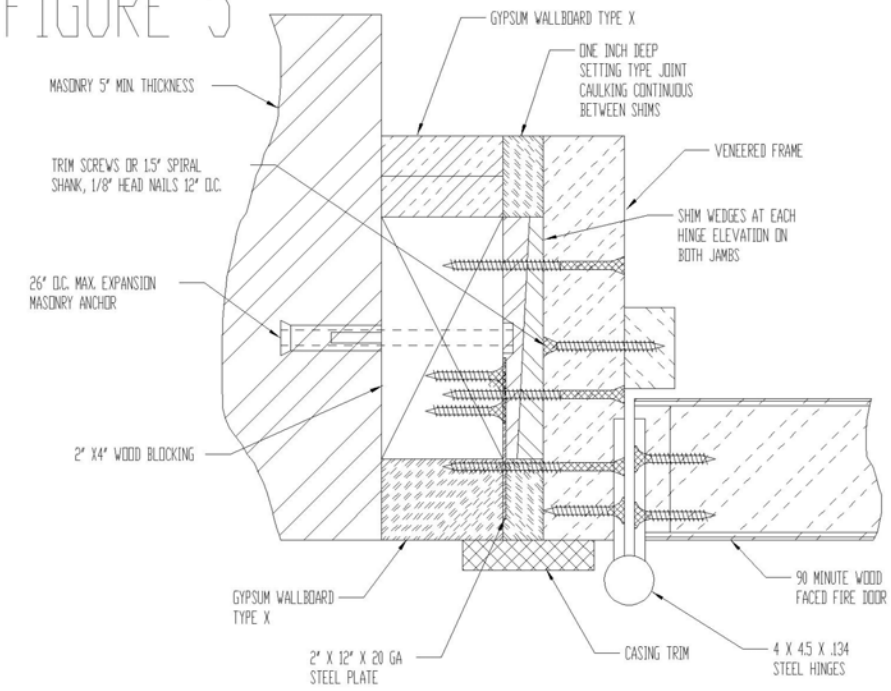
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FIGURE 5



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Acoustic Door Offering

STC RATING and ATTRIBUTES - FLUSH DOOR / SINGLE SWING													
STC RATING			ATTRIBUTES										
Grouted Steel Frame	Mineral Wool Filled Frame	Eggers Acoustic Wood Frame	CORE TYPE	DOOR THICK-NESS	MAX FIRE RATING [1]	GASKET SYSTEM	GLAZING SYSTEM	GLAZING TYPE	GLAZING AREA (sq in)	AVAILABLE AS NO ADDED UF [6]	AVAILABLE CARB COMPLIANT [6]	WEIGHT PER SQ. FT.	TEST REPORTS
51	48	NA	SG6	2 ¼"	20 (B,N)	A	NA	---	---	Yes	Phase 1 & 2	15.8	TL94-37
48	46	NA	SG6	2 ¼"	NA	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	Yes	Phase 1 & 2	15.8	TL95-350
48	46	NA	SG5	1-3/4"	20 (B,N)	A	NA	---	---	Yes	Phase 1 & 2	13.7	TL97-320
47	45	NA	SG8	1-3/4"	60 (B,N)	A	NA	NA	NA	Yes	Phase 1 & 2	15.7	TL03-023
47	45	NA	SG6	2 ¼"	20 (B,N)	A	VP:110-D2	Pyroswiss / 1/2" Laminated	400 (max)	Yes	Phase 1 & 2	15.8	TL95-351
46	44	NA	SG8	1-3/4"	60 (B,N)	A	VP: Lo Pro IS	1" Rated IGU	100 (max)	Yes	Phase 1 & 2	15.7	TL03-024
45	43	45[5]	SG4	1-3/4"	20 (B,N)	A	NA	---	---	Yes	Phase 1 & 2	7.7	TL94-220
44[4]	43	44	SG4	1-3/4"	20 (B,N)	I	NA	---	---	Yes	Phase 1 & 2	7.7	TL10-134
43[4]	42	43[5]	SG3	1-3/4"	20 (A,B,N)	I	NA	---	---	No	Phase 1 & 2	8.0	TL08-235
43	42	43	SG5	1-3/4"	NA	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	Yes	Phase 1 & 2	13.6	TL03-022
43	42	43	SG4	1-3/4"	NA	P	NA	---	---	Yes	Phase 1 & 2	7.9	100534284CRT-001k
43	42	43[5]	SG4	1-3/4"	20 (B,N)	C	NA	---	---	Yes	Phase 1 & 2	7.7	TL96-260
43	42	43	SG4	1-3/4"	NA	G	NA	---	---	Yes	Phase 1 & 2	7.7	TL98-229
43	42	43[5]	SG4	1-3/4"	20 (B,N)	A	VP:110-D2	Pyroswiss / 1/2" Laminated	100 (max)	Yes	Phase 1 & 2	7.7	TL03-020
43	42	43	SG4	1-3/4"	NA	A	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	Yes	Phase 1 & 2	7.7	TL03-019
42	41	42[5]	SG4	1-3/4"	20 (B,N)	D	NA	---	---	Yes	Phase 1 & 2	7.7	TL96-261
42	41	42	SG4	1-3/4"	NA	A	Bead: 107	1/2" Laminated	400 (max)	Yes	Phase 1 & 2	7.7	TL03-021
42	42	42	SG3	1-3/4"	NA	I	NA	---	---	No	Phase 1	6.7	TL10-131
42	42	42	SG3	1-3/4"	NA	P	NA	---	---	No	Phase 1	7.1	100534284CRT-001j
41	41	NA	SG7	1-3/4"	45 (B,N)	B	VP: Lo Pro IS	1" Rated IGU	400 (max)	Yes	Phase 1 & 2	9.2	TL97-313
41	41	41[5]	SG4	1-3/4"	20 (B,N)	B	NA	---	---	Yes	Phase 1 & 2	7.7	TL03-015
41	41	41[5]	SG4	1-3/4"	20 (B,N)	A	VP:110-D2	Pyroswiss / 1/2"	400 (max)	Yes	Phase 1 & 2	7.7	TL95-348
41	41	41	SG3	1-3/4"	NA	B	Bead: 107	1/2" Laminated	400 (max)	No	Phase 1	6.5	TL03-012
41	41	41	SG3	1-3/4"	NA	B	Bead: 110	1-1/8" Non-Rated	400 (max)	No	Phase 1	6.5	TL03-013
41	41	41[5]	SG3	1-3/4"	20 (A,B,N)	J	NA	---	---	No	Phase 1	6.2	TL05-053
41	41	41[5]	SG3	1-3/4"	20 (A,B,N)	C	NA	---	---	No	Phase 1	6.2	TL06-049
41	41	41[5]	SG3	1-3/4"	20 (A,B,N)	I	NA	---	---	No	Phase 1	6.3	TL06-055
40	40	NA	SG9	1-3/4"	90 (A,N)	C	NA	---	---	Yes	Phase 1 & 2	7.6	TL06-051
40	40	NA	SG7	1-3/4"	45 (B,N)	A	NA	---	---	Yes	Phase 1 & 2	9.2	TL95-349
40	40	40[5]	SG4	1-3/4"	20 (B,N)	B	VP:110-D2	Pyroswiss / 1/2" Laminated	400 (max)	Yes	Phase 1 & 2	7.7	TL95-347
40	40	40[5]	SG4	1-3/4"	20 (B,N)	E	NA	---	---	Yes	Phase 1 & 2	7.7	TL96-262
40	40	40	SG3	1-3/4"	NA	M	Bead: 110	1-1/8" Non-Rated IGU	1296 (max)	No	Phase 1	6.7	TL10-141
39	39	NA	SG9	1-3/4"	90 (A,N)	I	NA	---	---	Yes	Phase 1 & 2	7.7	TL06-053
39	39	NA	SG7	1-3/4"	45 (B,N)	B	NA	---	---	Yes	Phase 1 & 2	9.2	TL95-346
39	39	39	SG3	1-3/4"	20 (A,B,N)	B	NA	---	---	No	Phase 1	6.8	TL10-139
38	38	38	SG4	1-3/4"	NA	B	Bead: 110	1-1/8" Non-Rated IGU	1296 (max)	Yes	Phase 1 & 2	7.1	TL03-016
38	38	38	SG3	1-3/4"	NA	O	Bead: 110	1-1/8" Non-Rated	1296 (max)	No	Phase 1	6.7	TL10-143
38	38	38	SG3	1-3/4"	NA	B	Bead: 107	1/2" Laminated	1296 (max)	No	Phase 1	6.5	TL03-014
38	38	38[5]	SG3	1-3/4"	20 (A,B,N)	H	NA	---	---	No	Phase 1	6.5	TL03-017
38	38	38	SG2	1 3/8"	NA	F	NA	---	---	Yes	Phase 1 & 2	5.5	TL94-040
38	38	38	SG2	1 3/8"	NA	F	Bead: 110	3/4" Non-Rated IGU	400 (max)	Yes	Phase 1 & 2	6.4	TL96-258
37	37	37[5]	SG3	1-3/4"	20 (A,B,N)	I	Bead: 100	Firelite Plus	400 (max)	No	Phase 1	6.0	TL05-051
37	37	NA	SG13	1-3/4"	60 (B,N)	I	VP: 115-L1	Firelite Plus / Leaded	100 (max)	Yes	Phase 1 & 2	10.3	TL05-126
37	37	37	SCL	1-3/4"	NA	I	Bead: 110	1-1/8" Non-Rated IGU	Full Lite (min 50% of area)	Yes	Phase 1 & 2	5.9	TL05-052
36	36	36	SG3	1-3/4"	NA	N	NA	---	---	No	Phase 1	7.1	100534284CRT-001f
36	36	NA	SG13	1-3/4"	60 (B,N)	I	NA	---	---	Yes	Phase 1 & 2	10.2	TL05-125
36	36	36	SG11	1-3/4"	NA	P	NA	---	---	Yes	Phase 1 & 2	6.3	100534284CRT-001l
35	35	35	SG11	1-3/4"	NA	O	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	Yes	Phase 1 & 2	7.3	TL10-144
35	35	35	SG11	1-3/4"	20 (A,B,N)	I	NA	---	---	Yes	Phase 1 & 2	7.3	TL10-136
35	35	35	PC	1-3/4"	NA	I	Bead: 107	1/2" Laminated	1296 (max)	Yes	Phase 1 & 2	6.2	TL10-138
35	35	NA	GC	1-3/4"	90 (A,B,N)	R	NA	---	---	Yes	Phase 1 & 2	7.2	A5305.02-113-11
35	35	NA	BR3	1-3/4"	20 (A,B,N)	M	NA	---	---	Yes	Phase 1 & 2	10.0	TL10-142
34	34	34	SG11	1-3/4"	NA	Q	NA	---	---	Yes	Phase 1 & 2	6.3	100534284CRT-001m
34	34	34	PC	1-3/4"	NA	B	Bead: 107	1/2" Laminated	1296 (max)	Yes	Phase 1 & 2	6.2	TL10-138
34	34	34	PC	1-3/4"	NA	I	LoPro IS	1/2" Laminated	400 (max)	Yes	Phase 1 & 2	6.1	TL10-135
33	33	33	SG11	1-3/4"	NA	N	NA	---	---	Yes	Phase 1 & 2	6.3	100534284CRT-001d 100534284CRT-001e
33	33	33	SCL	1-3/4"	NA	Q	NA	---	---	Yes	Phase 1 & 2	6.9	100534284CRT-001n
33	33	33	PC	1-3/4"	NA	I	Bead: 107	1/2" Laminated	400 (max)	Yes	Phase 1 & 2	6.1	TL10-133
32	32	32[5]	SCL	1-3/4"	20 (A,B,N)	I	NA	---	---	Yes	Phase 1 & 2	6.9	TL06-059
32	32	32[5]	SCL	1-3/4"	20 (A,B,N)	I	VP: Lo Pro IS	1" Rated IGU	400 (max)	Yes	Phase 1 & 2	6.9	TL06-059 & TL97-313
32	32	32	SCL	1-3/4"	NA	I	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	Yes	Phase 1 & 2	6.9	TL06-059 & TL03-013
32	32	32	SCL	1-3/4"	NA	I	Bead: 107	1/2" Laminated	400 (max)	Yes	Phase 1 & 2	6.9	TL06-059 & TL03-012
32	32	32	SCL	1-3/4"	NA	N	NA	---	---	Yes	Phase 1 & 2	6.9	100534284CRT-001b
32	32	32	PC	1-3/4"	NA	Q	NA	---	---	Yes	Phase 1 & 2	5.5	100534284CRT-001o 100534284CRT-001p
31	31	31[5]	PC	1-3/4"	20 (A,B,N)	I	NA	---	---	Yes	Phase 1 & 2	5.8	TL06-058, TL10-129
31	31	31[5]	PC	1-3/4"	20 (A,B,N)	I	VP: Lo Pro IS	1" Rated IGU	400 (max)	Yes	Phase 1 & 2	5.8	TL06-058 & TL97-313
31	31	31	PC	1-3/4"	NA	I	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	Yes	Phase 1 & 2	5.8	TL06-058 & TL03-013
31	31	31	PC	1-3/4"	NA	I	Bead: 107	1/2" Laminated	400 (max)	Yes	Phase 1 & 2	5.8	TL06-058 & TL03-012
31	31	31	PC	1-3/4"	NA	N	NA	---	---	Yes	Phase 1 & 2	5.5	100534284CRT-001a
30	30	30[5]	SLC	1-3/4"	20 (A,B,N)	I	NA	---	---	Yes	Phase 1 & 2	4.6	TL06-056
30	30	30[5]	SLC	1-3/4"	20 (A,B,N)	I	VP: Lo Pro IS	1" Rated IGU	400 (max)	Yes	Phase 1 & 2	4.6	TL06-056 & TL97-313
30	30	30	SLC	1-3/4"	NA	I	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	Yes	Phase 1 & 2	4.6	TL06-056 & TL03-013
30	30	30	SLC	1-3/4"	NA	I	Bead: 107	1/2" Laminated	400 (max)	Yes	Phase 1 & 2	4.6	TL06-056 & TL03-012
29	29	29	MC	1-3/4"	90 (A,B,N)	I	NA	---	---	Yes	Phase 1 & 2	4.4	TL06-057
27	27	27[5]	AGR	1-3/4"	20 (A,B,N)	I	NA	---	---	Yes	Phase 1 & 2	4.9	TL07-035
27	27	27[5]	AGR	1-3/4"	20 (A,B,N)	I	VP: Lo Pro IS	1" Rated IGU	400 (max)	Yes	Phase 1 & 2	4.9	TL07-035 & TL97-313
27	27	27	AGR	1-3/4"	NA	I	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	Yes	Phase 1 & 2	4.9	TL07-035 & TL03-013
27	27	27	AGR	1-3/4"	NA	I	Bead: 107	1/2" Laminated	400 (max)	Yes	Phase 1 & 2	4.9	TL07-035 & TL03-012
20	20	20	EF	1-3/4"	NA	C	NA	---	---	Yes	Phase 1 & 2	2.7	TL10-410

[1] In the "Max Fire Rating" column, A and B indicate Category A and B positive pressure approvals respectively, N indicates neutral pressure approval

[2] This is an active/inactive pair installation and requires Eggers overlapping wood astragal

[3] This is an active/active pair installation with top latching surface hardware

[4] This construction requires the use of the vinyl (eiDoor) construction.

[5] Not available in fire-rated openings at this time

[6] The No-Added UF and CARB compliant attributes apply to the Eggers Acoustic Wood Frame as well as the door

[7] These doors were tested without lites but are available with the STC rating shown when 1/2" laminated or IGU are used. A rated IGU and Metal vision frame are required for labeled applications

Acoustic Door Offering

STC RATING BY DOOR TYPE AND ATTRIBUTES														
DOOR TYPE & SWING	STC RATING			CORE TYPE	DOOR THICK-NESS	MAX FIRE RATING [1]	GASKET SYSTEM	GLAZING SYSTEM	GLAZING TYPE	GLAZING AREA (sq in)	AVAILABLE AS NO ADDED UF [6]	AVAILABLE CARB COMPLIANT [6]	WEIGHT PER SQ. FT.	TEST REPORTS
	Grouted Steel Frame	Mineral Wool Filled Frame	Eggers Acoustic Wood Frame											
Stylus	33	33	33[5]	PC	1-3/4"	20 (A,B,N)	I	NA[7]	---	---	Yes	Phase 1 & 2	5.5	TL07-057
	32	32	33[5]	SCL	1-3/4"	20 (A,B,N)	I	NA[7]	---	---	Yes	Phase 1 & 2	6.2	TL07-058
	31	31	33[5]	MC	1-3/4"	90 (A,B,N)	I	NA	---	---	Yes	Phase 1 & 2	4.3	TL07-059
Flush Active-Inactive Pairs	49[2]	47[2]	NA	SG5	1-3/4"	20 (B,N)	A	NA	---	---	Yes	Phase 1 & 2	13.7	TL98-238
	44[2]	43[2]	NA	SG4	1-3/4"	20 (B,N)	A	NA	---	---	Yes	Phase 1 & 2	7.7	TL98-236
	41[2]	41[2]	NA	SG4	1-3/4"	20 (B,N)	B	NA	---	---	Yes	Phase 1 & 2	7.7	TL98-233
Flush Active-Active Pairs	41[3]	41[3]	NA	SG3	1-3/4"	20 (A,B,N)	K	NA	---	---	No	Phase 1	6.2	TL08-007
	40[3]	40[3]	NA	SG3	1-3/4"	NA	K	Bead: 100	1/2" Laminated	400 (max)	No	Phase 1	6.3	TL08-009
	34[3]	34[3]	NA	MC	1-3/4"	45 (A,B,N)	K	VP: Lo-Pro IS	Superlite II-XL-45	Full Lite	Yes	Phase 1 & 2	6.5	TL11-111
	31[3]	31[3]	NA	GC	1-3/4"	90 (A,B,N)	K	NA	---	---	Yes	Phase 1 & 2	7.2	TL11-110
	31[3]	31[3]	NA	SCL	1-3/4"	20 (A,B,N)	K	NA	---	---	Yes	Phase 1 & 2	6.4	TL11-112 TL11-113
Dutch Door	44	43	33[5]	SG4	1-3/4"	20 (B,N)	A	NA	---	---	Yes	Phase 1 & 2	7.7	TL98-237
Door & Transom	44	43	33[5]	SG4	1-3/4"	20 (B,N)	A	NA	---	---	Yes	Phase 1 & 2	7.7	TL98-237
Communicating	53	50	NA	SG4	1-3/4"	20 (B,N)	B	NA	---	---	Yes	Phase 1 & 2	7.7	TL93-219
Stile & Rail Single Swing	40	40	40	SG12	1-3/4"	NA	B	NA	---	---	Yes	Phase 1	8.3	TL99-120
	40	40	40	SG12	1-3/4"	NA	A	Bead: 110	Non-Rated IGU	400 (max)	Yes	Phase 1	8.3	TL99-122
	39	39	39	SG12	1-3/4"	NA	I	Bead: 110	Non-Rated IGU	1296 (max)	Yes	Phase 1	7.0	TL05-123
	38	38	NA	MC	2 ¼"	90 (A,B,N)	A	NA	---	---	Yes	Phase 1	12.5	TL97-321
	37	37	NA	MC	2 ¼"	90 (A,B,N)	B	NA	---	---	Yes	Phase 1	12.5	TL97-312
	36	36	36[5]	MC	1-3/4"	60 (A,B,N)	B	NA	---	---	Yes	Phase 1	9.7	TL97-317
	33	33	33[5]	SCL	1-3/4"	20 (A,B,N)	B	NA	---	---	Yes	Phase 1	5.9	TL94-41
	33	33	33[5]	SCL	2 ¼"	20 (A,B,N)	B	NA	---	---	Yes	Phase 1	6.9	TL97-311
Stile & Rail Active-Active Pairs	37	37	NA	SG12	1-3/4"	NA	K	NA	---	---	Yes	Phase 1	7.9	TL11-109
	35	35	NA	MC	1-3/4"	60 (A,B,N)	K	NA	---	---	Yes	Phase 1	10.2	TL11-108
	32	32	NA	SCL	1-3/4"	20 (A,B,N)	K	NA	---	---	Yes	Phase 1	5.9	TL11-107

[1] In the "Max Fire Rating" column, A and B indicate Category A and B positive pressure approvals respectively, N indicates neutral pressure approval

[2] This active/inactive pair installation and requires Eggers overlapping wood astragal

[3] This is an active/active pair installation with top latching surface hardware

[4] This construction requires the use of the vinyl (eiDoor) construction.

[5] Not available in fire-rated openings at this time

[6] The No-Added UF and CARB compliant attributes apply to the Eggers Acoustic Wood Frame as well as the door

[7] These doors were tested without lites but are available with the STC rating shown when 1/2" laminated or IGU are used. A rated IGU and Metal vision frame are required for labeled applications.

Gasketing Key

ACOUSTICAL GASKETING AND UNDERCUTTING		
GASKET SYSTEM	**COMPONENTS**	**REQUIRED UNDERCUT**
A	Double row Pemko S-88 gasket, Pemko 434 door bottom, Pemko 2005 threshold	1/2"
B	Double row Pemko S-88 gasket, Pemko 434 door bottom	1/4"
C	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 2005 threshold	3/8"
D	Pemko 303 stop, Pemko 234 door shoe, Pemko 2005 threshold	3/8"
E	Pemko 303 stop, Pemko 434 door bottom	1/4"
F	Double row Pemko S-88 gasket, Pemko 411 door bottom	1/4"
G	Double row Pemko S-88 gasket, Pemko 222 door shoe, Pemko 181 threshold	1"
H	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 173 threshold	5/16"
I	Double row Pemko S-88 gasket, Zero 369 door bottom	5/8"
J	Q-lon gasket, Pemko 303 stop, Pemko 234 door shoe, Pemko 181 Threshold	3/4"
K	Double row Pemko S-88 gasket and pad on frame, Zero 369 door bottom, one row of Pemko S-1125 on each meeting edge	5/8"
L	Double row Pemko S-88 gasket and pad on frame, Zero 253 door shoe, Zero 566 threshold, one row of Pemko S-1125 on each meeting edge	3/16"
M	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 151 flat threshold	3/8"
N	DHSI 105, DHSI AMDB3-3, & DP*	1/4" to 3/8"
O	Pemko 773, Pemko 234 door shoe, Pemko 151 flat threshold	3/8"
P	DHSI 105, SA, CS, DP	3/8"
Q	DHSI 105, Pemko 2005	3/8"
R	Zero 119W, Zero 8145S, Zero 369	5/8"
* DP375 is used for the Solid Wood Edge Option (SWE); DP250 is used for full width mortise or CS		
Notes:Eggers standard offering for the Pemko 434 is the ARL seal and for the Pemko 2005 is the AT seal		

Natural Face Veneers
Information Bulletin

No. 300-09-07

Eggers Industries

Your door quote to us specifies a Natural veneer (Ash, Beech, Birch, Maple, or Poplar). **When specifying NATURAL, veneers contain unlimited amounts of sapwood and/or heartwood.** Natural veneer has extreme variation in the appearance of heartwood (the dark portions in the illustrations below, usually red/brown in an actual piece of veneer) and sapwood (the light portions in the illustrations below, usually white in an actual piece of veneer). **This variation cannot be controlled, and will vary both within individual door faces and between door faces.**

In Natural veneer door faces, there is no predictability of how and where heartwood and sapwood will appear. If the doors for your job require a similar appearance, either within a door face or from door to door, it will not be achieved with these species. **If you have a consistent appearance requirement for your wood doors, please contact Eggers for suitable alternatives.**



MOSTLY HEARTWOOD **MOSTLY SAPWOOD**

These veneer examples are typical of grain and color variations found within "A" grade plain sliced natural birch and plain sliced natural maple. However, even these do not represent the widest range possible.

Eggers Industries

Stile & Rail Doors, Door Frames, Plywood, Veneered Components

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Flush Doors

Neenah Division
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email: sales@eggersindustries.com

Eggers Industries
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Stile and Rail Doors, Door Frames
Veneered Components, Plywood

Two Rivers Division
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Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

Flush Doors

Neenah Division
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Neenah, WI 54956
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Architectural Veneer Faces,
Custom Wood Products, Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.849.0444

Clear (01-CLEAR) Sample Submittal Waiver

Date:

I am requesting that Eggers Industries not submit a clear (01-Clear) physical sample for approval for the order listed below and understand that the order will be finished with Eggers' standard clear (01-Clear) finish. By signing this request below, I understand that I am relieving Eggers Industries of any liabilities that may occur due to not having a physical sample produced for this project.

Customer Name:

Project Name:

PO #:

Veneer cut & species:

Signed By:

Date:

Print Name:

Eggers Finishing Systems

Information Bulletin 454

Date: May, 2015

Eggers Industries

Eggers provides the widest selection of finishing systems in the industry. Our wide range of finish systems are anchored by Gardall, consisting of water based stains and 100% solid clear coats which contain no VOC's. Gardall is an environmentally friendly finish system.

Eggers' Gardall finish system meets or exceeds the performance standards set by WDMA and AWS for UV-cured finish systems. Eggers' broad selection of finishing systems provides a cost effective alternative to field finishing. With factory finishing, you can expect superior color consistency and uniformity.

Neenah Division Finishing Process:
Our Neenah division utilizes a precision roll coating finishing process that results in six coats of finish with a final dry coating thickness of 1.5 mils. Multiple thin coats of material offer a high-quality smooth appearance with the durability that is essential in the commercial door industry.

Two Rivers Division Finishing Process:
Our Two Rivers Division utilizes a top-of-the-line spray finishing system with automatic spray guns all in an enclosed chamber. Eggers has implemented strict manufacturing procedures and processes to address and avoid the common finishing issues and we take great pride in the superior quality our finishing system provides.

OTHER SYSTEMS AVAILABLE

Gardall Plus
This is the same Gardall finish system but it has additional sealer and/or topcoats applied. This is used for specifications that call out filled effect finish or semi-filled. Ask for clarification whenever filled effect is listed in a specification.

Opaque Finish
Our opaque finish is offered as an AWS system 5 for opaque finishes and we can match any color. This finish is often referred to as a “painted finish”. AWI does not recognize “paint” as a finish system, only opaque varnishes, as “paint” is too generic of a term to be used as a designated architectural grade finish.

Ebonized Finish
This finish blackens the veneer and is done in one of two methods depending upon the look that is desired. We will either utilize stain or diluted opaque varnishes to obtain the desired color.

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Eggers Finishing Systems
Information Bulletin 454

Date: May, 2015

Eggers Industries

Whitewash Finish
A white stain is used to achieve this specialty look.

Toned / NGR Finishes
These systems are available by special request. These non-wiping stain application (NGR) finishes have the colorants incorporated into the transparent finish coats.

Exterior Finish
Exterior finish is different than any other finish system we offer. All exterior doors are finished with an exterior grade spar urethane, a water and UV resistant finish. This is a specially formulated finish designed to withstand extreme environmental conditions, the finish expands and contracts with wood as the humidity and temperature change.

These are not permanent finishes and will require yearly maintenance to preserve the integrity of the finish. Our exterior finish includes the preservative treatment which is a fungicide and mildew-resistant treatment that is sprayed on the doors prior to stain and topcoats. It contains water repellants to aid in control of checking and grain raising.

Due to the preservative treatment and the general characteristics of spar varnish, the overall appearance of an exterior finish is different than our interior finishes. Sample approval for both interior and exterior finishes will be required for all projects.

Factory Finish Specifications
Section 08200, Part II, Prefinish:
Doors to be factory finished to meet or exceed WDMA I.S. 1A-13 specifications for a TR-8 UV-cured finish system or AWI Section 5 specifications for a UV curable polyester urethane finish system.

Specify Eggers' Gardall – a water-based stain and UV curable polyester urethane finish system which complies with all applicable Federal and State regulations for Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAP) emission limitations per the EPA Clean Air Act.

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Additional Specification Information:
Industry standards allow doors with a full range of color and grain that exist naturally in species. Veneer color and characteristic may vary between species, within the same specie, and potentially within a flitch. Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly or match uniformly in color or grain must be specified at the time of quotation.

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Puttying Nail Holes

Information Bulletin 274

Date: February, 2013

Eggers Industries

In Applied Moulding:

Eggers standard application of moulding is with adhesive only. Where nails are required per the door construction or moulding dimensions (see info bulletin #238). Nail holes will be treated as follows:

Doors Finished***** at Eggers – Nail holes will be filled to match the finish
Doors Primed at Eggers – Nail holes will be puttied but not primed
Doors shipped without finish – Nail holes will not be filled

In Beads (for Louver or Lites installed at Eggers)

Beads are secured in the opening with nails (brads). Nail holes will be treated as follows:

Doors Finished***** at Eggers – Nail holes will be filled to match the finish
Doors Primed at Eggers – Nail holes will be puttied but not primed
Doors shipped without finish – Nail holes will not be filled

***** This includes clear, stained and painted finish options

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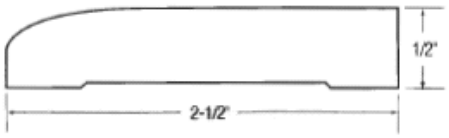
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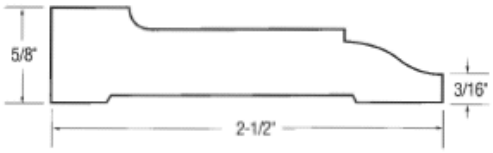
Optional Casing Details

Others available upon request.

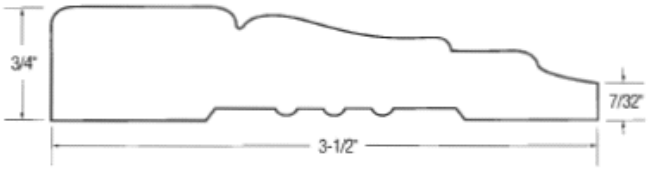
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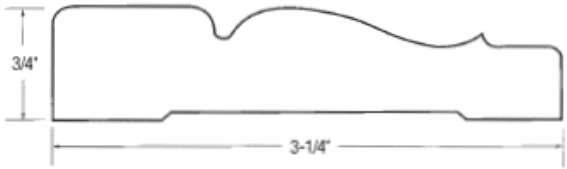
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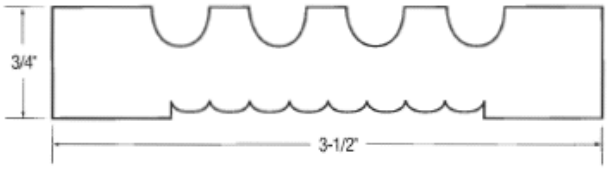
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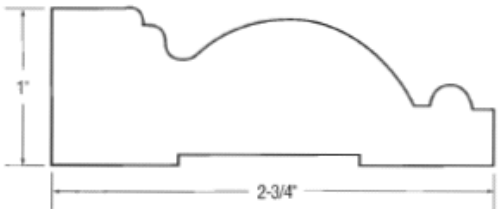
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W10230



W10450



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Material Safety Data Sheet
Mineral Core Door Frame

No. 459-09-07

Eggers Industries

DESCRIPTION

This door contains a hardwood veneer face (occasionally a decorative softwood face) bonded to wood components such as wood, long strand lumber, particle board, or medium density fiberboard (MDF) using urea-formaldehyde or polyvinyl acetate resin.

POTENTIAL AIRBORNE RELEASES

The product may release small quantities of formaldehyde (CAS No. 50-00-0) in gaseous form. Emissions decrease through time as the panels age. Manual or mechanical cutting or abrasion processes performed on the product can result in generation of wood dust.

PHYSICAL DATA

Boiling Point
Not applicable

Specific Gravity (H_2O = 1)
<1

Vapor Density
Not applicable

% Volatile by Volume
0

Melting Point
Not applicable

Vapor Pressure
Not applicable

Solubility in H_2O (% by weight)
<0.1%

Evaporation Rate (Butyl Acetate = 1)
Not applicable

pH
Not applicable

Appearance and Odor
Light to dark color. Color and odor are dependent upon wood species.

FIRE AND EXPLOSION DATA

Flash Point
Not applicable

Autoignition Temperature
Not available (will depend upon duration of exposure to heat source and other variables).

Explosive Limits in Airs
See below under "Unusual Fire and Explosion Hazards."

Extinguishing Media
Water, Carbon Dioxide, Sand

Special Fire Fighting Procedures
None

* This fact sheet is for products that have not been finished (coated, laminated or overlaid) or treated (for example, with preservative or fire retardant).

Unusual Fire and Explosion Hazards

Sawing, sanding or machining can produce wood dust as a by-product which may present an explosion hazard if a dust cloud contacts an ignition source. An airborne concentration of 40 grams of dust per cubic meter of air is often used as the LEL for wood dust.

REACTIVITY DATA

Conditions Contributing to Instability

Stable under normal conditions

Incompatibility

Avoid contact with oxidizing agents. Avoid open flame. Product may ignite in excess of 400°F.

Hazardous Decomposition Products

Thermal and/or thermal oxidative decomposition can produce irritating and toxic fumes and gases, including carbon monoxide, hydrogen cyanide, aldehydes, organic acids, and polynuclear aromatic compounds.

Hazardous Polymerization

Not applicable

HEALTH EFFECTS INFORMATION

Exposure Limits:

Formaldehyde

OSHA PEL-TWA: 0.75 ppm
OSHA PEL-STEL: 2 ppm
ACGIH TLV - CEILING: 0.3 ppm

Wood Dust

OSHA PEL-TWA: 15.0 mg/m^3 (total dust); 5.0 mg/m^3 (respirable fraction)[1]
Wood Dust (Softwood)

ACGIH TLV - TWA 5.0 mg/m^3

[1] In AFL-CIO v. OSHA 965 F. 2d 962 (11th Cir. 1992), the court overturned OSHA's 1989 Air Contaminants Rule, including the specific PELs for wood dust that OSHA had established at that time. The 1989 PELS were: TWA - 5.0 mg/m^3; STEL (15 min.) - 10.0 mg/m^3 (all soft and hard woods, except Western Red Cedar); Western Red Cedar: TWA - 2.5 mg/m^3.

ACGIH TLV - STEL (15 min.): 10.0mg/m^3

Wood Dust (Certain hardwoods such as Beech and Oak)

ACGIH TLV - TWA: 1.0 mg/m^3

Eye Contact

Gaseous formaldehyde may cause temporary irritation or a burning sensation. Wood dust can cause mechanical irritation.

Skin Contact

Both formaldehyde and various species of wood dust may evoke allergic contact dermatitis in sensitized individuals.

Ingestion

No likely to occur

Inhalation:

Gaseous Formaldehyde

May cause temporary irritation to eyes, nose and throat. Some reports suggest that formaldehyde may cause respiratory sensitization such as asthma, and that pre-existing respiratory disorders may be aggravated by exposure.

Formaldehyde is listed by the International Agency for Research on Cancer (IARC) as a probably human carcinogen. The National Toxicology Program (NTP) includes formaldehyde in the Annual Report on Carcinogens. Formaldehyde is regulated by OSHA as a potential cancer agent.

In studies involving rats, formaldehyde has been shown to cause nasal cancer after long term exposure to very high concentrations (14+ ppm), far above those normally found in the workplace using this product.

The National Cancer Institute (NCI) conducted an epidemiological study of industrial workers exposed to formaldehyde (published June 1986). The NCI concluded that the data provides little evidence that mortality from cancer is associated with formaldehyde exposure at the levels experienced by workers in the study.

Wood Dust

May cause nasal dryness, irritation and obstruction. Coughing, wheezing and sneezing; sinusitis and prolonged colds have also been reported.

Depending on species, may cause respiratory sensitization and/or irritation. IARC classifies wood dust as a carcinogen to humans (Group 1). This classification is based primarily on IARC's evaluation of increased risk in the occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to wood dust. IARC did not find sufficient evidence to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum with exposure to wood dust.

PRECAUTIONS, SAFE HANDLING & GENERALLY APPLICABLE CONTROL MEASURES

Formaldehyde

Provide adequate ventilation to reduce the possible build-up of formaldehyde gas, particularly when high temperatures occur.

Wood Dust

Avoid dusty conditions and provide good ventilation.

GENERALLY APPLICABLE CONTROL MEASURES

Ventilation

Provide adequate general and local exhaust ventilation to keep airborne containment concentration levels below the OSHA PELs.

Personal Protective Equipment

Wear goggles or safety glasses when manufacturing or machining the product. Wear NIOSH/MSHA approved respirator when the allowable exposure limits may be exceeded. Other protective equipment such as gloves and outer garments may be needed depending on dust conditions.

EMERGENCY AND FIRST AID PROCEDURES

Eyes

Flush eyes with large amounts of water. Remove to fresh air. If irritation persists, get medical attention.

Skin

Wash affected areas with soap and water. Get medical advice if rash or persistent irritation or dermatitis occurs.

Inhalation

Remove to fresh air. Get medical advice of persistent irritation, severe coughing or breathing difficulty occurs.

Ingestion

Not applicable

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STANDARD TERMS OF SALE

Date: January, 2017

Eggers Industries

1. **Purpose and Acceptance of Order** – These terms are presented to avoid a misunderstanding between the customer and the vendor. Our acceptance of your order is expressly conditioned upon your confirming the accuracy of your order as acknowledged and your acceptance of our terms and conditions set forth. Our terms and conditions may be different from or additional to the terms of your purchase order.
2. **Credit Terms** - If vendor extends credit to customer, payment terms shall be Net 30 days from date of invoice. Vendor may change or withdraw credit amounts or payment terms at any time for any reason. If customer fails to make any payment when due, vendor may suspend or cancel performance on any orders in which vendor has extended credit to customer. Vendor's' suspension of performance may result in rescheduling delays. If, in vendor's judgment, customer's financial condition does not justify the payment terms specified herein, then Eggers may require customer to immediately pay for all materials that have been shipped/delivered and pay in advance for all materials yet to be shipped/delivered. Suspension in accordance with this clause shall not affect vendor's right to pursue any other available remedies.
3. **Price** – These prices are based on the order as written, not necessarily on your inquiry or original quotation. Prices as shown on the acknowledgment are final and will be invoiced on the date of shipment.
4. **Cancellation of Order** – Upon cancellation of an order in process, billing will be made to the customer for all work and materials expended up to the cancellation date. The order will be completed and/or materials shipped only at specific request of the customer. It is the manufacturer's option to use any materials from a cancelled order elsewhere, anytime following the cancellation of the order, and cancellation charges are based on this option.
5. **Change/Revision Charge** – Any change to an order that has already been released out of sales will be assessed a charge of $250/order plus any applicable material and labor costs associated with the change.
6. **Damaged Material** – This material will be carefully inspected and in good condition when accepted by the carrier. If damage occurs, it is your responsibility to immediately notify the transportation company to make an inspection prior to discarding packaging material. If packaging material is damaged, you must make the request upon receipt of the materials. The customer must not sign an inspection receipt that puts responsibility of damage on the shipper because of insufficient protection of materials without the consent of the shipper. If you feel the damage occurred prior to shipping, or is our responsibility, contact our company representative. The packaging material must be saved for our inspection. We will accept full responsibility for damaged material only if all of the above procedures are followed.
7. **Freight Allowance** – All quotations made with freight allowance are FOB Factory and based on method of shipment quoted. Should the customer request an alternate method of shipment, additional freight charges will be assessed.
8. **Required Customer Information** – If the customer fails to supply adequate hardware machining information or fails to agree on a finish sample, the company reserves the right to credit the charges for these items and ship the door without pre-machining or pre-finishing the product.
9. **Appearance** – All doors must be visually inspected for face grade, color, match, and other defects by the customer prior to further work or installation. If manufacturing defects are detected after staining or sealing, no additional coat of finish may be applied without approval of the manufacturer. We are responsible for repairing or replacing material as originally furnished, but not refinishing or reinstallation if the defect could be detected prior to further work or installation.
10. **Sanding Prior to Finishing** – Prior to field applied finishes, doors must be sanded. The finisher should thoroughly sand the doors with 150-grit sandpaper going with the grain direction of the veneer. A hand block should be used to remove all scuffs, handling marks, scratches, raised grain, burnishes and effects of exposure to moisture that may occur during handling, unloading and storage.
11. **End Matching** – An end match variation of grain pattern is considered acceptable for face of panels of 3/8" and back of panels of 7/8".
12. **Storage and Installation Conditions** – It is the responsibility of the customer to store and install the product in an enclosed area where the relative humidity is maintained between 25% and 55%. Certain veneers such as Cherry, Mahogany, Teak, Walnut, etc. may be damaged if exposed to either sunlight or forms of artificial light. Cover doors to keep clean and avoid discoloration with an opaque covering which does not permit light to penetrate during storage or staging. Covering must allow for air circulation. If doors are to be stored for more than one week, all edges should be sealed.
13. **Industry Standards** – For items not covered by these Standard Terms of Sale, these industry standards apply:
    a. Hardwood Plywood Veneer Association (HPVA), or
    b. Window & Door Manufacturers Association (WDMA), or
    c. Architectural Wood Institute (AWI), or
    d. Woodwork Institute (WI)
14. **Warranty** – Our sole and exclusive warranty to you under this contract is that the goods sold pursuant to this Contract will be as described and be free of any defects in parts and workmanship, if used under normal circumstances and in accordance with any instructions given to you. Except as expressly provided to the contrary in

paragraphs 10 and 11. **WE EXPRESSLY DISCLAIM ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSES OF THE BUYER AS PROVIDED BY THE UNIFORM COMMERCIAL CODE.** It is also agreed that our remedies to you for your breach under this Contract shall consist of the following, any or all of which may be exercised by us at our sole option and no others:

a. Repair the product without charges to you,
b. Replace the product without charge in the same stage of installation and/or finishing as originally supplied to you, or
c. Refund the purchase price.

If requested by the customer, only an Eggers Warranty will be issued for the project upon receipt of full payment as acknowledged by Eggers.

15. **Consequential Damages** – In the event that we breach this Contract, we shall not be liable to you for any consequential damages arising out of such breach. In the event that any other term of this Contract is found unconscionable or unenforceable for any reason, or the remedies identified in paragraph 12 above fail of their essential purpose, the provision of waiver by agreement of consequential damages shall continue in full force and effect.
16. **Shipping Delays** – We are excused from performing any of our obligations under this Contract which are prevented or delayed by any occurrence not within our control, including, but not limited to, destruction or damage to the goods of our manufacturing plant, strikes or other labor matters, floods, fire, accidents, riots, explosion, or any regulations, rules, ordinances or orders of any governmental authority, federal, state, or local.
17. **Choice of Law** – The terms, rights, and obligations under this Contract shall be construed under the laws of the State of Wisconsin.

Cancellation Charge	
Orders not started in production	No charge
Order that is in production	$200 per order plus the cost of rework, restock, etc. as well as labor expended.
All Fast Track Orders	$200 per order plus the cost of rework, restock, etc. as well as labor expended.

Change/Revision Charge	
Any change to an order that has been released out of sales	$250/order plus any applicable material and labor costs associated with the change.

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Date: January, 2017

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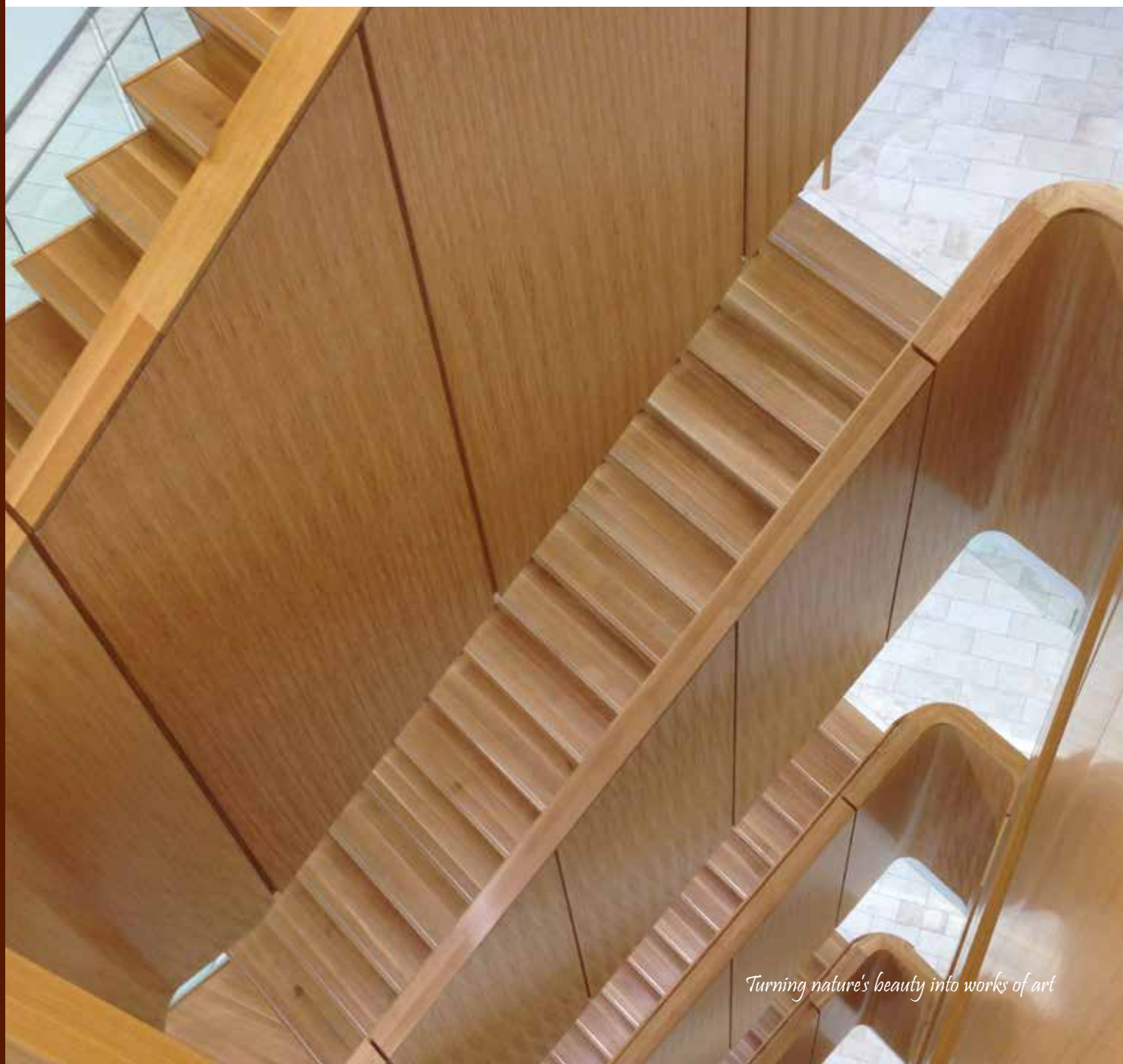
Architectural Veneer Faces, Custom Wood Products, Plywood

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ARCHITECTURAL PANELS AND VENEER MATCHING

Eggers Industries manufactures architectural panels using custom veneer matching for superior quality and aesthetic standards.

Eggers Industries



ARCHITECTURAL PANELING AND VENEER MATCHING

Since 1884, Eggers Industries has been revealing the beauty and grandeur of wood.

Our crafts people, who specialize in architectural plywood, along with our veneer matching capabilities, turn even the most common species of wood into extraordinary works of art.

Eggers manufactures panels to drawing specifications and details. We have the capability and capacity to produce architectural paneling with a wide range of requirements, including:

- Curved panels—36" to 600" radius available
- Flat panel sizes up to 72" wide by 192" long
- Matching doors, conference tops, and furniture components
- Various core constructions
  - Rated
  - Non rated
  - Ecoustics™
- Veneer or lumber banding (concealed or exposed)
- Machining
- Finishing
- Sealing

  Factory finished panels are sealed on the backs and edges.
- Micro-perf

All Eggers' panels, from wall to ceiling panels, meet the highest performance specifications, including Underwriters Laboratories, Inc.® (UL) Class A or B labels. Our diverse selection of styles and sizes, along with a variety of options, helps you create the perfect space for any project.

Underwriters Laboratories, Inc.® regularly inspects Eggers' manufacturing facilities and approves the application of label to assure proper fire retardant classification.



	CORE		
Characteristics	**MDF**	**Particleboard**	**Veneer**
Thickness	1/4", 1/2", 3/4", 1-1/8" 1-1/4", 1-1/2"	7/16", 3/4", 1-3/16"	1/16" to 1-1/4"
Class A Fire Label on Panel	No	Yes	No
No Added Urea-Formaldehyde	Yes	Yes	Yes
FSC® Certified Panel	Yes	Yes	No
Screw Holding on Face	Better	Good	Best
Screw Holding on Edge	Better	Good	Good
Ease of Edge Machining	Best	Good	Good
Appearance of Edge	Better	Good	Good
Relative Weight	Heavy	Heavy	Light
Core Voids when Cut	No	No	Slight
Strength-to-Weight Ratio	Low	Low	High

Edge Banding

- Matching species to face or various domestic or imported species.
- Lumber bands may be concealed or exposed.
- Veneer banding is applied after laminating and may be from the same flitch as the face for greater similarity of color and grain.
- Veneer banding is applied afer face lamination.

Edge Machining

The edge of the panels can be grooved, splined, rabbeted, mitered, or shaped to many profiles.

Finishing

Eggers uses an acrylated UV-cured urethane finish system.

Fire-Rated Labels

- Finished UL labeled Class A panels are constructed with fire-rated particleboard synthetic heat-resistant adhesives, and finishing materials.
- Maximum wood species dry density is 48 pcf.

Adhesives

- Type I
- No added urea-formaldehyde

Industry Standards

- AWS Quality Standards Edition 2, 2014
- Eggers is AWI QCP Certified
- ANSI/HPVA HP-1-2009



SUSTAINABILITY

Eggers Industries offers doors, veneered panels, conference tops and components that are Rainforest Alliance certified to the standards of the Forest Stewardship Council® (FSC®). FSC certified wood products contribute points toward the Leadership in Energy and Environmental Design (LEED®).

Eggers' wide range of finish options is anchored by a UV-cured finish, an environmentally friendly system that meets Architectural Woodwork Standards (AWS) standards for curable finishes. The UV-cured finishing system consists of water-based stains and 100% solid clear coats free of Volatile Organic Compounds (VOC).

EGGERS' PANELS	MR 4: Recycled Content**	MR 7: Certified Wood**	EQ 4.4: Composite Wood, Agrifiber and Adhesives Contain No Added Urea-Formaldehyde***	Total Point Contributions with Eggers' Panels
Particleboard*	2			2
No UF Particleboard*	2		1	3
FSC® Certified / No UF Particleboard	2	1	1	4
MDF	2			2
No UF MDF	2		1	3
FSC Certified / No UF MDF	2	1	1	4
Veneer Core			1	1

** Particleboard available as UL Class A Label.*
*** Per USGBC guidelines, the value of any content that contributes to MR #4 cannot also be attributed to the MR #7.0 calculation.*
**** The product construction is only urea-formaldehyde free if it is ordered as urea-formaldehyde free.*

EGGERS STOCK PANELS

Eggers Industries, Plywood Division, meets your needs for quality stock panels in ***as fast as five working days*** from receipt of order to ship.

Standard Veneer Species[1]

Caramel Bamboo
Natural Bamboo
PS White Ash
QD White Ash
PS European Steamed Beech
PS Cherry
QD Cherry
PS Eucalyptus
QD Eucalyptus
VG Douglas Fir
PS Mahogany
QD Mahogany
PS Makore
QD Makore
PS White Maple
QD White Maple
PS Southern Yellow Pine
PS Red Oak
QD Red Oak
Rift Red Oak
PS Teak
QD Teak
PS White Oak
QD White Oak
Rift White Oak
PS Walnut
QD Walnut

Construction

- Eggers standard three-ply construction
- Particleboard
- Fire retardant particleboard
- No added urea-formaldehyde particleboard
- FSC® certified particleboard
- MDF
- Veneer core
- FSC certified MDF

Panel Thickness

1/2", 3/4". Other sizes available upon request.

Quantity

- No minimum
- Quantities greater than 100 may increase lead times

Dimensions

- 4' x 8', 5' x 8', 4' x 10', 5' x 10'
- All panels are oversized
- Cut-to-size are available upon request.

Price

Contact your Eggers' representative for pricing.

Revision to Order

Revisions to orders may result in extending the acknowledged ship date.

Questions

Confirm purchase order with your Account Manager. Submitting purchase orders without complete product details could extend ship dates.

[1] Other species available with increased lead time.



MATCHING VENEER LEAVES WITHIN A PANEL



Running Match

- Each panel face is assembled from as many veneer leaves as necessary.
- Results in a non-symmetrical appearance with some veneer leaves of unequal width.
- Often the most economical method at the expense of aesthetics.



Balance Match

- Each panel face is assembled from veneer leaves of uniform width before edge trimming.
- Panels may contain an even or odd number of leaves and distribution may change from panel to panel within a sequence set.



Center Match

- Each panel face is assembled of an even number of veneer leaves of uniform width before edge trimming.
- There is a veneer joint in the center of the panel producing horizontal symmetry.



Book Match

- Veneer joints match, creating a symmetrical pattern. Yields maximum continuity of grain.
- Prominent characteristics will ascend or descend across the match.
- Because tight side and loose side face alternate in adjacent leaves, they reflect light and accept stains differently. This may yield a noticeable color variation, termed “Barber Pole.” Barber Pole is not considered a defect.
- The effect may be minimized through the use of proper finishing techniques.



Slip Match

- Adjoining leaves are slipped out in sequence with all same-face sides exposed.
- The joint may not be noticeable if grain is straight.
- Figure repeats, but grain does not match at joints.
- Produces a uniform color because all faces have a similar light reflection.
- A leaning effect may occur if the specie used does not demonstrate a straight grain.



Diamond Match



Box Match



Sunburst



Reverse Diamond Match

For additional information, please refer to AWS Edition 2, Section 4.

MATCHING FACES BETWEEN PANELS



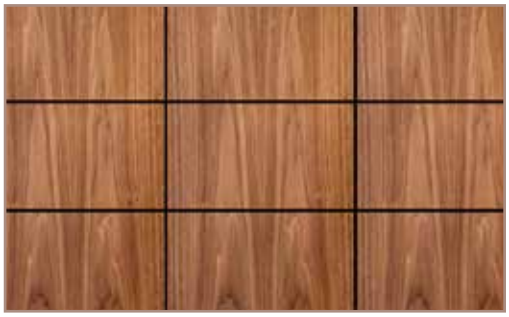
Blueprint Match

- Architectural grade veneers are matched for continuity of grain and color for various size panels, doors, and transoms.



Architectural End Match

- Veneer is book matched end-to-end as well as side-to-side.
- Wood grain is continuous in length as well as width.
- Appropriate when panel height exceeds the veneer length.



Continuous End Match

- Multiple panels end matched for length using a single length of veneer.
- Made as a single panel for length and then cut apart.



Stack End Match

- The panels are sequenced left to right, starting with the bottom row.
- Leaf width is maintained vertically between rows.



Sequence Match

- All panels are uniform length.
- Architectural grade veneers are matched for color and all panels of the same size will have continuity of grain.
- Other size panels must be cut during installation which may interrupt grain continuity.

Eggers Industries

www.eggersindustries.com
sales@eggersindustries.com

Stile and Rail Doors, Door Frames, Plywood, Veneered Components

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Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

Flush Doors, eiDoor®

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces, Custom Wood Products, Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.845.0615

Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supersede those in print.

The FSC certification ensures responsible use of forest products. 301-08-15

Look for FSC certified products.

FSC www.fsc.org FSC® C019991 The mark of responsible forestry

RAINFOREST ALLIANCE CERTIFIED

CERTIFIED QUALITY WOODWORK

R02.17

SOUNDWOOD ACOUSTICAL PRODUCTS

Eggers Industries melds technology with style to produce beautiful, high-performing acoustical doors and frames.

Eggers Industries

Soundwood™
ACOUSTICAL WOOD PRODUCTS BY EGGERS



Turning nature's beauty into works of art



SOUNDWOOD ACOUSTICAL PRODUCTS

Eggers' sound control openings have the highest STC ratings in the industry, made of solid wood and wood composite based materials. Our capabilities allow combinations of acoustical performance and other special functionalities to meet design requirements and building codes. Eggers' STC doors and frames are found in airports, healthcare, and hospitality facilities, government and municipal buildings as well as educational institutions. Typical applications of our acoustical doors and frames include performance venues, conference rooms, lecture halls, auditoriums, and classrooms.

Our acoustical products include doors and frames that have been evaluated for sound transmission at a qualified testing laboratory using ASTM standard test method E-90-XX (where XX refers to the year). To ensure applicable data, make certain the products you are specifying reference an acceptable revision date of the test method. Products tested with old standards may not provide the same level of performance as those tested with newer versions.

Acoustical Performance Testing Methods

There are two ways to test and report the acoustical performance of doors. The first is as a fixed panel. This is done by fully sealing the door to frame perimeter and eliminating any sound leaks around the door perimeter. This type of test is helpful in determining the performance of the basic construction, but does not represent an operational application.

The second method is to test an operable assembly. In this case, the door is installed in a frame, including hinging and latching hardware as well as a gasketing system. In addition to including all of the required components of an operable assembly, the test method requires the door be operated normally through five open/close cycles, without subsequent adjustments, prior to running the acoustic test. This test method provides more useful performance values than an inoperable test. When comparing STC ratings, be sure that the ratings represent operable doors. While Eggers conducts research and development tests of many of our constructions as sealed panels, the advertised STC numbers are always for operable assemblies.

Eggers has generally limited the variables tested to the door construction, application and the gasketing system. With a few notable exceptions shown on our product matrix, we have limited our testing to readily available hardware and gasketing materials, ADA approved thresholds (where applicable), and steel frames. A special note regarding frames is appropriate here. Where steel frames are used in testing, they are normally fully grouted with cement. This is a standard method of installation at testing laboratories and is done to insure the resulting STC rating represents only the doors and gasketing system. This is not meant to restrict the openings in which acoustic doors are used. In many circumstances, existing frames or installation conditions may prevent the use of a solid filled frame. Where other types of fill are used, an acoustic consultant should be employed to determine if the alternate fill will maintain the desired acoustic performance for the opening. As long as the framing provides an acoustic performance equal or greater than the door rating, the advertised STC will be maintained.

The relevance chart below is given as a general guideline of the effect various STC ratings have on speech being heard through the door.

Advantages of Eggers Acoustic Doors

Eggers has conducted acoustic tests on all of our standard door constructions. In many cases where the acoustics properties need to be known, but are not the primary objective, gasketing a standard door construction may be all that is required. When the project design requires acoustic performance above and beyond the standard doors, Eggers has designed and tested a full line of specialty constructions. Benefits offered by this broad range of products include:

STC Rating	Speech heard through the door
30	Loud speech can be understood fairly well
35	Loud speech audible but not understandable
40	Loud speech audible as a murmur
45	Loud speech barely audible
50	Loud speech not audible

- STC ratings ranging from 38 through 52
- Applications that include single swing, standard swing pairs, doors and transoms and dutch doors
- Acoustic rating for both flush doors and stile and rail doors.
- Applications without lites, with small lites (100 sq. in.), medium sized lites (400 sq. in.), large lites (1296 sq. in.) and even full lites
- Applications with 20-minute, 45-minute, 60-minute, and 90-minute fire ratings
- Applications that provide x-ray protection as well as acoustical performance
- Applications tested in wood frames
- Applications for airport housing noise abatement programs

Specialized Constructions

A variety of components are used to provide the performance range of our acoustic products, alone or in combination with applicable fire, bullet-resistance, and X-ray protection. These components make 4' x 8' the practical maximum door dimension. Contact the technical department for applications requiring larger doors.

Guaranteed STC Ratings

The STC rating of acoustic doors depends on two things: the components used (doors and gasketing) and their installation. While Eggers does not perform installation, we are still able to guarantee our doors meet the advertised STC ratings when properly installed using the door construction, hardware, seals, and where applicable, the lites described in our STC Product Offering Matrix. This guarantee is given with confidence because of the stringent tests we conduct on all acoustic assemblies. The Eggers name alone is your assurance of the highest standards possible.

While we encourage use of these tested assemblies, we also recognize the need for substitutions such as a different type of glazing or alternate gasketing. In such cases where there is no test report for the final assembly, Eggers will provide the same door construction used for the tested assembly, but without a “guaranteed” STC rating. This allows for increased design flexibility starting with a proven door construction. We recommend the use of an acoustic consultant to review the final assembly whenever substitutions are made.

As stated above, the final performance depends heavily on the installation. The best acoustic doors will fail to meet expectations if they are improperly installed. Acoustic applications are special, they generally involve close tolerances that require square and plumb openings. The acoustic assemblies have been designed such that the seals are uniform between the door and the fixed elements of the opening. Do not expect an acoustic door to compensate for poor frame installation. It is better to fix the opening before installing the door. Likewise, insuring properly installed and adjusted gasketing will avoid remedial work. Extra time spent ensuring a good installation will pay off in superior quality sound control.

When gasketing an acoustic opening, a good analogy is to think about sealing out sound like you would seal out light in a dark room. Wherever light can leak through the opening, so will sound. A simple field test after the assembly is fully installed is to close the door, turn out the lights on one side of the door and, after allowing your eyes to adjust to the darkness, inspect the seals for light leaking through the assembly. To further aid in this test, have someone shine a bright light around the perimeter on the opposite side as you inspect for leaks. Preventing or solving installation issues will address over 95% of unsatisfactory acoustic assemblies.

STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Single Swing	52	1-3/4"	NR	S or T	NA	---	---	12.0	C5765.03	SG14
	51	1-3/4"	NR	S, T, or U	NA	---	---	12.0	C5765.03	SG14
	51	2 1/4"	20	A	NA	---	---	15.8	TL94-37	SG6
	50	1-3/4"	NR	S, T, or U	NA	---	---	12.0	C5765.03	SG14
	50	1-3/4"	NR	S or T	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C5765.04	SG14
	49	1-3/4"	NR	U	NA	---	---	12.0	C5765.03	SG14
	49	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	49	1-3/4"	NR	S or T	NA	---	---	10.5	"E1460.03-113-11-R0 C7672.03A"	SG16A
	48	1-3/4"	NR	S, T, or U	NA	---	---	10.5	"E1460.03-113-11-R0 C7672.03B"	SG16A
	48	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	48	1-3/4"	20	A	NA	---	---	13.7	TL97-320	SG5
	48	2-1/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	15.8	TL95-350	SG6
	47	1-3/4"	NR	S, T, or U	NA	---	---	10.5	"E1460.03-113-11-R0 C7672.03A"	SG16
	47	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	47	2 1/4"	20	A	VP:110-D2	Pyroswiss / 1/2" Laminated	400 (max)	15.8	TL95-351	SG6
	47	1-3/4"	60-45	A	NA	NA	NA	15.7	TL03-023	SG8
	47	1-3/4"	60-45	S, T, or U	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	15.4	"E1460.05-113-11-R0 C7672.02K-113-17-R0"	SG8
	46	1-3/4"	NR	S, T, or U	NA	---	---	10.5	"1460.03-113-11-R0 C7672.03A"	SG16
	46	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	45	1-3/4"	20	A	NA	---	---	7.7	TL94-220	SG4
	44	1-3/4"	20	I	NA	---	---	7.7	TL10-134	SG4 (4)
	43	1-3/4"	NR	P	NA	---	---	7.9	100534284CRT-001k	SG4
	43	1-3/4"	20	A	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	100 (max)	7.7	TL03-020	SG4
	43	1-3/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	7.7	TL03-019	SG4
	43	1-3/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	13.6	TL03-022	SG5
	42	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	42	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	42	1-3/4"	NR	A	Bead: 107	1/2" Laminated	400 (max)	7.7	TL03-021	SG4
	42	1-3/4"	60-45	S	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	13.6	"E1460.06-113-11-R0 C7672.02M-113-17-R0"	SG13
	42	1-3/4"	60-45	T	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	13.6	"E1460.06-113-11-R0 C7672.02M-113-17-R0"	SG13

Non-rated openings STC45 or lower available with Eggers acoustic wood frame
FSC® certification is available where core type is PC, SCL, SLC, SG3, or SG11
All acoustic doors are available as "No Added UF" and "Phase 2 Carb Compliant"

STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Single Swing	41	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	41	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	41	1-3/4"	NR	B	Bead: 107	1/2" Laminated	400 (max)	6.5	TL03-012	SG3
	41	1-3/4"	NR	B	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	6.5	TL03-013	SG3
	41	1-3/4"	20	A	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	400 (max)	7.7	TL95-348	SG4
	41	1-3/4"	60-45	S or T	NA	---	---	13.6	"E1460.06-113-11-R0 C7672.02O-113-17-R0"	SG13
	41	1-3/4"	60-45	U	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	13.6	"E1460.06-113-11-R0 C7672.02N-113-17-R0"	SG13
	40	1-3/4"	45	S or T	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	7.6	"E1460.04-113-11-R0 C7672.02G-113-17-R0"	SG7
	40	1-3/4"	60-45	U	NA	---	---	13.6	"E1460.06-113-11-R0 C7672.02P-113-17-R0"	SG13
	40	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	40	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	40	1-3/4"	NR	M	Bead: 110	1-1/8" Non-Rated IGU	1296 (max)	6.7	TL10-141	SG3
	40	1-3/4"	20	B	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	400 (max)	7.7	TL95-347	SG4
	40	1-3/4"	90-60-45	C	NA	---	---	7.6	TL06-051	SG9
	39	1-3/4"	45	S	NA	---	---	7.6	"E1460.04-113-11-R0 C7672.02I-113-17-R0"	SG7
	39	1-3/4"	45	T	NA	---	---	7.6	"E1460.04-113-11-R0 C7672.02I-113-17-R0"	SG7
	39	1-3/4"	45	U	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	7.6	"E1460.04-113-11-R0 C7672.02H-113-17-R0"	SG7
	39	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	39	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	39	1-3/4"	90-60-45	I	NA	---	---	7.7	TL06-053	SG9
	38	1-3/4"	45	U	NA	---	---	7.6	"E1460.04-113-11-R0 C7672.02J-113-17-R0"	SG7
	38	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	38	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	38	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (max)	6.7	C7672.01B	SG3
	37	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (max)	6.7	C7672.01B	SG3
	37	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	37	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	37	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	Full Lite (min 47% of area)	5.9	TL05-052	SCL
	37	1-3/4"	60-45	I	VP: 115-L1	Firelite Plus / Leaded	100 (max)	10.3	TL05-126	SG13
	37	1-3/4"	20	I	Bead: 100	Firelite Plus	400 (max)	6.0	TL05-051	SG3
	36	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (max)	6.7	C7672.01B	SG3
	36	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	36	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	36	1-3/4"	20	P	NA	---	---	6.3	100534284CRT-001l	SG11

Non-rated openings STC45 or lower available with Eggers acoustic wood frame
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All acoustic doors are available as "No Added UF" and "Phase 2 Carb Compliant"

STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Single Swing	36	1-3/4"	60-45	I	NA	---	---	10.2	TL05-125	SG13
	36	1-3/4"	20	N	NA	---	---	7.1	100534284CRT-001f	SG3
	35	1-3/4"	20	M	NA	---	---	10.0	TL10-142	BR3
	35	1-3/4"	90-60-45	U	NA	---	---	7.2	A5305.02-113-11	GC
	35	1-3/4"	NR	I	Bead: 107	1/2" Laminated	1296 (min)	6.2	TL10-138	PC
	35	1-3/4"	NR	O	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	7.3	TL10-144	SG11
	35	1-3/4"	20	I	NA	---	---	7.3	TL10-136	SG11
	35	1-3/4"	NR	I	NA	---	---	7.3	TL10-136	SG11
	35	1-3/4"	20	U	NA	---	---	7.3	TL10-136	SG11
	35	1-3/4"	NR	U	NA	---	---	7.3	TL10-136	SG11
	34	1-3/4"	NA	B	Bead: 107	1/2" Laminated	1296 (min)	6.2	TL10-138	PC
	34	1-3/4"	NA	I	LoPro IS	1/2" Laminated	400 (min)	6.1	TL10-135	PC
	33	1-3/4"	NA	I	Bead: 107	1/2" Laminated	400 (min)	6.1	TL10-133	PC
	33	1-3/4"	20	Q	NA	---	---	6.9	100534284CRT-001n	SCL
	32	1-3/4"	20	Q	NA	---	---	5.5	100534284CRT-001o 100534284CRT-001p	PC
	32	1-3/4"	20	I	NA	---	---	6.9	TL06-059	SCL
	32	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	6.9	TL06-059 & TL97-313	SCL
	32	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	6.9	TL06-059 & TL03-013	SCL
	32	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	6.9	TL06-059 & TL03-012	SCL
	32	1-3/4"	20	N	NA	---	---	6.9	100534284CRT-001b	SCL
	31	1-3/4"	20	I	NA	---	---	5.8	TL06-058, TL10-129	PC
	31	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	5.8	TL06-058 & TL97-313	PC
	31	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	5.8	TL06-058 & TL03-013	PC
	31	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	5.8	TL06-058 & TL03-012	PC
	31	1-3/4"	NR	N	NA	---	---	5.5	100534284CRT-001a	PC
	30	1-3/4"	20	I	NA	---	---	4.6	TL06-056	SLC
	30	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	4.6	TL06-056 & TL97-313	SLC
	30	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	4.6	TL06-056 & TL03-013	SLC
	30	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	4.6	TL06-056 & TL03-012	SLC
	29	1-3/4"	90-60-45	I	NA	---	---	4.4	TL06-057	MC
	27	1-3/4"	20	I	NA	---	---	4.9	TL07-035	AGR
	27	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	4.9	TL07-035 & TL97-313	AGR
	27	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	4.9	TL07-035 & TL03-013	AGR
	27	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	4.9	TL07-035 & TL03-012	AGR
Stylus	33	1-3/4"	20	I	NA	---	---	5.5	TL07-057	PC
	32	1-3/4"	20	I	NA	---	---	6.2	TL07-058	SCL
	31	1-3/4"	90-60-45	I	NA	---	---	4.3	TL07-059	MC

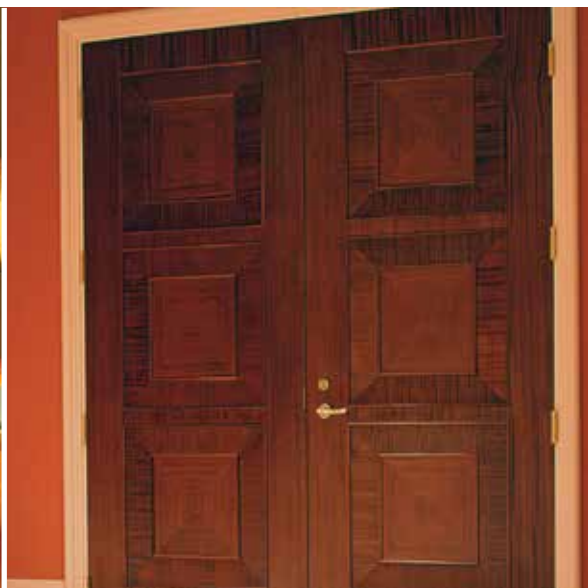
Non-rated openings STC45 or lower available with Eggers acoustic wood frame
FSC® certification is available where core type is PC, SCL, SLC, SG3, or SG11
All acoustic doors are available as "No Added UF" and "Phase 2 Carb Compliant"

STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Active-Inactive Pairs[1]	49	1-3/4"	20	A	NA	---	---	13.7	TL98-238	SG5
	44	1-3/4"	20	A	NA	---	---	7.7	TL98-236	SG4
	41	1-3/4"	20	B	NA	---	---	7.7	TL98-233	SG4
Flush Active-Active Pairs [2]	41	1-3/4"	20	K	NA	---	---	6.2	TL08-007	SG3
	40	1-3/4"	NR	K	Bead: 100	1/2" Laminated	400 (max)	6.3	TL08-009	SG3
	34	1-3/4"	45	K	VP: Lo-Pro IS	Superlite II-XL-45	Full Lite (min 47% of area)	6.5	TL11-111	MC
	31	1-3/4"	90-60-45	K	NA	---	---	7.2	TL11-110	GC
	31	1-3/4"	20	K	NA	---	---	6.4	TL11-112 TL11-113	SCL
Dutch Door	44	1-3/4"	20	A	NA	---	---	7.7	TL98-237	SG4
Door & Transom	44	1-3/4"	20	A	NA	---	---	7.7	TL98-237	SG4
Communicating	53	1-3/4"	20	B	NA	---	---	7.7	TL93-219	SG4
Stile & Rail Single Swing	40	1-3/4" (1-11/16")	NR	B	NA	---	---	8.3	TL99-120	SG12
	40	1-3/4" (1-11/16")	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	8.3	TL99-122	SG12
	39	1-3/4" (1-11/16")	NR	I	Bead: 110	1-1/8" Non-Rated IGU	1296 (max)	7.0	TL05-123	SG12
	38	1-3/4" (1-11/16")	NR	S or T	NA	---	---	7.6	"E1460.07-113-11-R0 C7672.02Q-113-17-R0"	SG12
	38	2 ¼" (1-7/8")	90-60-45	A	NA	---	---	12.5	TL97-321	MC
	37	1-3/4" (1-11/16")	NR	U	NA	---	---	7.6	"E1460.07-113-11-R0 C7672.02R-113-17-R0"	SG12
	37	2 ¼" (1-7/8")	90-60-45	B	NA	---	---	12.5	TL97-312	MC
	36	1-3/4" (1-3/4")	60-45	B	NA	---	---	9.7	TL97-317	MC
	33	1-3/4" (1-1/2")	20	B	NA	---	---	5.9	TL94-41	SCL
	33	2 ¼" (1-1/2")	20	B	NA	---	---	6.9	TL97-311	SCL
Stile & Rail Active-Active Pairs	37	1-3/4" (1-11/16")	NR	K	NA	---	---	7.9	TL11-109	SG12
	35	1-3/4" (1-3/4")	60-45	K	NA	---	---	10.2	TL11-108	MC
	32	1-3/4" (1-1/2")	20	K	NA	---	---	5.9	TL11-107	SCL

[1] Test was conducted as an active/inactive pair installation and requires Eggers' overlapping wood astragal.
[2] Test was conducted as an active/active pair with top latching surface hardware.







ACOUSTICAL GASKETING AND UNDERCUTTING		
Gasket System	**Components**	**Required Undercut**
A	Double row Pemko S-88 gasket, Pemko 434_ARL door bottom, Pemko 2005_AT threshold	1/2"
B	Double row Pemko S-88 gasket, Pemko 434_ARL door bottom	1/4"
C	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 2005_AT threshold	3/8"
I	Double row Pemko S-88 gasket, Pemko PDB411_AE door bottom	3/8" (1/4"-1/2")
K	Double row Pemko S-88 gasket and pad on frame, Pemko PDB411_AE door bottom, one row of Pemko S-1125 on each meeting edge	3/8" (1/4"-1/2")
M	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 151 flat threshold	3/8"
N	DHSI 105, DHSI AMDB3-3, & DP*	1/4"
O	Pemko 773, Pemko 234 door shoe, Flat smooth threshold	3/8"
P	DHSI 105, SA, CS, DP	3/8"
Q	DHSI 105, Pemko 2005_AT	3/8"
S	2008_APK Threshold, S44 and 312R	3/8"
T	2008_APK Threshold, S773 and S44	3/8"
U	Pemko PDB411_AE, S773, S44 and ACP112	3/8" (1/4"-1/2")

**DP375 is used for the Solid Wood Edge Option (SWE); DP250 is used for full width mortise or CS*





SOUNDWOOD ACOUSTICAL WOOD FRAMES

Eggers' acoustical wood jambs allow the beauty of our doors to be accented with matching wood frames designed to create a cohesive look metal frames cannot match. Create a masterpiece, knowing Eggers will work diligently to make your acoustical door and frame a perfect match. Available with an STC sound test report up to an STC 45, Eggers' two piece acoustical frame is sold exclusively in combination with Eggers' acoustical doors.

Elegant

Eggers' acoustical frames are available in virtually any veneer and finish color and offers quality control unparalleled in the acoustical wood door market. No longer is a metal frame with wood casing necessary for aesthetic appeal. Perfect for the grand entrance to a concert hall or the distinction of a boardroom, Eggers' acoustical wood frames complement our acoustical doors perfectly.

Functional

Eggers' STC doors and frames are found in healthcare and hospitality facilities, government and municipal buildings as well as educational institutions. Typical applications include performance venues, conference rooms, lecture halls, auditoriums, and classrooms.

Two Piece Acoustical Jamb Installation Instructions

Maximum Overall Opening	50-11/16" wide x 121-11/32" high (frame buck opening)
Maximum Door Opening	Single–4-0 x 10-0
Wall Depth	Minimum–4-7/8"
Wall Type	Wall must be constructed to meet the STC rating and lined with a wood stud for jamb attachment
Gasketing	Refer to gasketing installation instructions for the specific STC door rating selected from the STC Product Offerings chart

Note: Soundwood Acoustical Frames are veneer-wrapped and will maintain the opening rating with doors rated up to STC 45.

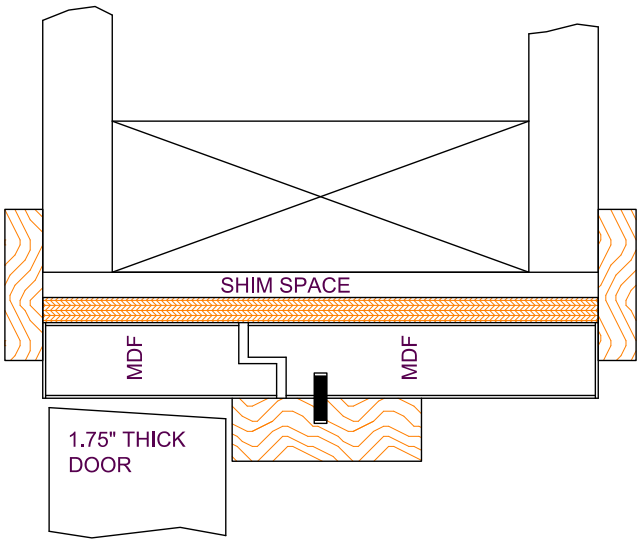
Door side of jamb is shimmed and installed first with #8 x 1-1/2" screws spaced a maximum of 4" from each end and 24" on center.

Stop side of jamb is then installed flush with the wall. Space in between the two jamb components is okay.

Attach stop side of jamb with #8 x 2" screws or 8d finishing nails spaced a maximum of 6" from the end and 24" on center. Fasteners can be located underneath the stop.

One #8 x 2" screw or 8d finish nail should be located at each hinge pocket and strike pocket on the door side of jamb before the hardware is installed.

Shim space is a maximum of 1/4" and must be tightly filled with fiberglass insulation



Flat Stop

Minimum 5/8" thick x 1-1/2" wide. Flat stops are installed with a 1/8" x 7/16" HDF spline and #4 finish nails or 18 gage x 1-1/2" long brads spaced maximum 4" from each end and 16" on center.

Casing

Minimum 3/8" thick x 1-1/2" wide. Casing is installed with minimum #4 finish nails spaced maximum 4" from each end and 16" on center and staggered.

ECOUSTICS

Acoustical Architectural Plywood



Plywood that looks beautiful and creates an environment that sounds great too. Eggers' acoustical plywood helps to reduce reverberation and noise pollution overall. Functionality and high-quality performance are matched with the beauty of an Eggers' plywood product.

SOUNDWOOD ACOUSTICAL PLYWOOD PANELS

Acoustical Performance Testing Methods

The Soundwood Ecoustics line of architectural plywood is tested differently from our acoustical door line. Two different values are captured:

- NRC–Noise Reduction Coefficient: a measure of how effective a material is at absorbing sound.
- SAA–Sound Absorption Average: the amount of sound absorbed by a surface finish.

There are two common mounting methods for plywood paneling, known as “A” mounting and “E” mounting. The “A” mounting is used to test wall panels. The “E” mounting is used to test ceiling panels and is typically given a three digit suffix, e.g. “E-400.” This represents the depth (in millimeters) of the sealed airspace behind the acoustical material tested. The “E” mounting method is typically used for acoustical ceiling tiles.

The ASTM C423 test standard is the standard test method for sound absorption and sound absorption coefficients by the reverberation room method.

All building materials have some acoustical properties that they will absorb, reflect, or transmit sound striking them. Conventionally speaking, acoustical materials are those materials designed and used for the purpose of absorbing sound that might otherwise be reflected. Sound absorption is defined as the incident sound that strikes a material and is not reflected back.

For the vast majority of conventional acoustical materials, the material thickness has the greatest impact on the material’s sound absorbing qualities. While the inherent composition of the acoustical material determines the material’s acoustical performance, other factors can improve or influence the acoustical performance. Incorporating an air space behind an acoustical ceiling or wall panel often serves to improve low frequency performance.





Installation Instructions

The manufacturers of the gasketing, door bottom, thresholds will generally provide a set of installation instructions with their components. In addition, Eggers has developed a set of installation instructions for each of the gasketing systems indicated in the product offering chart. This information is meant to augment those instructions.

Perimeter gasketing is intended to form a seal between the door leaf and the frame. Most of the systems used with Eggers doors include a double row of frame applied seals to accomplish this. If necessary due to installation clearances the seals allow a limited amount of re-positioning to assure adequate contact with the closed door.

Where used, raised thresholds should be adjusted and secured based on the position of the closed door. The threshold seal should make uniform contact with the door surface. Avoid excessive force between the door and threshold as this can hold the door away from the frame seals.

Auto door bottoms should be properly sized to the door width. Avoid undersizing them as this will prevent a good seal and allow sound to “leak” past.

There are several glazing options within Eggers approvals. Eggers recommends factory glazing of acoustic doors, where our controlled environment and installers familiar with the process can ensure proper sealing.

Where doors are to be field glazed, a good seal must be made between all of the components, regardless of the glazing system used. The best way to do this is with a small bead of 100% pure silicone. The seal does not have to be thick, but it must be continuous.

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Architectural Veneer Faces, Custom Wood Products, Plywood

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CERTIFIED QUALITY WOODWORK

STOCK PANELS

Eggers Industries, Plywood Division, meets your needs for quality stock panels in ***as fast as five working days*** from receipt of order to ship.

Eggers Industries



	STOCK PANELS	
Standard Veneer Species Other species available with increased lead time.	Caramel Bamboo Natural Bamboo PS White Ash QD White Ash PS European Steamed Beech PS Cherry QD Cherry PS Eucalyptus QD Eucalyptus VG Douglas Fir PS Mahogany QD Mahogany PS Makore QD Makore	PS White Maple QD White Maple PS Southern Yellow Pine PS Red Oak QD Red Oak Rift Red Oak PS Teak QD Teak PS White Oak QD White Oak Rift White Oak PS Walnut QD Walnut
Shipment	***Five business days for unfinished and oversized***	
Construction	Eggers standard three-ply construction. Particleboard, fire retardant particleboard, no added urea-formaldehyde particleboard, FSC® certified particleboard, MDF, and FSC certified MDF. Other cores available upon request.	
Nominal Panel Thickness	1/2", 3/4". Other sizes available upon request.	
Quantity	No minimum. Quantities greater than 100 may increase lead times.	
Dimensions	4' x 8', 5' x 8', 4' x 10', 5' x 10' All panels are oversized. Cut-to-size are available upon request with added lead time.	
Questions	Confirm purchase order with your Account Manager Submitting purchase orders without complete product details could extend ship dates.	
Revision to Order	Revisions to orders may result in extending ship date and project cost.	
Price	Contact your Eggers representative for pricing.	
Constructions	LEED® contributing constructions available.	

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CERTIFIED ARCHITECTURAL WOODWORK INSTITUTE QUALITY WOODWORK

R02.17

VENEER-WRAPPED COMPONENTS

Eggers Industries

Eggers' custom veneer-wrapped components provide the perfect touch for any project. Whether veneer wrapping unsightly metal edges with the rich elegance of wood, or substituting veneer wrapped substrates for expensive lumber, veneer wrapped components create a masterpiece that is both economically and environmentally savvy. Utilizing only no added urea formaldehyde glues and offering FSC® certified veneers and substrates, virtually every aspect of Eggers' veneer wrapped components can help green your facility.



Turning nature's beauty into works of art

	VENEER-WRAPPED COMPONENTS
Wrapping	Ability to hand-wrap or machine wrap
Finishes	Custom finishes available
Veneers	Paper, fleece, or flex backed veneers. Most woods available - even Bamboo.
Shapes & Substrates	MDF, No UF MDF, FSC® certified MDF, and Finger-Jointed Poplar. Customer supplied plastic, aluminum, steel and others.
Shapes	Available in virtually any shape or profile.
Dimensions	Lengths up to 15', special sizes may be available per request.
Order Details	Confirm purchase order with your Account Manager.
Revision to Order	Revisions to order may result in extending the acknowledged ship date.
Finish Approval	**Required 5 days prior to scheduled ship date.**
Pricing & Questions	Contact your Eggers representative with questions and requests for pricing.
Yield	All substrates realize a 100% yield
Environmental Capabilities	LEED® contributing constructions available. All veneer-wrapped components utilize no-added UF glues and water-based stains that contain low Volatile Organic Compounds (VOC). Ask your Eggers' representative about no-added UF substrates, FSC certified substrates, and FSC certified veneers.

LEED® Contributing Constructions	MR 4: Recycled Content**	MR 6: Rapidly Renewable Materials	MR 7: Certified Wood**	EQ 4.4: Composite Wood, Agrifiber and Adhesives Contain No Added Urea-Formaldehyde***	Total Point Contributions with Eggers' Panels
MDF	2				**2**
No UF MDF	2			1	**3**
FSC/No UF MDF	2		1	1	**4**

**Per USGBC guidelines, the value of any content that contributes to MR #4 cannot also be attributed to the MR #7.0 calculation.
*** The product construction is only urea-formaldehyde free if it is ordered as urea-formaldehyde free. The core is urea-formaldehyde free, but the doors need to be constructed urea-formaldehyde free to contribute to this credit.

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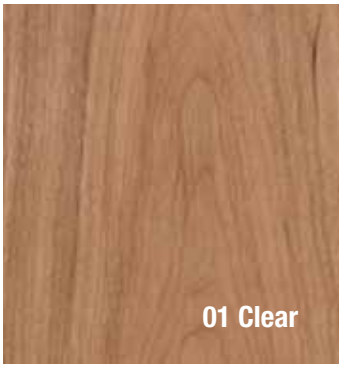
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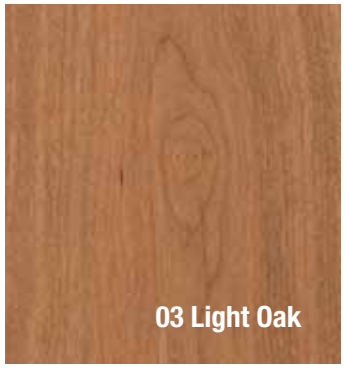
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STANDARD FINISH SELECTOR GUIDE

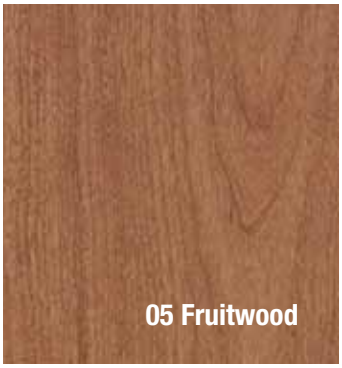
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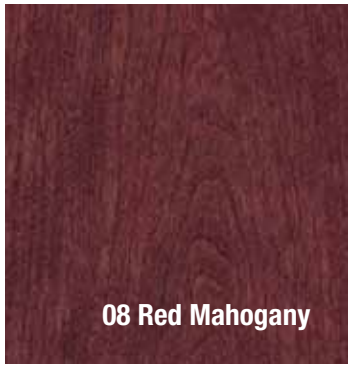












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for cherry doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



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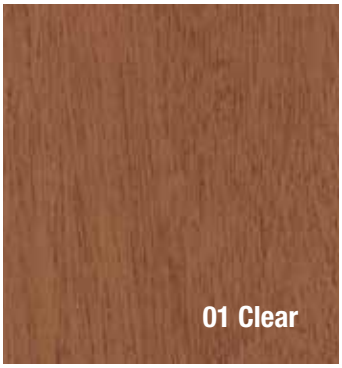
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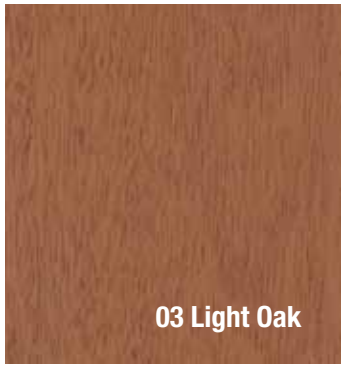
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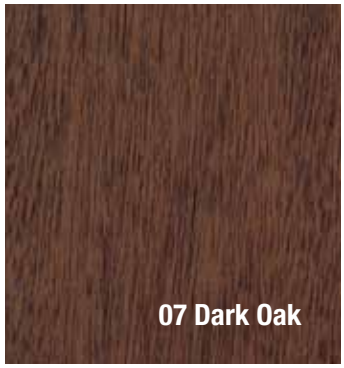


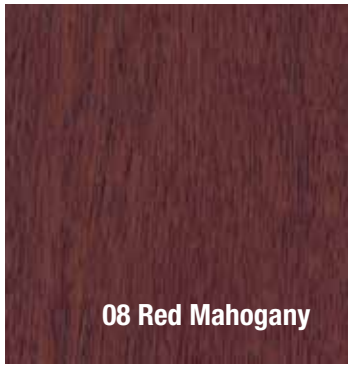












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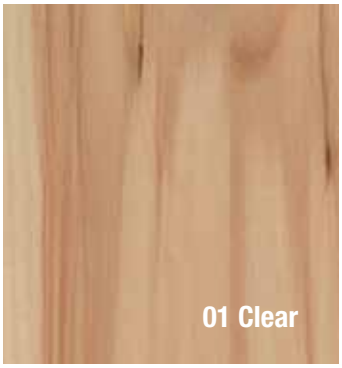
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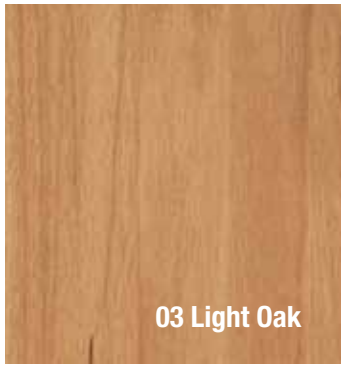
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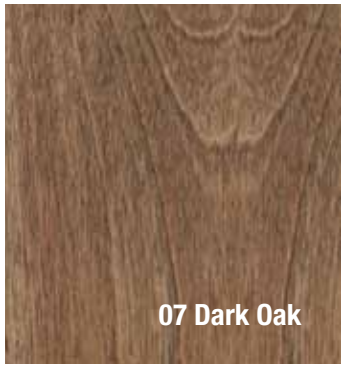


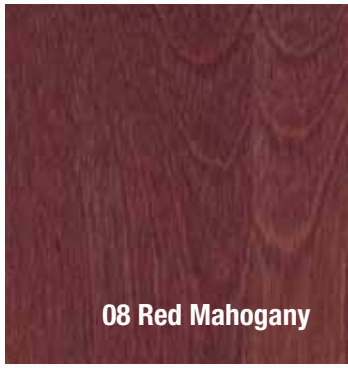












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for natural birch doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



Eggers Industries

Stile & Rail Doors, Door Frames, Plywood

Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958
www.eggersindustries.com

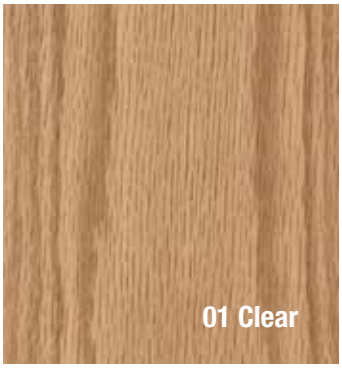
Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357
email: sales@eggersindustries.com

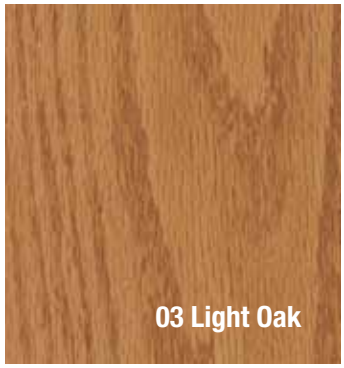
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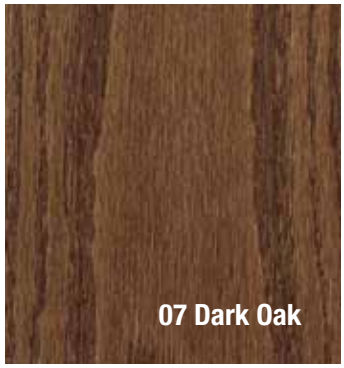


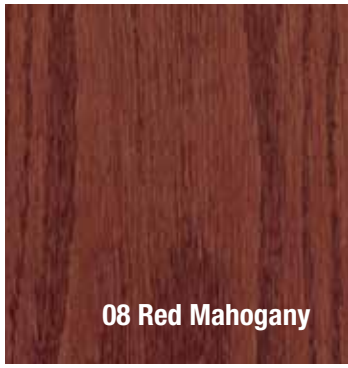












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for red oak doors that are unfinished, finished clear, or finished with stains.

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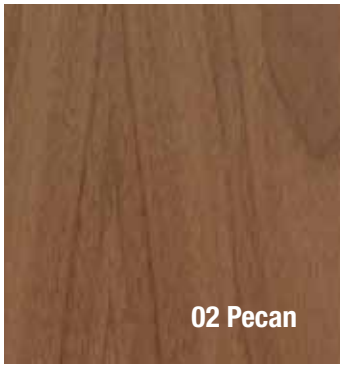
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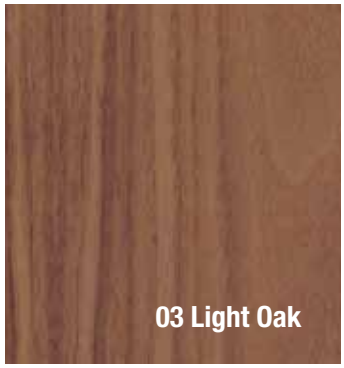
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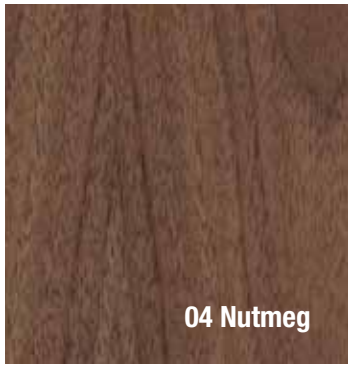
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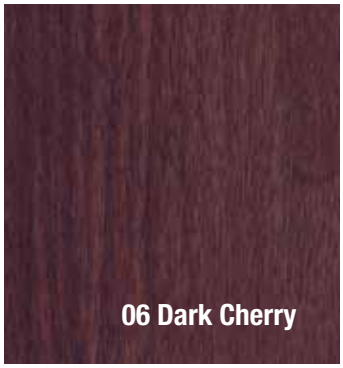


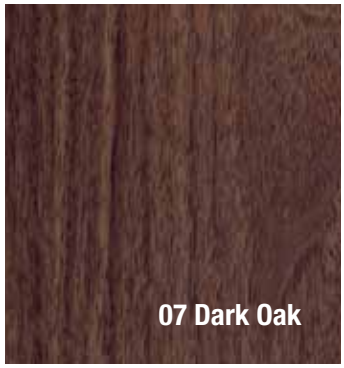














Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for walnut doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



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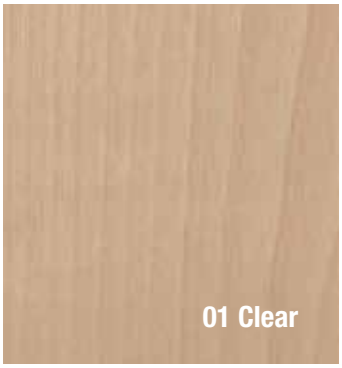
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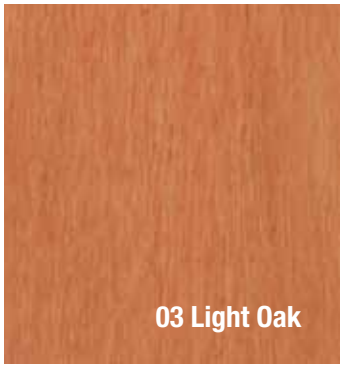
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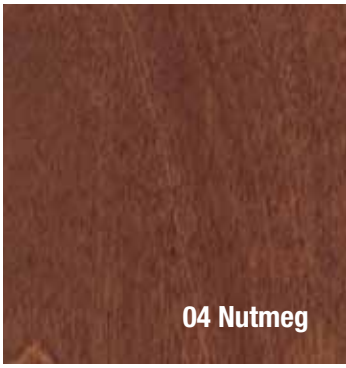
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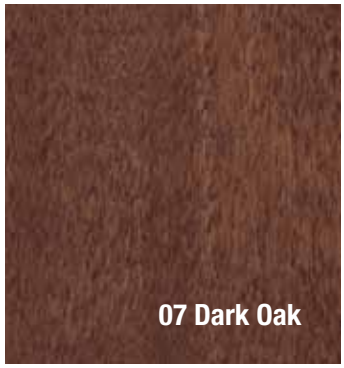














Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for white birch doors that are unfinished, finished clear, or finished with stains.

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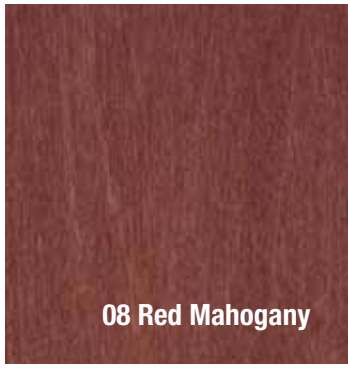












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for white maple doors that are unfinished, finished clear, or finished with stains.

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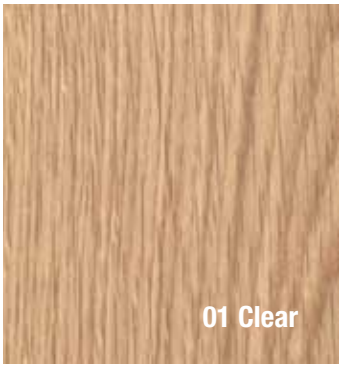
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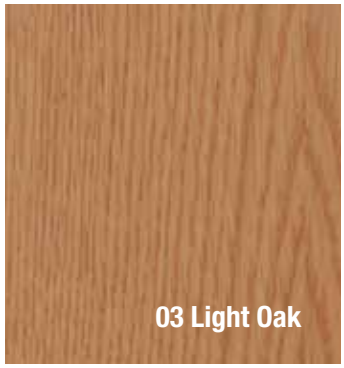
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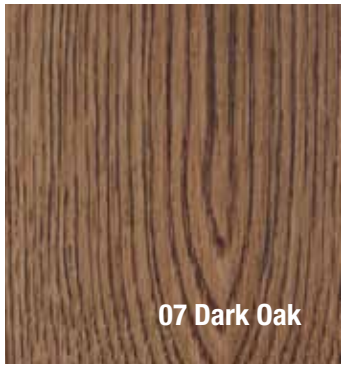


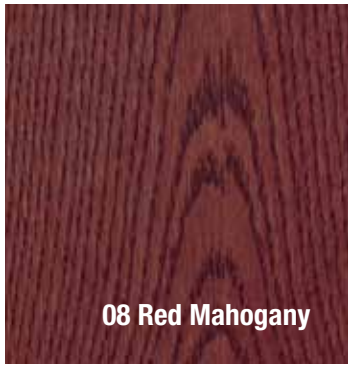












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for white oak doors that are unfinished, finished clear, or finished with stains.

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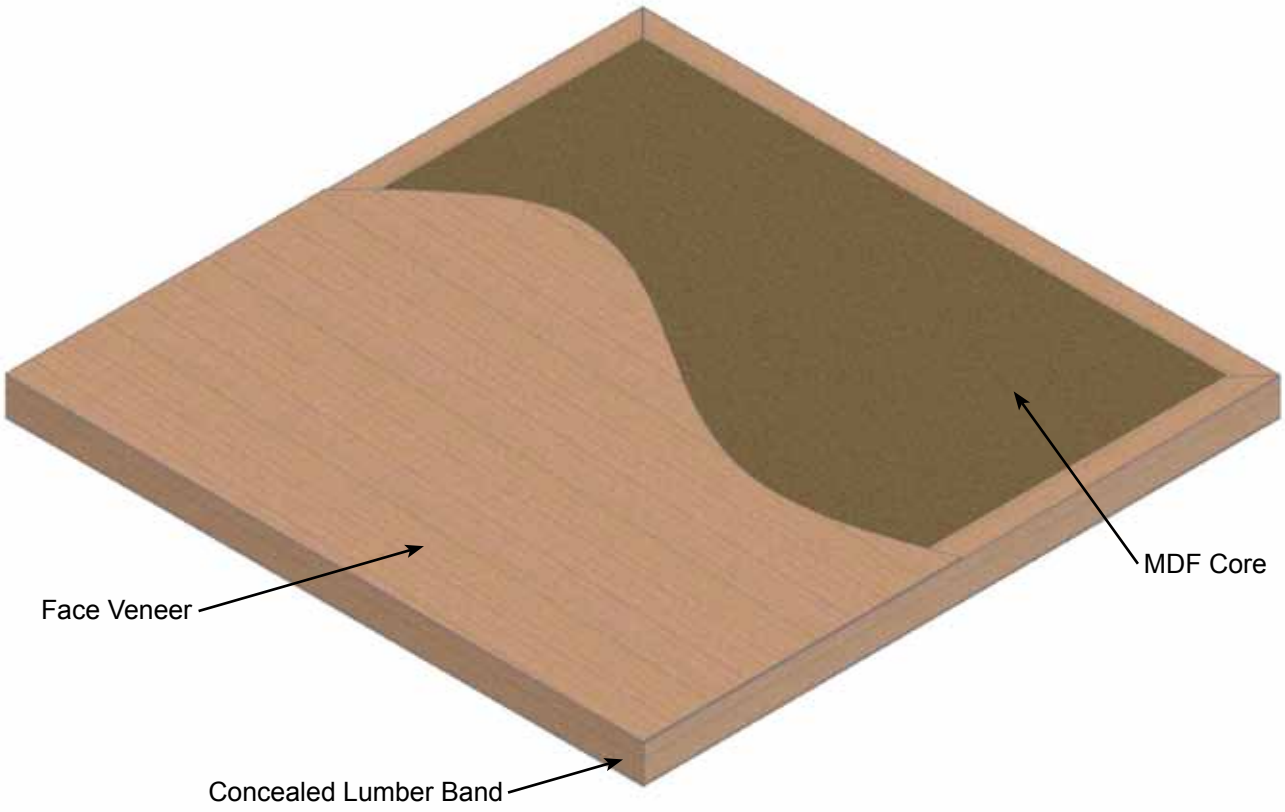
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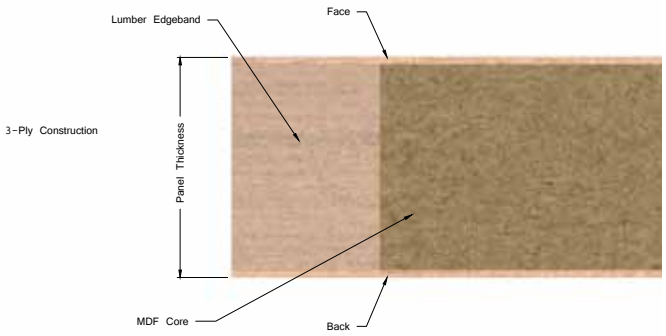
3PLY MDF PLYWOOD WITH CONCEALED LUMBER BAND

Construction Details 300

Date: October, 2012

Eggers Industries





Eggers Industries
www.eggersindustries.com
email: sales@eggersindustries.com

Stile & Rail Doors,
Door Frames, Plywood,
Veneered Components

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Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces,
Custom Wood Products,
Plywood

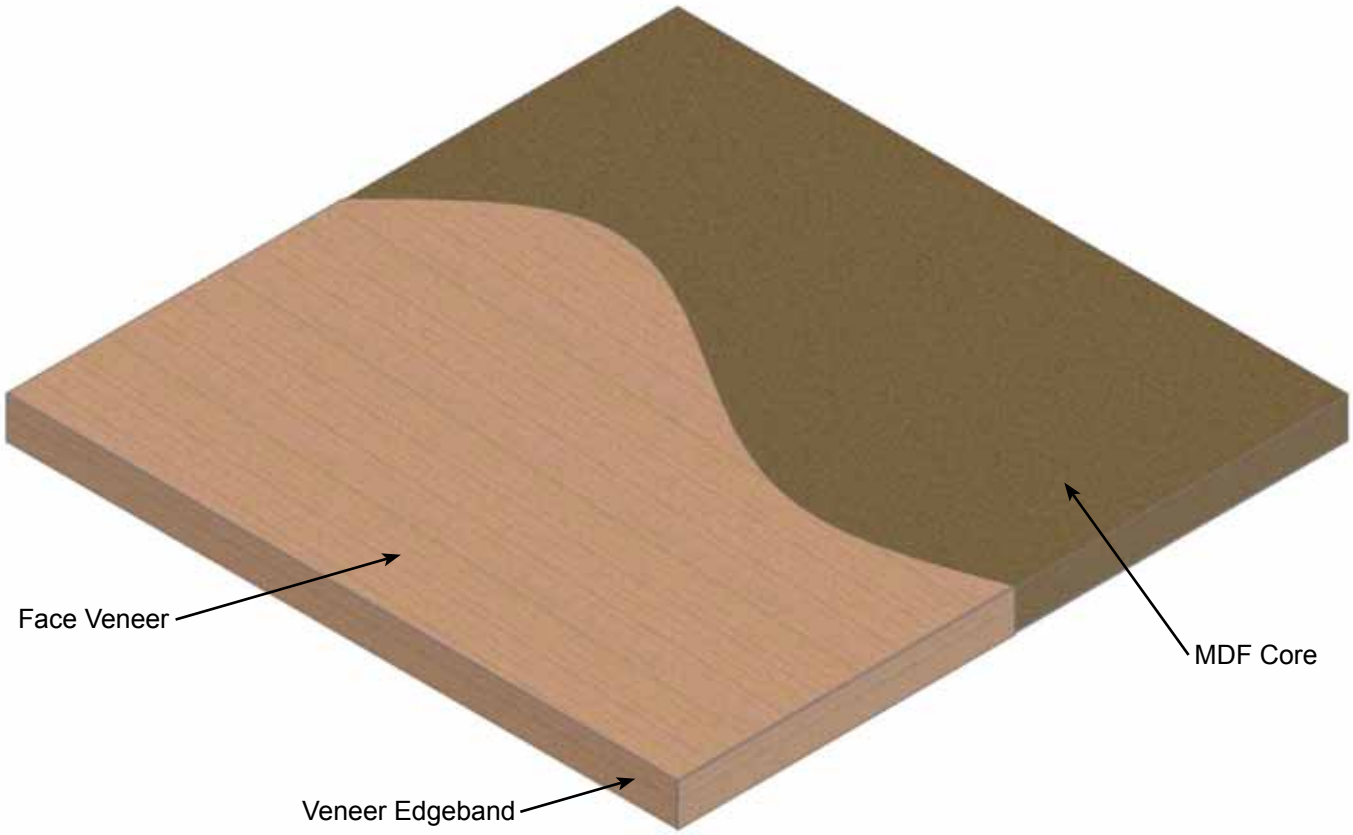
Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.849.0444

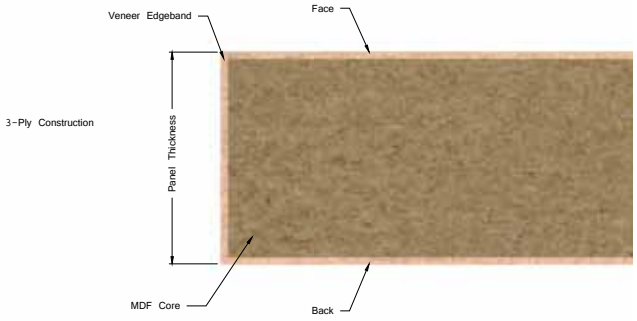
3PLY MDF PLYWOOD WITH VENEER BAND

Construction Details 301

Date: October, 2012

Eggers Industries





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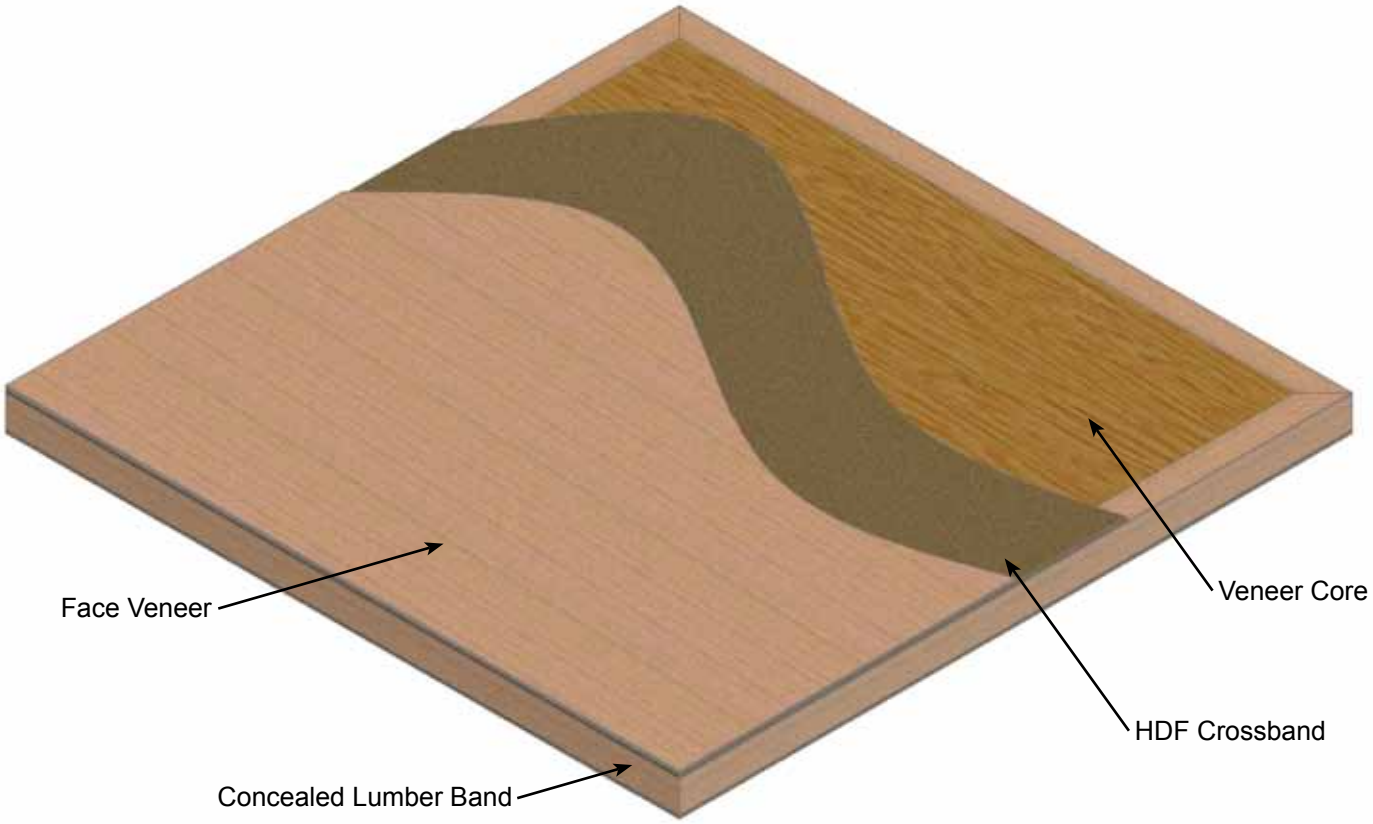
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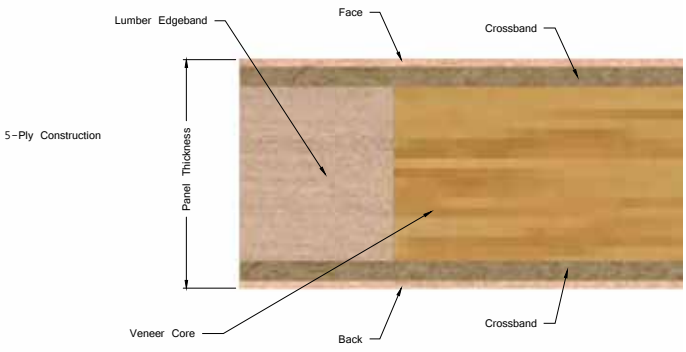
5PLY VENEER CORE PLYWOOD WITH CONCEALED LUMBER BAND

Construction Details 302

Date: October, 2012

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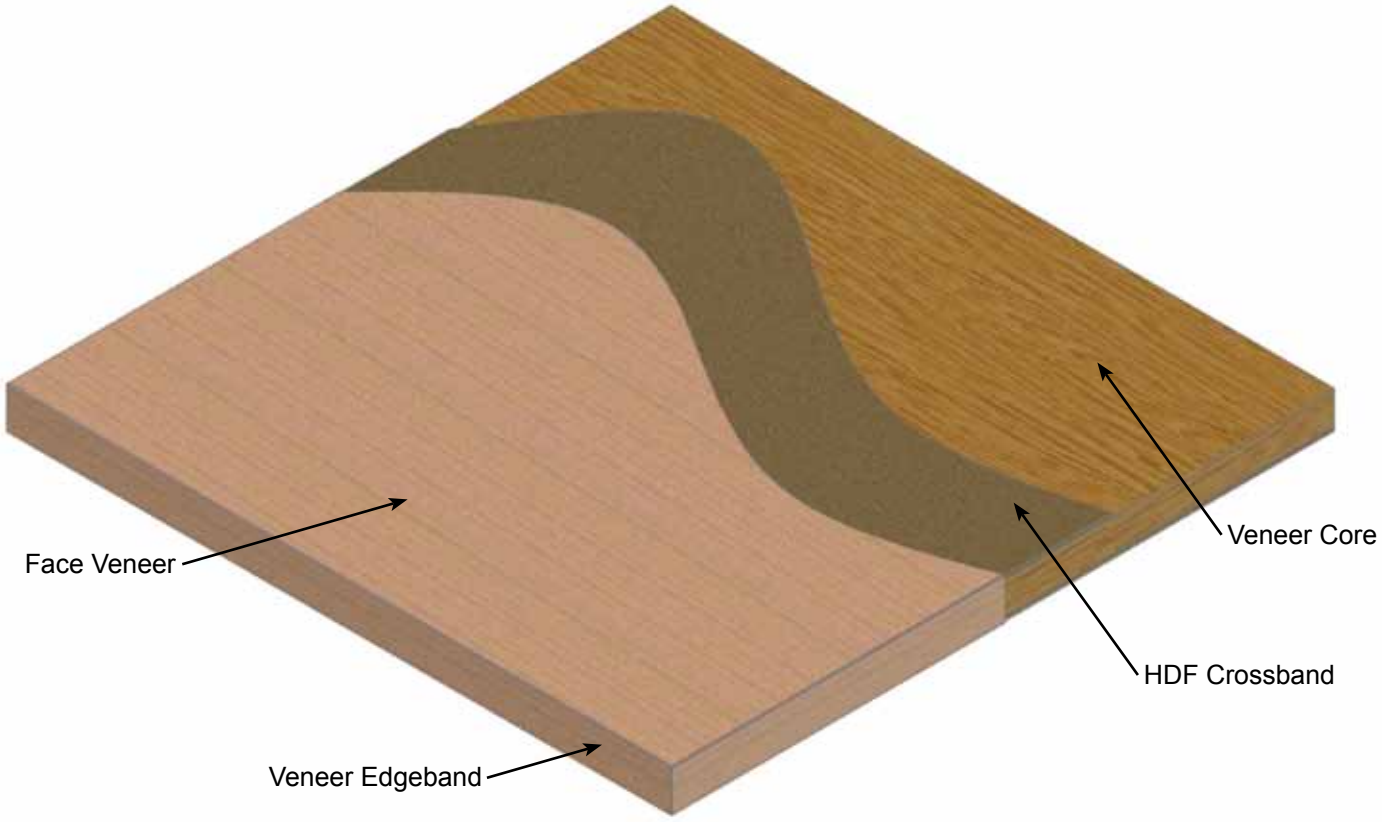
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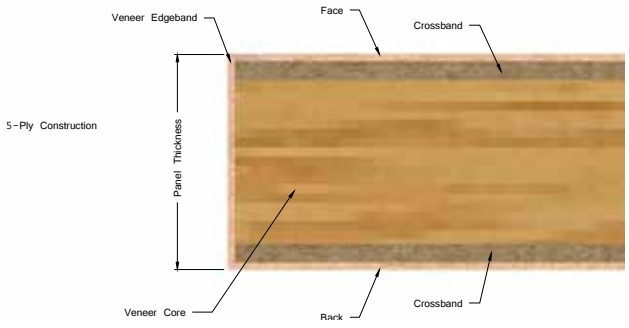
5PLY VENEER CORE PLYWOOD WITH VENEER BAND

Construction Details 303

Date: October, 2012

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Barber Pole
Information Bulletin

No. 280-01-08

Eggers Industries

"Barber Pole" is a noticeable color variation between the individual flitches in book matched veneer. This variation may be objectionable to the end-user, even though the doors meet prevailing AWI and WDMA specifications. **"Barber Pole" is not considered a manufacturing defect and therefore claims related to its appearance will not be honored.**

The pictures below illustrate the typical appearance of "Barber Pole" in book matched door faces.



Plain Sliced Red Oak Book Matched



Plain Sliced White Maple Book Matched

This characteristic may occur in most species and in any cuts of book matched veneer. However, it is most prominent in Rift and Quarter Cut veneer. It is unpredictable in its frequency and severity of occurrence.

Specifying slip match rather than book match may minimize this condition. However, slip matching will slightly alter the grain appearance of the door face, as illustrated below.



Plain Sliced Red Oak Book Matched



Plain Sliced Red Oak Slip Matched

Slip match slightly increases the cost of a door and must be specified prior to order entry at the factory.

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Eggers Finishing Systems

Information Bulletin 454

Date: May, 2015

Eggers Industries

Eggers provides the widest selection of finishing systems in the industry. Our wide range of finish systems are anchored by Gardall, consisting of water based stains and 100% solid clear coats which contain no VOC's. Gardall is an environmentally friendly finish system.

Eggers' Gardall finish system meets or exceeds the performance standards set by WDMA and AWS for UV-cured finish systems. Eggers' broad selection of finishing systems provides a cost effective alternative to field finishing. With factory finishing, you can expect superior color consistency and uniformity.

Neenah Division Finishing Process:
Our Neenah division utilizes a precision roll coating finishing process that results in six coats of finish with a final dry coating thickness of 1.5 mils. Multiple thin coats of material offer a high-quality smooth appearance with the durability that is essential in the commercial door industry.

Two Rivers Division Finishing Process:
Our Two Rivers Division utilizes a top-of-the-line spray finishing system with automatic spray guns all in an enclosed chamber. Eggers has implemented strict manufacturing procedures and processes to address and avoid the common finishing issues and we take great pride in the superior quality our finishing system provides.

OTHER SYSTEMS AVAILABLE

Gardall Plus
This is the same Gardall finish system but it has additional sealer and/or topcoats applied. This is used for specifications that call out filled effect finish or semi-filled. Ask for clarification whenever filled effect is listed in a specification.

Opaque Finish
Our opaque finish is offered as an AWS system 5 for opaque finishes and we can match any color. This finish is often referred to as a “painted finish”. AWI does not recognize “paint” as a finish system, only opaque varnishes, as “paint” is too generic of a term to be used as a designated architectural grade finish.

Ebonized Finish
This finish blackens the veneer and is done in one of two methods depending upon the look that is desired. We will either utilize stain or diluted opaque varnishes to obtain the desired color.

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Eggers Finishing Systems
Information Bulletin 454

Date: May, 2015

Eggers Industries

Whitewash Finish
A white stain is used to achieve this specialty look.

Toned / NGR Finishes
These systems are available by special request. These non-wiping stain application (NGR) finishes have the colorants incorporated into the transparent finish coats.

Exterior Finish
Exterior finish is different than any other finish system we offer. All exterior doors are finished with an exterior grade spar urethane, a water and UV resistant finish. This is a specially formulated finish designed to withstand extreme environmental conditions, the finish expands and contracts with wood as the humidity and temperature change.

These are not permanent finishes and will require yearly maintenance to preserve the integrity of the finish. Our exterior finish includes the preservative treatment which is a fungicide and mildew-resistant treatment that is sprayed on the doors prior to stain and topcoats. It contains water repellants to aid in control of checking and grain raising.

Due to the preservative treatment and the general characteristics of spar varnish, the overall appearance of an exterior finish is different than our interior finishes. Sample approval for both interior and exterior finishes will be required for all projects.

Factory Finish Specifications
Section 08200, Part II, Prefinish:
Doors to be factory finished to meet or exceed WDMA I.S. 1A-13 specifications for a TR-8 UV-cured finish system or AWI Section 5 specifications for a UV curable polyester urethane finish system.

Specify Eggers' Gardall – a water-based stain and UV curable polyester urethane finish system which complies with all applicable Federal and State regulations for Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAP) emission limitations per the EPA Clean Air Act.

Eggers Industries
www.eggersindustries.com
sales@eggersindustries.com

Stile and Rail Doors, Door Frames, Plywood Veneered Components

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Fax: 920.793.2958

Flush Doors

Neenah Division
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Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces, Custom Wood Products, Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.849.0444

Eggers Finishing Systems
Information Bulletin 454

Date: May, 2015

Eggers Industries

Additional Specification Information:
Industry standards allow doors with a full range of color and grain that exist naturally in species. Veneer color and characteristic may vary between species, within the same specie, and potentially within a flitch. Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly or match uniformly in color or grain must be specified at the time of quotation.

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CONFERENCE TOPS AND VENEERED COMPONENTS

Eggers Industries

Eggers' conference tops, components and store fixtures are custom fabricated from a wide selection of hardwood face veneers to meet the specifications and aesthetic characteristics of even the most discerning architects and designers.



Turning nature's beauty into works of art

CONFERENCE TOPS AND VENEERED COMPONENTS

From corporate conference tops to retail displays, reception desks to bookcases – Eggers' finely crafted tops, components and fixtures lend just the right character and dignity to any room.

We assemble our own hardwood veneer faces, giving you full control of the aesthetic quality of your project. Tabletop cores can be manufactured in particleboard or MDF and finished with your choice of exceptional hardwood veneers, ranging from the common to the very exotic.

Eggers' custom veneered components are the perfect finishing touch to any project. Whether utilizing the rich elegance of wood to enhance the look of standard metal components or as a substitute for expensive lumber, veneered furniture components create a masterpiece that is both economically and environmentally savvy. Utilizing only no-added urea formaldehyde glues and offering FSC® certified veneers and substrates, virtually every aspect of Eggers' veneered components can help green your facility.

Office Components

Our custom, hand-crafted products include cased goods and library furniture components, desk components, frames, paneling and doors.

Trim, Rails, Mouldings and Substrates

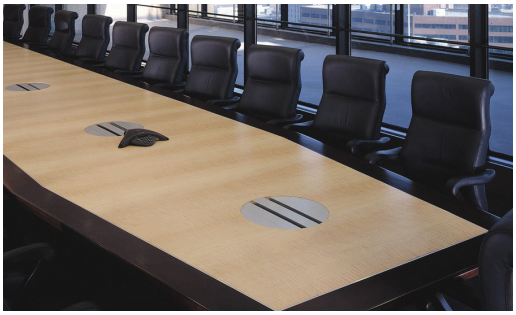
Eggers' hardwood veneer wrapping gives trim, rails, moulding and substrates an elegant look that complements each element of a room - and the overall aesthetic statement the room makes. Components are veneer-wrapped with the finest hardwood veneers and then assembled in-house for optimum customization and quality.



MATCHING FACES AND DESIGN OPTIONS

Our in-house assembly provides extensive customization possibilities. Special matches include diamond match, reverse diamond match, sunburst match and box match. Eggers' custom components provide a wonderful opportunity for detailed inlays and multi-specie assemblies.











Edge Banding

- Banded with lumber or veneer in matching species to face, or any species of your choice.
- Lumber bands may be concealed or exposed.
- Veneer banding is applied after laminating and may be from the same flitch as the face for greater similarity of color and grain.

Edge Machining

The edge of the components can be grooved, splined, rabbeted, mitered or shaped to many profiles.

Finishes

Eggers' wide range of finish options is anchored by a Gardall UV-cured finish, an environmentally friendly system that meets AWS standards for curable finishes. The Gardall finishing system consists of water-based stains and 100 percent solid clear coats that are free of Volatile Organic Compounds (VOC).

Adhesives

- Type I and Type II glues are standard.
- No added urea-formaldehyde available.

Industry Standards

- AWS Section 4, Edition 2.
  Eggers is an AWI QCP Certified Manufacturer.
- ANSI/HPVA HP-1-2009.

Inlays and Multi-Specie Assembly

Eggers' custom components provide a wonderful opportunity for detailed inlays and multi-specie assemblies. We create every veneer face for our products. Our combination of hand-craftsmanship and laser capabilities provide extensive design opportunities for your projects.

	ENGINEERING SPECIFICATIONS		CORE
Characteristics	**Veneer**	**Particleboard**	**MDF**
Thickness in Inches	1/16” to 1-1/4”	7/16” to 1-1/2”	1/4” to 1-1/2”
Class I Fire Label on Panel	No	Yes	No
Urea-Formaldehyde Free	Yes	Yes	Yes
FSC Certified Product	No	Yes	Yes
Relative Flatness & Stability	Low	High	High
Screw Holding on Face	Best	Good	Better
Screw Holding on Edge	Good	Good	Better
Ease of Edge Machining	Good	Good	Best
Appearance of Edge	Good	Good	Better
Relative Weight	Light	Heavy	Heavy
Core Voids when Cut	Slight	No	No
Strength-to-Weight Ratio	High	Low	Low

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The FSC certification ensures responsible use of forest products. 302-03-15
Look for FSC certified products.

FSC www.fsc.org FSC® C019991 The mark of responsible forestry

RAINFOREST ALLIANCE CERTIFIED

CERTIFIED ARCHITECTURAL WOODWORK INSTITUTE QUALITY WOODWORK

CERTIFIED INDOOR AIR QUALITY SCS GLOBAL SERVICES INDOOR ADVANTAGE GOLD BUILDING MATERIALS

Eggers Industries

VENEER-WRAPPED COMPONENTS

Eggers' custom veneer-wrapped components provide the perfect touch for any project. Whether veneer wrapping unsightly metal edges with the rich elegance of wood, or substituting veneer wrapped substrates for expensive lumber, veneer wrapped components create a masterpiece that is both economically and environmentally savvy. Utilizing only no added urea formaldehyde glues and offering FSC certified veneers and substrates, virtually every aspect of Eggers' veneer wrapped components can help green your facility.



Turning nature's beauty into works of art

VENEER-WRAPPED COMPONENTS

Wrapping	Ability to hand-wrap or machine-wrap
Finishes	Custom finishes available
Veneers	Paper, fleece, or flex backed veneers. Most woods available – even Bamboo
Shapes & Substrates	MDF, No UF MDF, FSC MDF, and Finger-Jointed Poplar. Customer supplied plastic, aluminum, steel, and others
Shapes	Available in virtually any shape or profile
Dimensions	Lengths up to 15', special sizes may be available per request
Order Details	Confirm purchase order with your Account Manager Submitting purchase order without complete product details may extend the ship date
Revision to Order	Revisions to order may result in extending the acknowledged ship date
Finish Approval	**Required 5 days prior to scheduled ship date**
Pricing & Questions	Contact your Eggers representative with questions and requests for pricing
Yield	All substrates realize a 100% yield
Environmental Capabilities	LEED® contributing constructions available. All veneer wrapped components utilize no-added UF glues and water-based stains that contain low Volatile Organic Compounds (VOC). Ask your Eggers' representative about no-added UF substrates, FSC certified substrates, and FSC certified veneers.

LEED Contributing Constructions	MR 4: Recycled Content[3]	MR 6: Rapidly Renewable Materials	MR 7: Certified Wood[3]	EQ 4.4: Composite Wood, Agrifiber and Adhesives Contain No Added Urea-Formaldehyde [2]	Total Point Contributions with Eggers' Panels
MDF	2			1	**3**
No UF MDF	2			1	**3**
FSC/No UF MDF	2		1	1	**4**
No UF Finger-Jointed Poplar				1	**1**

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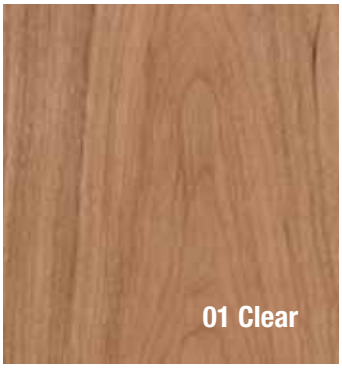
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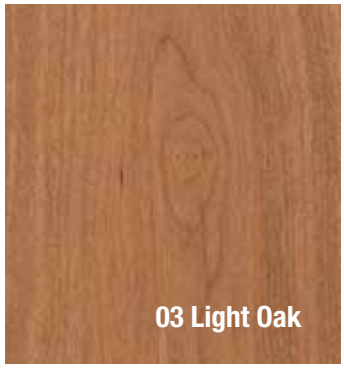
The FSC certification ensures responsible use of forest products.
© 1996 Forest Stewardship Council A. C. SW-COC-000729 307-08-10
Ask us for FSC certified products

STANDARD FINISH SELECTOR GUIDE

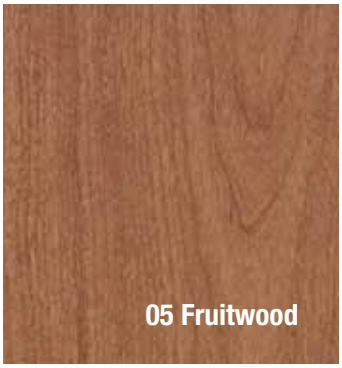
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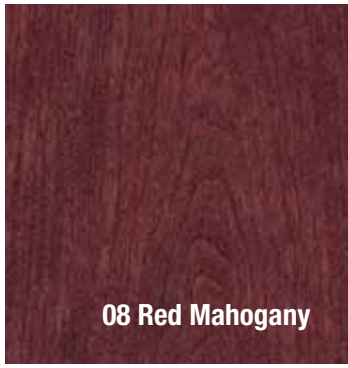












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for cherry doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



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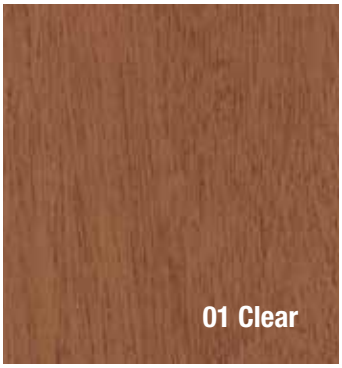
Flush Doors

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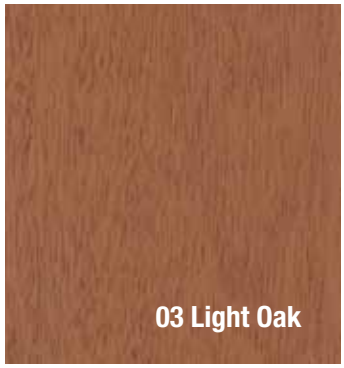
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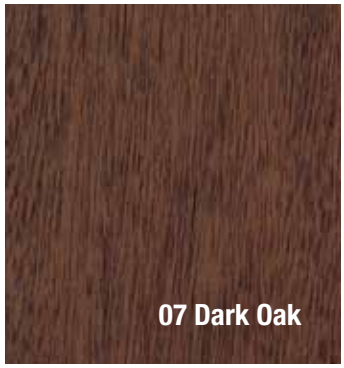


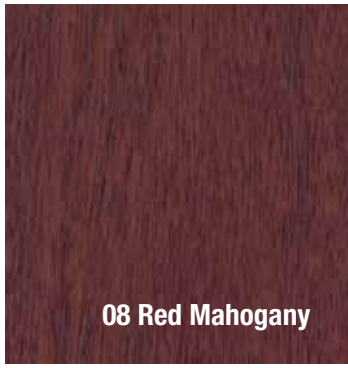












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for mahogany doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



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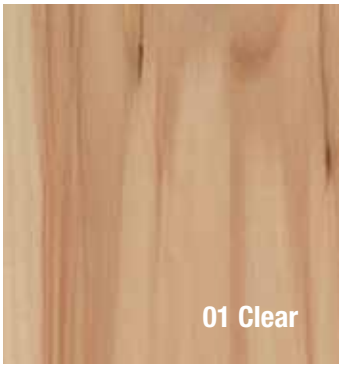
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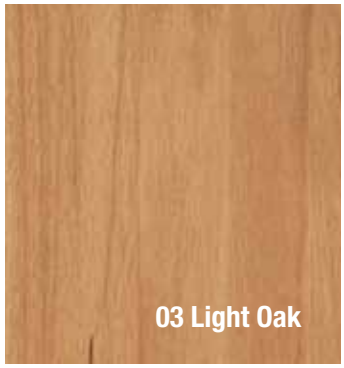
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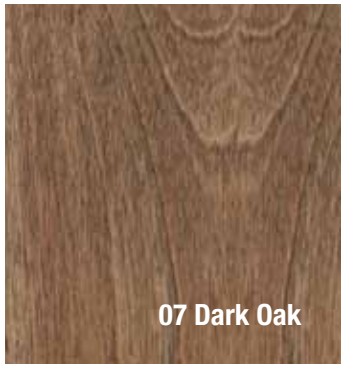


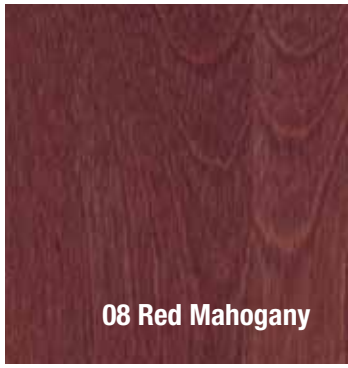












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for natural birch doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



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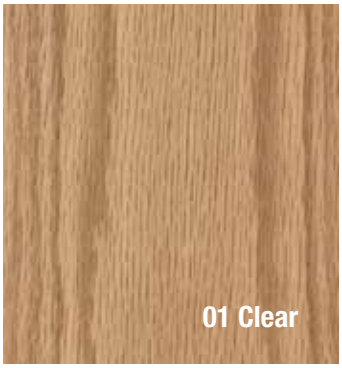
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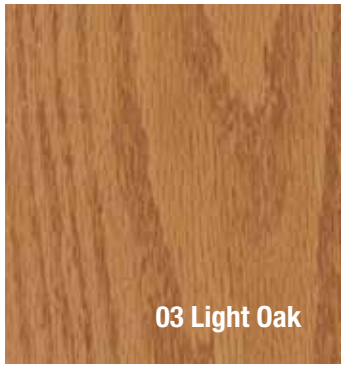
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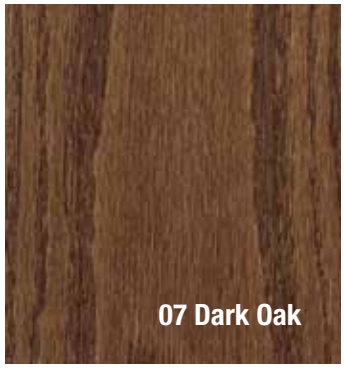


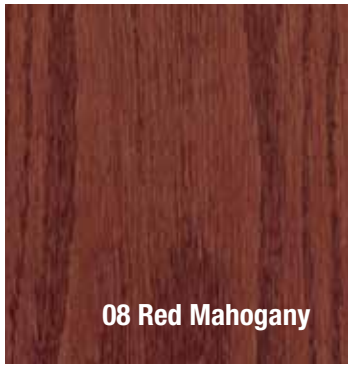












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for red oak doors that are unfinished, finished clear, or finished with stains.

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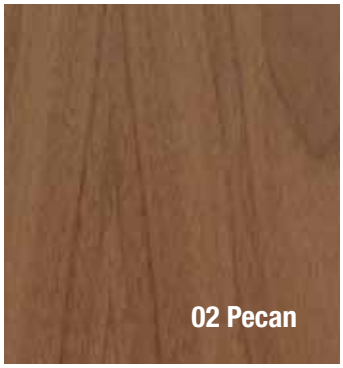
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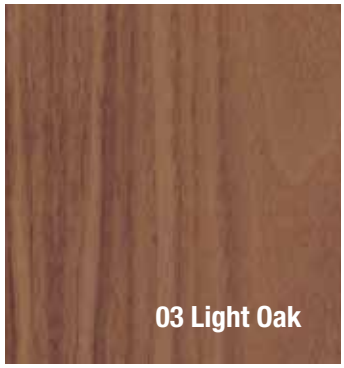
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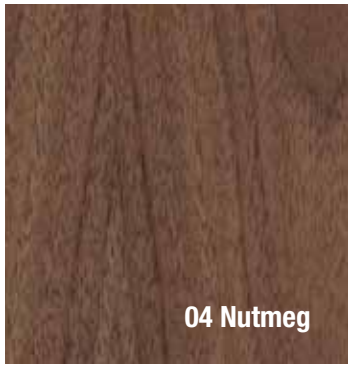
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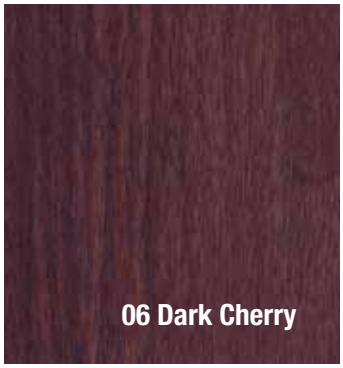


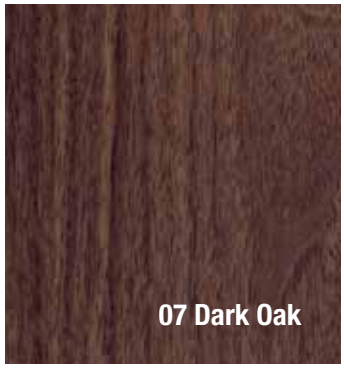














Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for walnut doors that are unfinished, finished clear, or finished with stains.

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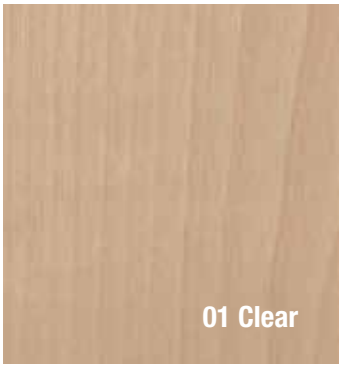
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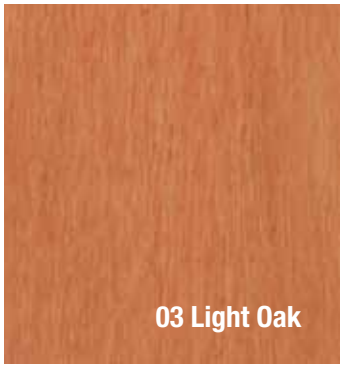
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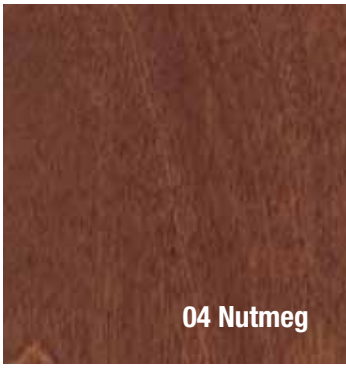
STANDARD FINISH SELECTOR GUIDE

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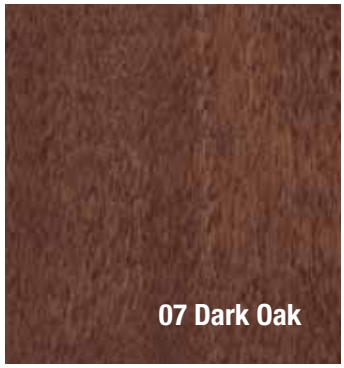














Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for white birch doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



Eggers Industries

Stile & Rail Doors,
Door Frames, Plywood

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One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958
www.eggersindustries.com

Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357
email: sales@eggersindustries.com

Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supercede those in print. 715-05-12

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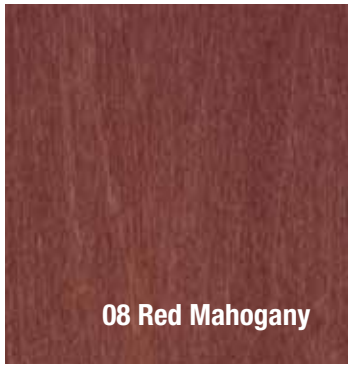












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for white maple doors that are unfinished, finished clear, or finished with stains.

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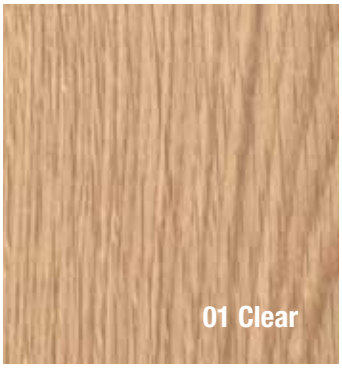
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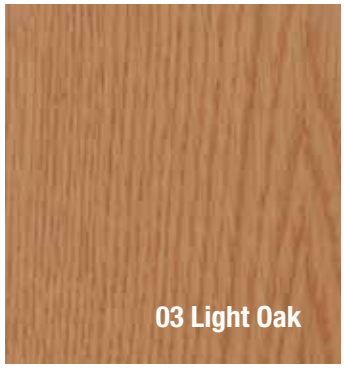
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STANDARD FINISH SELECTOR GUIDE

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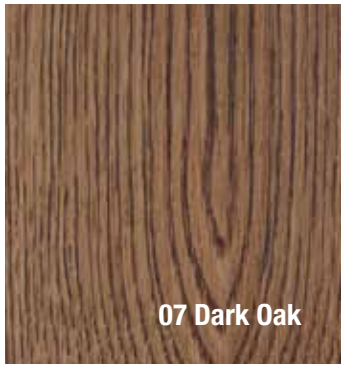


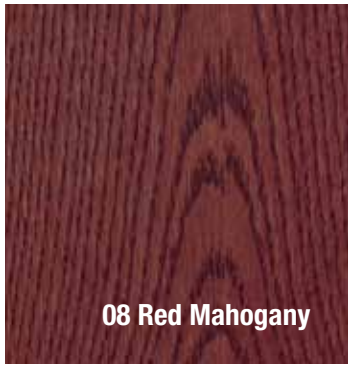












Color and Grain Variation Industry standards allow doors with a full range of color and grain that exists naturally in species. This shows a typical range of colors that meet industry standards for white oak doors that are unfinished, finished clear, or finished with stains.

Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly, or match color and/or grain must be specified at the time of quotation.



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Eggers Finishing Systems

Information Bulletin 454

Date: May, 2015

Eggers Industries

Eggers provides the widest selection of finishing systems in the industry. Our wide range of finish systems are anchored by Gardall, consisting of water based stains and 100% solid clear coats which contain no VOC's. Gardall is an environmentally friendly finish system.

Eggers' Gardall finish system meets or exceeds the performance standards set by WDMA and AWS for UV-cured finish systems. Eggers' broad selection of finishing systems provides a cost effective alternative to field finishing. With factory finishing, you can expect superior color consistency and uniformity.

Neenah Division Finishing Process:
Our Neenah division utilizes a precision roll coating finishing process that results in six coats of finish with a final dry coating thickness of 1.5 mils. Multiple thin coats of material offer a high-quality smooth appearance with the durability that is essential in the commercial door industry.

Two Rivers Division Finishing Process:
Our Two Rivers Division utilizes a top-of-the-line spray finishing system with automatic spray guns all in an enclosed chamber. Eggers has implemented strict manufacturing procedures and processes to address and avoid the common finishing issues and we take great pride in the superior quality our finishing system provides.

OTHER SYSTEMS AVAILABLE

Gardall Plus
This is the same Gardall finish system but it has additional sealer and/or topcoats applied. This is used for specifications that call out filled effect finish or semi-filled. Ask for clarification whenever filled effect is listed in a specification.

Opaque Finish
Our opaque finish is offered as an AWS system 5 for opaque finishes and we can match any color. This finish is often referred to as a “painted finish”. AWI does not recognize “paint” as a finish system, only opaque varnishes, as “paint” is too generic of a term to be used as a designated architectural grade finish.

Ebonized Finish
This finish blackens the veneer and is done in one of two methods depending upon the look that is desired. We will either utilize stain or diluted opaque varnishes to obtain the desired color.

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Architectural Veneer Faces, Custom Wood Products, Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.849.0444

Eggers Finishing Systems
Information Bulletin 454

Date: May, 2015

Eggers Industries

Whitewash Finish
A white stain is used to achieve this specialty look.

Toned / NGR Finishes
These systems are available by special request. These non-wiping stain application (NGR) finishes have the colorants incorporated into the transparent finish coats.

Exterior Finish
Exterior finish is different than any other finish system we offer. All exterior doors are finished with an exterior grade spar urethane, a water and UV resistant finish. This is a specially formulated finish designed to withstand extreme environmental conditions, the finish expands and contracts with wood as the humidity and temperature change.

These are not permanent finishes and will require yearly maintenance to preserve the integrity of the finish. Our exterior finish includes the preservative treatment which is a fungicide and mildew-resistant treatment that is sprayed on the doors prior to stain and topcoats. It contains water repellants to aid in control of checking and grain raising.

Due to the preservative treatment and the general characteristics of spar varnish, the overall appearance of an exterior finish is different than our interior finishes. Sample approval for both interior and exterior finishes will be required for all projects.

Factory Finish Specifications
Section 08200, Part II, Prefinish:
Doors to be factory finished to meet or exceed WDMA I.S. 1A-13 specifications for a TR-8 UV-cured finish system or AWI Section 5 specifications for a UV curable polyester urethane finish system.

Specify Eggers' Gardall – a water-based stain and UV curable polyester urethane finish system which complies with all applicable Federal and State regulations for Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAP) emission limitations per the EPA Clean Air Act.

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Additional Specification Information:
Industry standards allow doors with a full range of color and grain that exist naturally in species. Veneer color and characteristic may vary between species, within the same specie, and potentially within a flitch. Selection of veneer for a more uniform color and grain is available from Eggers. Projects requiring doors to match exactly or match uniformly in color or grain must be specified at the time of quotation.

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Puttying Nail Holes

Information Bulletin 274

Date: February, 2013

Eggers Industries

In Applied Moulding:

Eggers standard application of moulding is with adhesive only. Where nails are required per the door construction or moulding dimensions (see info bulletin #238). Nail holes will be treated as follows:

Doors Finished***** at Eggers – Nail holes will be filled to match the finish
Doors Primed at Eggers – Nail holes will be puttied but not primed
Doors shipped without finish – Nail holes will not be filled

In Beads (for Louver or Lites installed at Eggers)

Beads are secured in the opening with nails (brads). Nail holes will be treated as follows:

Doors Finished***** at Eggers – Nail holes will be filled to match the finish
Doors Primed at Eggers – Nail holes will be puttied but not primed
Doors shipped without finish – Nail holes will not be filled

***** This includes clear, stained and painted finish options

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SOUNDWOOD ACOUSTICAL PRODUCTS

Eggers Industries melds technology with style to produce beautiful, high-performing acoustical doors and frames.

Eggers Industries

Soundwood™
ACOUSTICAL WOOD PRODUCTS BY EGGERS



Turning nature's beauty into works of art



SOUNDWOOD ACOUSTICAL PRODUCTS

Eggers' sound control openings have the highest STC ratings in the industry, made of solid wood and wood composite based materials. Our capabilities allow combinations of acoustical performance and other special functionalities to meet design requirements and building codes. Eggers' STC doors and frames are found in airports, healthcare, and hospitality facilities, government and municipal buildings as well as educational institutions. Typical applications of our acoustical doors and frames include performance venues, conference rooms, lecture halls, auditoriums, and classrooms.

Our acoustical products include doors and frames that have been evaluated for sound transmission at a qualified testing laboratory using ASTM standard test method E-90-XX (where XX refers to the year). To ensure applicable data, make certain the products you are specifying reference an acceptable revision date of the test method. Products tested with old standards may not provide the same level of performance as those tested with newer versions.

Acoustical Performance Testing Methods

There are two ways to test and report the acoustical performance of doors. The first is as a fixed panel. This is done by fully sealing the door to frame perimeter and eliminating any sound leaks around the door perimeter. This type of test is helpful in determining the performance of the basic construction, but does not represent an operational application.

The second method is to test an operable assembly. In this case, the door is installed in a frame, including hinging and latching hardware as well as a gasketing system. In addition to including all of the required components of an operable assembly, the test method requires the door be operated normally through five open/close cycles, without subsequent adjustments, prior to running the acoustic test. This test method provides more useful performance values than an inoperable test. When comparing STC ratings, be sure that the ratings represent operable doors. While Eggers conducts research and development tests of many of our constructions as sealed panels, the advertised STC numbers are always for operable assemblies.

Eggers has generally limited the variables tested to the door construction, application and the gasketing system. With a few notable exceptions shown on our product matrix, we have limited our testing to readily available hardware and gasketing materials, ADA approved thresholds (where applicable), and steel frames. A special note regarding frames is appropriate here. Where steel frames are used in testing, they are normally fully grouted with cement. This is a standard method of installation at testing laboratories and is done to insure the resulting STC rating represents only the doors and gasketing system. This is not meant to restrict the openings in which acoustic doors are used. In many circumstances, existing frames or installation conditions may prevent the use of a solid filled frame. Where other types of fill are used, an acoustic consultant should be employed to determine if the alternate fill will maintain the desired acoustic performance for the opening. As long as the framing provides an acoustic performance equal or greater than the door rating, the advertised STC will be maintained.

The relevance chart below is given as a general guideline of the effect various STC ratings have on speech being heard through the door.

Advantages of Eggers Acoustic Doors

Eggers has conducted acoustic tests on all of our standard door constructions. In many cases where the acoustics properties need to be known, but are not the primary objective, gasketing a standard door construction may be all that is required. When the project design requires acoustic performance above and beyond the standard doors, Eggers has designed and tested a full line of specialty constructions. Benefits offered by this broad range of products include:

STC Rating	Speech heard through the door
30	Loud speech can be understood fairly well
35	Loud speech audible but not understandable
40	Loud speech audible as a murmur
45	Loud speech barely audible
50	Loud speech not audible

- STC ratings ranging from 38 through 52
- Applications that include single swing, standard swing pairs, doors and transoms and dutch doors
- Acoustic rating for both flush doors and stile and rail doors.
- Applications without lites, with small lites (100 sq. in.), medium sized lites (400 sq. in.), large lites (1296 sq. in.) and even full lites
- Applications with 20-minute, 45-minute, 60-minute, and 90-minute fire ratings
- Applications that provide x-ray protection as well as acoustical performance
- Applications tested in wood frames
- Applications for airport housing noise abatement programs

Specialized Constructions

A variety of components are used to provide the performance range of our acoustic products, alone or in combination with applicable fire, bullet-resistance, and X-ray protection. These components make 4' x 8' the practical maximum door dimension. Contact the technical department for applications requiring larger doors.

Guaranteed STC Ratings

The STC rating of acoustic doors depends on two things: the components used (doors and gasketing) and their installation. While Eggers does not perform installation, we are still able to guarantee our doors meet the advertised STC ratings when properly installed using the door construction, hardware, seals, and where applicable, the lites described in our STC Product Offering Matrix. This guarantee is given with confidence because of the stringent tests we conduct on all acoustic assemblies. The Eggers name alone is your assurance of the highest standards possible.

While we encourage use of these tested assemblies, we also recognize the need for substitutions such as a different type of glazing or alternate gasketing. In such cases where there is no test report for the final assembly, Eggers will provide the same door construction used for the tested assembly, but without a “guaranteed” STC rating. This allows for increased design flexibility starting with a proven door construction. We recommend the use of an acoustic consultant to review the final assembly whenever substitutions are made.

As stated above, the final performance depends heavily on the installation. The best acoustic doors will fail to meet expectations if they are improperly installed. Acoustic applications are special, they generally involve close tolerances that require square and plumb openings. The acoustic assemblies have been designed such that the seals are uniform between the door and the fixed elements of the opening. Do not expect an acoustic door to compensate for poor frame installation. It is better to fix the opening before installing the door. Likewise, insuring properly installed and adjusted gasketing will avoid remedial work. Extra time spent ensuring a good installation will pay off in superior quality sound control.

When gasketing an acoustic opening, a good analogy is to think about sealing out sound like you would seal out light in a dark room. Wherever light can leak through the opening, so will sound. A simple field test after the assembly is fully installed is to close the door, turn out the lights on one side of the door and, after allowing your eyes to adjust to the darkness, inspect the seals for light leaking through the assembly. To further aid in this test, have someone shine a bright light around the perimeter on the opposite side as you inspect for leaks. Preventing or solving installation issues will address over 95% of unsatisfactory acoustic assemblies.

STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Single Swing	52	1-3/4"	NR	S or T	NA	---	---	12.0	C5765.03	SG14
	51	1-3/4"	NR	S, T, or U	NA	---	---	12.0	C5765.03	SG14
	51	2 1/4"	20	A	NA	---	---	15.8	TL94-37	SG6
	50	1-3/4"	NR	S, T, or U	NA	---	---	12.0	C5765.03	SG14
	50	1-3/4"	NR	S or T	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C5765.04	SG14
	49	1-3/4"	NR	U	NA	---	---	12.0	C5765.03	SG14
	49	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	49	1-3/4"	NR	S or T	NA	---	---	10.5	"E1460.03-113-11-R0 C7672.03A"	SG16A
	48	1-3/4"	NR	S, T, or U	NA	---	---	10.5	"E1460.03-113-11-R0 C7672.03B"	SG16A
	48	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	48	1-3/4"	20	A	NA	---	---	13.7	TL97-320	SG5
	48	2-1/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	15.8	TL95-350	SG6
	47	1-3/4"	NR	S, T, or U	NA	---	---	10.5	"E1460.03-113-11-R0 C7672.03A"	SG16
	47	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	47	2 1/4"	20	A	VP:110-D2	Pyroswiss / 1/2" Laminated	400 (max)	15.8	TL95-351	SG6
	47	1-3/4"	60-45	A	NA	NA	NA	15.7	TL03-023	SG8
	47	1-3/4"	60-45	S, T, or U	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	15.4	"E1460.05-113-11-R0 C7672.02K-113-17-R0"	SG8
	46	1-3/4"	NR	S, T, or U	NA	---	---	10.5	"1460.03-113-11-R0 C7672.03A"	SG16
	46	1-3/4"	NR	U	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	12.0	C7672.01A	SG14
	45	1-3/4"	20	A	NA	---	---	7.7	TL94-220	SG4
	44	1-3/4"	20	I	NA	---	---	7.7	TL10-134	SG4 (4)
	43	1-3/4"	NR	P	NA	---	---	7.9	100534284CRT-001k	SG4
	43	1-3/4"	20	A	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	100 (max)	7.7	TL03-020	SG4
	43	1-3/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	100 (max)	7.7	TL03-019	SG4
	43	1-3/4"	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	13.6	TL03-022	SG5
	42	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	42	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	42	1-3/4"	NR	A	Bead: 107	1/2" Laminated	400 (max)	7.7	TL03-021	SG4
	42	1-3/4"	60-45	S	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	13.6	"E1460.06-113-11-R0 C7672.02M-113-17-R0"	SG13
	42	1-3/4"	60-45	T	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	13.6	"E1460.06-113-11-R0 C7672.02M-113-17-R0"	SG13

Non-rated openings STC45 or lower available with Eggers acoustic wood frame
FSC® certification is available where core type is PC, SCL, SLC, SG3, or SG11
All acoustic doors are available as "No Added UF" and "Phase 2 Carb Compliant"

STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Single Swing	41	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	41	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	41	1-3/4"	NR	B	Bead: 107	1/2" Laminated	400 (max)	6.5	TL03-012	SG3
	41	1-3/4"	NR	B	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	6.5	TL03-013	SG3
	41	1-3/4"	20	A	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	400 (max)	7.7	TL95-348	SG4
	41	1-3/4"	60-45	S or T	NA	---	---	13.6	"E1460.06-113-11-R0 C7672.02O-113-17-R0"	SG13
	41	1-3/4"	60-45	U	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	13.6	"E1460.06-113-11-R0 C7672.02N-113-17-R0"	SG13
	40	1-3/4"	45	S or T	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	7.6	"E1460.04-113-11-R0 C7672.02G-113-17-R0"	SG7
	40	1-3/4"	60-45	U	NA	---	---	13.6	"E1460.06-113-11-R0 C7672.02P-113-17-R0"	SG13
	40	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	40	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	40	1-3/4"	NR	M	Bead: 110	1-1/8" Non-Rated IGU	1296 (max)	6.7	TL10-141	SG3
	40	1-3/4"	20	B	VP:110-D2	Pyroswiss (center) & 1/4" tempered (outer)	400 (max)	7.7	TL95-347	SG4
	40	1-3/4"	90-60-45	C	NA	---	---	7.6	TL06-051	SG9
	39	1-3/4"	45	S	NA	---	---	7.6	"E1460.04-113-11-R0 C7672.02I-113-17-R0"	SG7
	39	1-3/4"	45	T	NA	---	---	7.6	"E1460.04-113-11-R0 C7672.02I-113-17-R0"	SG7
	39	1-3/4"	45	U	VP:110-D2	Firelite Plus (center) & 1/4" laminated (outer)	100 (max)	7.6	"E1460.04-113-11-R0 C7672.02H-113-17-R0"	SG7
	39	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	39	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	39	1-3/4"	90-60-45	I	NA	---	---	7.7	TL06-053	SG9
	38	1-3/4"	45	U	NA	---	---	7.6	"E1460.04-113-11-R0 C7672.02J-113-17-R0"	SG7
	38	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	38	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	38	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (max)	6.7	C7672.01B	SG3
	37	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (max)	6.7	C7672.01B	SG3
	37	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	37	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	37	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	Full Lite (min 47% of area)	5.9	TL05-052	SCL
	37	1-3/4"	60-45	I	VP: 115-L1	Firelite Plus / Leaded	100 (max)	10.3	TL05-126	SG13
	37	1-3/4"	20	I	Bead: 100	Firelite Plus	400 (max)	6.0	TL05-051	SG3
	36	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 (max)	6.7	C7672.01B	SG3
	36	1-3/4"	20	U	NA	---	---	7.1	C5765.01	SG3
	36	1-3/4"	20	P	NA	---	---	7.1	100534284CRT-001j	SG3
	36	1-3/4"	20	P	NA	---	---	6.3	100534284CRT-001l	SG11

Non-rated openings STC45 or lower available with Eggers acoustic wood frame
FSC® certification is available where core type is PC, SCL, SLC, SG3, or SG11
All acoustic doors are available as "No Added UF" and "Phase 2 Carb Compliant"

STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Single Swing	36	1-3/4"	60-45	I	NA	---	---	10.2	TL05-125	SG13
	36	1-3/4"	20	N	NA	---	---	7.1	100534284CRT-001f	SG3
	35	1-3/4"	20	M	NA	---	---	10.0	TL10-142	BR3
	35	1-3/4"	90-60-45	U	NA	---	---	7.2	A5305.02-113-11	GC
	35	1-3/4"	NR	I	Bead: 107	1/2" Laminated	1296 (min)	6.2	TL10-138	PC
	35	1-3/4"	NR	O	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	7.3	TL10-144	SG11
	35	1-3/4"	20	I	NA	---	---	7.3	TL10-136	SG11
	35	1-3/4"	NR	I	NA	---	---	7.3	TL10-136	SG11
	35	1-3/4"	20	U	NA	---	---	7.3	TL10-136	SG11
	35	1-3/4"	NR	U	NA	---	---	7.3	TL10-136	SG11
	34	1-3/4"	NA	B	Bead: 107	1/2" Laminated	1296 (min)	6.2	TL10-138	PC
	34	1-3/4"	NA	I	LoPro IS	1/2" Laminated	400 (min)	6.1	TL10-135	PC
	33	1-3/4"	NA	I	Bead: 107	1/2" Laminated	400 (min)	6.1	TL10-133	PC
	33	1-3/4"	20	Q	NA	---	---	6.9	100534284CRT-001n	SCL
	32	1-3/4"	20	Q	NA	---	---	5.5	100534284CRT-001o 100534284CRT-001p	PC
	32	1-3/4"	20	I	NA	---	---	6.9	TL06-059	SCL
	32	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	6.9	TL06-059 & TL97-313	SCL
	32	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	6.9	TL06-059 & TL03-013	SCL
	32	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	6.9	TL06-059 & TL03-012	SCL
	32	1-3/4"	20	N	NA	---	---	6.9	100534284CRT-001b	SCL
	31	1-3/4"	20	I	NA	---	---	5.8	TL06-058, TL10-129	PC
	31	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	5.8	TL06-058 & TL97-313	PC
	31	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	5.8	TL06-058 & TL03-013	PC
	31	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	5.8	TL06-058 & TL03-012	PC
	31	1-3/4"	NR	N	NA	---	---	5.5	100534284CRT-001a	PC
	30	1-3/4"	20	I	NA	---	---	4.6	TL06-056	SLC
	30	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	4.6	TL06-056 & TL97-313	SLC
	30	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	4.6	TL06-056 & TL03-013	SLC
	30	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	4.6	TL06-056 & TL03-012	SLC
	29	1-3/4"	90-60-45	I	NA	---	---	4.4	TL06-057	MC
	27	1-3/4"	20	I	NA	---	---	4.9	TL07-035	AGR
	27	1-3/4"	20	I	VP: Lo Pro IS	1" Rated IGU	400 (min)	4.9	TL07-035 & TL97-313	AGR
	27	1-3/4"	NR	I	Bead: 110	1-1/8" Non-Rated IGU	400 (min)	4.9	TL07-035 & TL03-013	AGR
	27	1-3/4"	NR	I	Bead: 107	1/2" Laminated	400 (min)	4.9	TL07-035 & TL03-012	AGR
Stylus	33	1-3/4"	20	I	NA	---	---	5.5	TL07-057	PC
	32	1-3/4"	20	I	NA	---	---	6.2	TL07-058	SCL
	31	1-3/4"	90-60-45	I	NA	---	---	4.3	TL07-059	MC

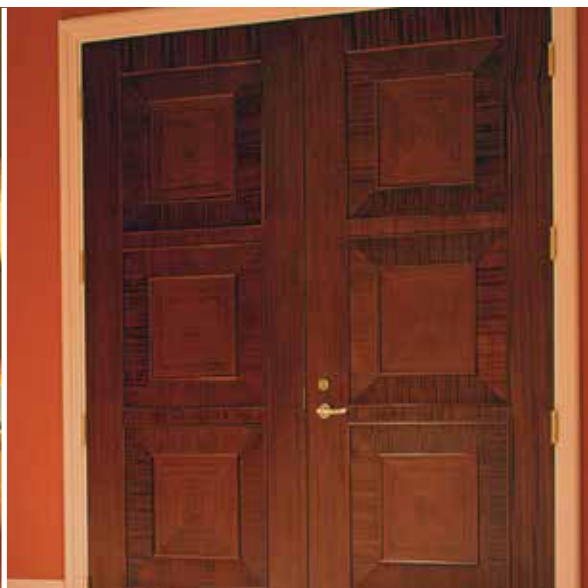
Non-rated openings STC45 or lower available with Eggers acoustic wood frame
FSC® certification is available where core type is PC, SCL, SLC, SG3, or SG11
All acoustic doors are available as "No Added UF" and "Phase 2 Carb Compliant"

STC RATING BY DOOR TYPE AND ATTRIBUTES										
Door Type & Swing	**STC Rating**	**Door (Panel) Thickness**	**Available Fire Rating**	**Gasket System**	**Glazing System**	**Glazing Type**	**Glazing Area (Sq In)**	**Weight (Sq Ft)**	**Test Reports**	**Core Type**
Flush Active-Inactive Pairs[1]	49	1-3/4"	20	A	NA	---	---	13.7	TL98-238	SG5
	44	1-3/4"	20	A	NA	---	---	7.7	TL98-236	SG4
	41	1-3/4"	20	B	NA	---	---	7.7	TL98-233	SG4
Flush Active-Active Pairs [2]	41	1-3/4"	20	K	NA	---	---	6.2	TL08-007	SG3
	40	1-3/4"	NR	K	Bead: 100	1/2" Laminated	400 (max)	6.3	TL08-009	SG3
	34	1-3/4"	45	K	VP: Lo-Pro IS	Superlite II-XL-45	Full Lite (min 47% of area)	6.5	TL11-111	MC
	31	1-3/4"	90-60-45	K	NA	---	---	7.2	TL11-110	GC
	31	1-3/4"	20	K	NA	---	---	6.4	TL11-112 TL11-113	SCL
Dutch Door	44	1-3/4"	20	A	NA	---	---	7.7	TL98-237	SG4
Door & Transom	44	1-3/4"	20	A	NA	---	---	7.7	TL98-237	SG4
Communicating	53	1-3/4"	20	B	NA	---	---	7.7	TL93-219	SG4
Stile & Rail Single Swing	40	1-3/4" (1-11/16")	NR	B	NA	---	---	8.3	TL99-120	SG12
	40	1-3/4" (1-11/16")	NR	A	Bead: 110	1-1/8" Non-Rated IGU	400 (max)	8.3	TL99-122	SG12
	39	1-3/4" (1-11/16")	NR	I	Bead: 110	1-1/8" Non-Rated IGU	1296 (max)	7.0	TL05-123	SG12
	38	1-3/4" (1-11/16")	NR	S or T	NA	---	---	7.6	"E1460.07-113-11-R0 C7672.02Q-113-17-R0"	SG12
	38	2 ¼" (1-7/8")	90-60-45	A	NA	---	---	12.5	TL97-321	MC
	37	1-3/4" (1-11/16")	NR	U	NA	---	---	7.6	"E1460.07-113-11-R0 C7672.02R-113-17-R0"	SG12
	37	2 ¼" (1-7/8")	90-60-45	B	NA	---	---	12.5	TL97-312	MC
	36	1-3/4" (1-3/4")	60-45	B	NA	---	---	9.7	TL97-317	MC
	33	1-3/4" (1-1/2")	20	B	NA	---	---	5.9	TL94-41	SCL
	33	2 ¼" (1-1/2")	20	B	NA	---	---	6.9	TL97-311	SCL
Stile & Rail Active-Active Pairs	37	1-3/4" (1-11/16")	NR	K	NA	---	---	7.9	TL11-109	SG12
	35	1-3/4" (1-3/4")	60-45	K	NA	---	---	10.2	TL11-108	MC
	32	1-3/4" (1-1/2")	20	K	NA	---	---	5.9	TL11-107	SCL

[1] Test was conducted as an active/inactive pair installation and requires Eggers' overlapping wood astragal.
[2] Test was conducted as an active/active pair with top latching surface hardware.







ACOUSTICAL GASKETING AND UNDERCUTTING		
Gasket System	**Components**	**Required Undercut**
A	Double row Pemko S-88 gasket, Pemko 434_ARL door bottom, Pemko 2005_AT threshold	1/2"
B	Double row Pemko S-88 gasket, Pemko 434_ARL door bottom	1/4"
C	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 2005_AT threshold	3/8"
I	Double row Pemko S-88 gasket, Pemko PDB411_AE door bottom	3/8" (1/4"-1/2")
K	Double row Pemko S-88 gasket and pad on frame, Pemko PDB411_AE door bottom, one row of Pemko S-1125 on each meeting edge	3/8" (1/4"-1/2")
M	Double row Pemko S-88 gasket, Pemko 234 door shoe, Pemko 151 flat threshold	3/8"
N	DHSI 105, DHSI AMDB3-3, & DP*	1/4"
O	Pemko 773, Pemko 234 door shoe, Flat smooth threshold	3/8"
P	DHSI 105, SA, CS, DP	3/8"
Q	DHSI 105, Pemko 2005_AT	3/8"
S	2008_APK Threshold, S44 and 312R	3/8"
T	2008_APK Threshold, S773 and S44	3/8"
U	Pemko PDB411_AE, S773, S44 and ACP112	3/8" (1/4"-1/2")

**DP375 is used for the Solid Wood Edge Option (SWE); DP250 is used for full width mortise or CS*





SOUNDWOOD ACOUSTICAL WOOD FRAMES

Eggers' acoustical wood jambs allow the beauty of our doors to be accented with matching wood frames designed to create a cohesive look metal frames cannot match. Create a masterpiece, knowing Eggers will work diligently to make your acoustical door and frame a perfect match. Available with an STC sound test report up to an STC 45, Eggers' two piece acoustical frame is sold exclusively in combination with Eggers' acoustical doors.

Elegant

Eggers' acoustical frames are available in virtually any veneer and finish color and offers quality control unparalleled in the acoustical wood door market. No longer is a metal frame with wood casing necessary for aesthetic appeal. Perfect for the grand entrance to a concert hall or the distinction of a boardroom, Eggers' acoustical wood frames complement our acoustical doors perfectly.

Functional

Eggers' STC doors and frames are found in healthcare and hospitality facilities, government and municipal buildings as well as educational institutions. Typical applications include performance venues, conference rooms, lecture halls, auditoriums, and classrooms.

Two Piece Acoustical Jamb Installation Instructions

Maximum Overall Opening	50-11/16" wide x 121-11/32" high (frame buck opening)
Maximum Door Opening	Single–4-0 x 10-0
Wall Depth	Minimum–4-7/8"
Wall Type	Wall must be constructed to meet the STC rating and lined with a wood stud for jamb attachment
Gasketing	Refer to gasketing installation instructions for the specific STC door rating selected from the STC Product Offerings chart

Note: Soundwood Acoustical Frames are veneer-wrapped and will maintain the opening rating with doors rated up to STC 45.

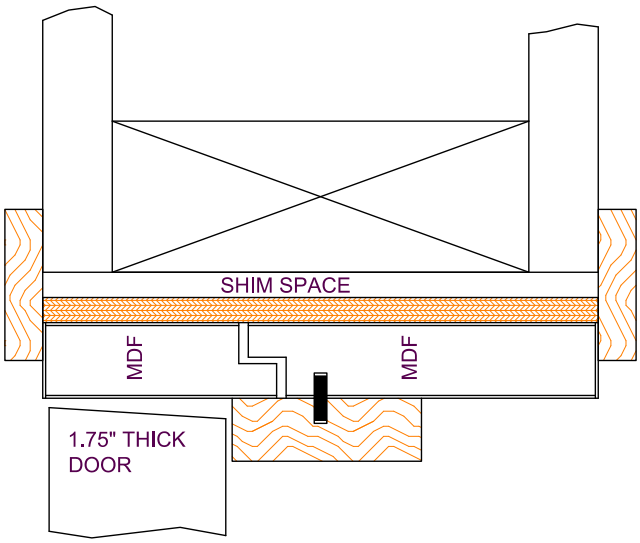
Door side of jamb is shimmed and installed first with #8 x 1-1/2" screws spaced a maximum of 4" from each end and 24" on center.

Stop side of jamb is then installed flush with the wall. Space in between the two jamb components is okay.

Attach stop side of jamb with #8 x 2" screws or 8d finishing nails spaced a maximum of 6" from the end and 24" on center. Fasteners can be located underneath the stop.

One #8 x 2" screw or 8d finish nail should be located at each hinge pocket and strike pocket on the door side of jamb before the hardware is installed.

Shim space is a maximum of 1/4" and must be tightly filled with fiberglass insulation



Flat Stop

Minimum 5/8" thick x 1-1/2" wide. Flat stops are installed with a 1/8" x 7/16" HDF spline and #4 finish nails or 18 gage x 1-1/2" long brads spaced maximum 4" from each end and 16" on center.

Casing

Minimum 3/8" thick x 1-1/2" wide. Casing is installed with minimum #4 finish nails spaced maximum 4" from each end and 16" on center and staggered.

ECOUSTICS

Acoustical Architectural Plywood



Plywood that looks beautiful and creates an environment that sounds great too. Eggers' acoustical plywood helps to reduce reverberation and noise pollution overall. Functionality and high-quality performance are matched with the beauty of an Eggers' plywood product.

SOUNDWOOD ACOUSTICAL PLYWOOD PANELS

Acoustical Performance Testing Methods

The Soundwood Ecoustics line of architectural plywood is tested differently from our acoustical door line. Two different values are captured:

- NRC–Noise Reduction Coefficient: a measure of how effective a material is at absorbing sound.
- SAA–Sound Absorption Average: the amount of sound absorbed by a surface finish.

There are two common mounting methods for plywood paneling, known as “A” mounting and “E” mounting. The “A” mounting is used to test wall panels. The “E” mounting is used to test ceiling panels and is typically given a three digit suffix, e.g. “E-400.” This represents the depth (in millimeters) of the sealed airspace behind the acoustical material tested. The “E” mounting method is typically used for acoustical ceiling tiles.

The ASTM C423 test standard is the standard test method for sound absorption and sound absorption coefficients by the reverberation room method.

All building materials have some acoustical properties that they will absorb, reflect, or transmit sound striking them. Conventionally speaking, acoustical materials are those materials designed and used for the purpose of absorbing sound that might otherwise be reflected. Sound absorption is defined as the incident sound that strikes a material and is not reflected back.

For the vast majority of conventional acoustical materials, the material thickness has the greatest impact on the material’s sound absorbing qualities. While the inherent composition of the acoustical material determines the material’s acoustical performance, other factors can improve or influence the acoustical performance. Incorporating an air space behind an acoustical ceiling or wall panel often serves to improve low frequency performance.





Installation Instructions

The manufacturers of the gasketing, door bottom, thresholds will generally provide a set of installation instructions with their components. In addition, Eggers has developed a set of installation instructions for each of the gasketing systems indicated in the product offering chart. This information is meant to augment those instructions.

Perimeter gasketing is intended to form a seal between the door leaf and the frame. Most of the systems used with Eggers doors include a double row of frame applied seals to accomplish this. If necessary due to installation clearances the seals allow a limited amount of re-positioning to assure adequate contact with the closed door.

Where used, raised thresholds should be adjusted and secured based on the position of the closed door. The threshold seal should make uniform contact with the door surface. Avoid excessive force between the door and threshold as this can hold the door away from the frame seals.

Auto door bottoms should be properly sized to the door width. Avoid undersizing them as this will prevent a good seal and allow sound to “leak” past.

There are several glazing options within Eggers approvals. Eggers recommends factory glazing of acoustic doors, where our controlled environment and installers familiar with the process can ensure proper sealing.

Where doors are to be field glazed, a good seal must be made between all of the components, regardless of the glazing system used. The best way to do this is with a small bead of 100% pure silicone. The seal does not have to be thick, but it must be continuous.

Eggers Industries
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Two Rivers, WI 54241
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Fax: 920.793.2958

Flush Doors, eiDoor®

Neenah Division
164 North Lake Street
Neenah, WI 54956
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Fax: 920.722.0357

Architectural Veneer Faces, Custom Wood Products, Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.845.0615

Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supersede those in print.

The FSC certification ensures responsible use of forest products. 301-08-15

Look for FSC certified products.

R08.17

FSC www.fsc.org FSC® C019991 The mark of responsible forestry

RAINFOREST ALLIANCE CERTIFIED

CERTIFIED QUALITY WOODWORK

EGGERS' GREEN CAPABILITIES

Eggers' expertise in sustainable practices can help contribute towards green building credits for nationally recognized environmental building programs.

Eggers Industries



Turning nature's beauty into works of art

ARCHITECTURAL DOORS, PANELING AND VENEER MATCHING

Conserving our natural resources is as much an honor as it is a responsibility at Eggers Industries. It's a philosophy and a practice that echoes throughout Eggers.



We are certified by the Rainforest Alliance to manufacture products in accordance with the Forest Stewardship Council™(FSC®) standards. Our commitment to our customers and the environment is not only a guarantee of high-quality, custom wood products, but also a promise of credits toward the Leadership in Energy and Environmental Design (LEED®) program.

- Eggers offers agricultural fiber based particleboard as well as FSC certified structural composite lumber core, stave, and particleboard core types for flush doors.
- As an FSC Chain of Custody Certified Supplier by the Rainforest Alliance, all FSC certified materials meet or exceed requirements set by the FSC. These products come from managed forests that exercise selective harvesting.
- Eggers can provide you with FSC certified wood doors, frames and architectural plywood panels within one facility. Custom applications also include ceiling tiles and office components.
- Eggers' UV cured finishing system consists of water-based stains and 100 percent solid clear coats that are free of Volatile Organic Compounds (VOC).

In addition to providing sustainable manufacturing, Eggers follows environmentally-conscious practices as a company. Recycling is a primary focus at Eggers, both in our offices and our plants. We also harness energy from waste materials to heat our facilities.

LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED®)

The United States Green Building Council (USGBC) developed LEED as a set of guidelines to provide a national standard for green building design. It's the most recognized rating system for evaluating environmental performance of commercial, institutional, governmental and high-rise residential buildings. The information provided here is based on LEED 2009-NC. You can learn more about LEED by visiting their website at usgbc.org.

Green Design incorporates design and construction practices to greatly reduce or eliminate the negative impact of buildings on the environment and occupants through:

- Sustainable site planning
- Safeguarding water and water efficiency
- Energy efficiency
- Conservation of materials and resources
- Indoor environmental quality

The LEED program is a certification process to provide a sustainability rating system. Eggers' architectural wood doors, panels and other products can assist building owners and design teams toward certification by contributing to points in the **Materials & Resources** category, as well as **Indoor Environmental Quality.** Depending on the number of points earned, the buildings can achieve Certified (40-49 points), Silver (50-59 points), Gold (60-79 points) or Platinum (80+ points) status.

LEED-2009-NC Rating System

Credits		Points
17	Sustainable Sites	**26**
4	Water Efficiency	**10**
8	Energy and Atmosphere	**35**
8	Materials and Resources	**14**
22	Indoor Environmental Quality	**15**
4	Design Process and Innovation	**10**
	Total Points Possible	**110**

Due to recent changes in FSC regulations, your company may be required to complete certification through an FSC agency. Please contact USGBC for additional information.

LEED® OPPORTUNITIES AVAILABLE WITH EGGERS' PRODUCTS

EGGERS' FLUSH DOORS[1]		MR 4: Recycled Content[3]	MR 6: Rapidly Renewable Materials	MR 7: Certified Wood[3]	EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]	Total Point Contribution with Eggers' Flush Doors
Particleboard Core		2				**2**
No UF Particleboard		2			1	**3**
FSC Certified Particleboard				1	1	**2**
Agrifiber		2	1		1	**4**
Agrifiber with FSC Certified Components		2	1	1	1	**5**
Stave Lumber		2			1	**3**
FSC Certified Stave Lumber				1	1	**2**
SCL		2			1	**3**
FSC Certified SCL				1	1	**2**
45-90 Minute Mineral Core		2			1	**3**
EGGERS' STILE & RAIL DOORS[1]		**MR 4: Recycled Content[3]**	**MR 6: Rapidly Renewable Materials**	**MR 7: Certified Wood[3]**	**EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]**	**Total Point Contribution with Eggers' S & R Doors**
SCL Core - Lite Door		2			1	**3**
SCL Core- Panel Options	Particleboard	2				**2**
	MDF	2				**2**
	No UF MDF	2			1	**3**
FSC Certified Stave Core - Lite Door		2		1	1	**4**
FSC Certified Stave Core - Panel Options	FSC Certified/No UF MDF	2		1	1	**4**
45-90 Minute - Lite Door		2			1	**3**
45-90 Minute Panel Options	Membrane	2			1	**3**
	Rim	2			1	**3**
EGGERS' DOOR FRAMES[1]		**MR 4: Recycled Content[3]**	**MR 6: Rapidly Renewable Materials**	**MR 7: Certified Wood[3]**	**EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]**	**Total Point Contribution with Eggers' Door Frames**
Lumber				1	1	**2**
MDF		2				**2**
No UF MDF		2			1	**3**
FSC Certified		2		1	1	**4**
90-Minute					1	**1**
EGGERS' PANELS[1]		**MR 4: Recycled Content[3]**	**MR 6: Rapidly Renewable Materials**	**MR 7: Certified Wood[3]**	**EQ 4.4: Composite Wood, Agrifiber, and Adhesives Contain No Added Urea-Formaldehyde[2]**	**Total Point Contribution with Eggers' Panels**
Particleboard or MDF*		2				**2**
No UF Particleboard or MDF*		2			1	**3**
FSC Certified Particleboard or MDF		2		1	1	**4**
Veneer Core					1	**1**

[1] Additional point contributions may be available for MR #5.1 and MR #5.2 if the materials are extracted, harvested, recovered and manufactured within 500 miles of the jobsite and Eggers' manufacturing facilities. Contributions are contingent on the design and layout of the product in question. [2] The product construction is only urea-formaldehyde free if it is ordered as urea-formaldehyde free. The core is urea-formaldehyde free, but the doors need to be constructed urea-formaldehyde free to contribute to this credit. [3] Per USGBC guidelines, the value of any content that contributes to MR #4 cannot be attributed to MR #7.0 calculation.* Only particleboard is available as UL Class A Label.

LEED® QUICK REFERENCE CHART FOR DOORS

Credit	Criteria	Intent
MATERIALS & RESOURCES		
4.0	**Recycled Content** 10 percent (post-consumer + 1/2 pre-consumer)	Increase demand for building products that incorporate recycled content materials, thereby reducing impact resulting from extraction and processing of virgin material
	Recycled Content 20 percent (post-consumer + 1/2 pre-consumer)	
5.0	**Regional Materials** 10 percent extracted, processed and manufactured regionally	Increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting indigenous resources and reducing environmental impact from transportation
	Regional Materials 20 percent extracted, processed and manufactured regionally	
6.0	**Rapidly Renewable Materials**	Reduce the use and depletion of finite raw materials and long-cycle renewable materials by replacing them with rapidly renewable materials
7.0	**Certified Wood**	Encourage environmentally responsible forest management
INDOOR ENVIRONMENTAL QUALITY		
4.4	**Low-Emitting Materials** Composite wood and agrifiber contains no added urea-formaldehyde	Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants





Eggers Industries

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sales@eggersindustries.com

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Phone: 920.793.1351
Fax: 920.793.2958

Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces, Custom Wood Products, Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.849.0444

Eggers releases regular product updates. Please visit www.eggersindustries.com for the most current and accurate technical information. Specification details published online supersede those in print.

The FSC certification ensures responsible use of forest products. 501-09-14
Look for FSC certified products.

FSC www.fsc.org FSC® C019991
The mark of responsible forestry

RAINFOREST ALLIANCE CERTIFIED

CERTIFIED ARCHITECTURAL WOODWORK INSTITUTE QUALITY WOODWORK

CERTIFIED INDOOR AIR QUALITY SCS GLOBAL SERVICES
INDOOR ADVANTAGE GOLD BUILDING MATERIALS

Eggers Industries

Soundwood™
ACOUSTICAL WOOD PRODUCTS BY EGGERS

FSC® Certified Acoustical Doors

LEED® MR7–Eggers offers FSC Certified wood with acoustical doors. The chart below indicates our STC 33-42 are available with FSC certification and can be ordered as non-rated or with a 20-minute fire-rating.

Benefits in choosing FSC certified acoustical doors are:

- Lead-free construction
- Lite capability
- Less than 8# per square foot in weight
- LEED EQ4.4–no added urea-formaldehyde available
- Meets SCS Indoor Advantage Gold certification

STC PRODUCT OFFERINGS				STC RATING BY DOOR TYPE AND ATTRIBUTES					
STC Rating	Door Thickness	Max. Fire Rating	Gasket System	Glazing System	Glazing Type	Glazing Area Sq. In.	Weight Per Sq. Ft.	Test Report	Product
42	1-3/4"	20	U	N/A	-	-	7.1	C5765.01	SG3
42	1-3/4"	20	P	N/A	-	-	7.1	100534284CRT-001j	SG3
41	1-3/4"	NR	B	Bead: 107	1/2" Laminated	400 sq. in. (max.)	6.5	TL03-012	SG3
41	1-3/4"	NR	B	Bead: 110	1-1/8" Non-Rated IGU	400 sq. in. (max.)	6.5	TL03-013	SG3
40	1-3/4"	NR	M	Bead: 110	1-1/8" Non-Rated IGU	1296 sq. in. (min.)	6.7	TL10-141	SG3
38	1-3/4"	NR	U	Bead: 107	1/2" Laminated	1296 sq. in. (min.)	6.7	C7672.01B	SG3
37	1-3/4"	20	I	Bead: 100	Firelite Plus	400 sq. in. (max.)	6.0	TL05-051	SG3
36	1-3/4"	20	N	N/A	-	-	7.1	100534284CRT-001f	SG3
36	1-3/4"	20	P	N/A	-	-	6.3	100534284CRT-001l	SG11
35	1-3/4"	20	O	Bead: 110	1-1/8" NR IGU	400 sq. in. (min.)	7.3	TL10-136	SG11
35	1-3/4"	20	I	N/A	-	-	7.3	TL10-142	SG11
34	1-3/4"	20	Q	N/A	-	-	6.3	100534284CRT-001m	SG11
33	1-3/4"	20	N	N/A	-	-	6.3	100534284CRT-001d 100534284CRT-001e	SG11

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The FSC certification ensures responsible use of forest products. 301-08-15

Look for FSC certified products.

R06.17

FSC www.fsc.org FSC® C019991 The mark of responsible forestry

Rainforest Alliance Certified

Certified Architectural Woodwork Institute Quality Woodwork

Eggers Industries

KEEPING KIDS SAFE

Protecting children while they are learning is everyone's responsibility and Eggers takes great pride in our capabilities to provide a wide-range of products to exceed the security and safety standards required in our nation's schools.



Extensive Capabilities to Ensure that Every Child Learns in a Safe Environment

Bullet-Resistant Doors

At Eggers Industries, we fully understand and appreciate that the safety and well-being of your students and staff is the top priority. Bullet-resistant doors are a major step toward enhancing safety. Our doors are designed to protect life and property from direct arm fire.

- Available in resistance levels 1-8, per UL 752 and levels IIA through III (per N.I.J. 0108.01)
- The fiberglass core material meets the bullet resistance requirements of test standard UL 752.
- 20-minute fire rating available
- Glazing is an option for most ballistic ratings and up to Level 3 with 20-minute fire-rated doors
- Bullet-resistant metal vision panels are required for all doors with lites and bullet-resistant doors must be hung in bullet-resistant frames
- Available in 1-3/4" or 2-1/4" thicknesses
- Pair applications are available in ratings up to Level 4 with an overlapping bullet-resistant astragal

Fire-Rated Doors and Frames

Eggers' fire-rated doors offer unbeatable functionality and visual appeal. Our flush doors, true stile & rail doors and veneered door frames are fire-rated up to 90-minute. Solid lumber frames are rated up to 45-minute. True-divided lite doors have 20-minute ratings while full-lite doors are 20- and 45-minute rated.

eiDOOR® for High Impact Applications

Pair the strength and protection of InPro Corporation's IPC Rigid Vinyl Sheet and the quality and performance of Eggers' Doors and you have the eiDOOR® - a supremely durable door that withstands high amounts of traffic and abuse while maintaining an attractive appearance. eiDOORS® are available with removable edges on both the hinge and lock edges for convenient, on-site replacement - offering a convenient, high quality, and cost effective solution for maximum protection against door damage.

Acoustical Doors

Our acoustical doors provide superior sound control for a variety of uses: vocal rooms, band rooms, gymnasiums, audio-visual labs, performance halls and theaters. They allow students to practice music, rehearse plays, discuss and debate issues at full volume and potential. Eggers' doors have the highest STC ratings in the industry – STC 40 for true stile & rail doors and STC 53 for flush doors.

Eggers also adheres to programs such as LEED® for Schools and the Collaborative for High Performance Schools (CHPS) which require a minimum STC 30 for classroom entry doors. These programs ensure that the learning environment has fewer distractions.

Environmental Capabilities

Eggers is certified by the Rainforest Alliance to manufacture products in accordance with the Forest Stewardship Council™ (FSC®) standards. Our commitment to our customers and the environment is not only a guarantee of high-quality, custom wood products, but also a promise of credits toward the Leadership in Energy and Environmental Design (LEED®) program. LEED® certification points can be earned with Agrifiber, Particleboard and SCL core constructions and FSC-certified lumber, cores and veneers.

When choosing FSC certified core and FSC certified veneer, we are able to offer an FSC Mix 100% certified flush wood door. Non-certified veneer and FSC certified core results in an FSC Mix 97% certified flush wood door.

With the use of UV cured finishes, Eggers has been able to achieve Indoor Advantage™ Gold certification through SCS Global Services (SCS). This certification qualifies for LEED low-emitting materials credits and also meets CA 01350. Certifying with SCS demonstrates our commitment to providing a safer and healthier indoor environment for our children.

What do those ballistic levels really mean?



Door Model	Protection Rating per UL 752	Ammunition	Comparable N.I.J. 0108.01 Rating	Door Weight (psf)
Level 1	UL 1	9mm Full Metal Copper Jacket with Lead Core	III-A	8.4
Level 2	UL 2	.357 Magnum Jacketed Lead Soft Point	II	8.8
Level 3	UL 3	.44 Magnum Lead Semi-Wadcutter Gas Checked	III-A	9.6
Level 4	UL 4	.30 Caliber Rifle Lead Core Soft Point (.30-06 Caliber)	III	15.6
Level 5	UL 5	7.62mm Rifle Lead Core Full Metal Copper Jacket Millitary Ball (.308 Caliber)	III	15.9
Level 6	UL 6	9mm Full Metal Copper Jacket with Lead Core	III-A	9.6
Level 7	UL 7	5.56mm Rifle Full Metal Copper Jacket with Lead Core (.223 Caliber)	III-A	14.3
Level 8	UL 8	7.62mm Rifle Lead Core Full Metal Copper Jacket Military Ball (.308 Caliber)	III	15.9

FSC www.fsc.org FSC® C019991
The mark of responsible forestry

FSC® certified by the Rainforest Alliance

SCScertified™
INDOOR AIR QUALITY
Indoor Advantage | Building Materials
GOLD

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TECH SHEET	SGPC	Eggers Industries
STC 31, 32, 33, 34, 35		

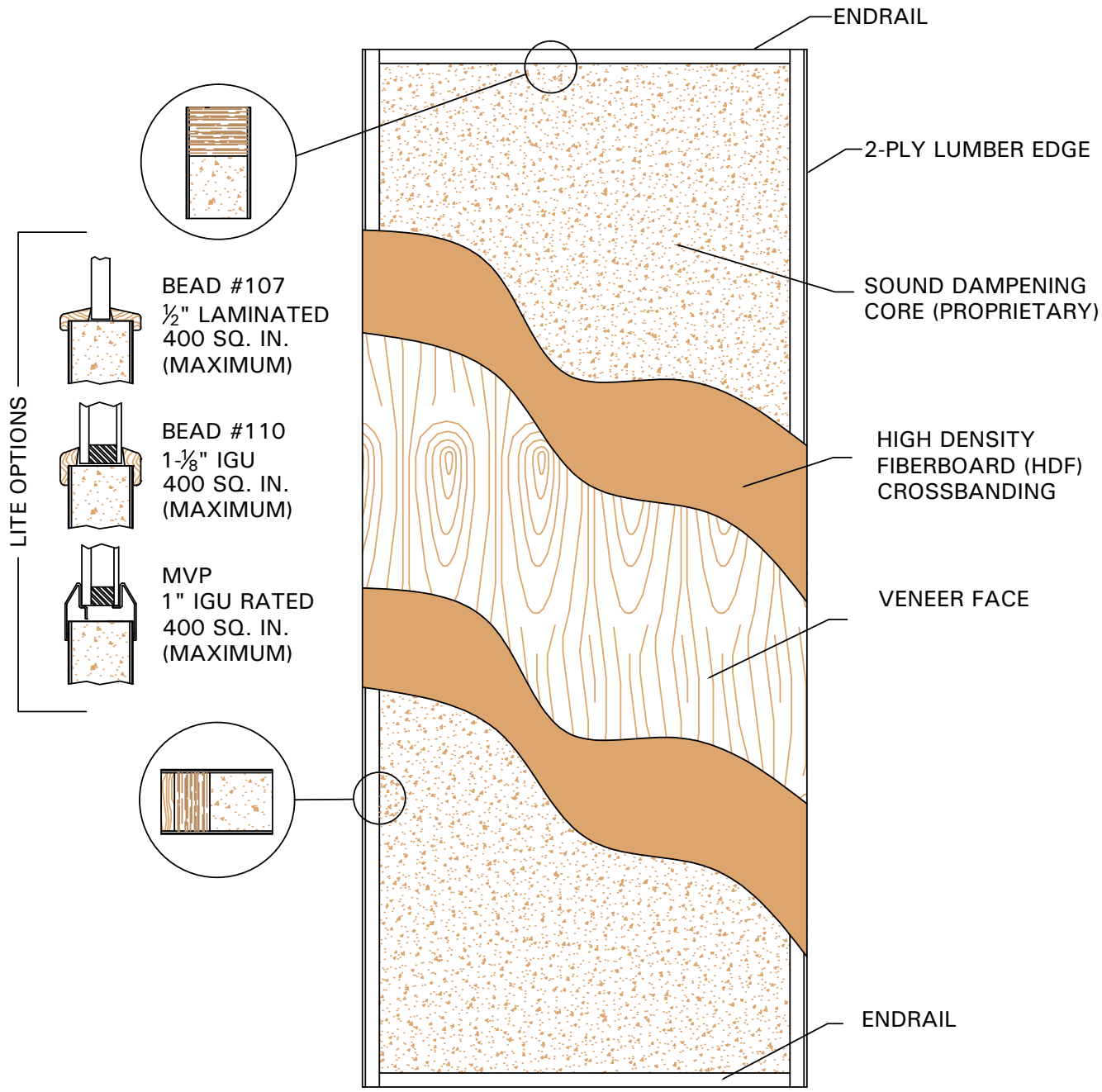
Soundwood™
ACOUSTICAL WOOD PRODUCTS BY EGGERS

ENGINEERING SPECIFICATIONS

Sizes: Min. 2'-0" x 6'-0", Max. 4'-0" x 10'-0"
Thickness: 1-3/4"
Frame: Tested in grouted steel frame, must be installed in frame that will maintain the acoustical rating
Stiles: Meets WDMA Extra Heavy Duty I.S. 1A Performance Level
Faces: Wood Veneers, MDO, High-Pressure Decorative Laminate, Vinyl
Latching Hardware: Single Point Latch
Hinges: Level Swing - Butt Hinges
LEED® Contributions: MR4 - Recycled Content, EQ4.4 - No Added Urea-Formaldehyde
Standards: ASTM E90, E413

SINGLE SWING FLUSH DOORS	STC 31					STC 32	STC 33	STC 34		STC 35
Fire-Rating	N/A			20-Minute		20-Minute	N/A	N/A		N/A
Lites	N/A	Bead: 107 1/2" Laminated 400 sq. in. max	Bead: 110 1-1/8" NR IGU 400 sq. in. max	N/A	MVP 1" Rated IGU 400 sq. in. max	N/A	Bead: 107 1/2" Laminated 400 sq. in. min.	Bead: 107 1/2" Laminated 1,296 sq. in. min	MVP 1/2" Laminated 400 sq. in. min	Bead: 107 1/2" Laminated 1,296 sq. in min
Gasket System	N	I		I		Q	I	B	I	I
Test Report	100534284CRT-001A	TL06-058 TL03-012	TL06-058 TL03-013	TL06-058 TL10-129	TL06-058 TL97-313	100534284CRT-001o 100534284CRT-001p	TL10-133	TL10-140	TL10-135	TL10-138
Weight Per Square Foot	5.5 lbs.	5.8 lbs.		5.8 lbs.		5.5 lbs.	6.1 lbs.	6.2 lbs.	6.1 lbs.	6.2 lbs.

SPECIALTY FLUSH DOORS	STYLUS FLUSH
	STC 33
Fire-Rating	20-Minute
Lites	N/A
Gasket System	I
Test Report	TL07-058
Weight Per Square Foot	5.5 lbs.



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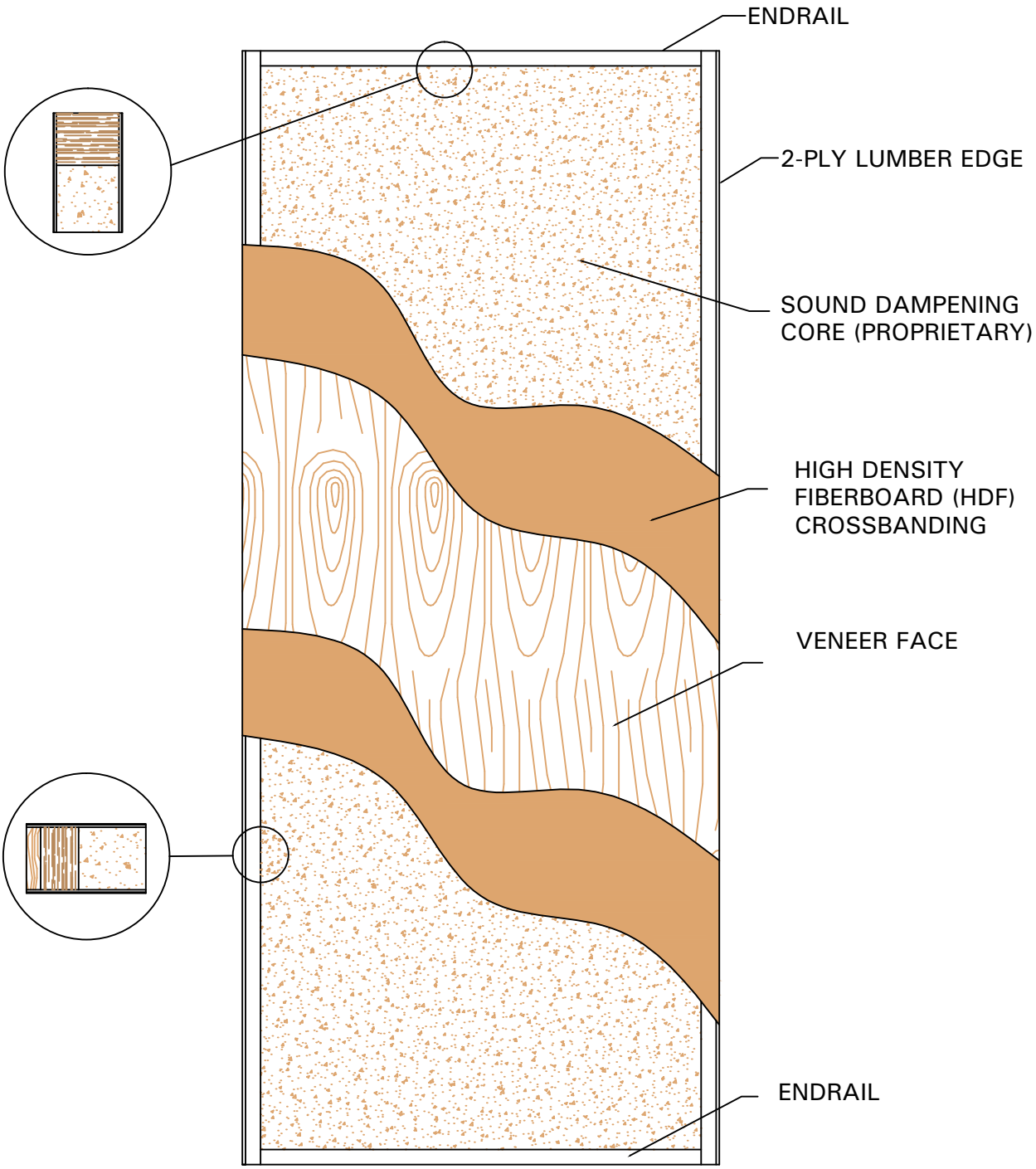
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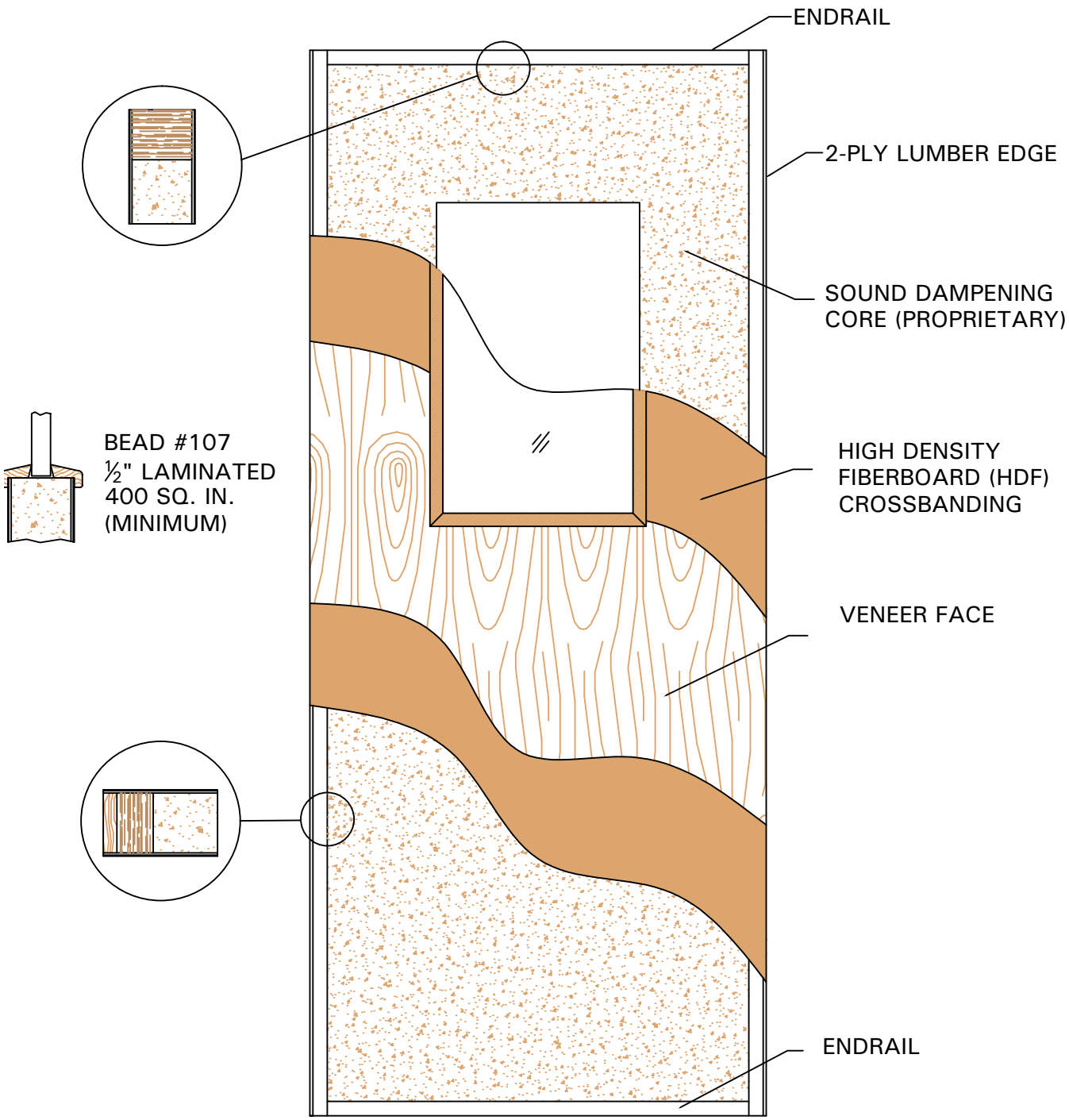
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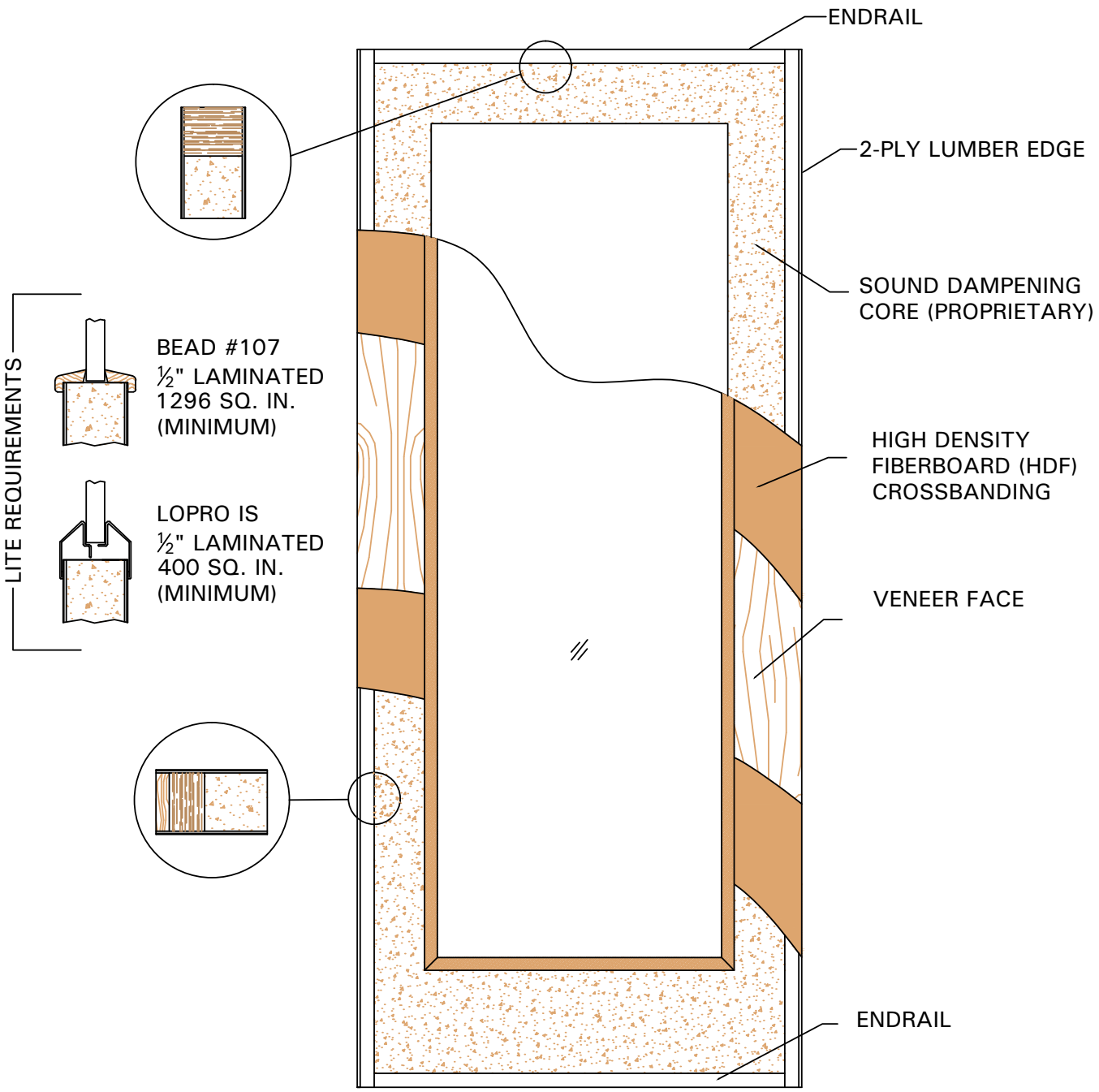
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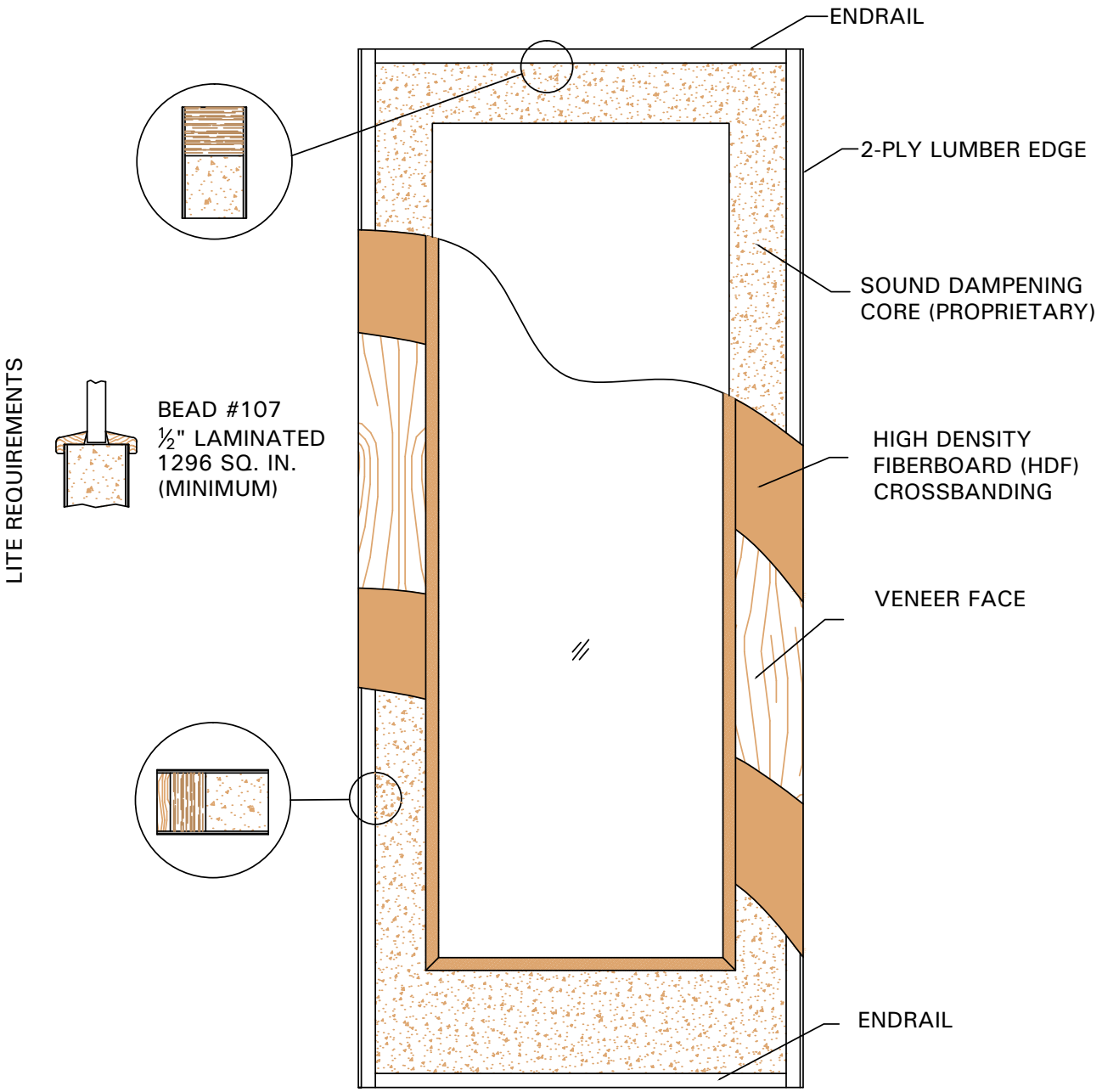
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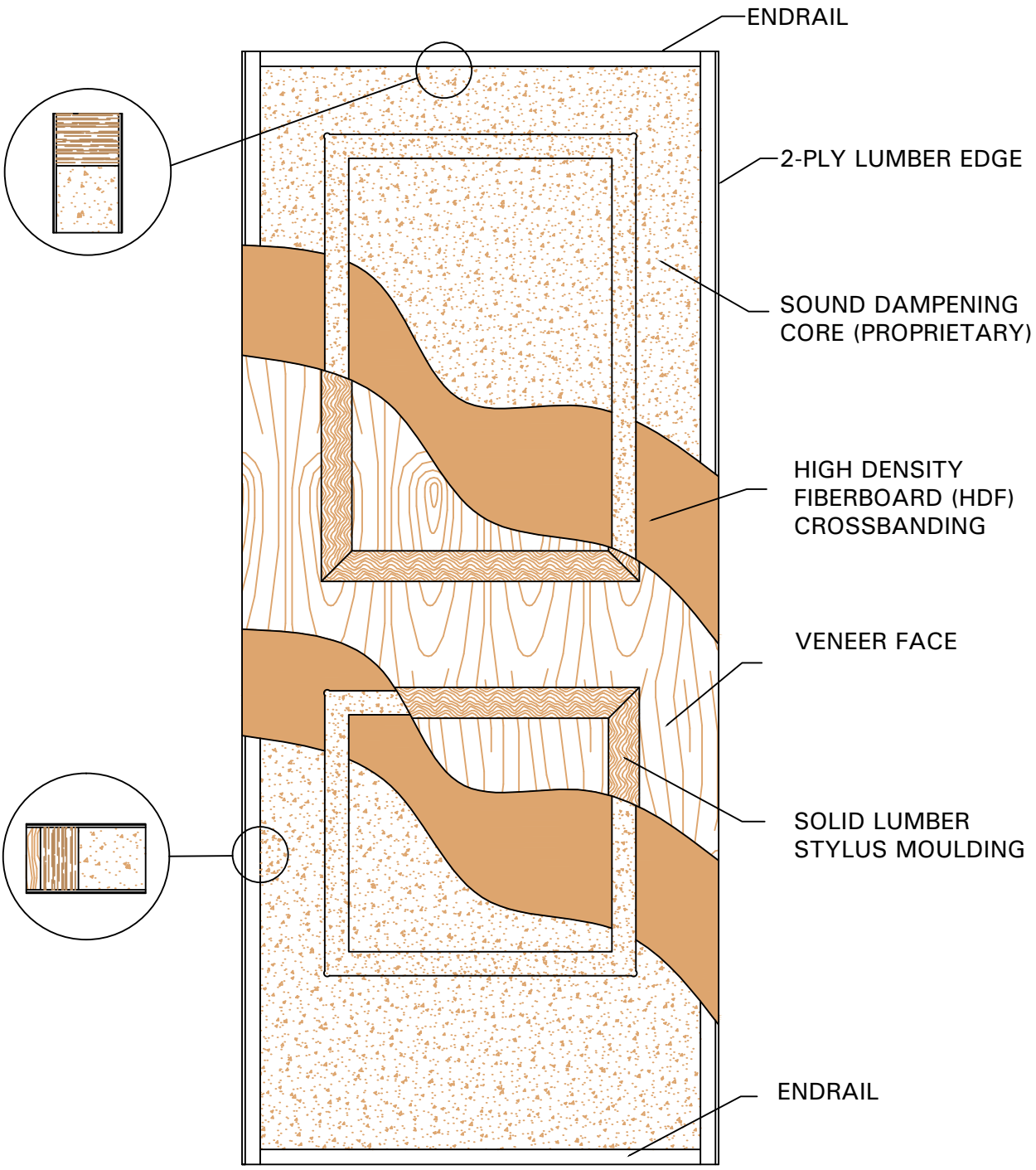
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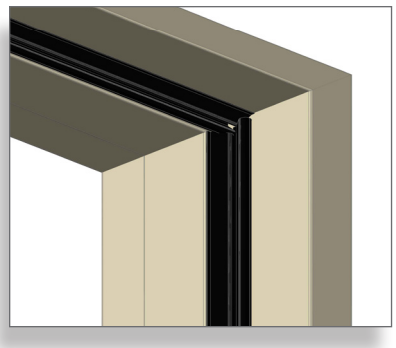
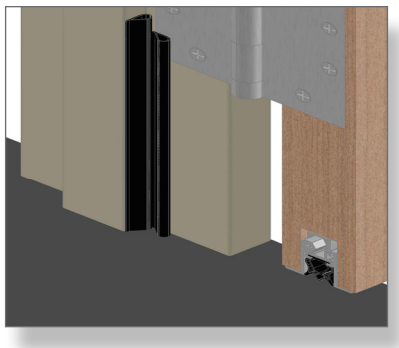
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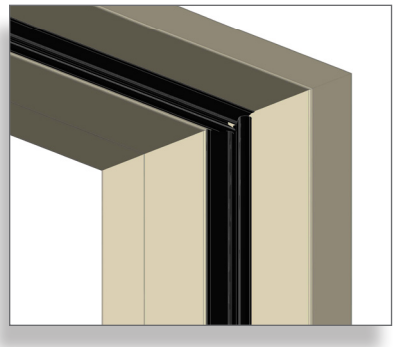
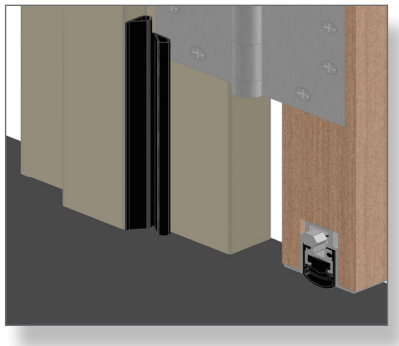
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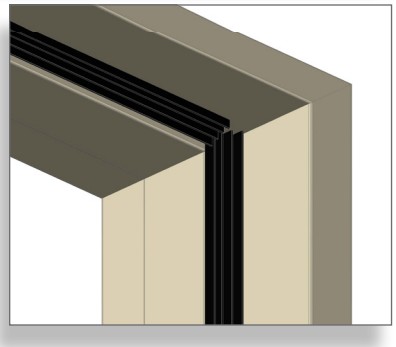
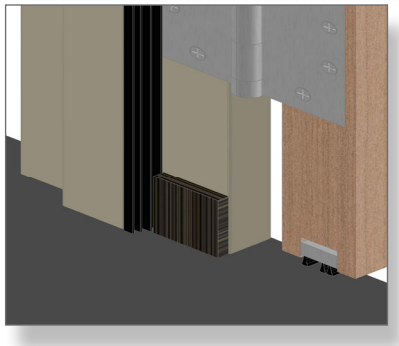
Gasket System B

- Double row Pemko S-88 adhesive gasketing
- Pemko 434 automatic door bottom
- Required Undercut - 1/4”

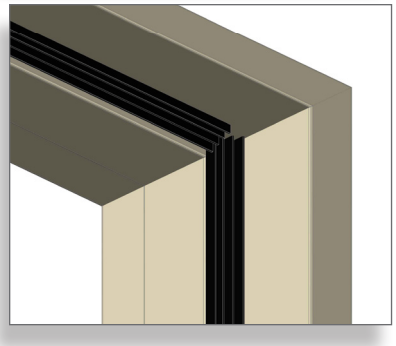
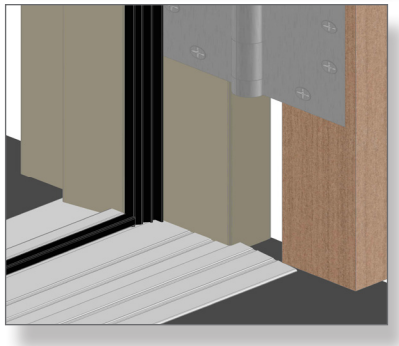
Gasket System I

- Double row Pemko S-88 adhesive gasketing
- Zero 369 automatic door bottom
- Required Undercut - 5/8”

Gasket System N

- DHSI 105 - “Cush ‘N’ Seal”
- DHSI AMDB3-3 - Adjustable Mortise Door Bottom
- DHSI DP - Decibel Plug
- Required Undercut - 1/4” to 3/8”

Gasket System Q

- DHSI 105 - “Cush ‘N’ Seal”
- Pemko 2005 raised threshold
- Required Undercut - 3/8”

Please Note - Eggers’ standard offering for the Pemko 434 is the ARL seal and for the Pemko 2005 is the AT seal.

DHSI DP - Decibel Plugs
DP .375 (3/8”) - Solid Wood Edge Option (SWE)
DP .250 (1/4”) - Full width mortise
Please see www.dhsi-seal.com for more information on DHSI seals and gaskets.

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TECH SHEET
STC 31, 32, 33, 37

SGSCL

Eggers Industries

Soundwood™

ACOUSTICAL WOOD PRODUCTS BY EGGERS

ENGINEERING SPECIFICATIONS

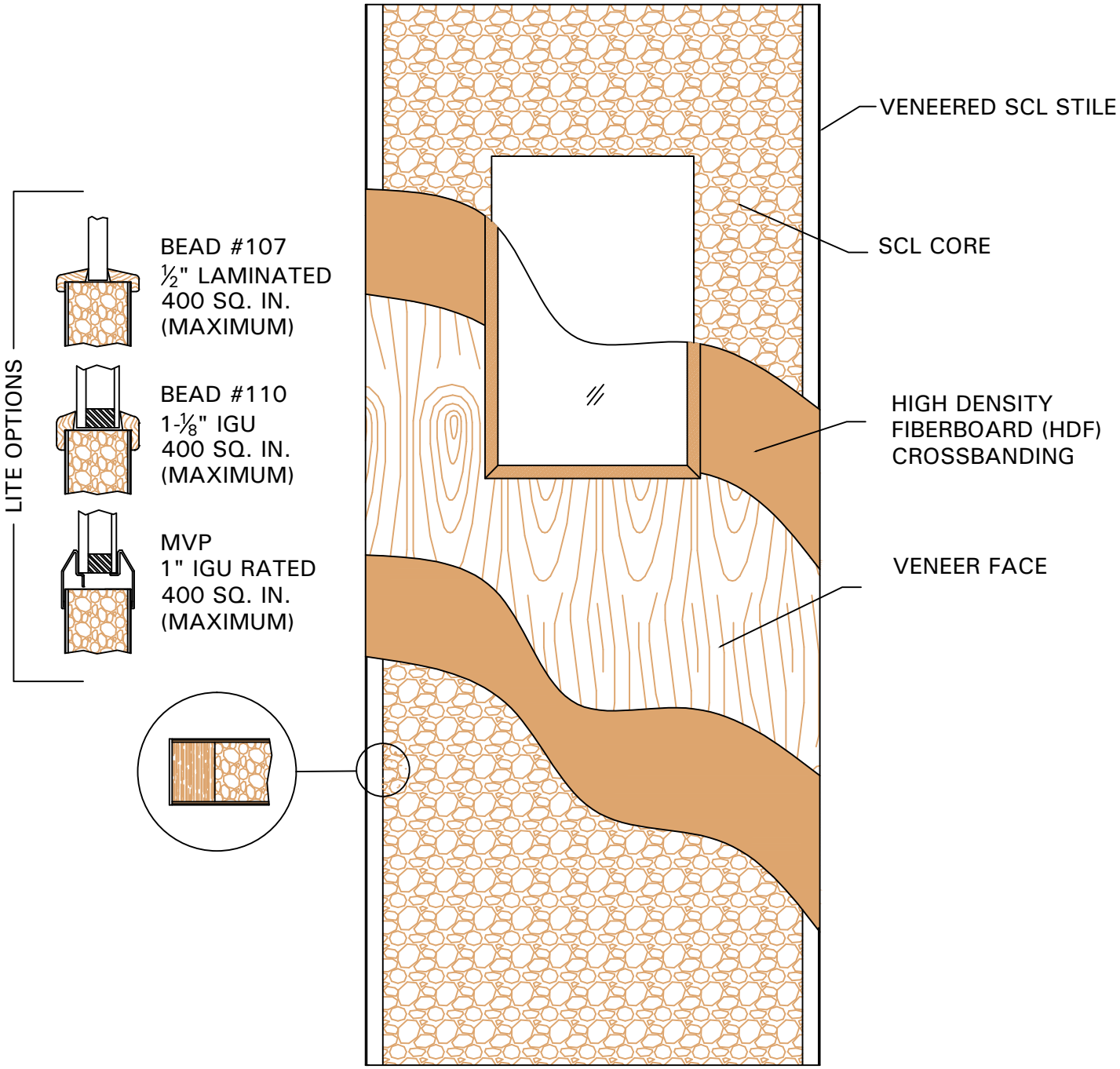
Sizes: Min. 2'-0" x 6'-0", Max. 4'-0" x 10'-0"
Thickness: 1-3/4"
Frame: Tested in grouted steel frame, must be installed in frame that will maintain the acoustical rating
Stiles: Meets WDMA Extra Heavy Duty I.S. 1A Performance Level
Faces: Wood Veneers, MDO, High-Pressure Decorative Laminate, Vinyl
Latching Hardware: Single Point Latch
Hinges: Level Swing - Butt Hinges
LEED® Contributions: MR4 - Recycled Content, EQ4.4 - No Added Urea-Formaldehyde
Standards ASTM E90, E413

SINGLE SWING FLUSH DOORS	STC 32					STC 33	STC 37
Fire-Rating	N/A		20-Minute			20-Minute	N/A
Lites	Bead: 110 1-1/8" NR IGU 400 sq. in. max	Bead: 107 1/2" Laminated	N/A		MVP 1" Rated IGU 400 sq. in. max	N/A	Bead: 110 1-1/8" NR IGU Full Lite - 47% min. area
Gasket System	I			N	I	Q	I
Test Report	TL06-059 TL03-013	TL06-059 TL03-012	TL06-059	100534284CRT-001b	TL06-059 TL97-313	100534284CRT-001n	TL05-052
Weight Per Square Foot	6.9 lbs.					6.9 lbs.	5.9 lbs.

ACTIVE ACTIVE PAIRED FLUSH DOORS	STC 31
Fire-Rating	20-Minute
Lites	N/A
Gasket System	K
Test Report	TL11-112
Weight Per Square Foot	6.4 lbs.

* Test conducted with top latching surface hardware.

SPECIALTY FLUSH DOORS	STYLUS FLUSH
	STC 32
Fire-Rating	20-Minute
Lites	N/A
Gasket System	I
Test Report	TL07-057
Weight Per Square Foot	6.2 lbs.



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Stile and Rail Doors, Door Frames
Veneered Components, Plywood

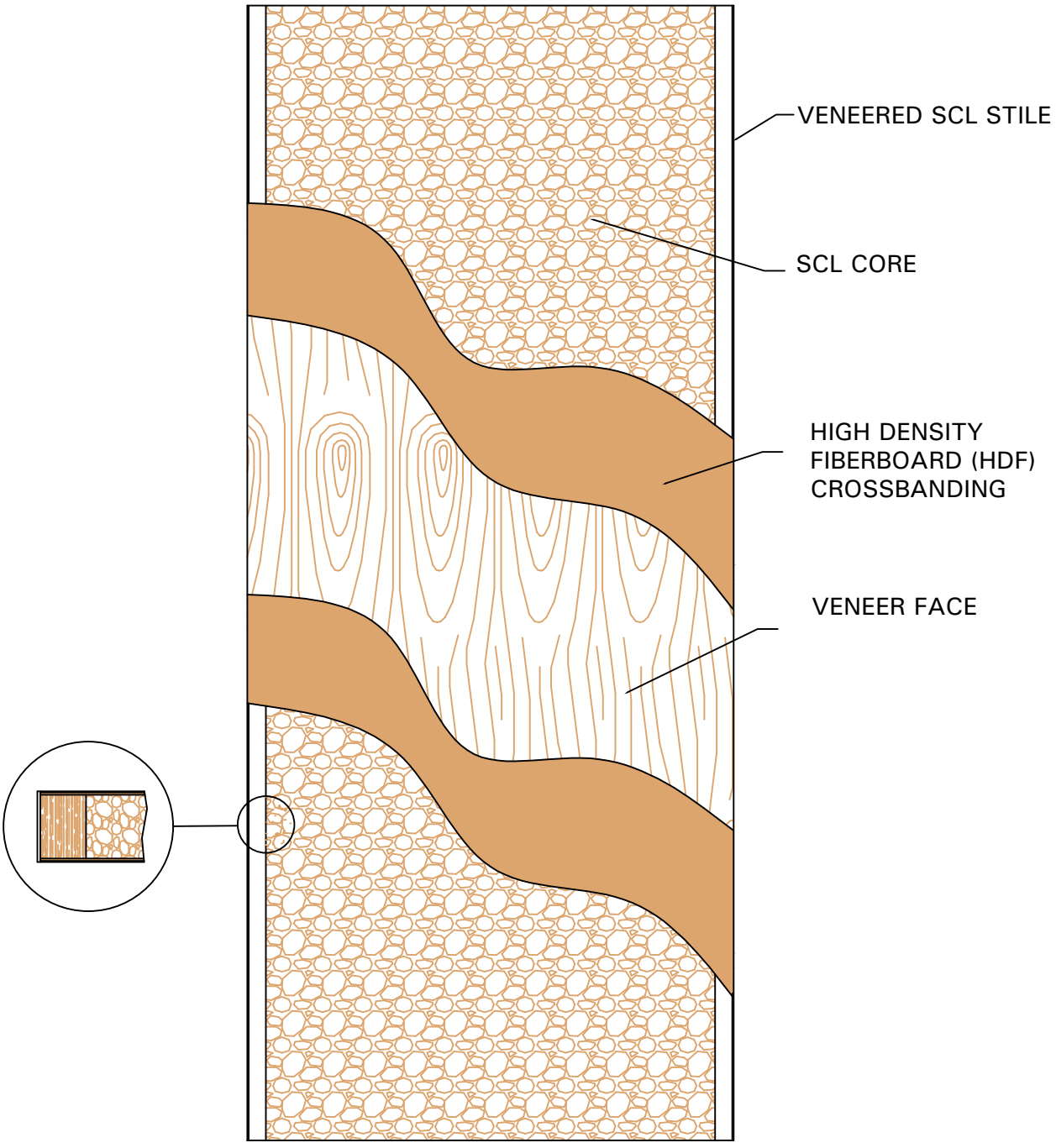
Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

Flush Doors

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Neenah, WI 54956
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Fax: 920.722.0357

Architectural Veneer Faces,
Custom Wood Products, Plywood

Kentucky Division
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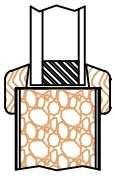
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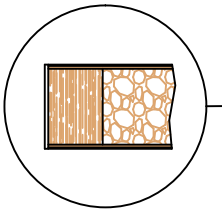
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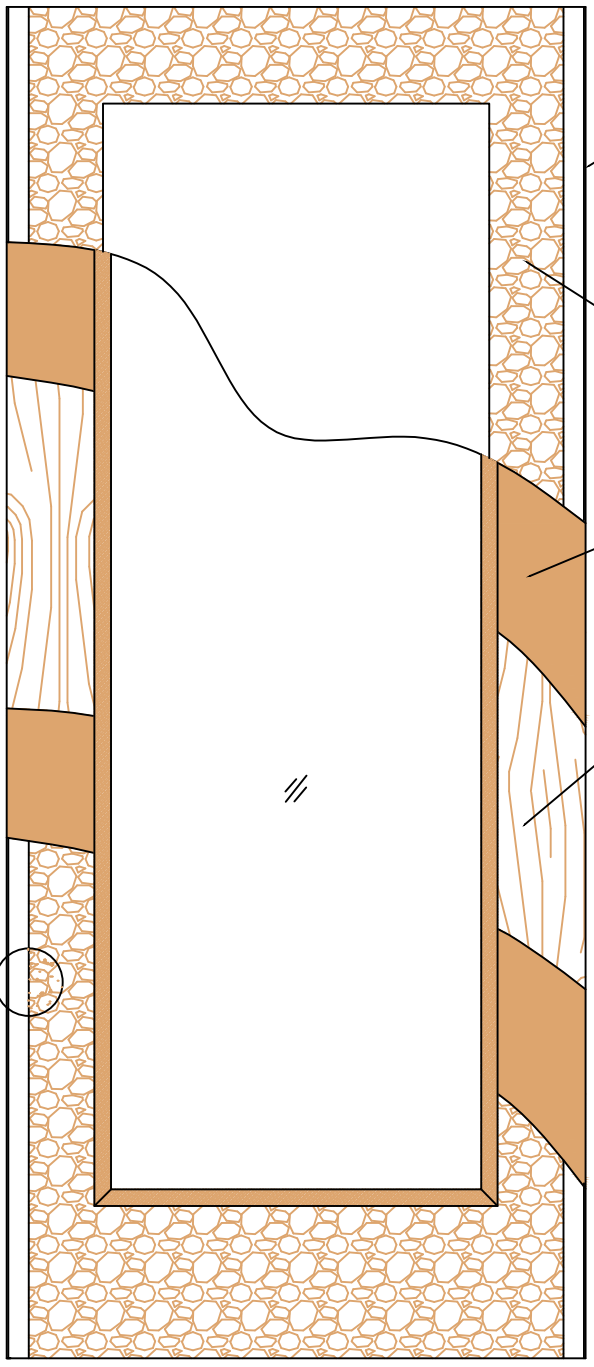
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LITE REQUIREMENT



BEAD #110
1-⅛" IGU
47% MINIMUM
AREA





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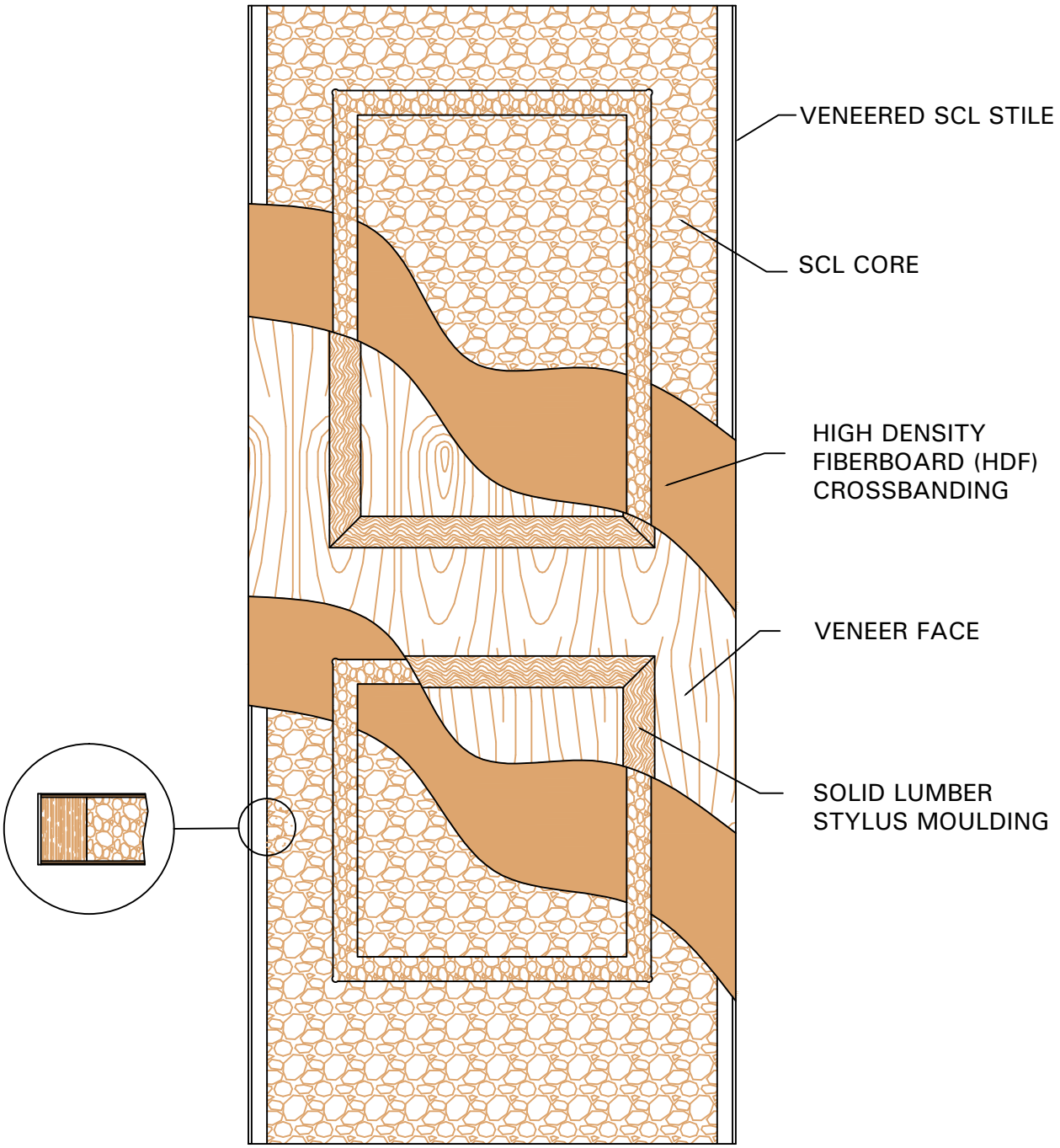
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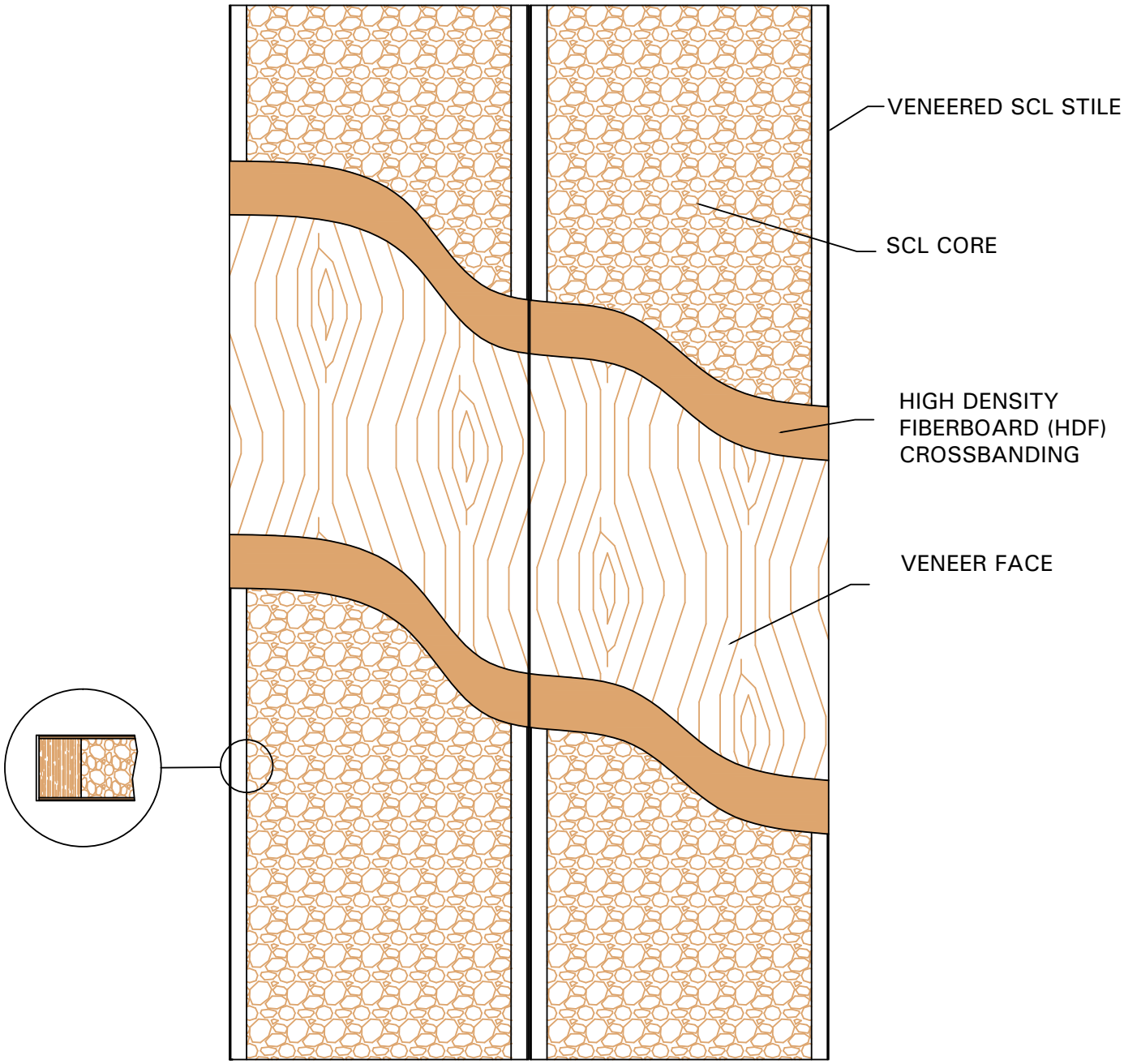
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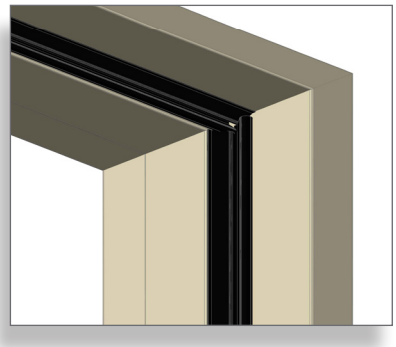
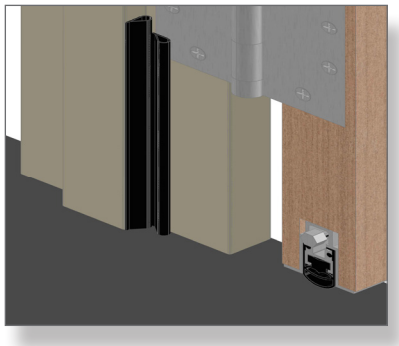
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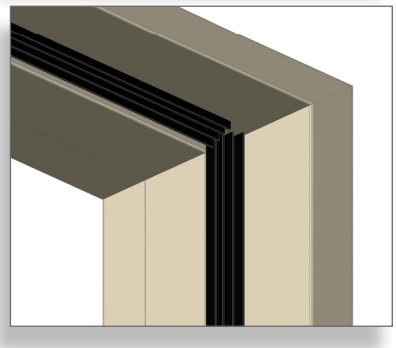
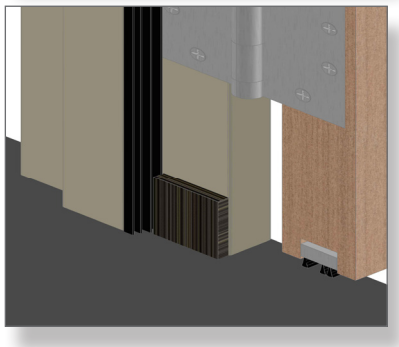
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Gasket System I

- Double row Pemko S-88 adhesive gasketing
- Zero 369 automatic door bottom
- Required Undercut - 5/8”

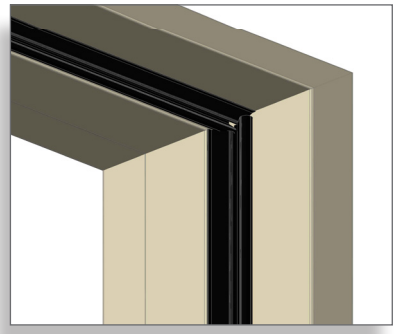
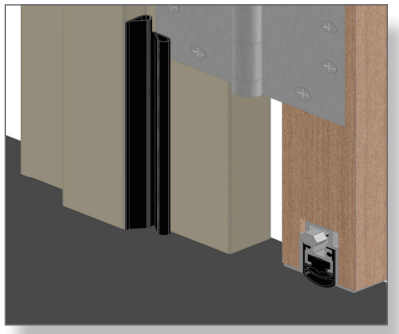
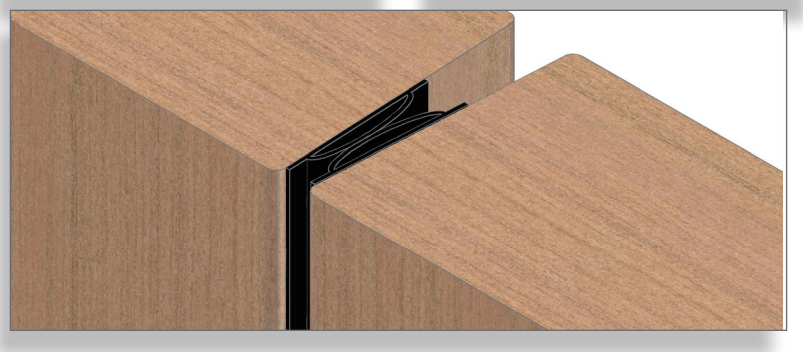



Gasket System N

- DHSI 105 - “Cush ‘N’ Seal”
- DHSI AMDB3-3 - Adjustable Mortise Door Bottom
- DHSI DP - Decibel Plug
- Required Undercut - 1/4” to 3/8”

Please Note - Eggers’ standard offering for the Pemko 434 is the ARL seal and for the Pemko 2005 is the AT seal.

DHSI DP - Decibel Plugs
DP .375 (3/8”) - Solid Wood Edge Option (SWE)
DP .250 (1/4”) - Full width mortise
Please see www.dhsi-seal.com for more information on DHSI seals and gaskets.

Gasket System K

- Double row Pemko S-88 adhesive gasketing and pad[1] on frame
- Zero 369 automatic door bottom
- Pemko S-1125 (proprietary) adhesive gasketing on each meeting edge
- Required Undercut - 5/8”

[1]Eggers used a 1/4” adhesive-backed foam pad.

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Stile and Rail Doors, Door Frames
Veneered Components, Plywood

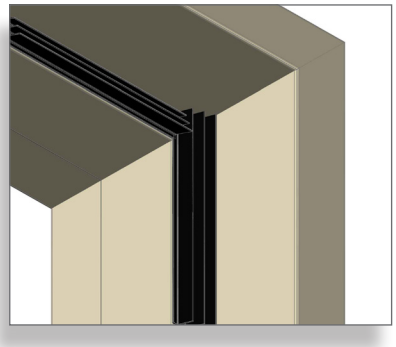
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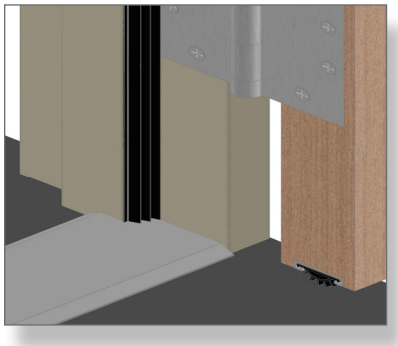
Flush Doors

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Gasket System O

- Pemko 773 adhesive gasketing
- Pemko 234 door shoe
- 1/4” flat smooth threshold (i.e. Pemko 151)
- Required Undercut - 3/8”

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TECH SHEET	SGAGR	Eggers Industries
STC 27		

Soundwood™
ACOUSTICAL WOOD PRODUCTS BY EGGERS

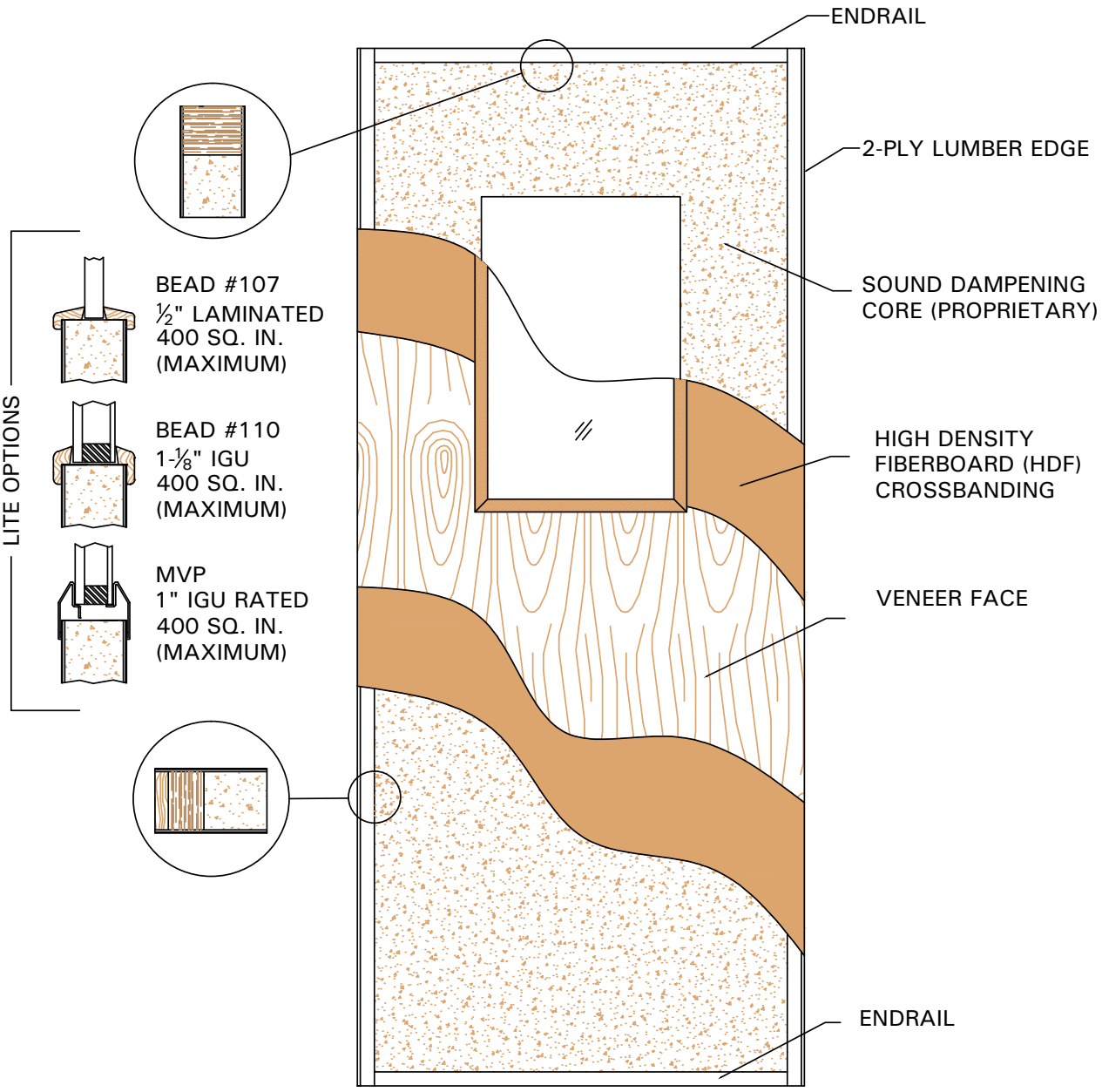
ENGINEERING SPECIFICATIONS

Sizes: Min. 2'-0" x 6'-0", Max. 4'-0" x 8'-0"
Thickness: 1-3/4"
Frame: Tested in grouted steel frame, must be installed in frame that will maintain the acoustical rating
Stiles: Meets WDMA Extra Heavy Duty I.S. 1A Performance Level
Faces: Wood Veneers, MDO, High-Pressure Decorative Laminate, Vinyl
Latching Hardware: Single Point Latch
Hinges: Level Swing - Butt Hinges
LEED® Contributions: MR4 - Recycled Content, EQ4.4 - No Added Urea-Formaldehyde, MR6 - Rapidly Renewable Materials
Standards ASTM E90, E413

SINGLE SWING FLUSH DOORS	STC 27			
Fire-Rating	N/A		20-Minute	
Lites	Bead: 110 1-1/8" NR IGU 400 sq. in. max	Bead: 107 1/2" Laminated 400 sq. in. max	N/A	MVP 1" Rated IGU 400 sq. in. max
Gasket System	I			
Test Report	TL07-035 TL03-013	TL07-035 TL03-012	TL07-035	TL07-035 TL97-313
Weight Per Square Foot	4.9 lbs.			

PERFORMANCE DESCRIPTION:

STC RATING	WHAT CAN BE HEARD THROUGH THE DOOR
20 - 25	Very poor - Low speech audible
25 - 30	Poor - Normal speech understood easily and distinctly
30 - 35	Fair - Loud speech understood fairly well
35 - 40	Good - Loud speech heard but hardly intelligible, this is the onset of acoustic "privacy"
40 - 50	Very Good - Loud speech heard faintly, 90% of a typical group sample not annoyed
50 - 52	Excellent - Loud sounds heard faintly or not at all, 99% of a typical group sample not annoyed



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Stile and Rail Doors, Door Frames
Veneered Components, Plywood

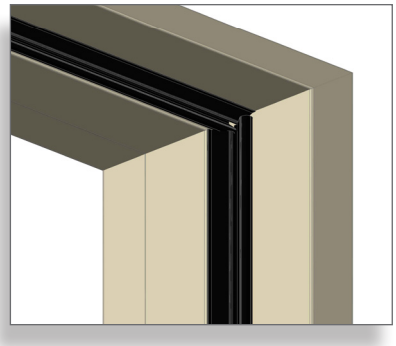
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Custom Wood Products, Plywood

Kentucky Division
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Smithfield, KY 40068
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Gasket System I

- Double row Pemko S-88 adhesive gasketing
- Zero 369 automatic door bottom
- Required Undercut - 5/8”

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TECH SHEET	SGMC	Eggers Industries
STC 29, 31, 34		

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ACOUSTICAL WOOD PRODUCTS BY EGGERS

ENGINEERING SPECIFICATIONS

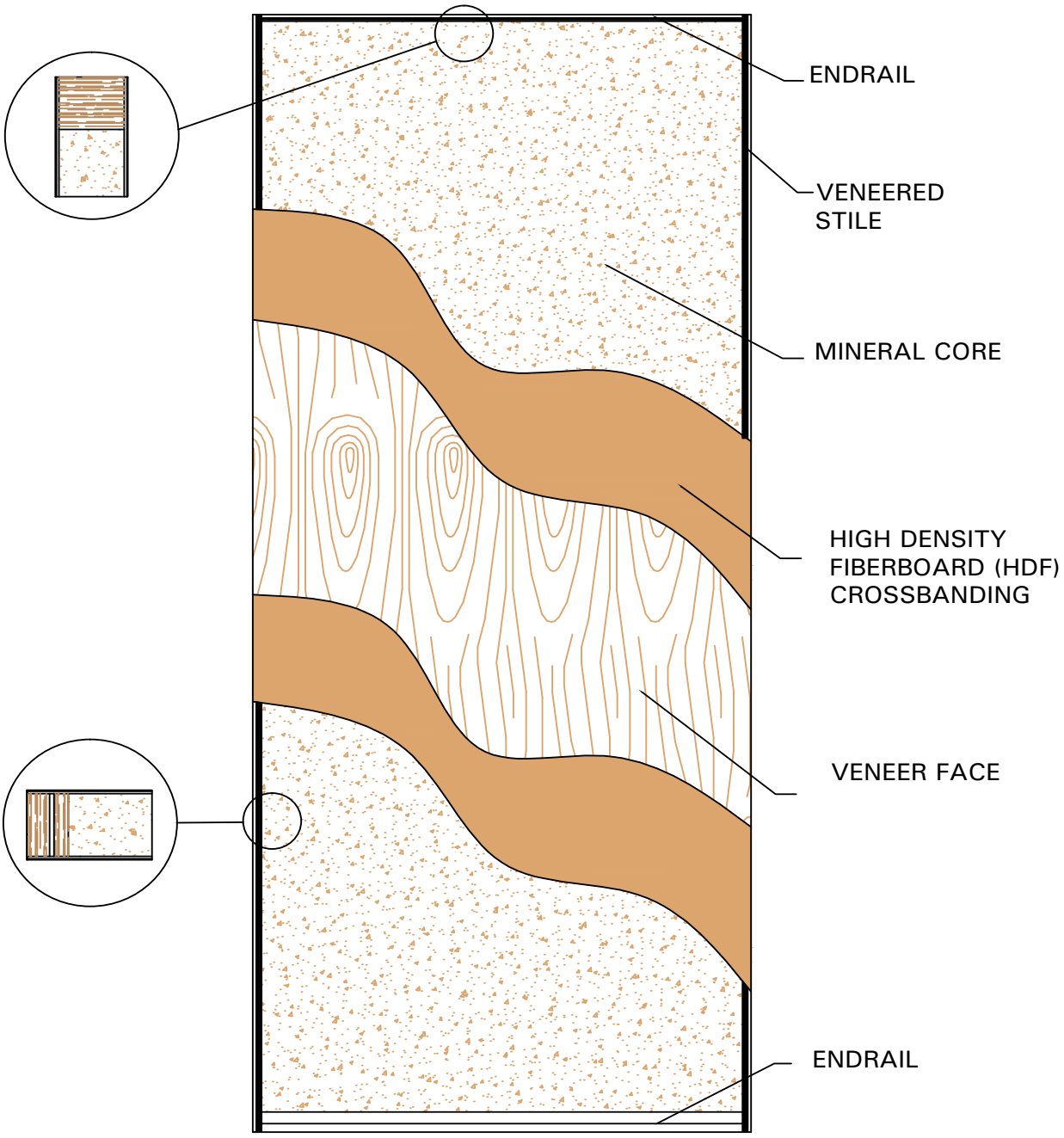
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Frame: Tested in grouted steel frame, must be installed in frame that will maintain the acoustical rating
Stiles: Meets WDMA Extra Heavy Duty I.S. 1A Performance Level
Faces: Wood Veneers, MDO, High-Pressure Decorative Laminate, Vinyl
Latching Hardware: Single Point Latch
Hinges: Level Swing - Butt Hinges
LEED® Contributions: MR4 - Recycled Content, EQ4.4 - No Added Urea-Formaldehyde
Standards: ASTM E90, E413

SINGLE SWING FLUSH DOORS	STC 29
Fire-Rating	45-60-90-Minute
Lites	N/A
Gasket System	I
Test Report	TL06-057
Weight Per Square Foot	4.4 lbs.

ACTIVE ACTIVE PAIRED FLUSH DOORS	STC 34
Fire-Rating	45-Minute
Lites	VP: Lo-Pro IS Superlite II-XL-45 Full Lite - 47% of area
Gasket System	K
Test Report	TL11-111
Weight Per Square Foot	6.5 lbs.

* Test conducted as an active/active pair with top latching surface hardware.

SPECIALTY FLUSH DOORS	STYLUS FLUSH
	STC 31
Fire-Rating	45-60-90-Minute
Lites	N/A
Gasket System	I
Test Report	TL06-057
Weight Per Square Foot	4.4 lbs.



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Stile and Rail Doors, Door Frames
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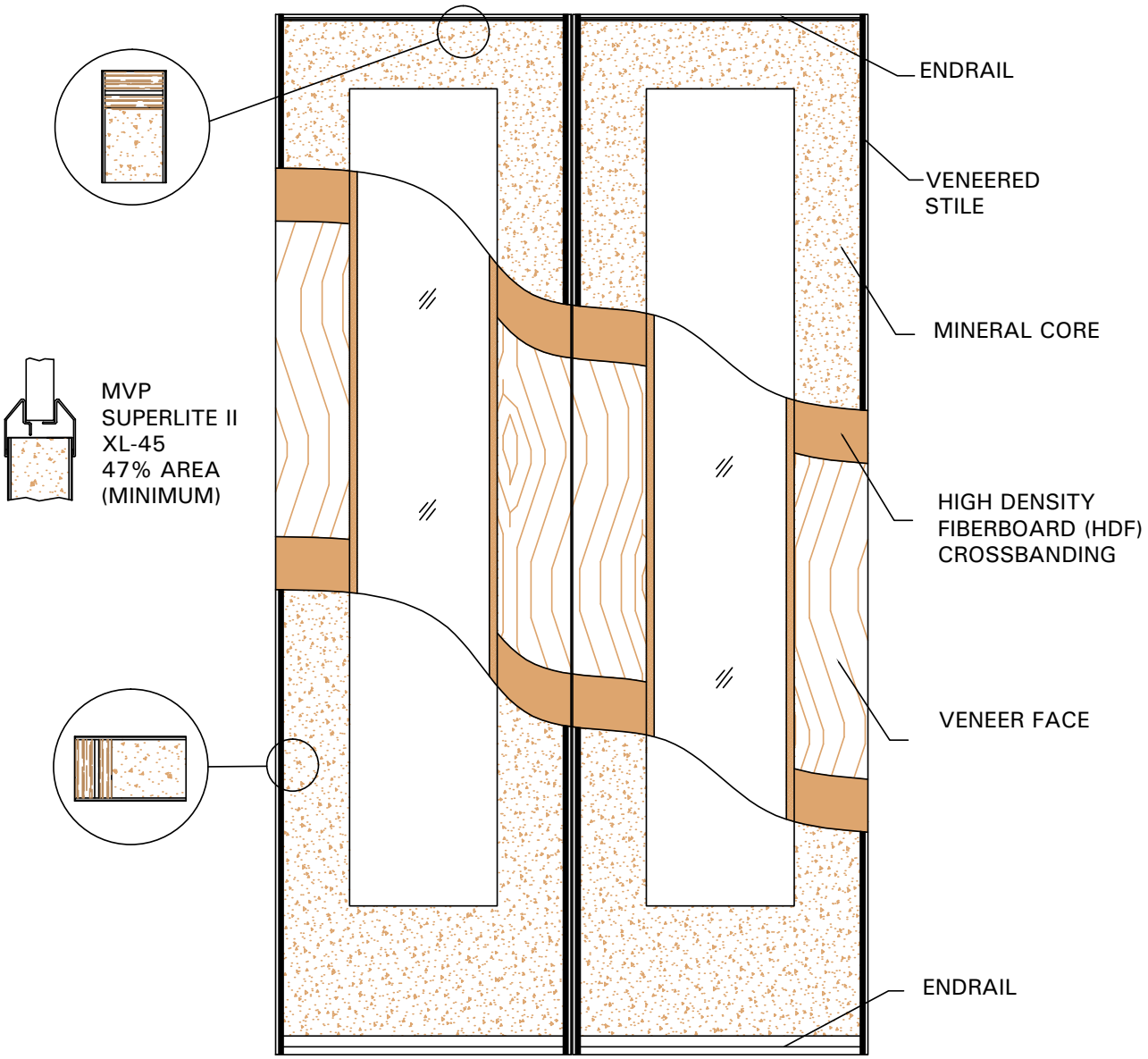
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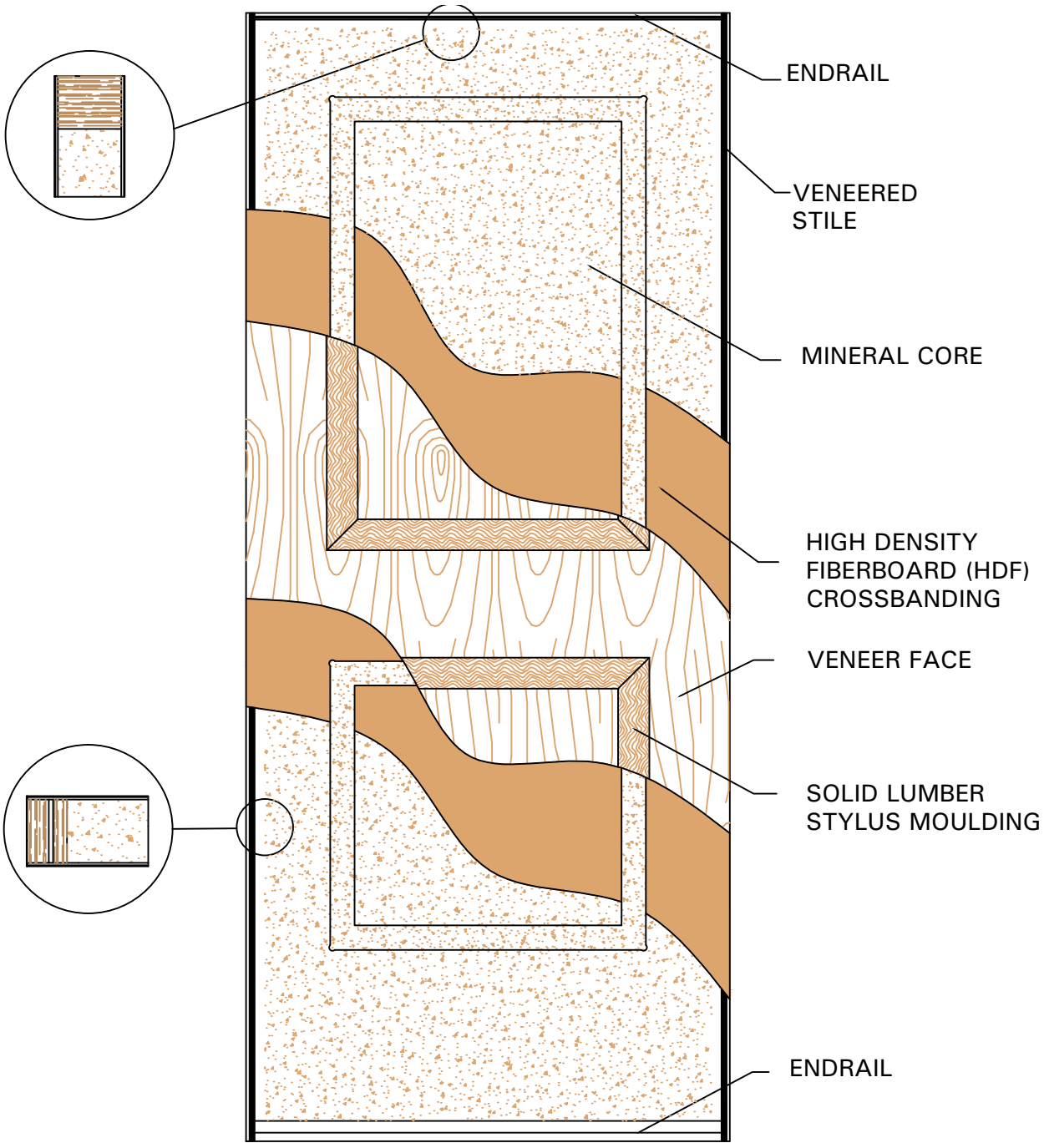
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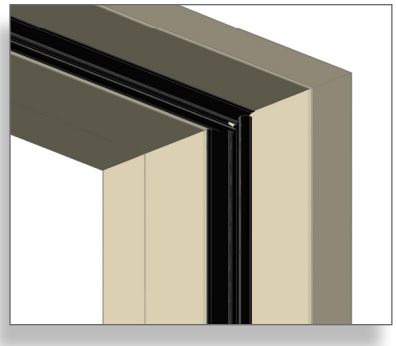
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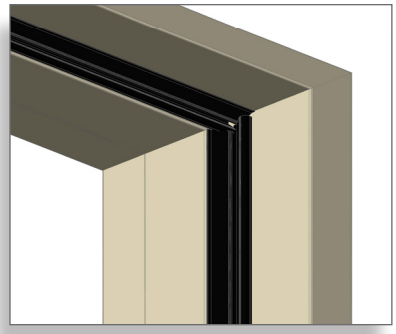
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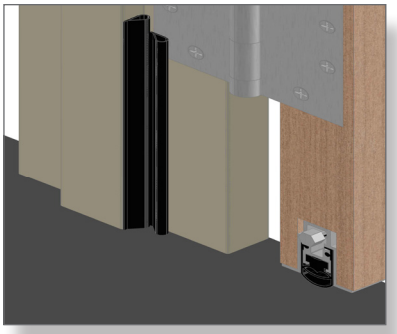


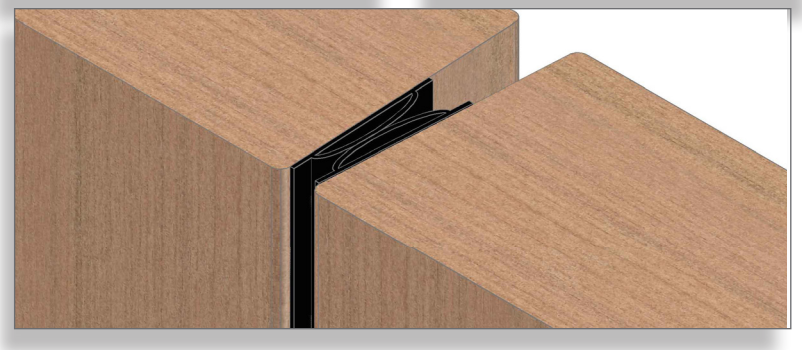


Gasket System I

- Double row Pemko S-88 adhesive gasketing
- Zero 369 automatic door bottom
- Required Undercut - 5/8”







Gasket System K

- Double row Pemko S-88 adhesive gasketing and pad[1] on frame
- Zero 369 automatic door bottom
- Pemko S-1125 (proprietary) adhesive gasketing on each meeting edge
- Required Undercut - 5/8”

[1]Eggers used a 1/4” adhesive-backed foam pad.

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TECH SHEET	SGGC	Eggers Industries
STC 31, 35		

Soundwood™
ACOUSTICAL WOOD PRODUCTS BY EGGERS

ENGINEERING SPECIFICATIONS

Sizes: Min. 2'-0" x 6'-0", Max. 4'-0" x 10'-0"
Thickness: 1-3/4"
Frame: Tested in grouted steel frame, must be installed in frame that will maintain the acoustical rating
Stiles: Meets WDMA Extra Heavy Duty I.S. 1A Performance Level
Faces: Wood Veneers, MDO, High-Pressure Decorative Laminate, Vinyl
Latching Hardware: Single Point Latch
Hinges: Level Swing - Butt Hinges
LEED® Contributions: MR4 - Recycled Content, EQ4.4 - No Added Urea-Formaldehyde
Standards: ASTM E90, E413

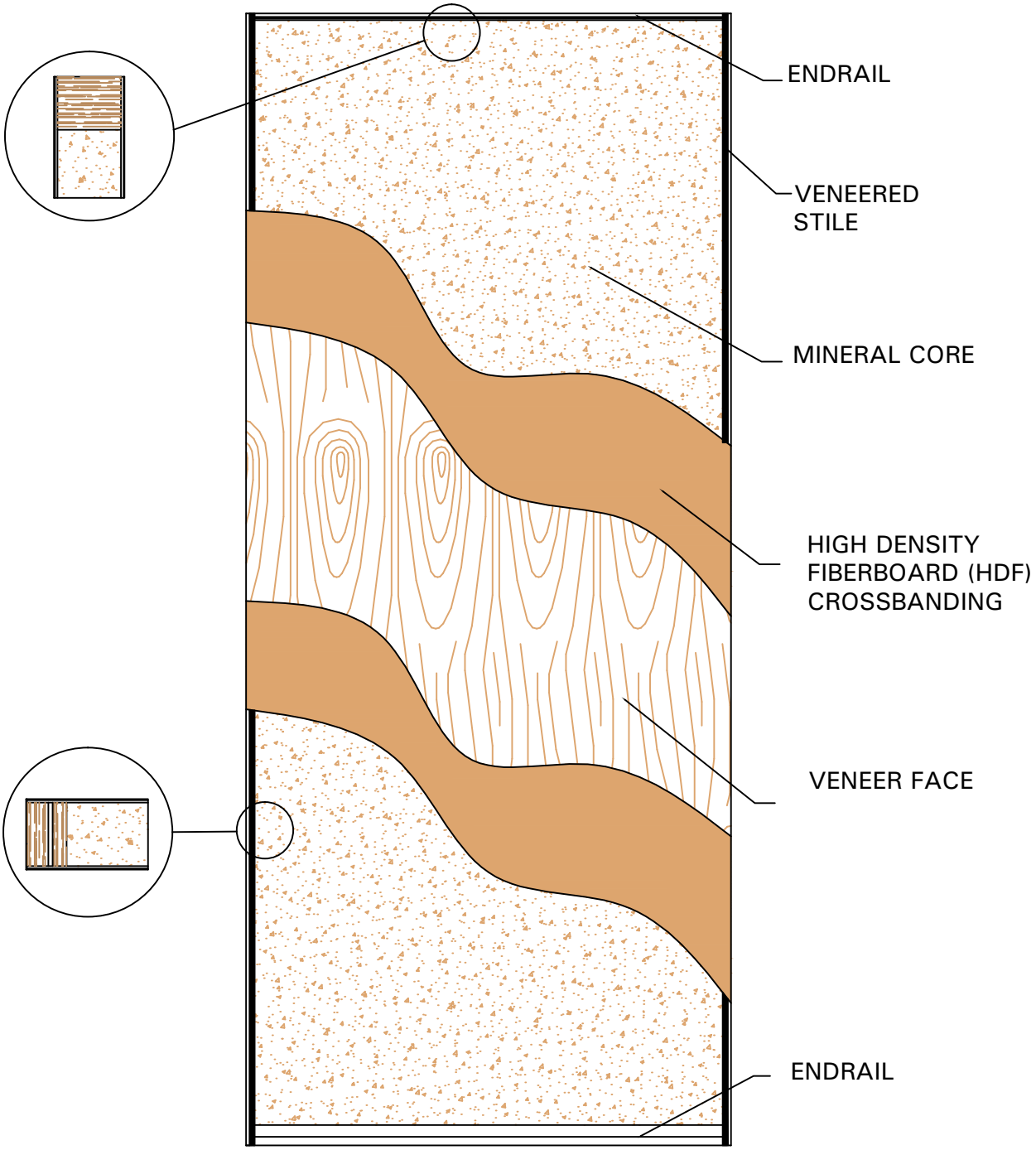
SINGLE SWING FLUSH DOORS	STC 35
Fire-Rating	45-60-90-Minute
Lites	N/A
Gasket System	R
Test Report	A5305.02-113-11
Weight Per Square Foot	7.2 lbs.

ACTIVE-ACTIVE PAIRED FLUSH DOORS	STC 31
Fire-Rating	45-60-90-Minute
Lites	N/A
Gasket System	K
Test Report	TL11-110
Weight Per Square Foot	7.2 lbs.

* Test conducted as an active/active pair with top latching surface hardware.

PERFORMANCE DESCRIPTION

STC RATING	WHAT CAN BE HEARD THROUGH THE DOOR
20 - 25	Very poor - Low speech audible
25 - 30	Poor - Normal speech understood easily and distinctly
30 - 35	Fair - Loud speech understood fairly well
35 - 40	Good - Loud speech heard but hardly intelligible, this is the onset of acoustic "privacy"
40 - 50	Very Good - Loud speech heard faintly, 90% of a typical group sample not annoyed
50 - 52	Excellent - Loud sounds heard faintly or not at all, 99% of a typical group sample not annoyed



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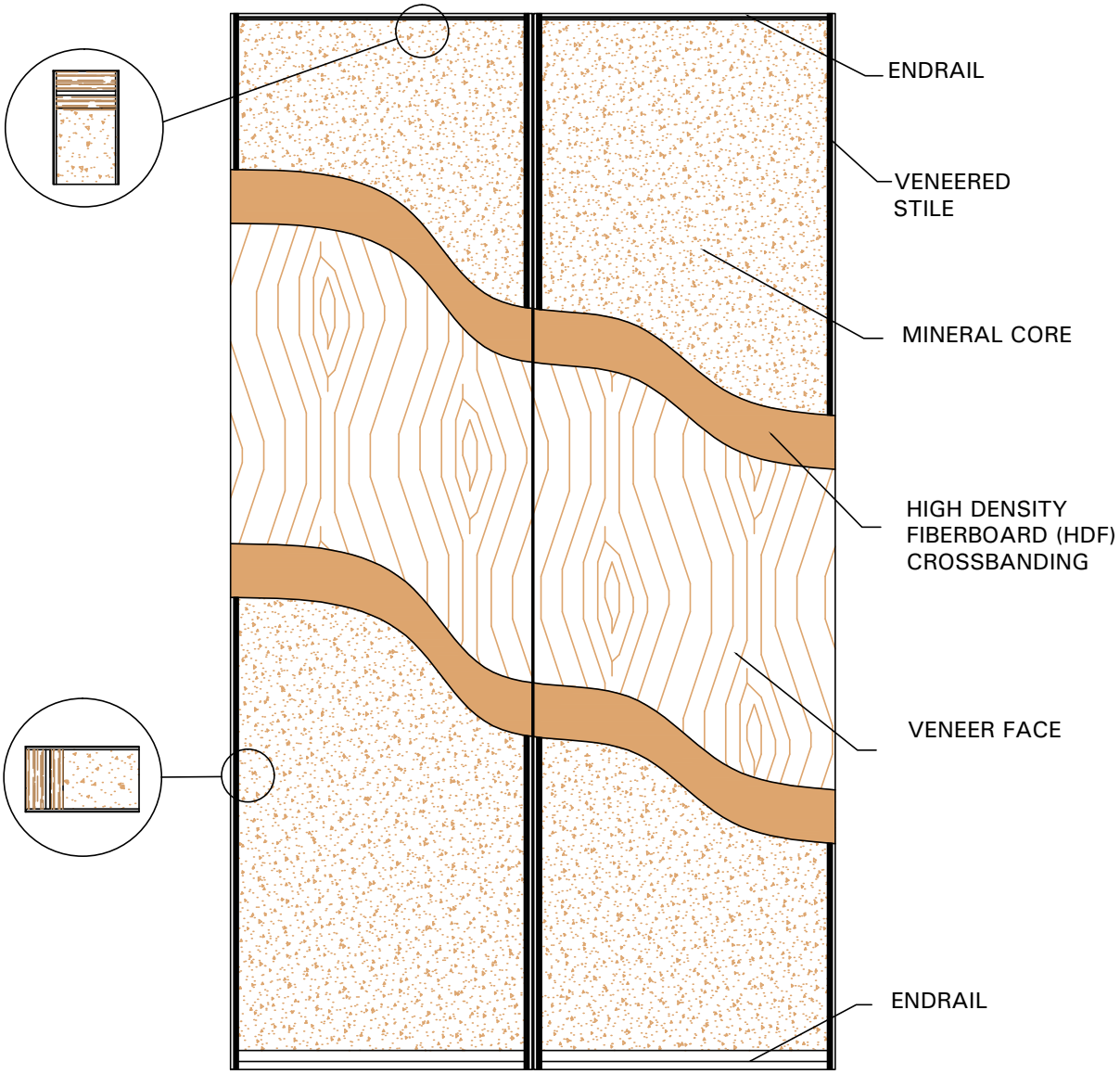
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Fax: 920.793.2958

Flush Doors

Neenah Division
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Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces,
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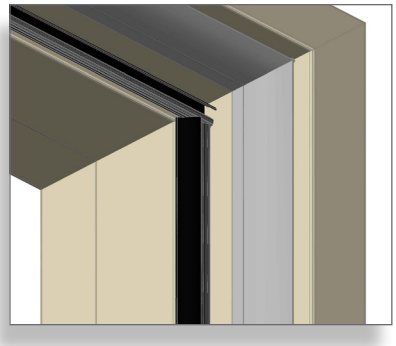
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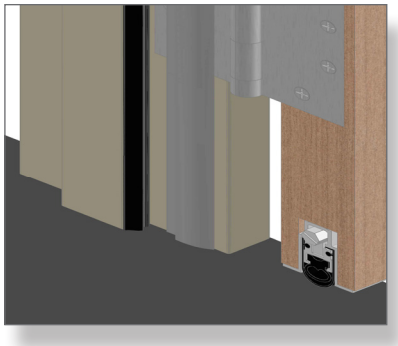
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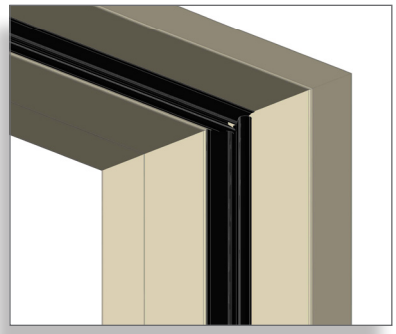
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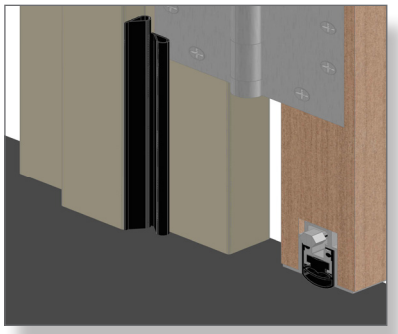


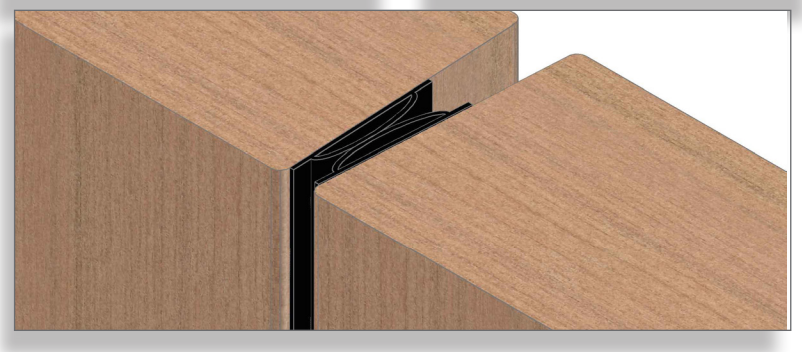


Gasket System R

- Zero 119W bronze cushion spring
- Zero 8145S adhesive door seal
- Zero 369 automatic door bottom
- Required Undercut - 5/8”







Gasket System K

- Double row Pemko S-88 adhesive gasketing and pad[1] on frame
- Zero 369 automatic door bottom
- Pemko S-1125 (proprietary) adhesive gasketing on each meeting edge
- Required Undercut - 5/8”

[1]Eggers used a 1/4” adhesive-backed foam pad.

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TECH SHEET	SGBR3	Eggers Industries
STC 35		

Soundwood™
ACOUSTICAL WOOD PRODUCTS BY EGGERS

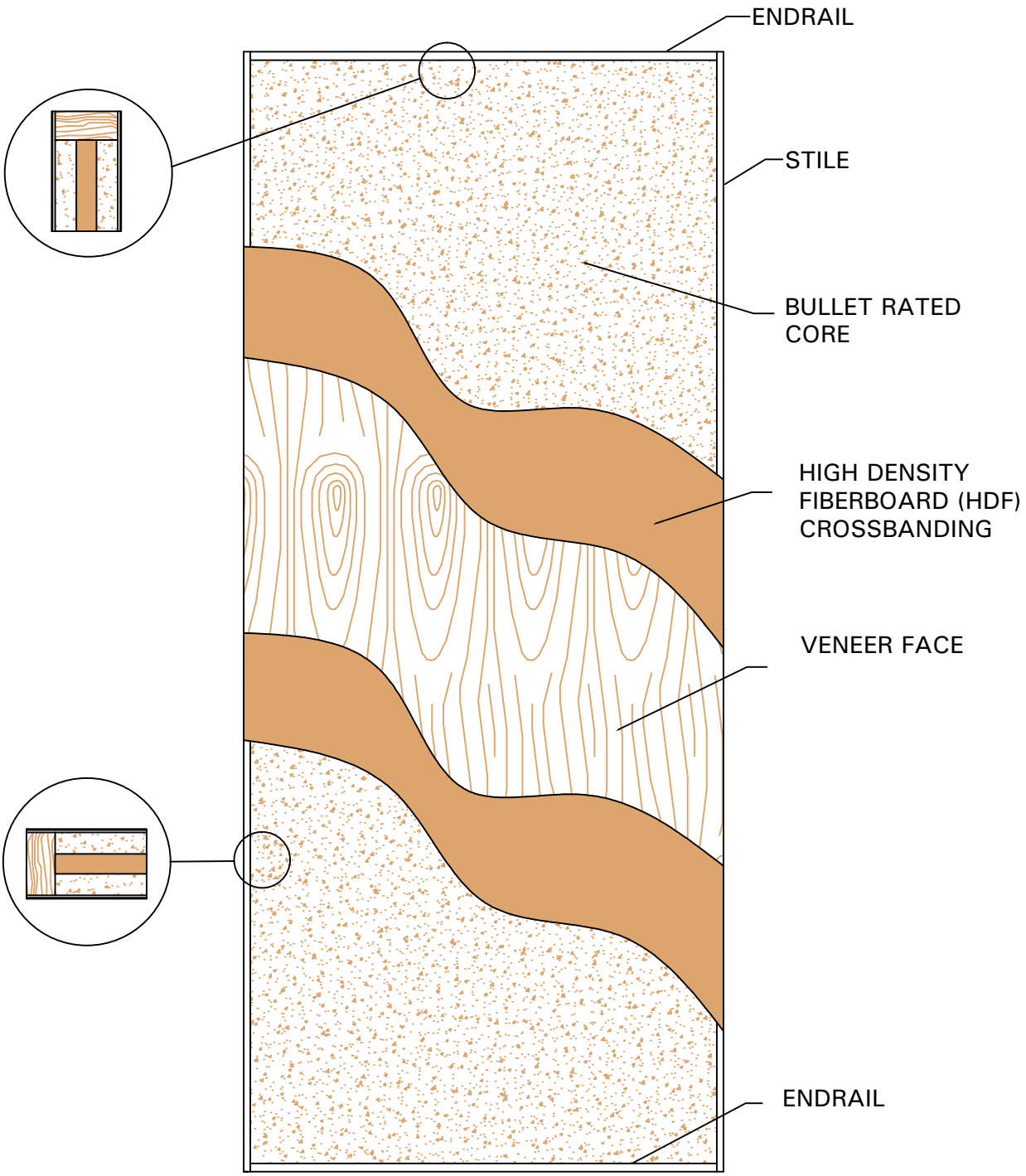
ENGINEERING SPECIFICATIONS

Sizes: Min. 2'-0" x 6'-0", Max. 4'-0" x 10'-0"
Thickness: 1-3/4"
Frame: Tested in grouted steel frame, must be installed in frame that will maintain the acoustical rating
Stiles: Meets WDMA Extra Heavy Duty I.S. 1A Performance Level
Faces: Wood Veneers, MDO, High-Pressure Decorative Laminate, Vinyl
Latching Hardware: Single Point Latch
Hinges: Level Swing - Butt Hinges
LEED® Contributions: MR4 - Recycled Content, EQ4.4 - No Added Urea-Formaldehyde
Standards: ASTM E90, E413

SINGLE SWING FLUSH DOORS	STC 35
Fire-Rating	20-Minute
Lites	N/A
Gasket System	M
Test Report	TL10-142
Weight Per Square Foot	10.0 lbs.

PERFORMANCE DESCRIPTION

STC RATING	WHAT CAN BE HEARD THROUGH THE DOOR
20 - 25	Very poor - Low speech audible
25 - 30	Poor - Normal speech understood easily and distinctly
30 - 35	Fair - Loud speech understood fairly well
35 - 40	Good - Loud speech heard but hardly intelligible, this is the onset of acoustic "privacy"
40 - 50	Very Good - Loud speech heard faintly, 90% of a typical group sample not annoyed
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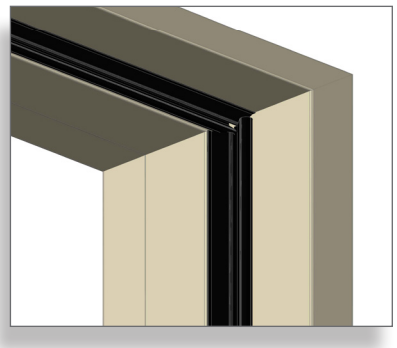
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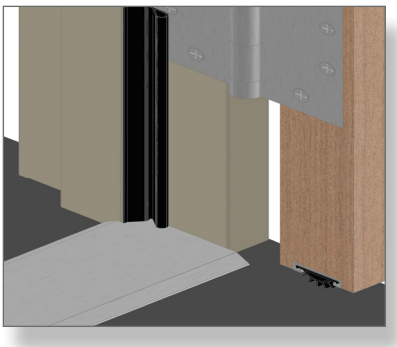
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Gasket System M

- Double row Pemko S-88 adhesive gasketing
- Pemko 234 door shoe
- 1/4” flat smooth threshold (i.e. Pemko 151)
- Required Undercut - 3/8”

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TECH SHEET	SG3	Eggers Industries
STC 36, 37, 38, 40, 41, 42		

Soundwood™

ACOUSTICAL WOOD PRODUCTS BY EGGERS

PRINCIPLE BENEFITS AND FEATURES OF THIS CONSTRUCTION

- Solid core feel
- Lead-free
- Available with a 20-minute fire rating
- LEED® MR4 - Recycled Content, MR7 - Certified Wood, EQ4.4 - No Added Urea-Formaldehyde

ENGINEERING SPECIFICATIONS

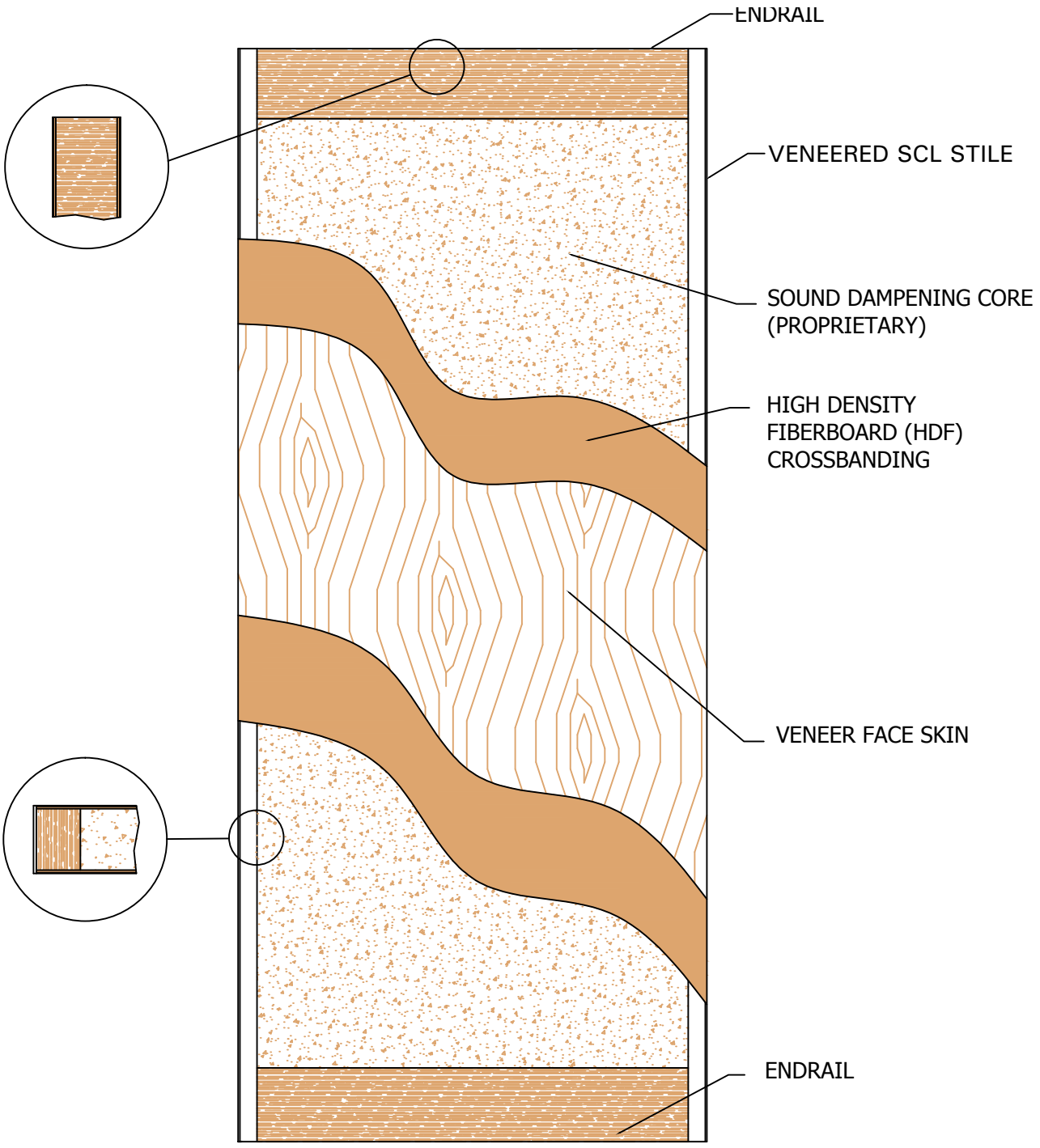
Sizes: Min. 2'-0" x 6'-0", Max. 4'-0" x 8'-0"
Thickness: 1-3/4"
Frame: Tested in grouted steel frame, must be installed in frame that will maintain the acoustical rating
Stiles: Meets WDMA Extra Heavy Duty I.S. 1A Performance Level
Faces: Wood Veneers, MDO, High-Pressure Decorative Laminate, Vinyl
Latching Hardware: Mortise, cylinder, rim exit or mortised exit for single swing; SVR-LBR for pairs
Hinges: Level Swing - Butt Hinges
LEED® Contributions: MR4 - Recycled Content, EQ4.4 - No Added Urea-Formaldehyde
Standards: ASTM E90, E413

SINGLE SWING FLUSH DOORS	STC 36	STC 37	STC 38[1]	STC 40	STC 41		STC 42[2]	
Fire-Rating	20-Minute	20-Minute	N/A	N/A	N/A		20-Minute	
Lites	N/A	Bead: 100 Firelite Plus 400 sq. in. max	Bead: 107 1/2" Laminated 1,296 sq. in. min	Bead: 110 1-1/8" NR IGU 1,296 sq. in. max	Bead: 107 1/2" Laminated	Bead: 110 1-1/8" NR IGU	N/A	
					400 sq. in. max			
Gasket System	N	I	U	M	B		U	P
Test Report	100534284CRT-001f	TL05-51	C7672.01B	TL10-141	TL03-012	TL03-013	C5765.01	100534284CRT-001j
Weight Per. Square Foot	7.1 lbs.	6.0 lbs.	6.7 lbs.	6.7 lbs.	6.5 lbs.		7.1 lbs.	

[1] This construction is available with gasket system U with an STC 36-42. [2] This construction is available with gasket system U with an STC 36-38.

ACTIVE ACTIVE PAIRED FLUSH DOORS	STC 40	STC 41
Fire-Rating	N/A	20-Minute
Lites	Bead: 100 1/2" Laminated 400 sq. in. max	N/A
Gasket System	K	K
Test Report	TL08-009	TL08-007
Weight Per Square Foot	6.3 lbs.	6.2 lbs.

* Test conducted with top latching surface hardware.



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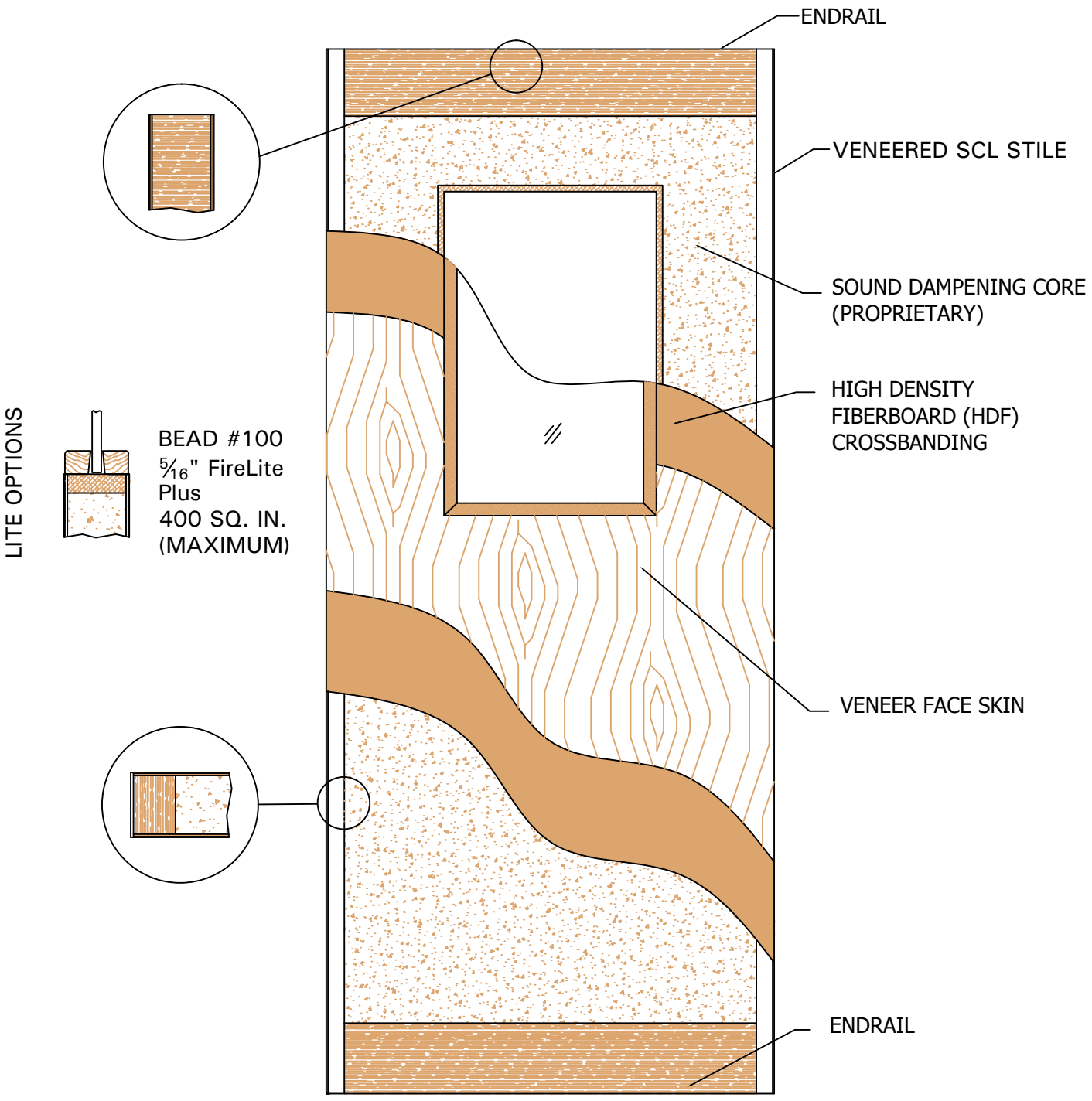
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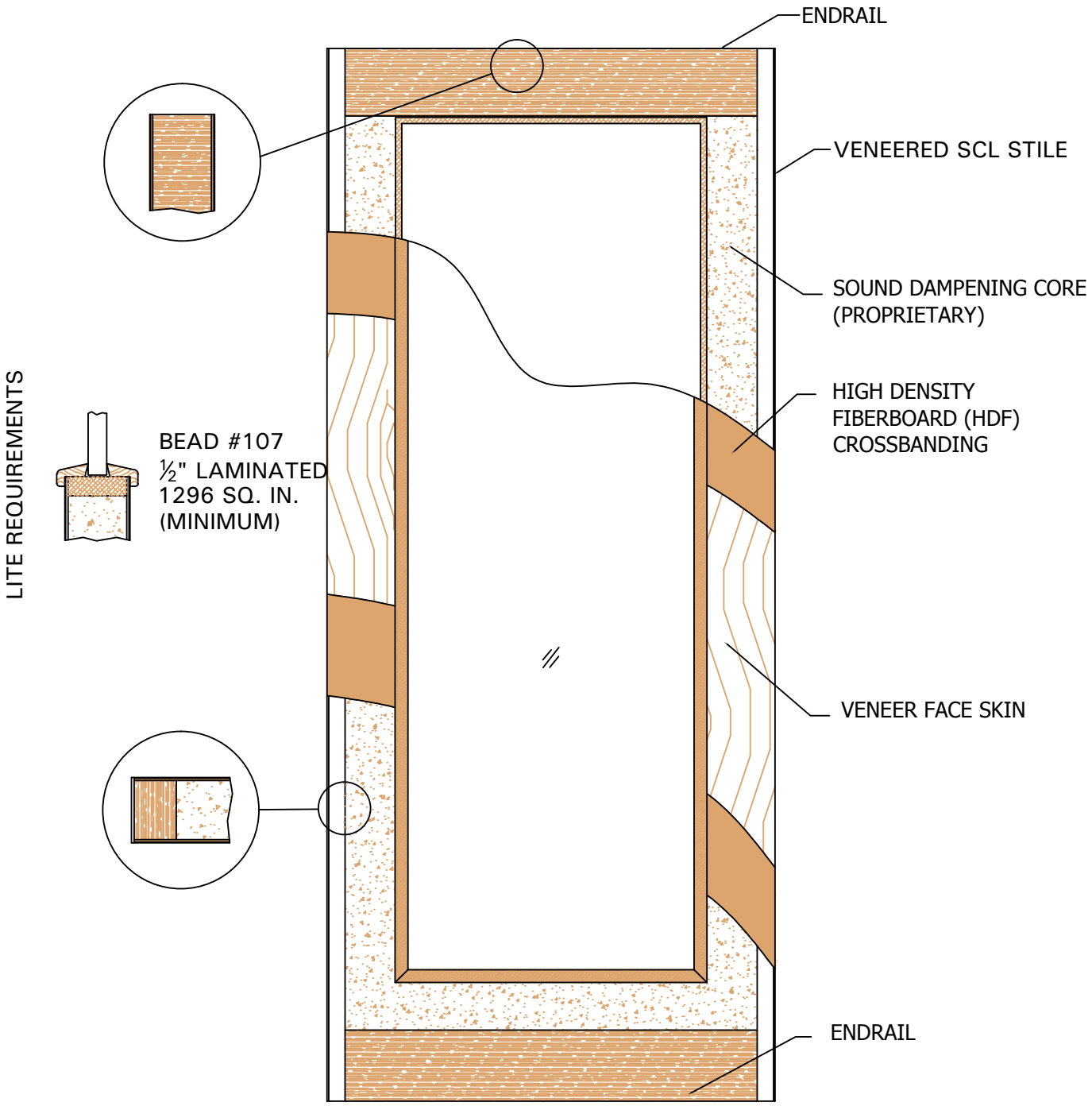
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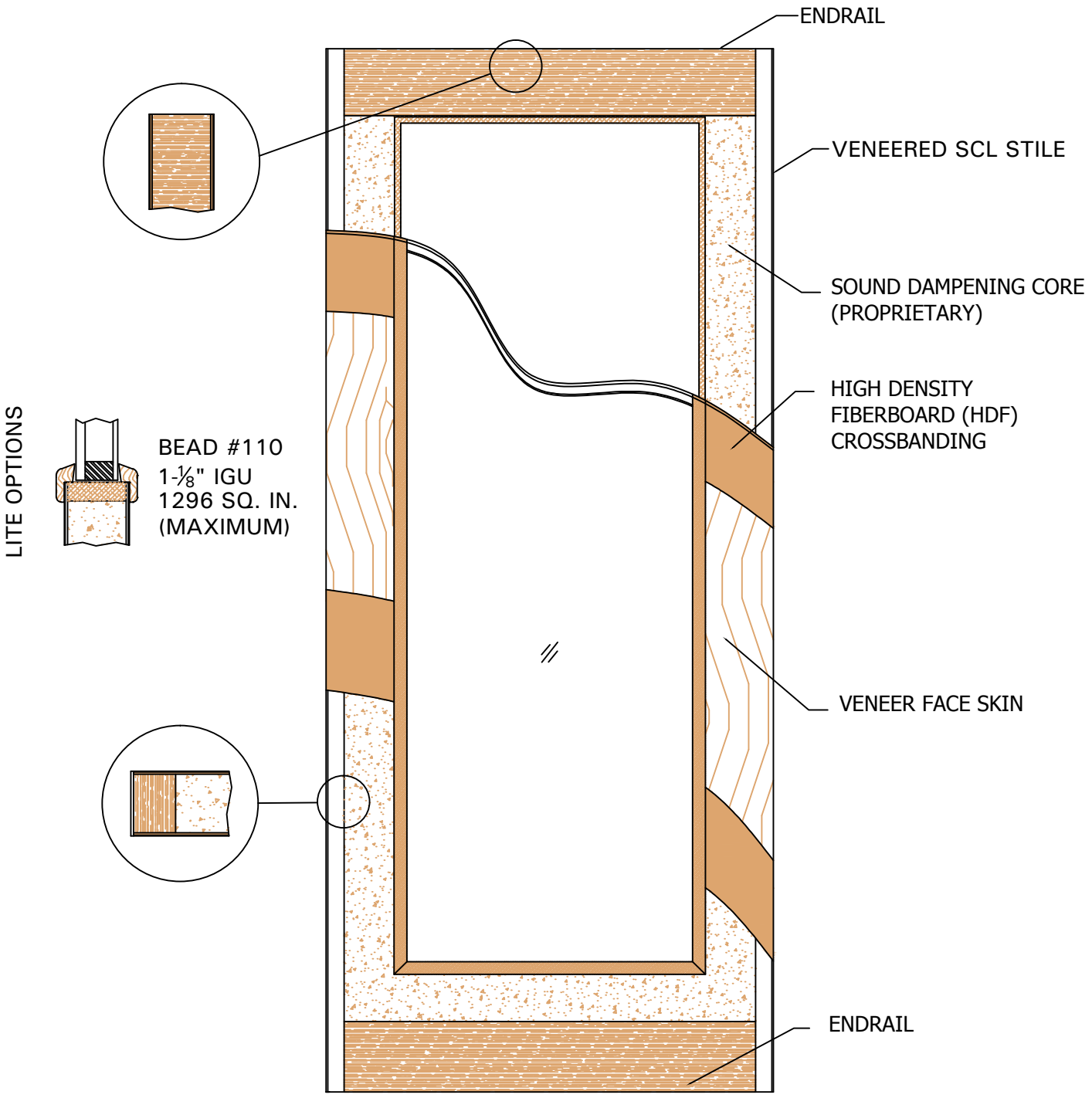
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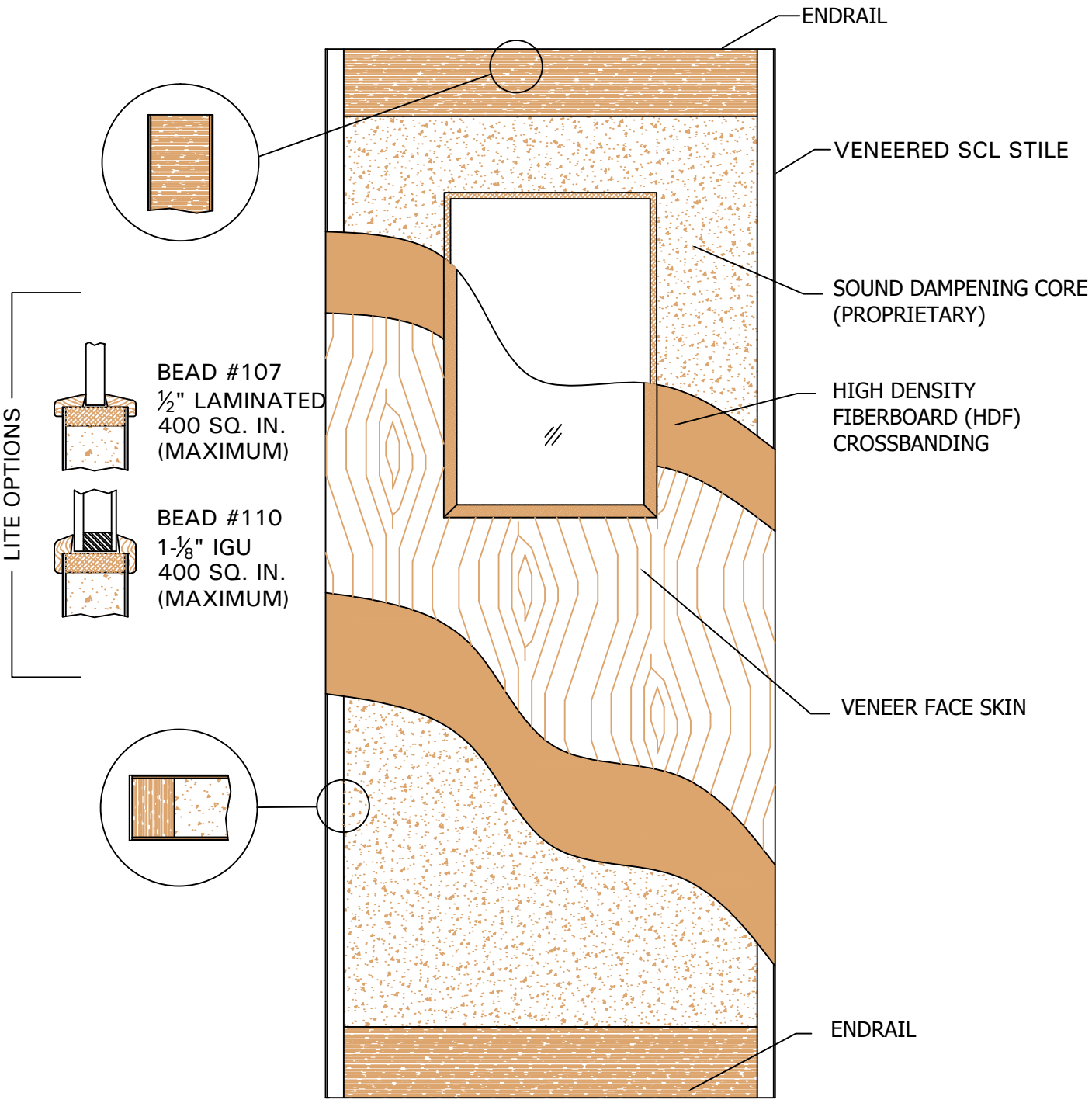
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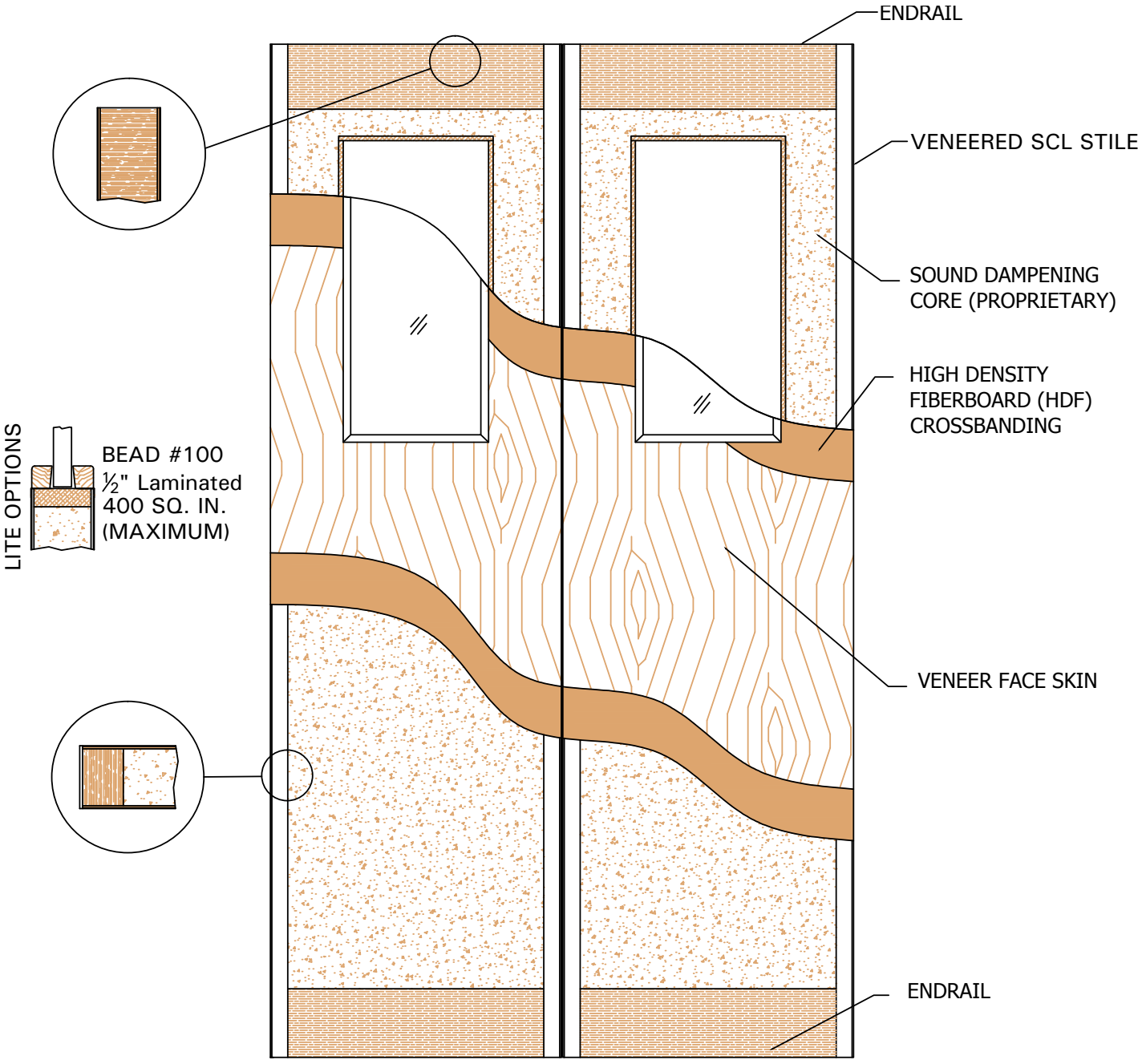
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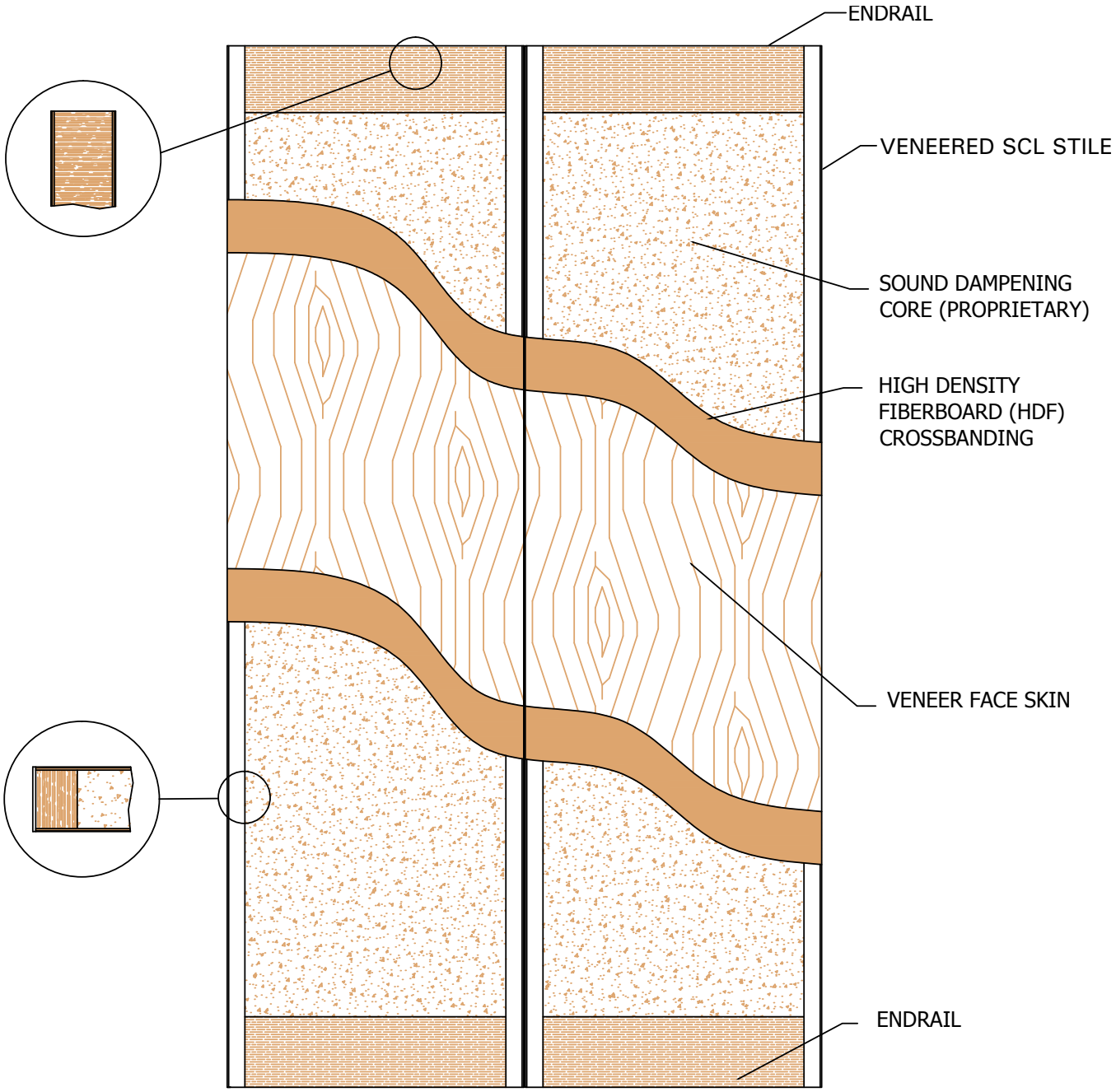
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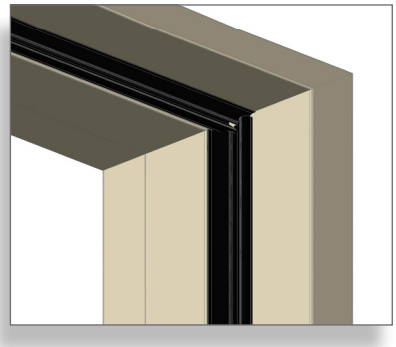
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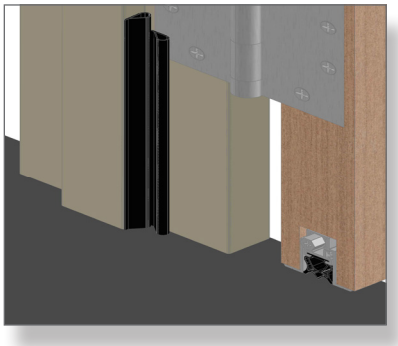
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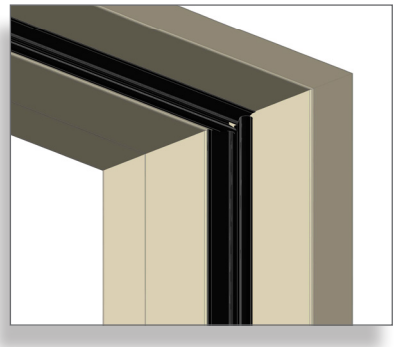
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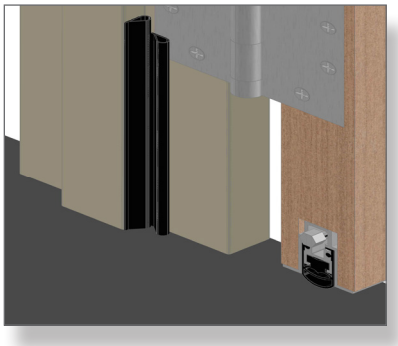




Gasket System B

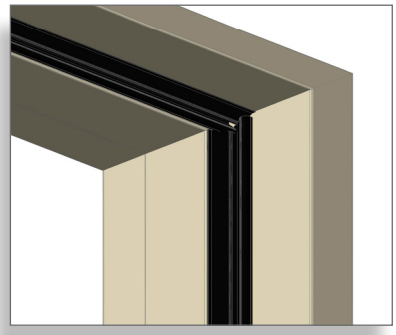
- Double row Pemko S-88 adhesive gasketing
- Pemko 434 automatic door bottom
- Required Undercut - 1/4”

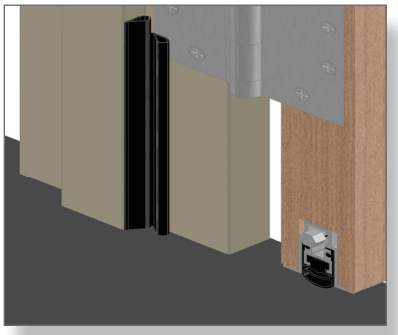




Gasket System I

- Double row Pemko S-88 adhesive gasketing
- Zero 369 automatic door bottom
- Required Undercut - 5/8”

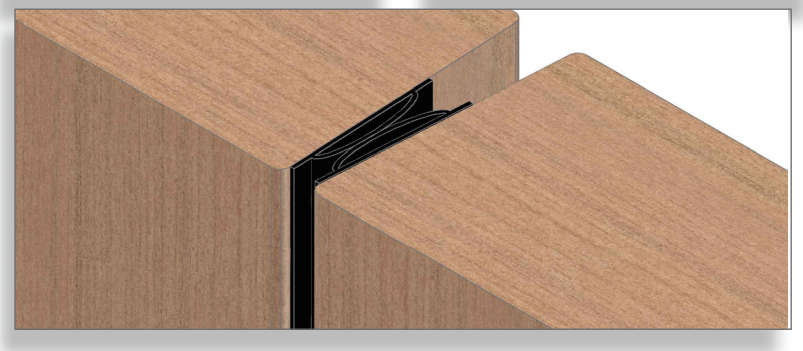




Gasket System K

- Double row Pemko S-88 adhesive gasketing and pad[1] on frame
- Zero 369 automatic door bottom
- Pemko S-1125 (proprietary) adhesive gasketing on each meeting edge
- Required Undercut - 5/8”

[1]Eggers used a 1/4” adhesive-backed foam pad.



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Stile and Rail Doors, Door Frames
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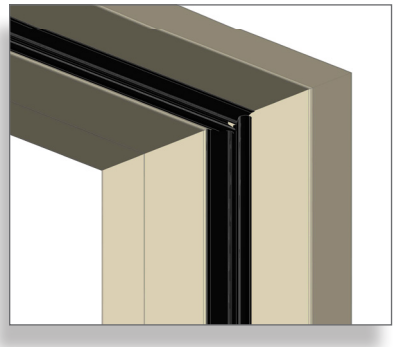
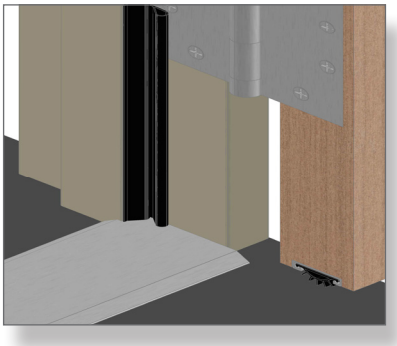
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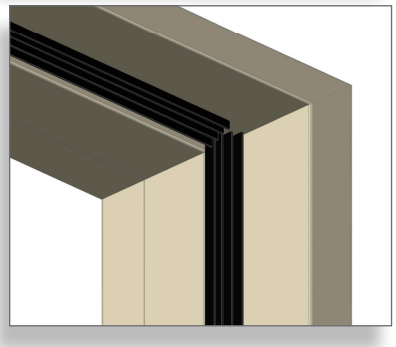
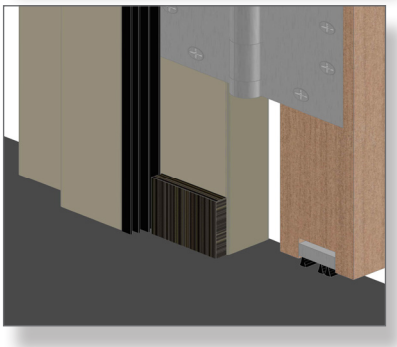
Architectural Veneer Faces,
Custom Wood Products, Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.849.0444

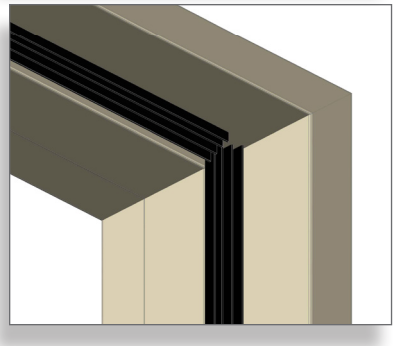
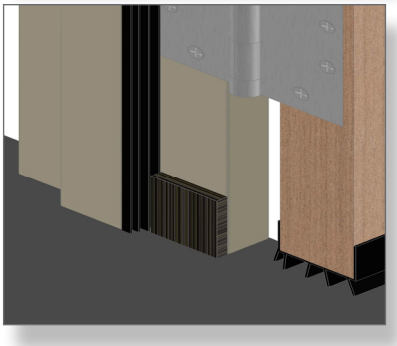
Gasket System M

- Double row Pemko S-88 adhesive gasketing
- Pemko 234 door shoe
- 1/4" flat smooth threshold (i.e. Pemko 151)
- Required Undercut - 3/8"

Gasket System N

- DHSI 105 - "Cush 'N' Seal"
- DHSI AMDB3-3 - Adjustable Mortise Door Bottom
- DHSI DP - Decibel Plug
- Required Undercut - 1/4" to 3/8"

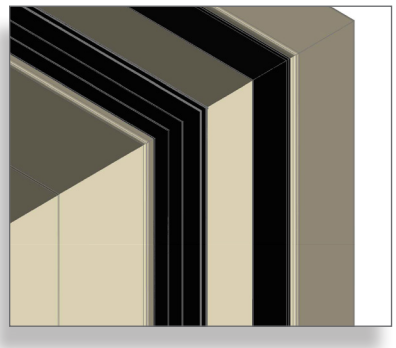
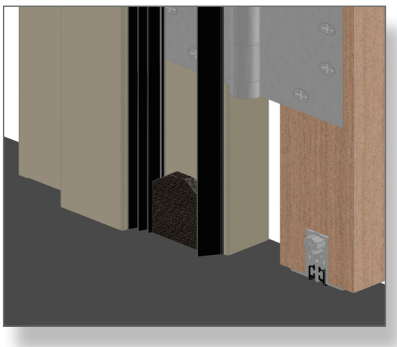



Gasket System P

- DHSI 105 - "Cush 'N' Seal"
- DHSI SA - Self Adhesive Surface Astagal
- DHSI CS - Cap Sweep Door Bottom
- DHSI DP - Decibel Plug
- Required Undercut - 3/8"

Please Note - Eggers' standard offering for the Pemko 434 is the ARL seal and for the Pemko 2005 is the AT seal.

DHSI DP - Decibel Plugs
DP .375 (3/8") - Solid Wood Edge Option (SWE)
DP .250 (1/4") - Full width mortise
Please see www.dhsi-seal.com for more information on DHSI seals and gaskets.

Gasket System U

- Pemko PDB411 automatic door bottom
- Pemko S773 adhesive gasketing
- Pemko S44 adhesive gasketing
- Pemko ACP112 acoustic corner pad
- Required Undercut - 3/8" (1/4" - 1/2")

Eggers Industries
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Stile and Rail Doors, Door Frames
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Fax: 920.793.2958

Flush Doors

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TECH SHEET	SG4	Eggers Industries
STC 40, 41, 42, 43, 44, 45		

Soundwood™

ACOUSTICAL WOOD PRODUCTS BY EGGERS

PRINCIPLE BENEFITS AND FEATURES OF THIS CONSTRUCTION

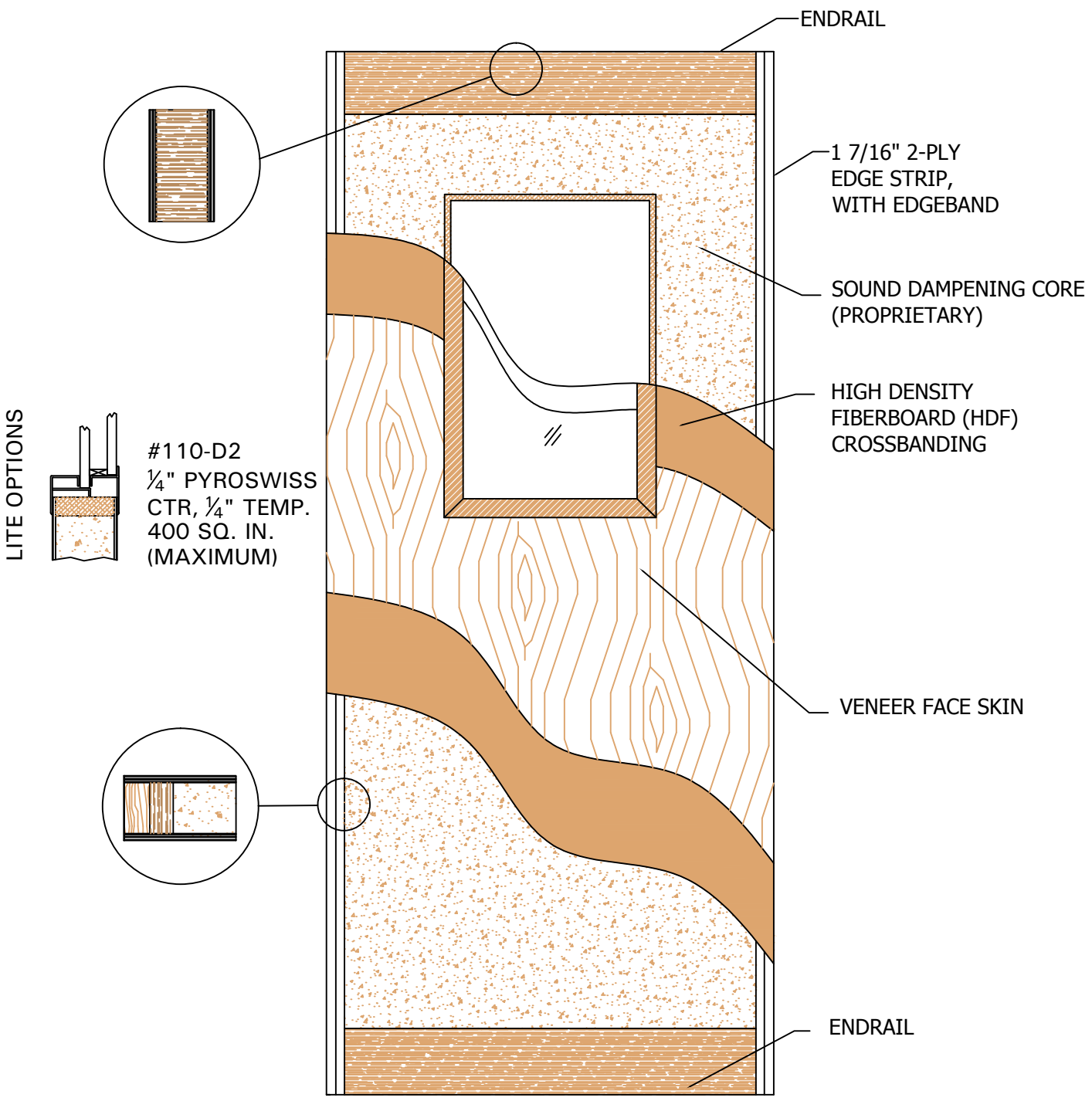
- Available with a 20-minute fire rating
- Less than 8 pounds/sf base weight
- Lead-free
- LEED® MR4 - Recycled Content, EQ4.4 - No Added Urea-Formaldehyde

ENGINEERING SPECIFICATIONS

Sizes: Min. 2'-0" x 6'-0", Max. 4'-0" x 8'-0"
Thickness: 1-3/4"
Frame: Tested in grouted steel frame, must be installed in frame that will maintain the acoustical rating
Stiles: Meets WDMA Extra Heavy Duty I.S. 1A Performance Level
Faces: Wood Veneers, MDO, High-Pressure Decorative Laminate, Vinyl
Latching Hardware: Single Point Latch
Hinges: Level Swing - Butt Hinges
LEED® Contributions: MR4 - Recycled Content, EQ4.4 - No Added Urea-Formaldehyde
Standards ASTM E90, E413

SINGLE SWING FLUSH DOORS	STC 40	STC 41	STC 42	STC 43			STC 44	STC 45
Fire-Rating	20-Minute	20-Minute	N/A	N/A	20-Minute	N/A	20-Minute	20-Minute
Lites	VP: 110-D2 Pyroswiss (center) & 1/4" tempered (outer) 400 sq. in. max	VP: 110-D2 Pyroswiss (center) & 1/4" tempered (outer) 400 sq. in. max	Bead: 107 1/2" Laminated 400 sq. in. max	Bead: 110 1-1/8" NR IGU 100 sq. in . max	VP: 110-D2 Pyroswiss(center) & 1/4" tempered (outer) 100 sq. in. max	N/A	N/A	N/A
Gasket System	B	A	A	A		P	I	A
Test Report	TL95-347	TL95-348	TL03-021	TL03-019	TL03-020	100534284CRT-001k	TL10-134	T94-220
Weight Per Square Foot	7.7 lbs.	7.7 lbs.	7.7 lbs.	7.7 lbs.	7.7 lbs.	7.9 lbs.	7.7 lbs.	7.7 lbs.

SPECIALTY DOORS	STC 44 DUTCH	STC 44 DOOR / TRANSOM	STC 53 COMMUNICATING	STC 41	STC 44
				ACTIVE-INACTIVE PAIRED FLUSH DOORS	
Fire-Rating	20-Minute	20-Minute	20-Minute	20-Minute	20-Minute
Lites	N/A	N/A	N/A	N/A	N/A
Gasket System	A	A	B	B	A
Test Report	TL98-237	TL98-237	TL93-219	TL98-233	TL98-236
Weight Per Square Foot	7.7 lbs.	7.7 lbs.	7.7 lbs	7.7 lbs.	7.7 lbs.



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Stile and Rail Doors, Door Frames
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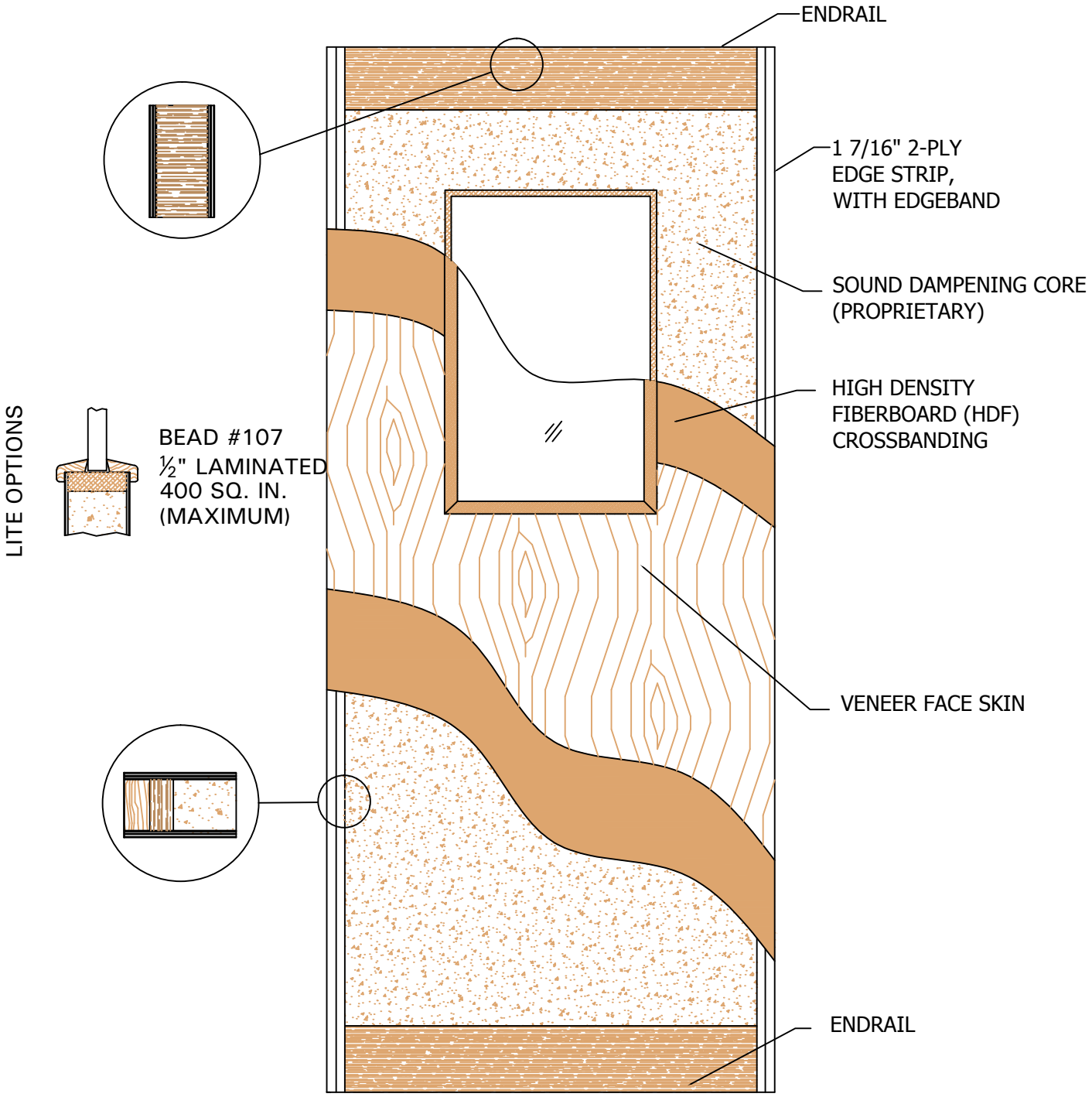
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Flush Doors

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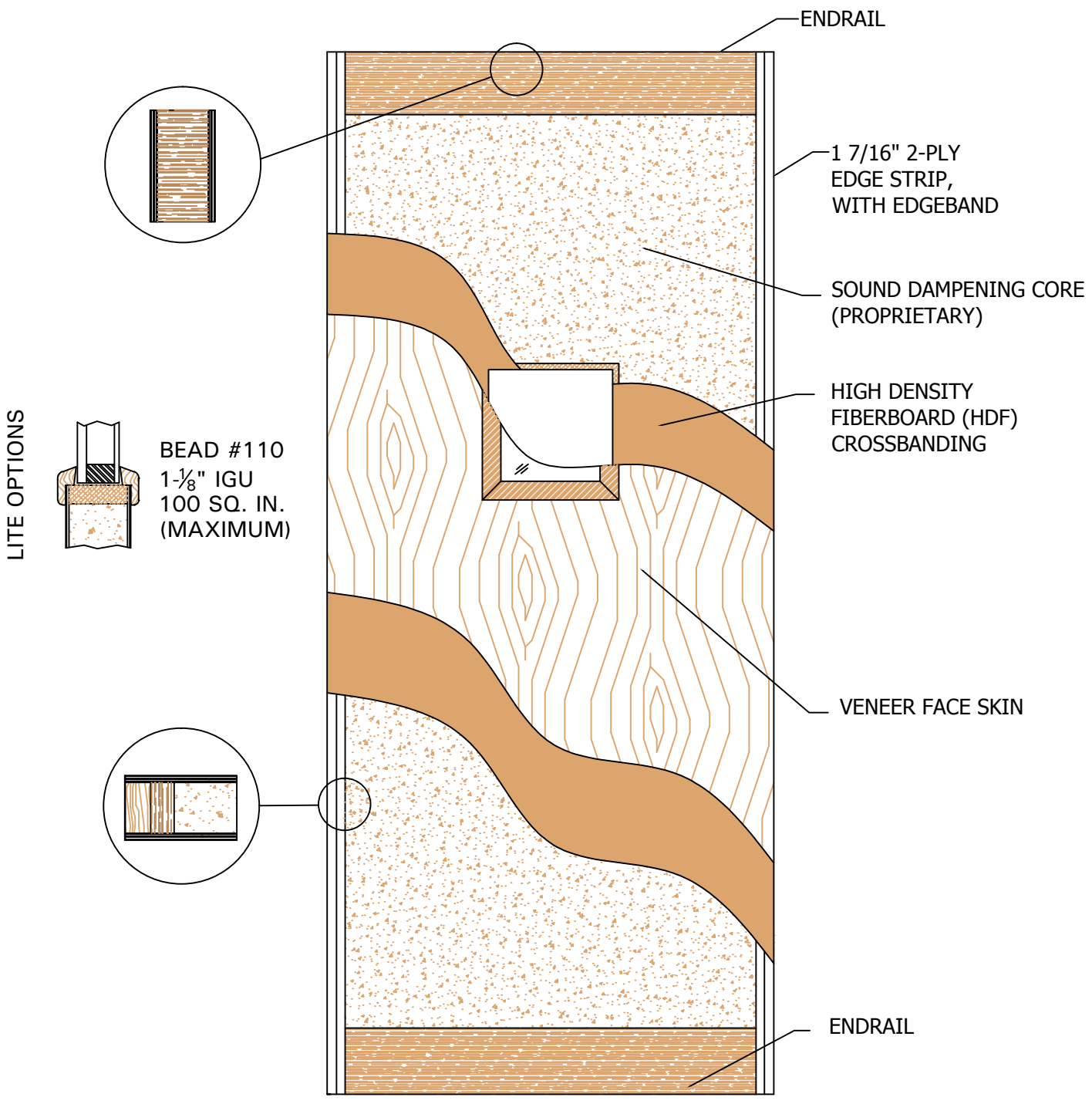
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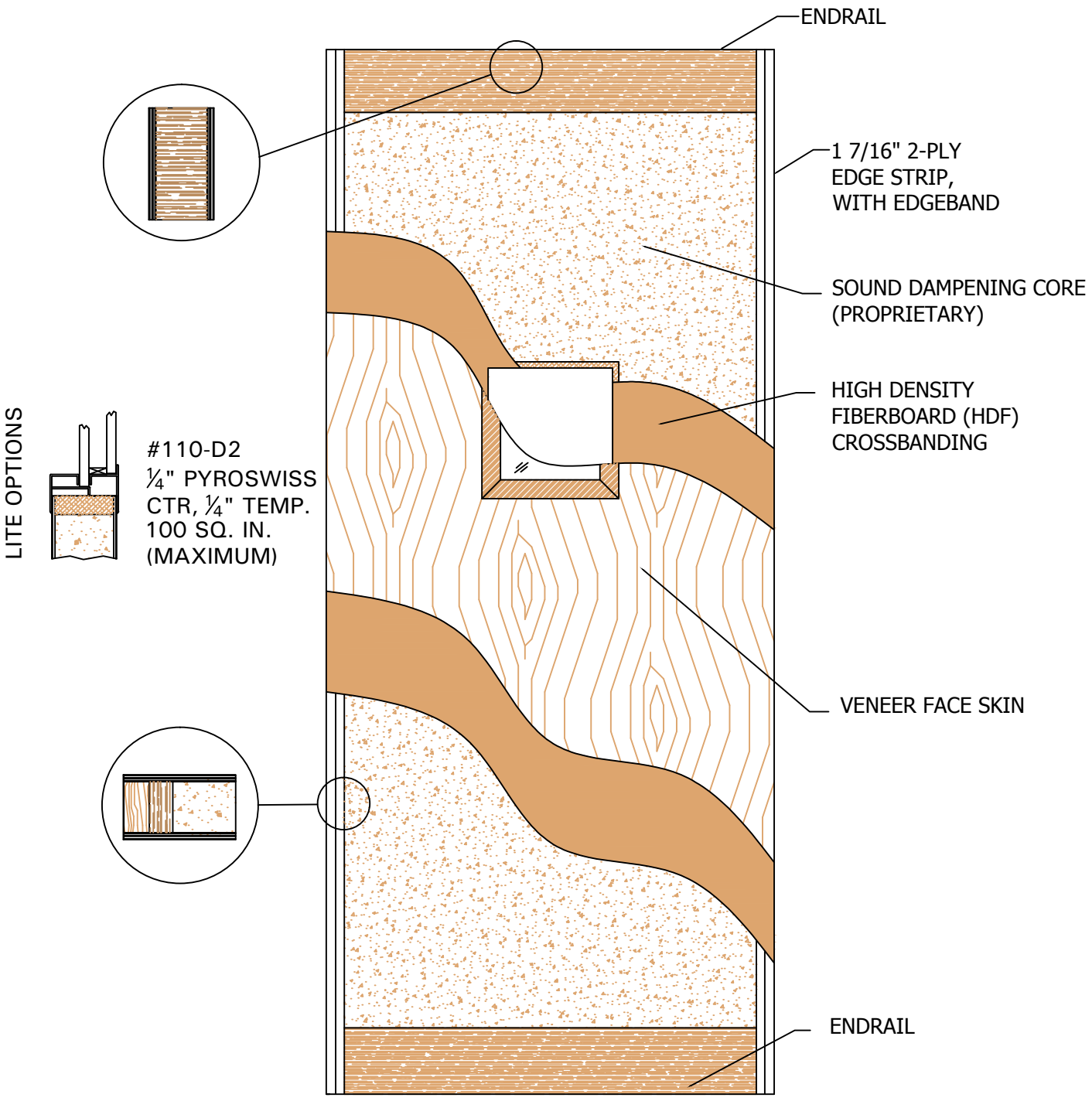
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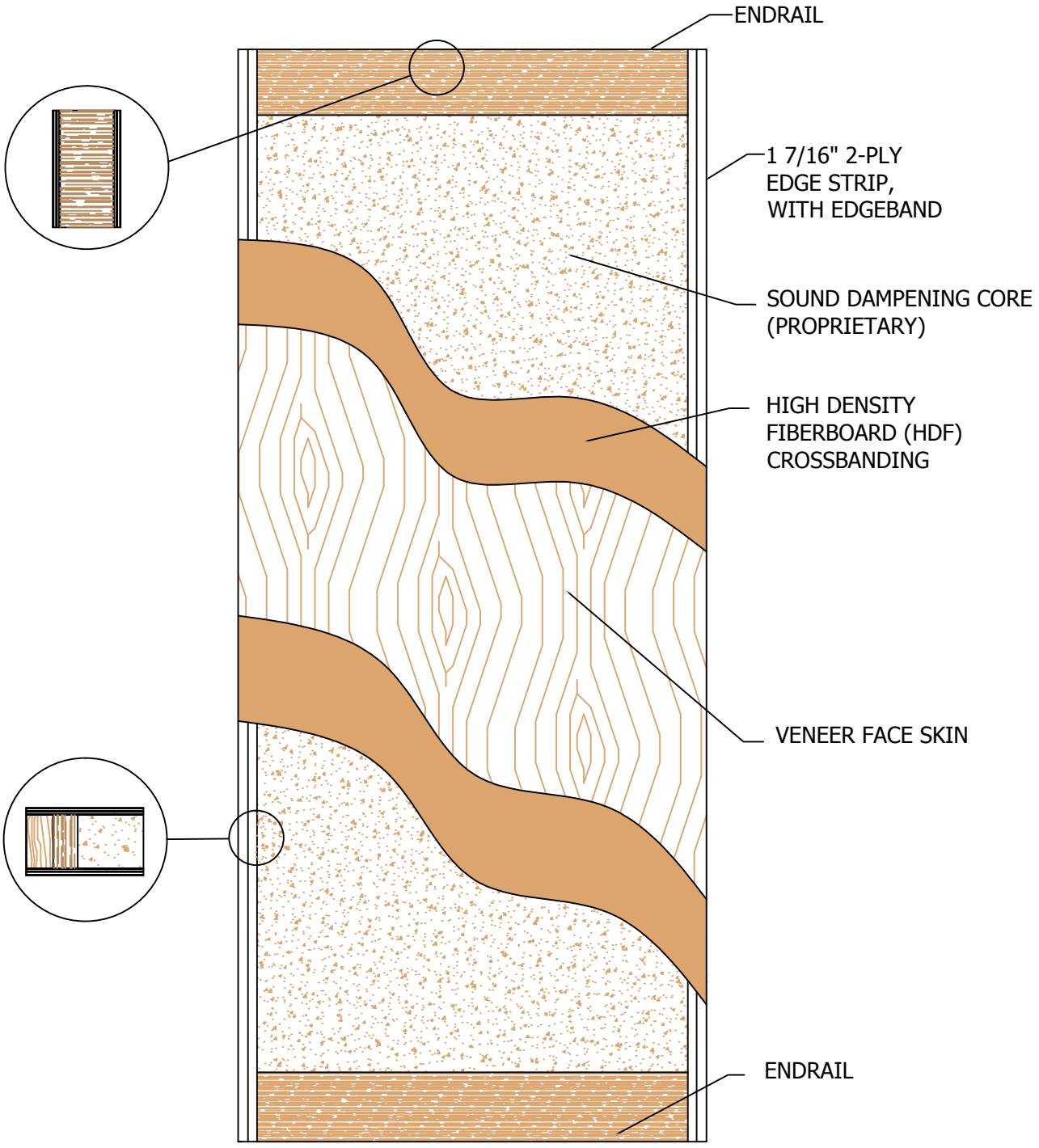
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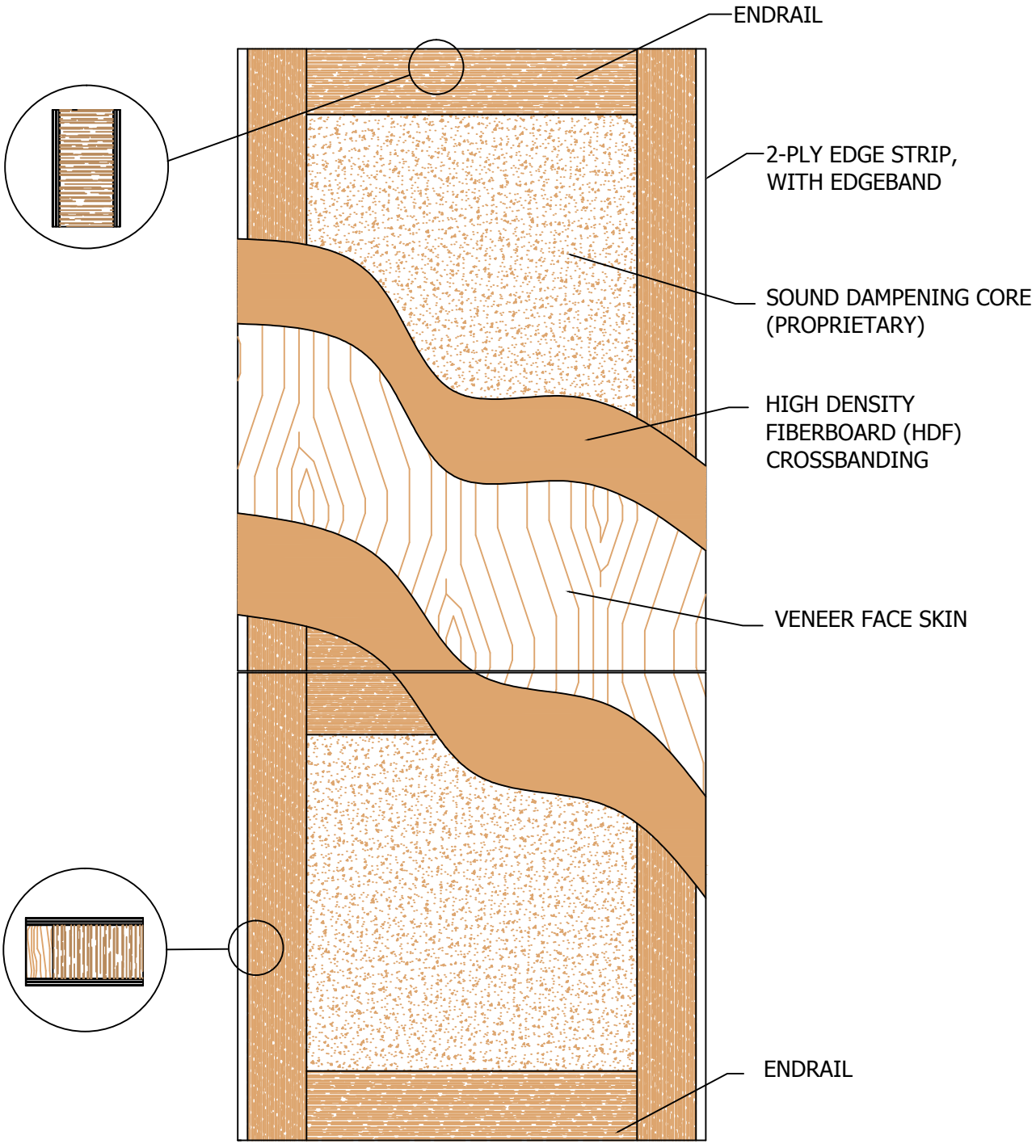
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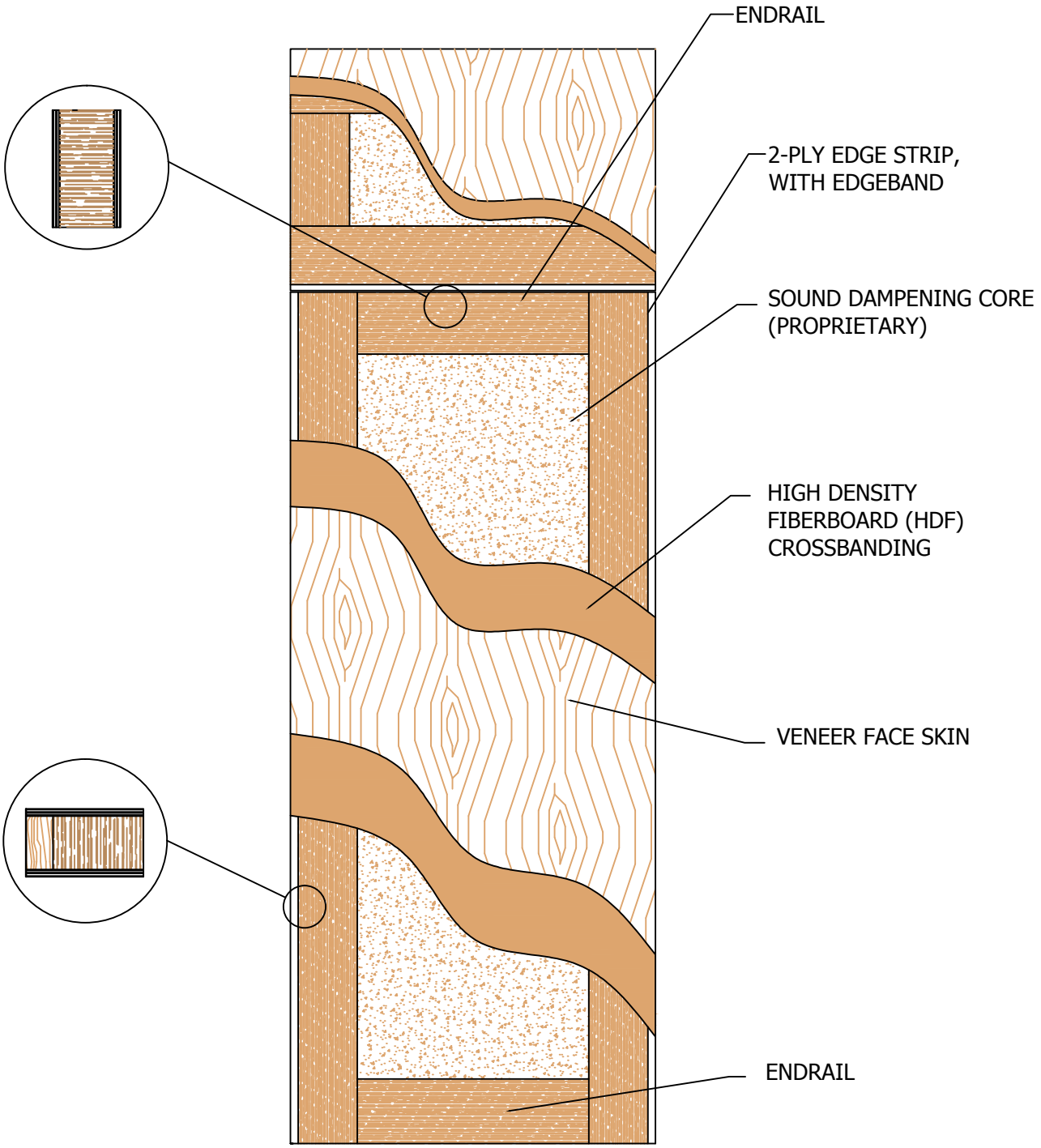
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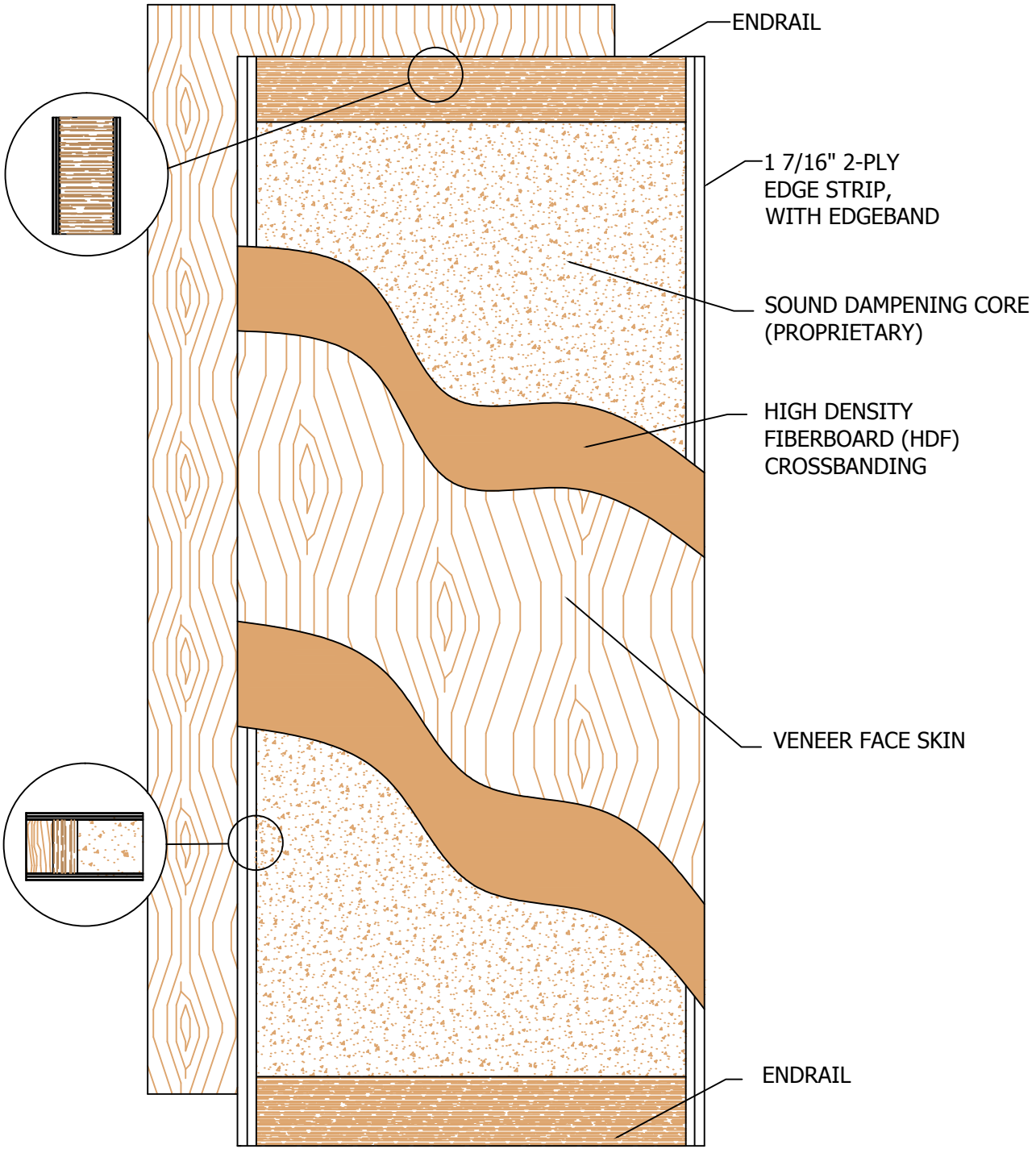
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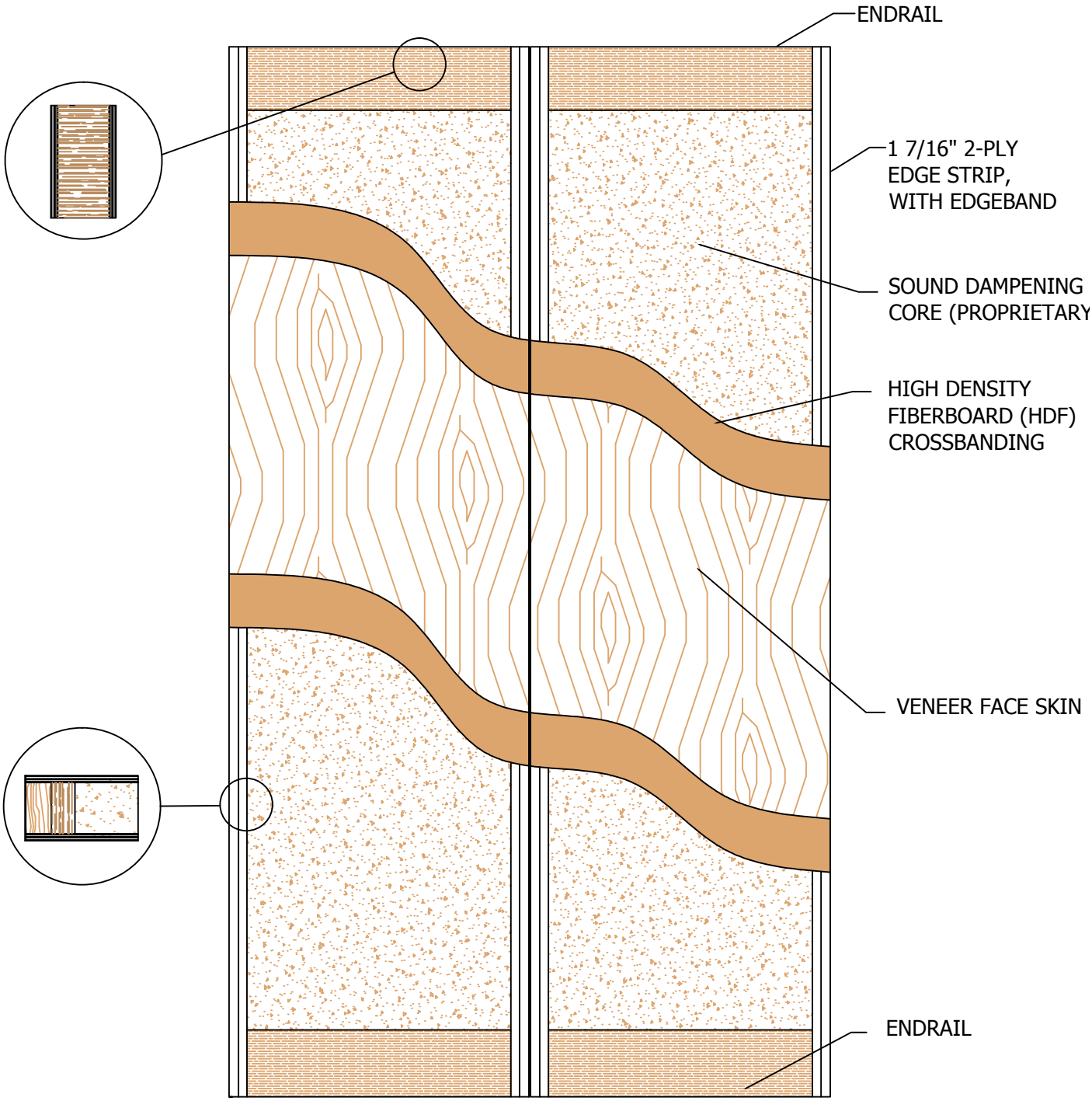
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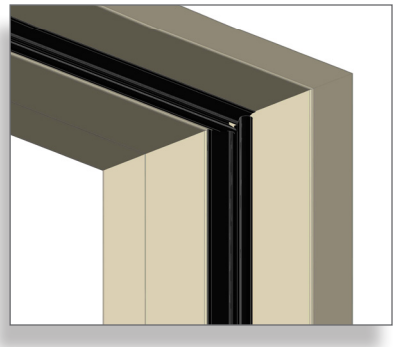
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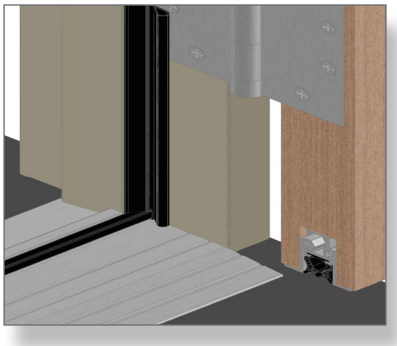
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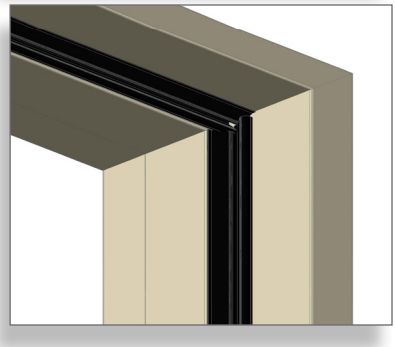
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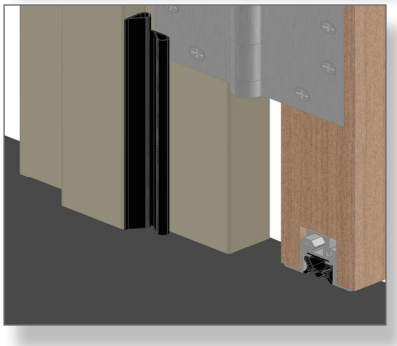




Gasket System A

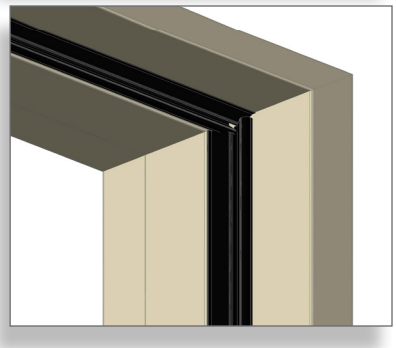
- Double row Pemko S-88 adhesive gasketing
- Pemko 434 automatic door bottom
- Pemko 2005 raised threshold
- Required Undercut - 1/2”

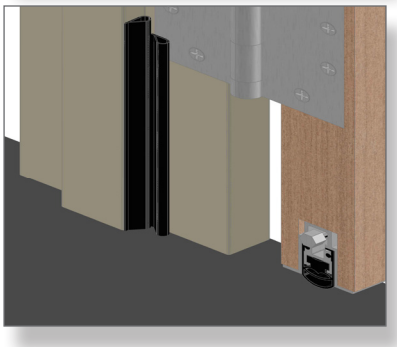




Gasket System B

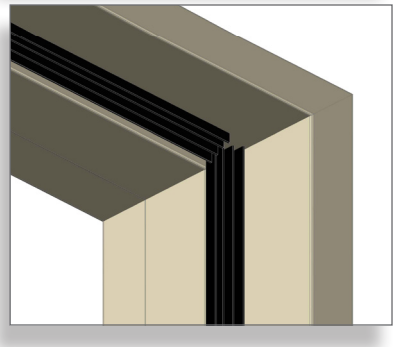
- Double row Pemko S-88 adhesive gasketing
- Pemko 434 automatic door bottom
- Required Undercut - 1/4”

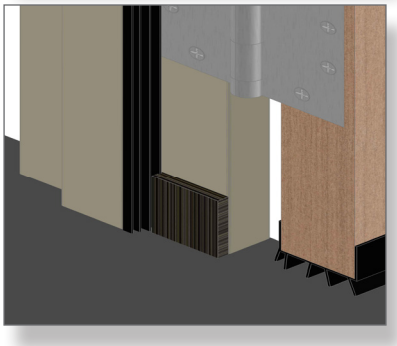




Gasket System I

- Double row Pemko S-88 adhesive gasketing
- Zero 369 automatic door bottom
- Required Undercut - 5/8”





Gasket System P

- DHSI 105 - “Cush ‘N’ Seal”
- DHSI SA - Self Adhesive Surface Astragal
- DHSI CS - Cap Sweep Door Bottom
- DHSI DP - Decibel Plug
- Required Undercut - 3/8”

Please Note - Eggers’ standard offering for the Pemko 434 is the ARL seal and for the Pemko 2005 is the AT seal.

DHSI DP - Decibel Plugs
DP .375 (3/8”) - Solid Wood Edge Option (SWE)
DP .250 (1/4”) - Full width mortise (CS - Cap Sweep)
Please see www.dhsi-seal.com for more information on DHSI seals and gaskets.

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Stile and Rail Doors, Door Frames
Veneered Components, Plywood

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TECH SHEET	SG5	Eggers Industries
STC 43, 48, 49		

Soundwood™
ACOUSTICAL WOOD PRODUCTS BY EGGERS

PRINCIPLE BENEFITS AND FEATURES OF THIS CONSTRUCTION

- Available with a 20-minute fire rating
- Provides x-ray protection
- LEED® MR4 - Recycled Content, EQ4.4 No Added Urea-Formaldehyde

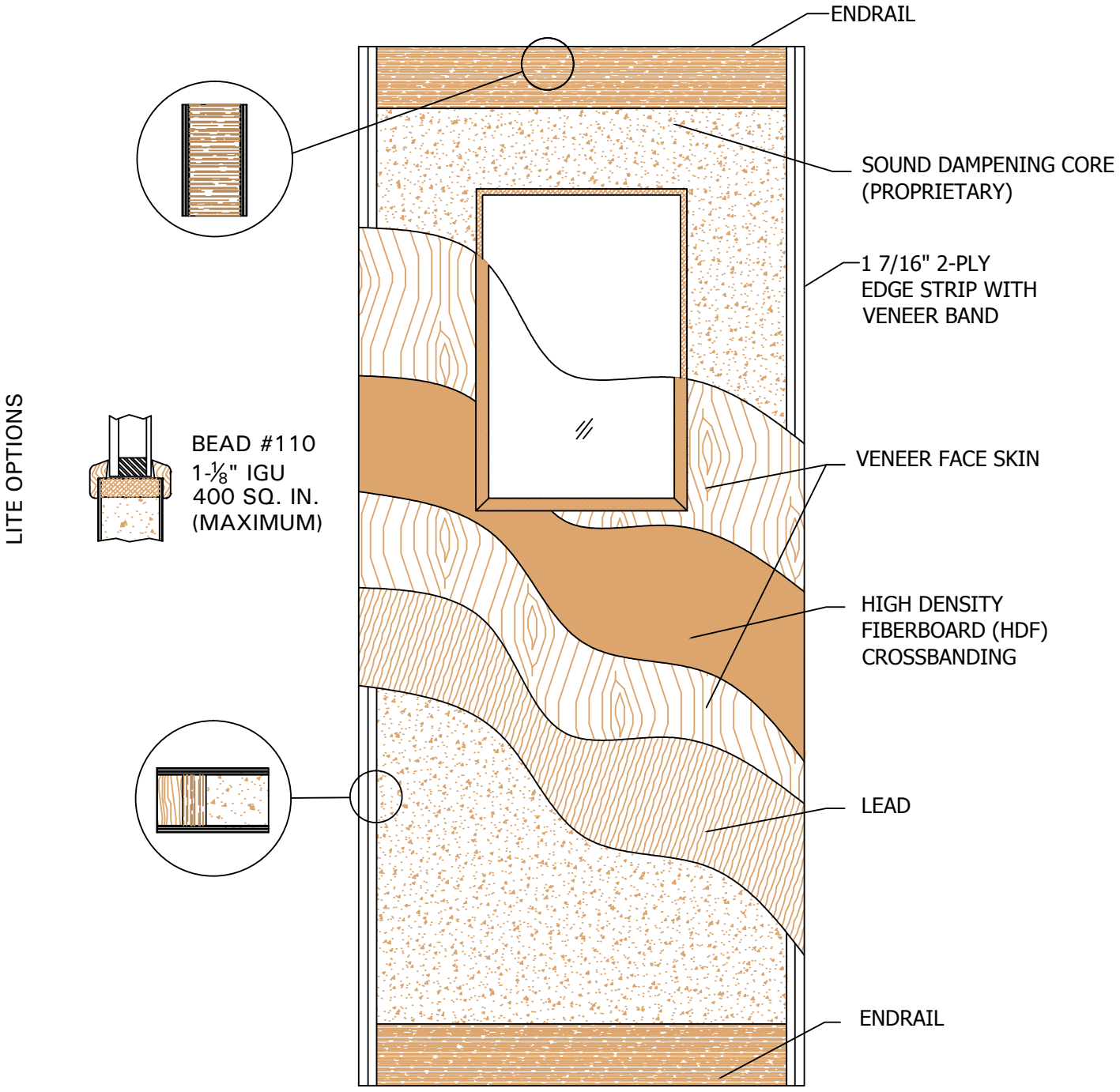
ENGINEERING SPECIFICATIONS

Sizes: Min. 2'-0" x 6'-0", Max. 4'-0" x 8'-0"
Thickness: 1-3/4"
Frame: Tested in grouted steel frame, must be installed in frame that will maintain the acoustical rating
Stiles: Meets WDMA Extra Heavy Duty I.S. 1A Performance Level
Faces: Wood Veneers, MDO, High-Pressure Decorative Laminate, Vinyl
Latching Hardware: Mortise, cylinder, rim exit or mortised exit for single swing; 3-point active-Inactive hardware for pairs
Hinges: Level Swing - Butt Hinges
LEED® Contributions: MR4 - Recycled Content, EQ4.4 - No Added Urea-Formaldehyde
Standards: ASTM E90, E413

SINGLE SWING FLUSH DOORS	STC 43	STC 48
Fire-Rating	N/A	20-Minute
Lites	Bead: 110 1-1/8" NR IGU 400 sq. in. max.	N/A
Gasket System	A	A
Test Report	TL03-022	TL97-320
Weight Per. Square Foot	13.6 lbs.	13.7 lbs.

ACTIVE INACTIVE PAIRED FLUSH DOORS	STC 49
Fire-Rating	20-Minute
Lites	N/A
Gasket System	A
Test Report	TL98-238
Weight Per Square Foot	13.7 lbs.

* Test conducted as an active/inactive pair installation and requires Eggers' overlapping wood astragal.



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Stile and Rail Doors, Door Frames
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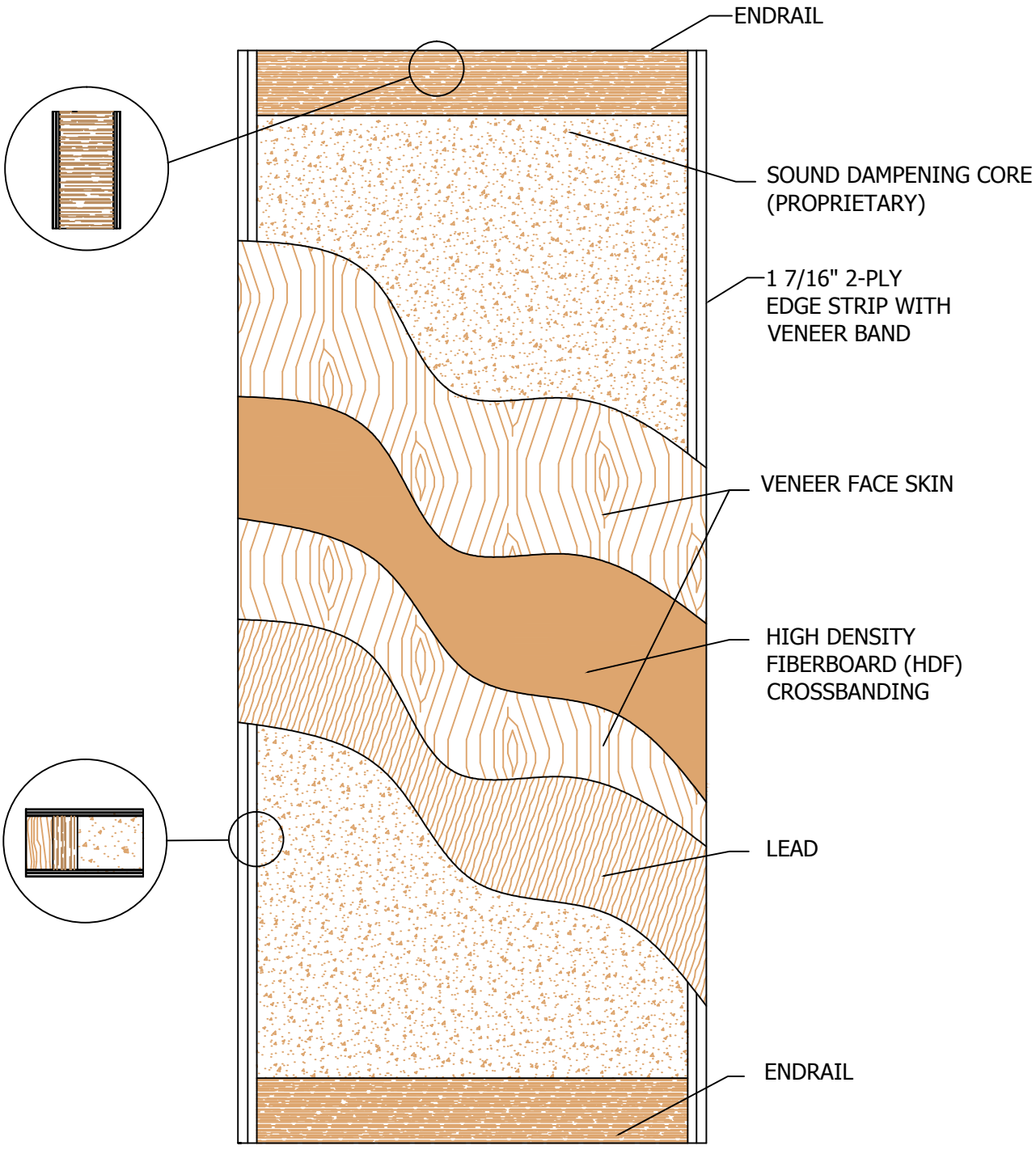
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Stile and Rail Doors, Door Frames
Veneered Components, Plywood

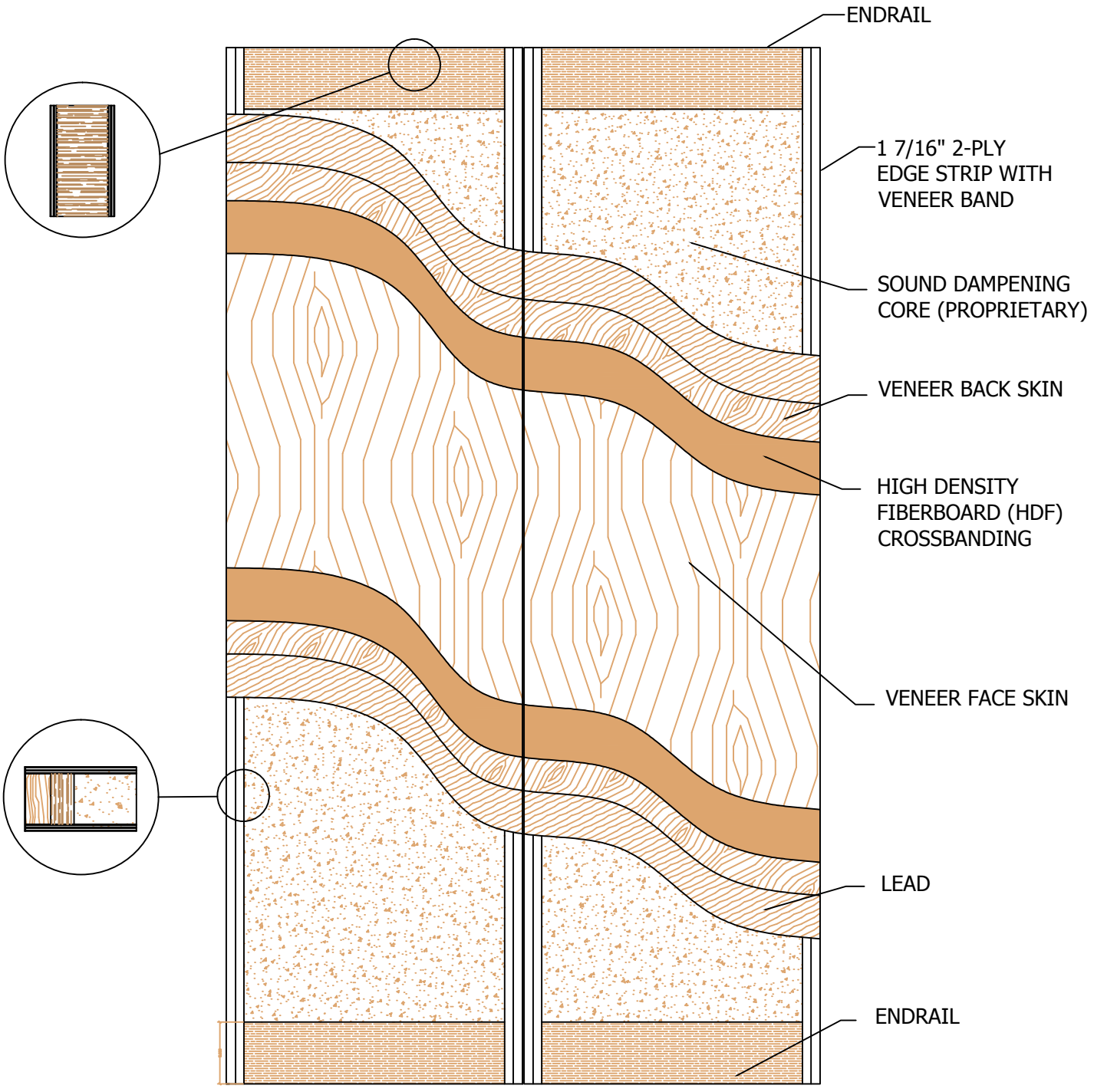
Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces,
Custom Wood Products, Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.849.0444



Eggers Industries
www.eggersindustries.com
sales@eggersindustries.com

Stile and Rail Doors, Door Frames
Veneered Components, Plywood

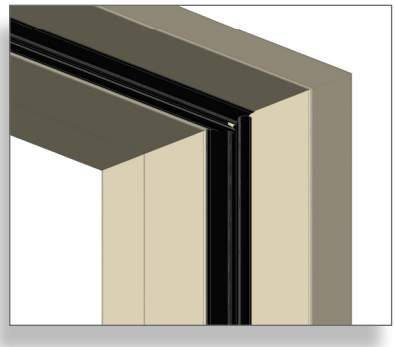
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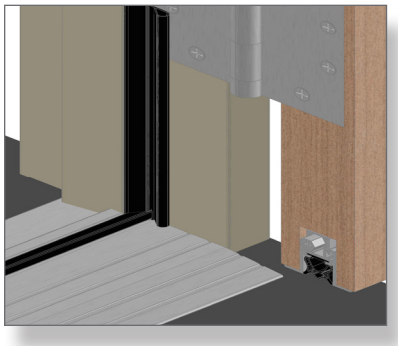
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Gasket System A

- Double row Pemko S-88 adhesive gasketing
- Pemko 434 automatic door bottom
- Pemko 2005 raised threshold
- Required Undercut - 1/2”

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TECH SHEET	SG6	Eggers Industries
STC 47, 48, 51		

Soundwood™
ACOUSTICAL WOOD PRODUCTS BY EGGERS

PRINCIPLE BENEFITS AND FEATURES OF THIS CONSTRUCTION

- Available with a 20-min fire rating
- Provides x-ray protection
- LEED® MR4 - Recycled Content, EQ4.4 No Added Urea-Formaldehyde

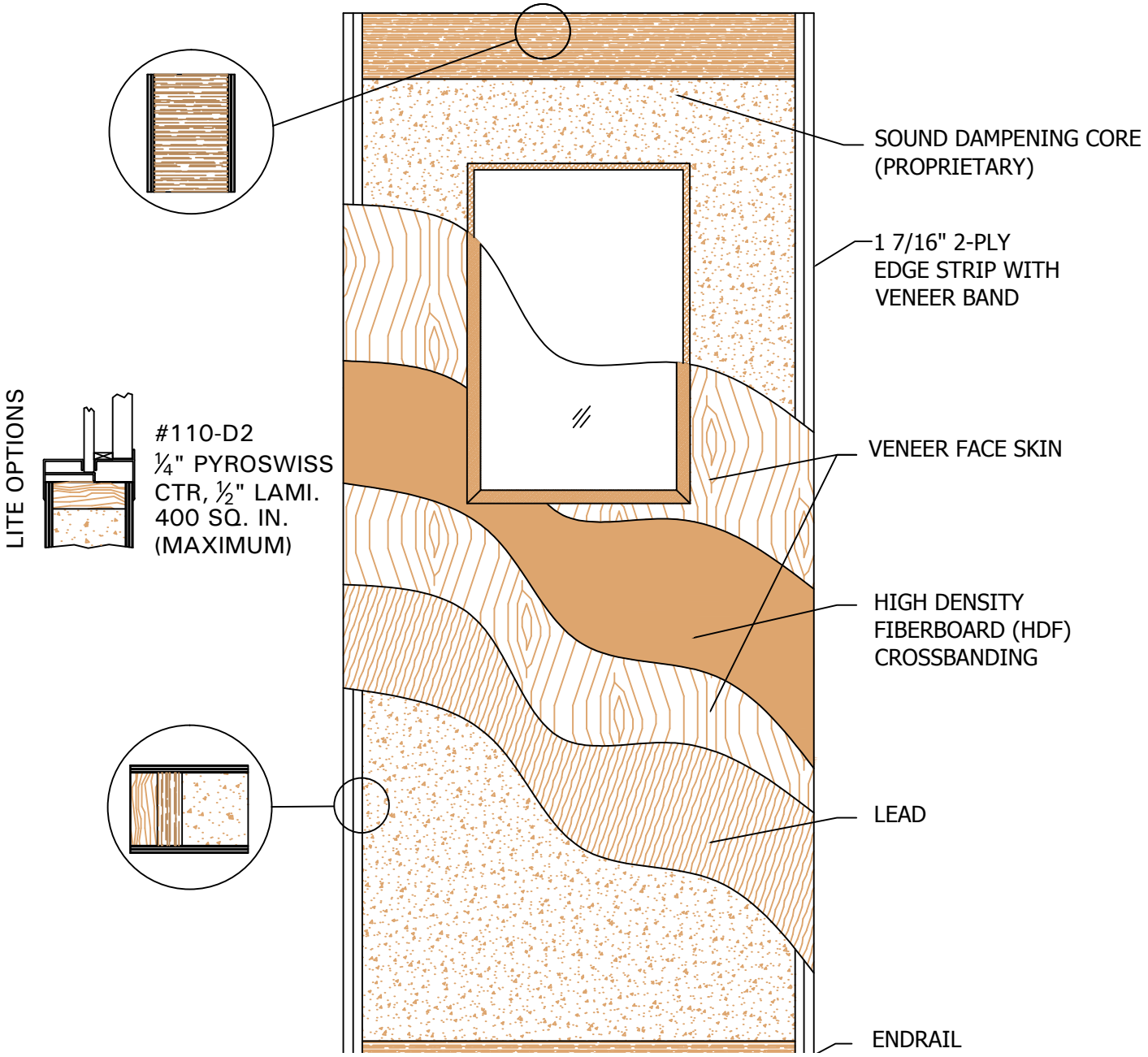
ENGINEERING SPECIFICATIONS

Sizes: Min. 2'-0" x 6'-0", Max. 4'-0" x 8'-0"
Thickness: 2-1/4"
Frame: Tested in grouted steel frame, must be installed in frame that will maintain the acoustical rating
Stiles: Meets WDMA Extra Heavy Duty I.S. 1A Performance Level
Faces: Wood Veneers, MDO, High-Pressure Decorative Laminate, Vinyl
Latching Hardware: Single Point Latch
Hinges: Level Swing - Butt Hinges
LEED® Contributions: MR4 - Recycled Content, EQ4.4 - No Added Urea-Formaldehyde
Standards: ASTM E90, E413

SINGLE SWING FLUSH DOORS	STC 47	STC 48	STC 51
Fire-Rating	20-Minute	N/A	20-Minute
Lites	VP: 110-D2 Pyroswiss/1/2" Laminated 400 sq. in. max	Bead: 110 1-1/8" NR IGU 400 sq. in. max	N/A
Gasket System	A	A	A
Test Report	TL95-351	TL95-350	TL94-37
Weight Per. Square Foot	15.8 lbs.	15.8 lbs.	15.8 lbs.

PERFORMANCE DESCRIPTION

STC RATING	WHAT CAN BE HEARD THROUGH THE DOOR
20 - 25	Very poor - Low speech audible
25 - 30	Poor - Normal speech understood easily and distinctly
30 - 35	Fair - Loud speech understood fairly well
35 - 40	Good - Loud speech heard but hardly intelligible, this is the onset of acoustic "privacy"
40 - 50	Very Good - Loud speech heard faintly, 90% of a typical group sample not annoyed
50 - 52	Excellent - Loud sounds heard faintly or not at all, 99% of a typical group sample not annoyed



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Veneered Components, Plywood

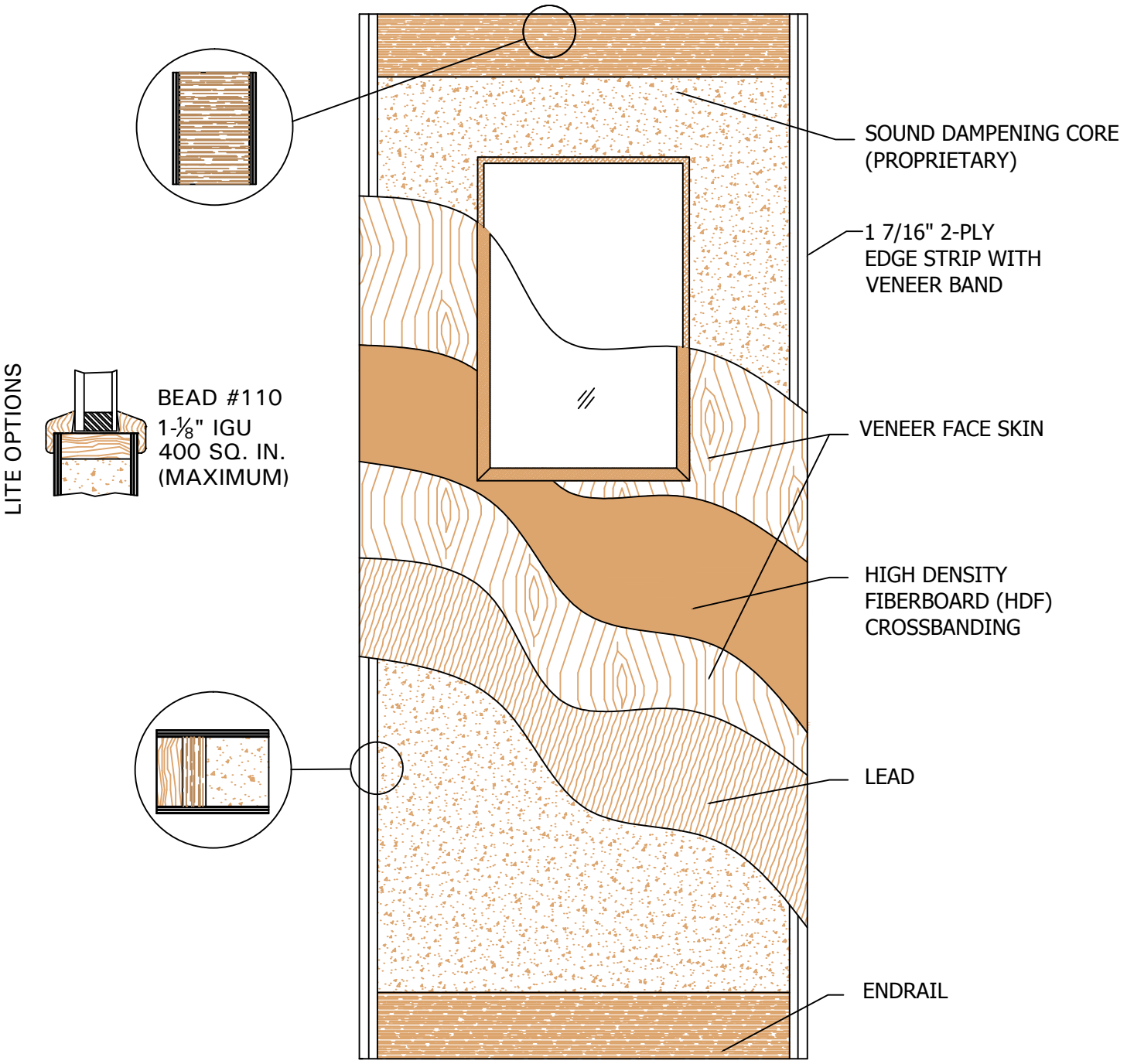
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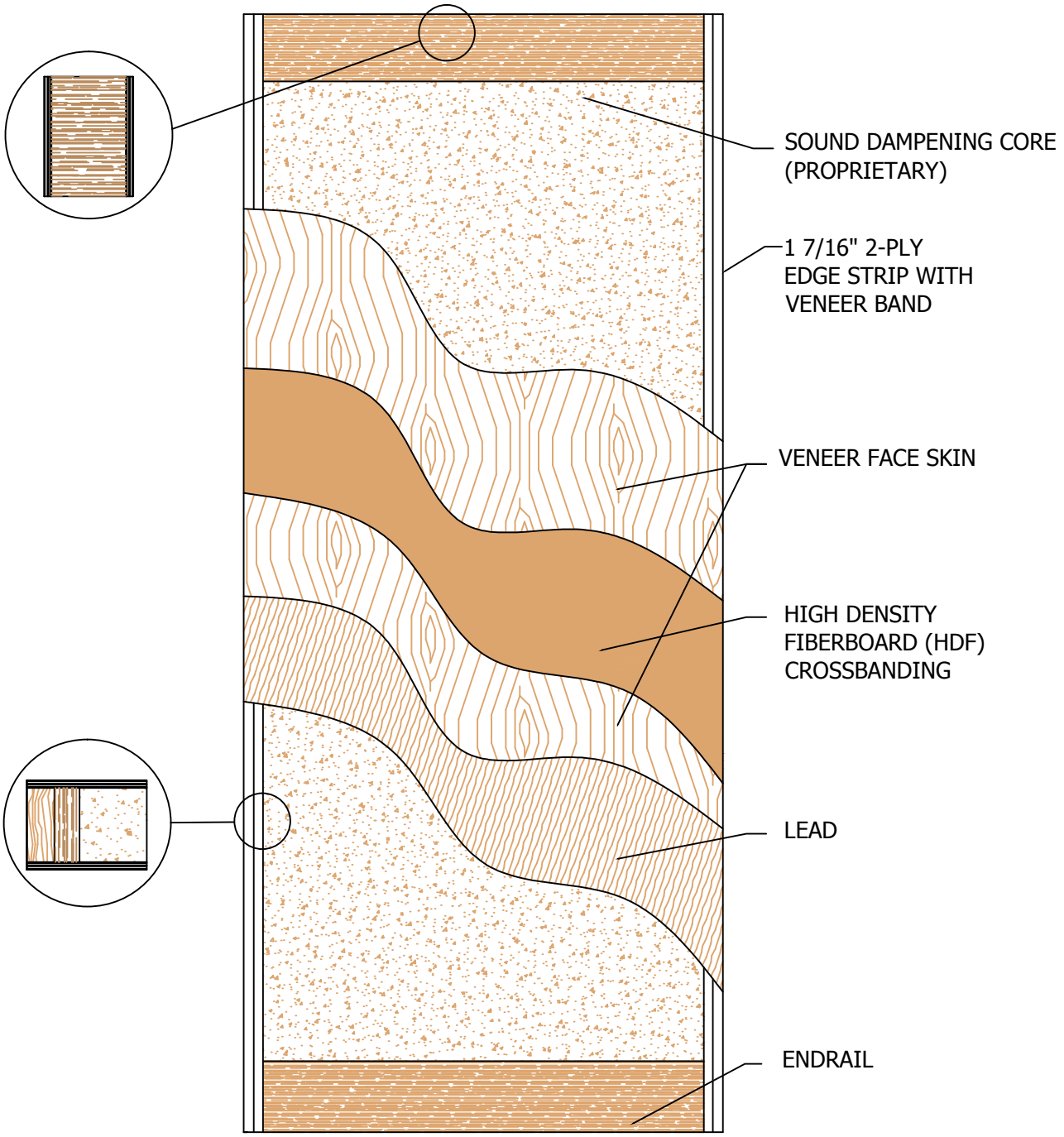
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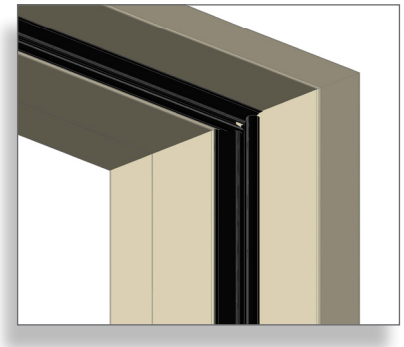
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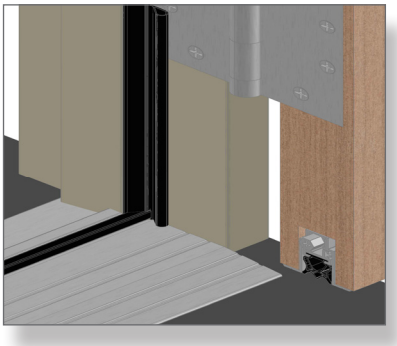
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Gasket System A

- Double row Pemko S-88 adhesive gasketing
- Pemko 434 automatic door bottom
- Pemko 2005 raised threshold
- Required Undercut - 1/2”

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TECH SHEET	SG7	Eggers Industries
STC 38, 39, & 40		

Soundwood™
ACOUSTICAL WOOD PRODUCTS BY EGGERS

PRINCIPLE BENEFITS AND FEATURES OF THIS CONSTRUCTION

- Lead-free
- Available with a 45-min fire rating
- LEED® MR4 - Recycled Content, EQ4.4 No Added Urea-Formaldehyde

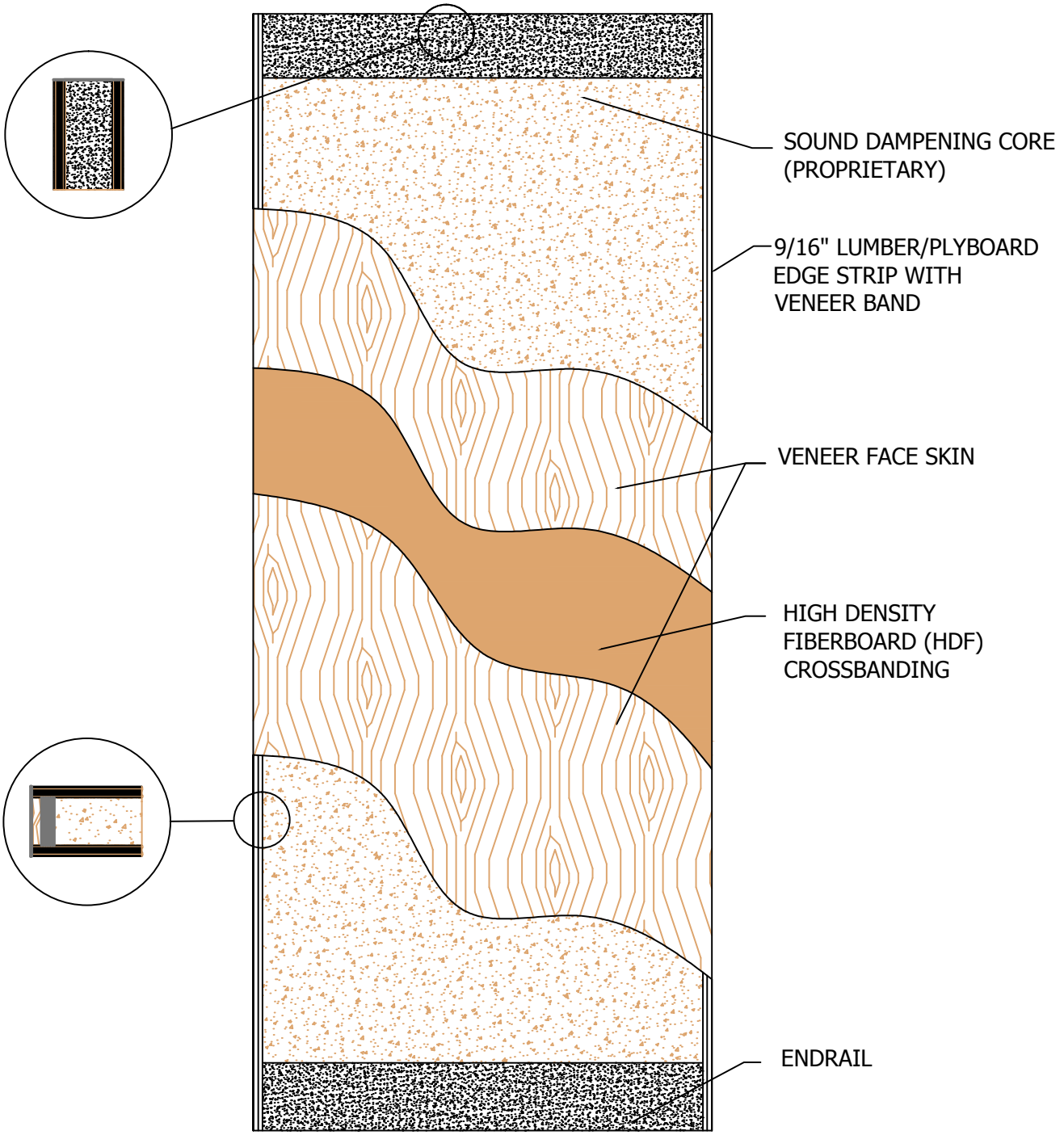
ENGINEERING SPECIFICATIONS

Sizes: Min. 2'-0" x 6'-0", Max. 4'-0" x 8'-0"
Thickness: 1-3/4"
Frame: Tested in grouted steel frame, must be installed in frame that will maintain the acoustical rating
Stiles: Meets WDMA Extra Heavy Duty I.S. 1A Performance Level
Faces: Wood Veneers, MDO, High-Pressure Decorative Laminate, Vinyl
Latching Hardware: Single Point Latch
Hinges: Level Swing - Butt Hinges
LEED® Contributions: MR4 - Recycled Content, EQ4.4 - No Added Urea-Formaldehyde
Standards: ASTM E90, E413

SINGLE SWING FLUSH DOORS	STC 38	STC 39		STC 40
Fire-Rating	45-Minute	45-Minute		45-Minute
Lites	N/A	VP: 110-D2 Fire-Rated (center) & 1/4" Laminated (outer) 100 sq. in. max	N/A	VP: 110-D2 Fire-Rated (center) & 1/4" Laminated (outer) 100 sq. in. max
Gasket System	U	U	S or T	S or T
Test Report	E1460.04-113-11-R0 C7672.02J-113-17-R0	E1460.04-113-11-R0 C7672.02H-113-17-R0	E1460.04-113-11-R0 C7672.02I-113-17-R0	E1460.04-113-11-R0 C7672.02G-113-17-R0
Weight Per. Square Foot	7.6 lbs.	7.6 lbs.		7.6 lbs.

PERFORMANCE DESCRIPTION

STC RATING	WHAT CAN BE HEARD THROUGH THE DOOR
20 - 25	Very poor - Low speech audible
25 - 30	Poor - Normal speech understood easily and distinctly
30 - 35	Fair - Loud speech understood fairly well
35 - 40	Good - Loud speech heard but hardly intelligible, this is the onset of acoustic "privacy"
40 - 50	Very Good - Loud speech heard faintly, 90% of a typical group sample not annoyed
50 - 52	Excellent - Loud sounds heard faintly or not at all, 99% of a typical group sample not annoyed



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Stile and Rail Doors, Door Frames
Veneered Components, Plywood

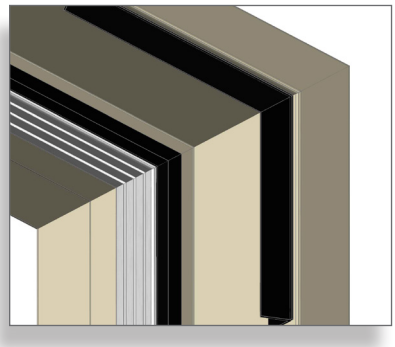
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Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

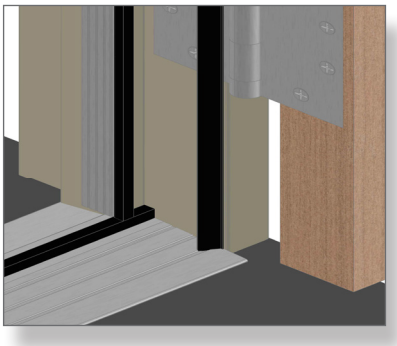
Flush Doors, eiDoor®

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces,
Custom Wood Products, Plywood

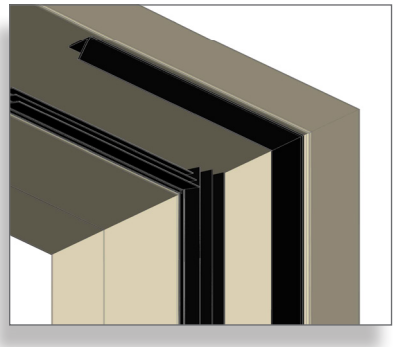
Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.845.0615

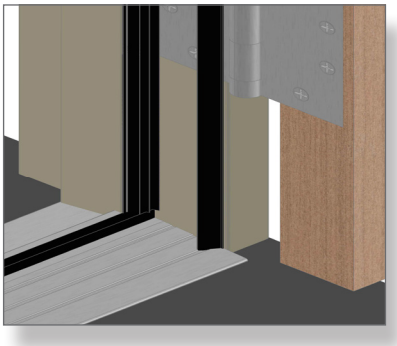




Gasket System S

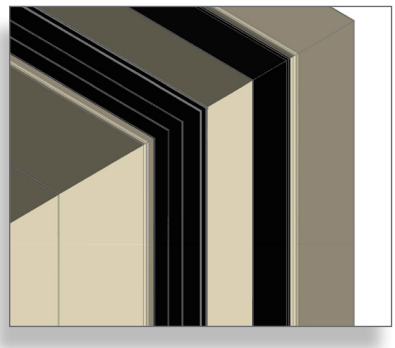
- Pemko 2008STCxQ380 raised threshold
- Pemko S44 adhesive gasketing
- Pemko 312_R perimeter gasketing
- Required Undercut - 3/8”

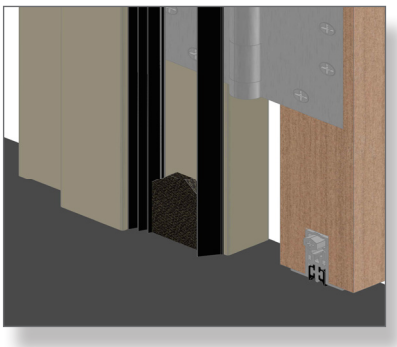




Gasket System T

- Pemko 2008STCxQ380 raised threshold
- Pemko S773 adhesive gasketing
- Pemko S44 gasketing
- Required Undercut - 3/8”





Gasket System U

- Pemko PDB411 automatic door bottom
- Pemko S773 adhesive gasketing
- Pemko S44 adhesive gasketing
- Pemko ACP112 acoustic corner pad
- Required Undercut - 3/8” (1/4” - 1/2”)

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Stile and Rail Doors, Door Frames
Veneered Components, Plywood

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Flush Doors, eiDoor®

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TECH SHEET	SG8	Eggers Industries
STC 46, 47		

Soundwood™
ACOUSTICAL WOOD PRODUCTS BY EGGERS

PRINCIPLE BENEFITS AND FEATURES OF THIS CONSTRUCTION

- Available with a 60-minute fire rating
- LEED® MR4 - Recycled Content, EQ4.4 No Added Urea-Formaldehyde

ENGINEERING SPECIFICATIONS

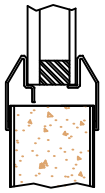
Sizes: Min. 2'-0" x 6'-0", Max. 4'-0" x 8'-0"
Thickness: 1-3/4"
Frame: Tested in grouted steel frame, must be installed in frame that will maintain the acoustical rating
Stiles: Meets WDMA Extra Heavy Duty I.S. 1A Performance Level
Faces: Wood Veneers, MDO, High-Pressure Decorative Laminate, Vinyl
Latching Hardware: Single Point Latch
Hinges: Level Swing - Butt Hinges
LEED® Contributions: MR4 - Recycled Content, EQ4.4 - No Added Urea-Formaldehyde
Standards: ASTM E90, E413

SINGLE SWING FLUSH DOORS	STC 46	STC 47	
Fire-Rating	45-60-Minute	45-60-Minute	
Lites	VP: 110-D2 Fire-Rated (Center) & 1/4" Laminated (Outer) 100 sq. in. max	VP: 110-D2 Fire-Rated (Center) & 1/4" Laminated (Outer) 100 sq. in. max	N/A
Gasket System	U	S or T	A
Test Report	E1460.05-113-11-R0 C7672.02L-113-17-R0	E1460.05-113-11-R0 C7672.02K-113-17-R0	TL03-023
Weight Per. Square Foot	15.4 lbs.	15.4 lbs.	15.7 lbs.

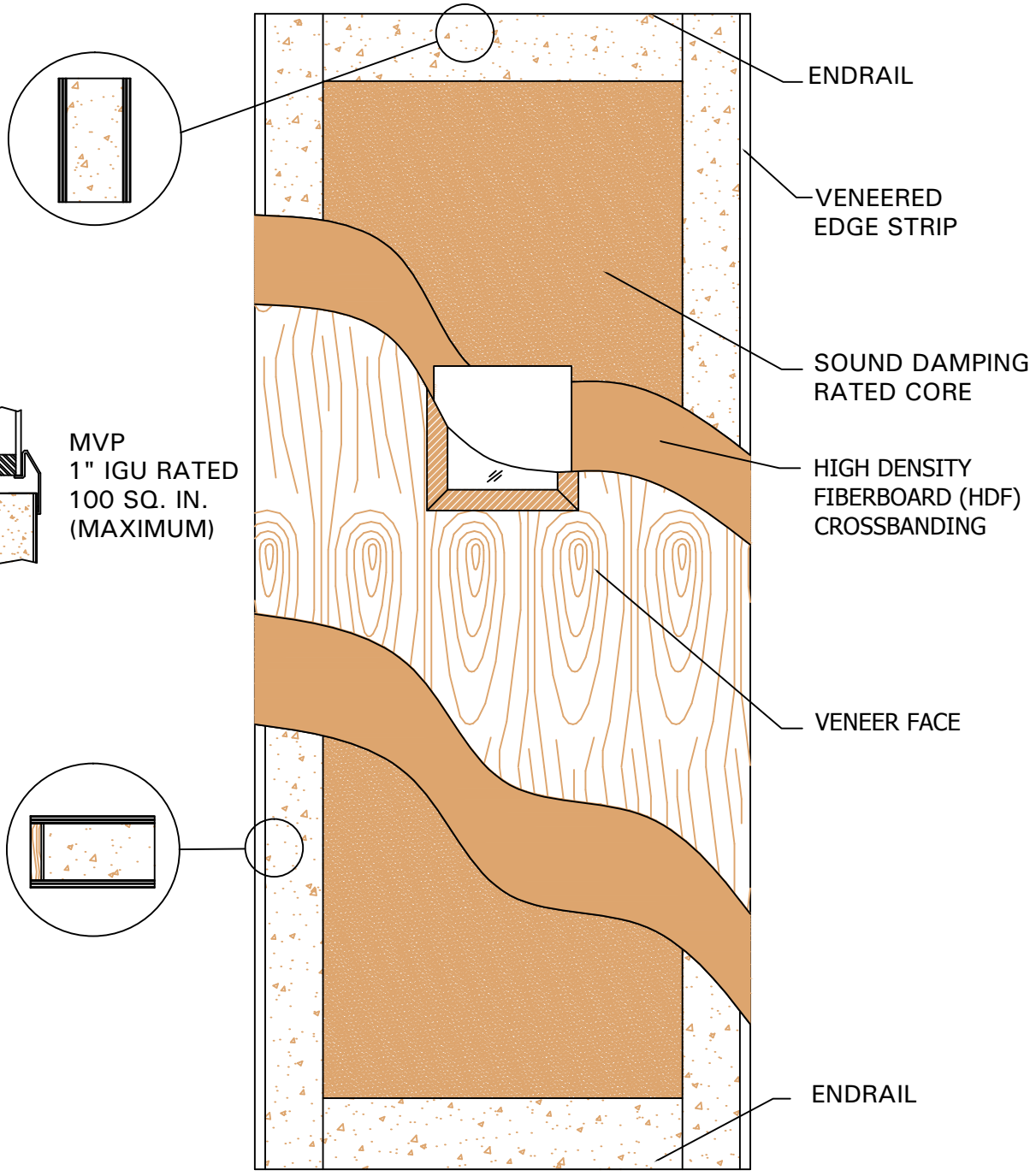
PERFORMANCE DESCRIPTION

STC RATING	WHAT CAN BE HEARD THROUGH THE DOOR
20 - 25	Very poor - Low speech audible
25 - 30	Poor - Normal speech understood easily and distinctly
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35 - 40	Good - Loud speech heard but hardly intelligible, this is the onset of acoustic "privacy"
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50 - 52	Excellent - Loud sounds heard faintly or not at all, 99% of a typical group sample not annoyed

LITE OPTIONS



MVP
1" IGU RATED
100 SQ. IN.
(MAXIMUM)



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Stile and Rail Doors, Door Frames
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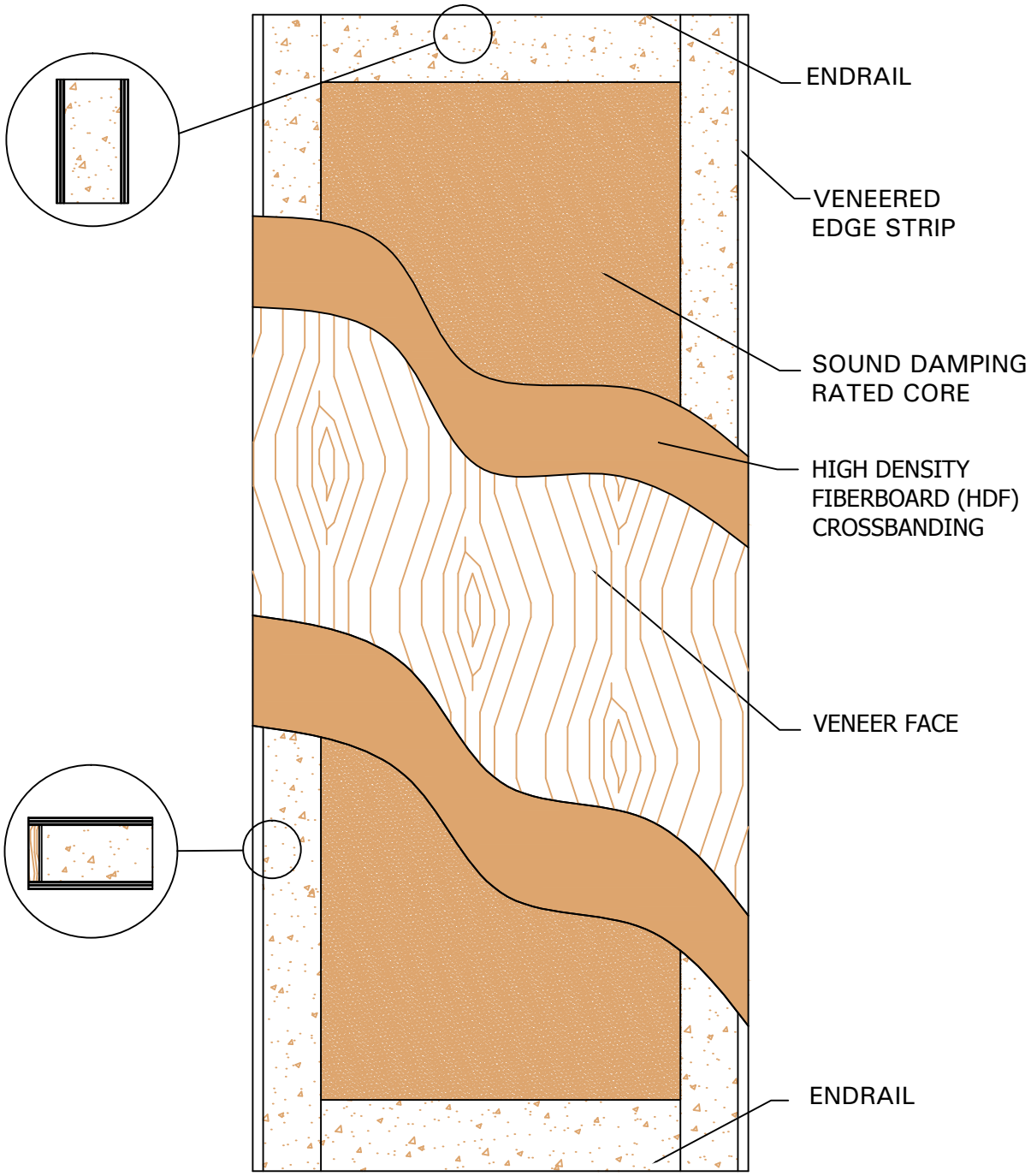
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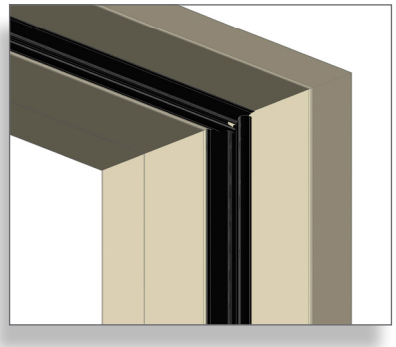
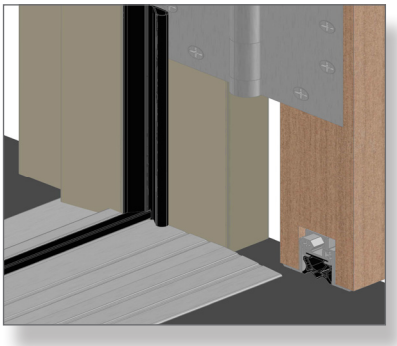
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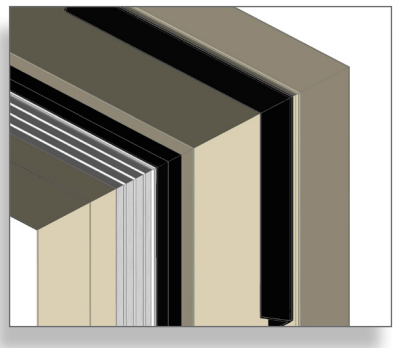
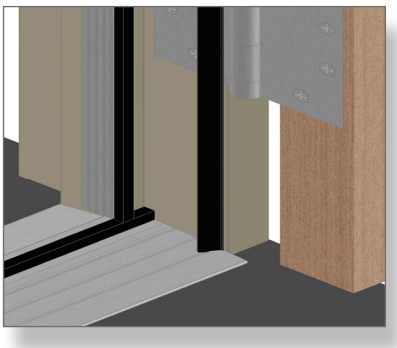
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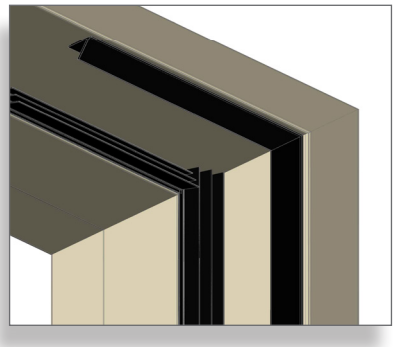
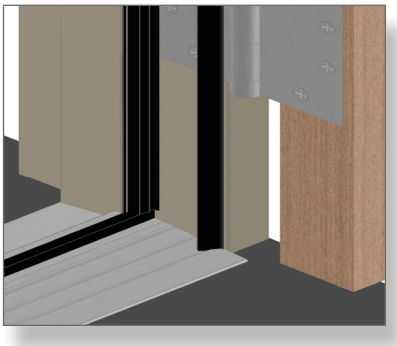
Gasket System A

- Double row Pemko S-88 adhesive gasketing
- Pemko 434 automatic door bottom
- Pemko 2005 raised threshold
- Required Undercut - 1/2”

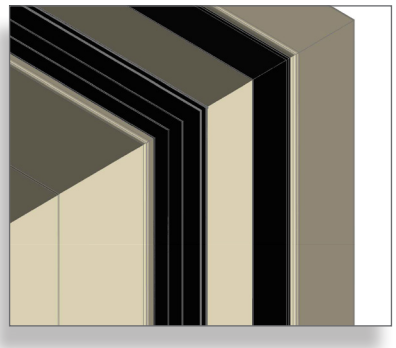
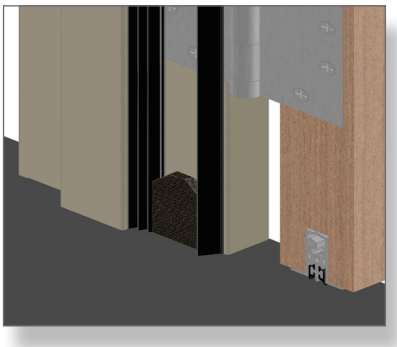
Gasket System S

- Pemko 2008STCxQ380 raised threshold
- Pemko S44 adhesive gasketing
- Pemko 312_R perimeter gasketing
- Required Undercut - 3/8”

Gasket System T

- Pemko 2008STCxQ380 raised threshold
- Pemko S773 adhesive gasketing
- Pemko S44 gasketing
- Required Undercut - 3/8”

Gasket System U

- Pemko PDB411 automatic door bottom
- Pemko S773 adhesive gasketing
- Pemko S44 adhesive gasketing
- Pemko ACP112 acoustic corner pad
- Required Undercut - 3/8” (1/4” - 1/2”)

Eggers Industries
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sales@eggersindustries.com

Stile and Rail Doors, Door Frames
Veneered Components, Plywood

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Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

Flush Doors, eiDoor®

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Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces,
Custom Wood Products, Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.845.0615

TECH SHEET	SG9	Eggers Industries
STC 39, 40		

Soundwood™
ACOUSTICAL WOOD PRODUCTS BY EGGERS

PRINCIPLE BENEFITS AND FEATURES OF THIS CONSTRUCTION

- Lead free
- Available with a 90-minute fire rating
- LEED® MR4 - Recycled Content and EQ4.14 No Added Urea-Formaldehyde available

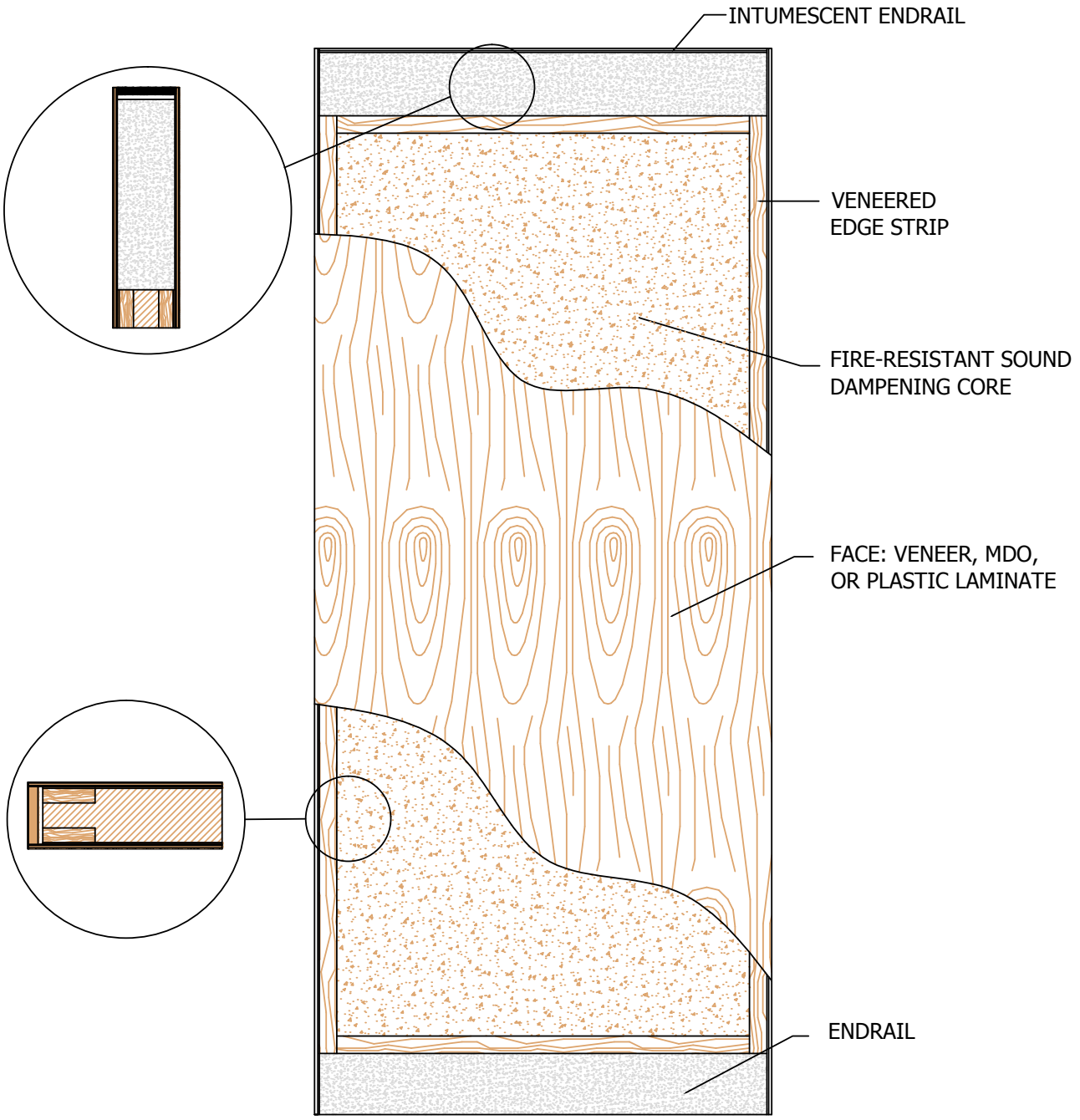
ENGINEERING SPECIFICATIONS

Sizes: Min. 2'-0" x 6'-0", Max. 4'-0" x 8'-0"
Thickness: 1-3/4"
Frame: Tested in grouted steel frame, must be installed in frame that will maintain the acoustical rating
Stiles: Meets WDMA Extra Heavy Duty I.S. 1A Performance Level
Faces: Wood Veneers, MDO, High-Pressure Decorative Laminate, Vinyl
Latching Hardware: Single Point Latch
Hinges: Level Swing - Butt Hinges
LEED® Contributions: MR4 - Recycled Content, EQ4.4 - No Added Urea-Formaldehyde
Standards: ASTM E90, E413

SINGLE SWING FLUSH DOORS	STC 39	STC 40
Fire-Rating	45-60-90-Minute	45-60-90-Minute
Lites	N/A	N/A
Gasket System	I	C
Test Report	TL06-053	TL06-051
Weight Per. Square Foot	7.7 lbs.	7.6 lbs.

PERFORMANCE DESCRIPTION

STC RATING	WHAT CAN BE HEARD THROUGH THE DOOR
20 - 25	Very poor - Low speech audible
25 - 30	Poor - Normal speech understood easily and distinctly
30 - 35	Fair - Loud speech understood fairly well
35 - 40	Good - Loud speech heard but hardly intelligible, this is the onset of acoustic "privacy"
40 - 50	Very Good - Loud speech heard faintly, 90% of a typical group sample not annoyed
50 - 52	Excellent - Loud sounds heard faintly or not at all, 99% of a typical group sample not annoyed



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Stile and Rail Doors, Door Frames
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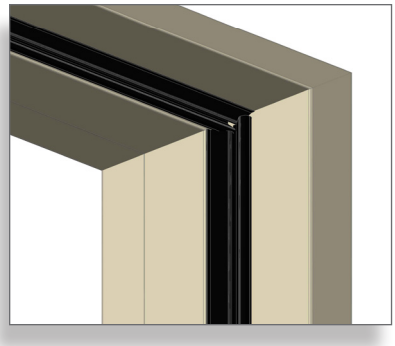
Two Rivers Division
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Phone: 920.793.1351
Fax: 920.793.2958

Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces,
Custom Wood Products, Plywood

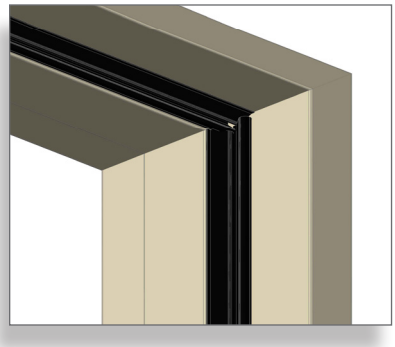
Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.849.0444

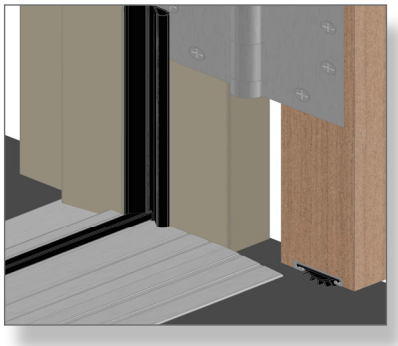




Gasket System I

- Double row Pemko S-88 adhesive gasketing
- Zero 369 automatic door bottom
- Required Undercut - 5/8”





Gasket System C

- Double row Pemko S-88 adhesive gasketing
- Pemko 234 door shoe
- Pemko 2005 raised threshold
- Required Undercut - 3/8”

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TECH SHEET	SG11	Eggers Industries
STC 33 - 39		

Soundwood™
ACOUSTICAL WOOD PRODUCTS BY EGGERS

PRINCIPLE BENEFITS AND FEATURES OF THIS CONSTRUCTION

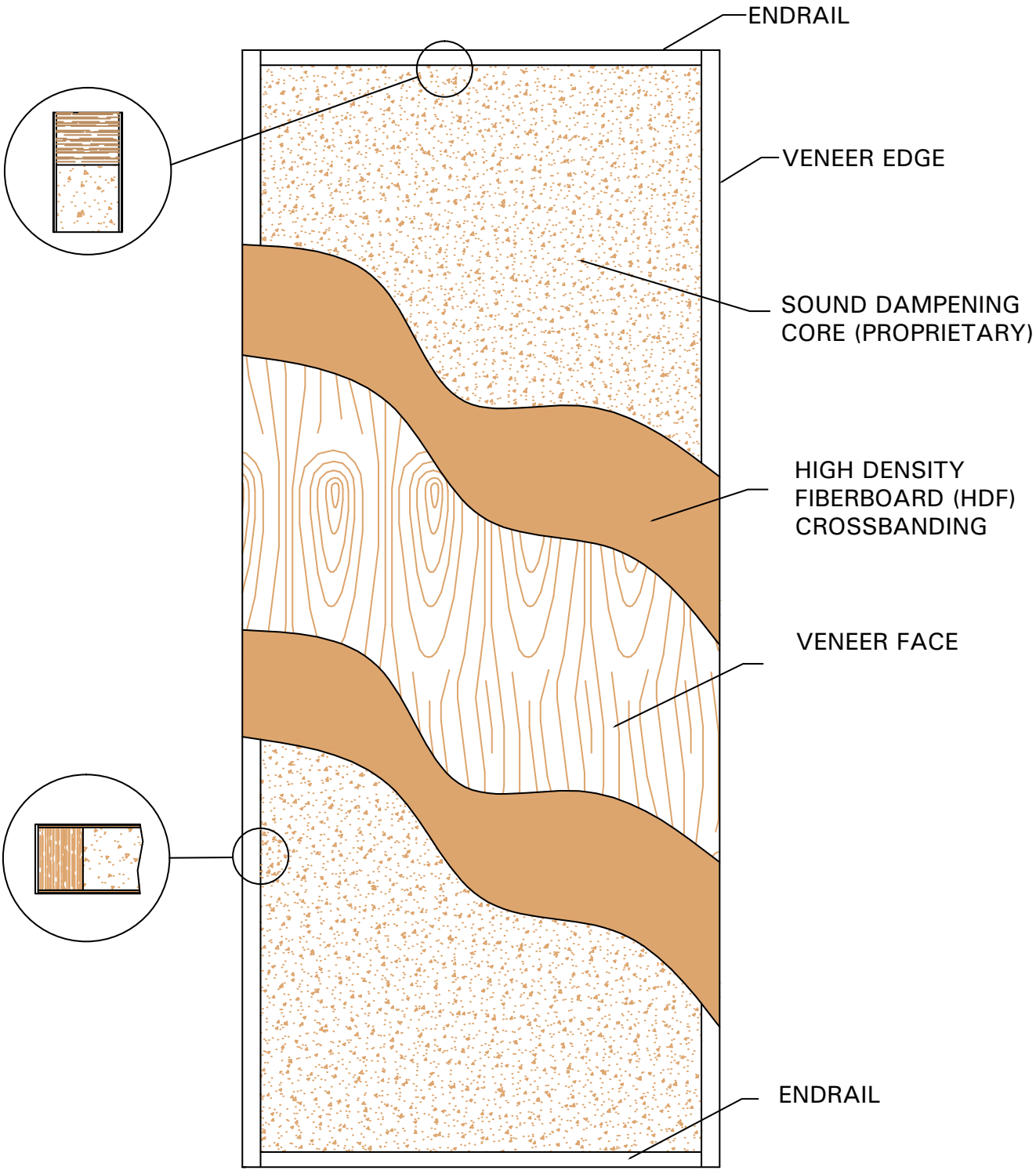
- Less than 7 pounds/sq. ft. base weight
- Lead-free
- Available with a 20-minute fire rating
- LEED® MR7- Certified Wood, MR4 - Recycled Content and EQ4.4 - No Added Urea-Fomaldehyde available

ENGINEERING SPECIFICATIONS

Sizes: Min. 2'-0" x 6'-0", Max. 4'-0" x 8'-0"
Thickness: 1-3/4"
Frame: Tested in grouted steel frame, must be installed in frame that will maintain the acoustical rating
Stiles: Meets WDMA Extra Heavy Duty I.S. 1A Performance Level
Faces: Wood Veneers, MDO, High-Pressure Decorative Laminate, Vinyl
Latching Hardware: Single Point Latch
Hinges: Level Swing - Butt Hinges
LEED® Contributions: MR7 - Certified Wood, MR4 - Recycled Content, EQ4.4 - No Added Urea-Formaldehyde
Standards: ASTM E90, E413

SINGLE SWING FLUSH DOORS	STC 33 - 39	STC 33 - 38		STC 33 - 37		
Fire-Rating	N/A	N/A		N/A		
Lites	N/A	N/A	Bead: 110 1-1/8" NR IGU 400 sq. in. max	Bead: 110 1-1/8" NR IGU 400 sq. in. max	Bead: 107 1/2" Laminated 1296 sq. in. min	Bead: 110 1-1/8" NR IGU 1296 sq. in. min
Gasket System	S or T	U	S or T	U	S or T	
Test Report	E1460.01-113-11 C7672.02A-113-17	E1460.01-113-11 C7672.02B-113-17	E1460.01-113-11 C7672.02C-113-17	E1460.01-113-11 C7672.02D-113-17	E1460.01-113-11 C7672.02E-113-11	
Weight Per. Square Foot	5.7 lbs.	5.7 lbs.	5.9 lbs.	5.9 lbs.		6.4 lbs.

SINGLE SWING FLUSH DOORS	STC 33 - 36		STC 35		STC 36
Fire-Rating	N/A		N/A	20-Minute	20-Minute
Lites	Bead: 107 1/2" Laminated 1296 sq. in. min	Bead: 110 1-1/8" NR IGU 1296 sq. in. min	Bead: 110 1-1/8" NR IGU 400 sq. in. min	N/A	N/A
Gasket System	U		O	I	P
Test Report	E1460.01-113-11 C7672.02F-113-11		TL10-144	TL10-136	100534284CRT-001I
Weight Per. Square Foot	5.9	6.4	7.3 lbs.		6.3 lbs.



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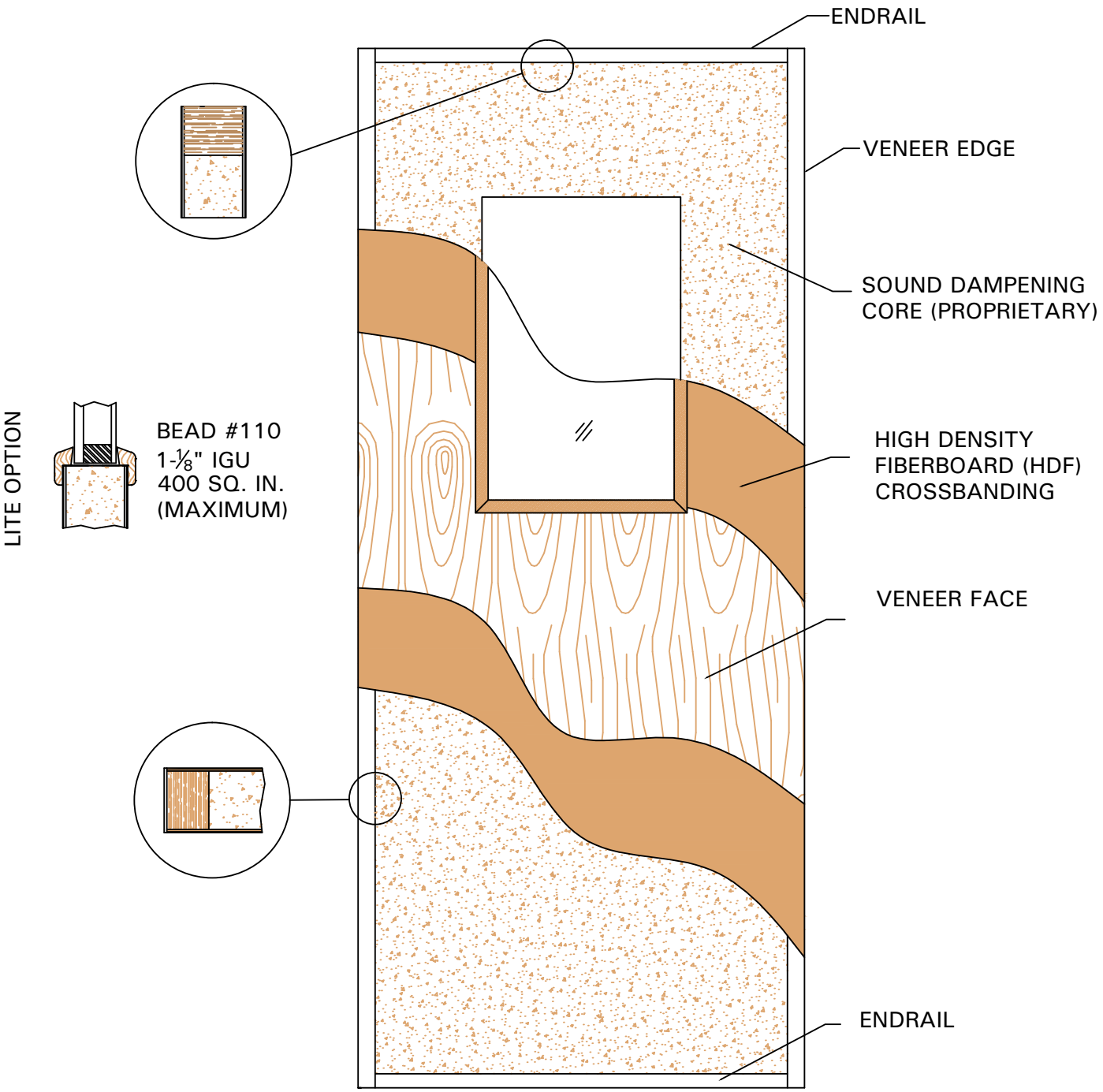
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Fax: 920.793.2958

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Fax: 920.722.0357

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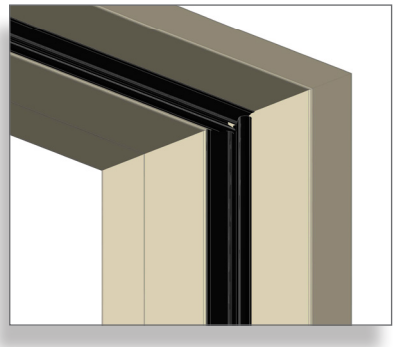
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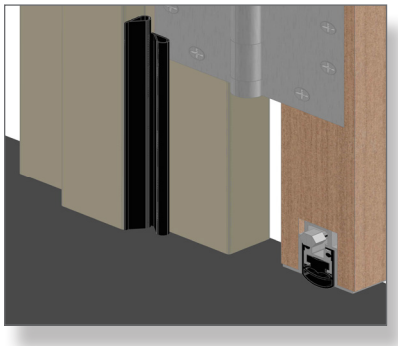
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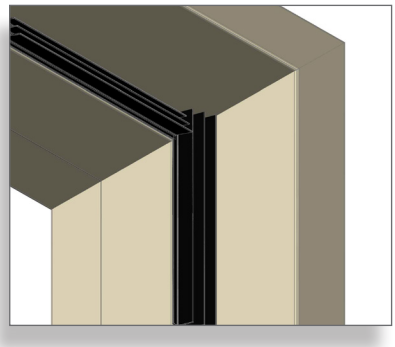
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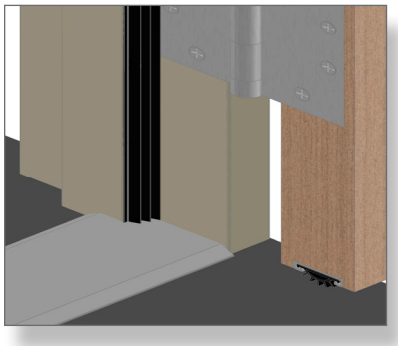




Gasket System I

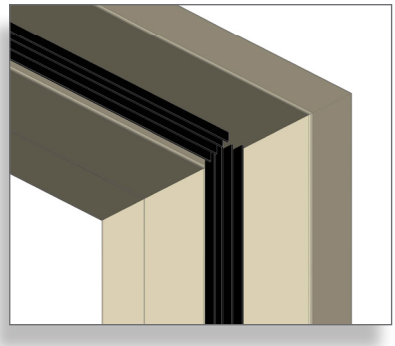
- Double row Pemko S-88 adhesive gasketing
- Zero 369 automatic door bottom
- Required Undercut - 5/8”

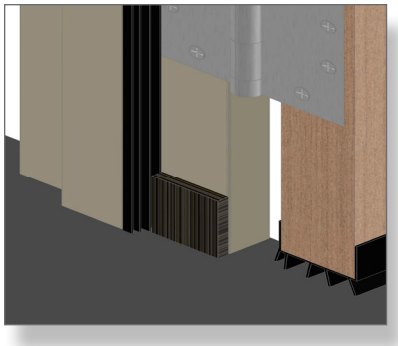




Gasket System O

- Pemko 773 adhesive gasketing
- Pemko 234 door shoe
- 1/4” flat smooth threshold (i.e. Pemko 151)
- Required Undercut - 3/8”





Gasket System P

- DHSI 105 - “Cush ‘N’ Seal”
- DHSI SA - Self Adhesive Surface Astragal
- DHSI CS - Cap Sweep Door Bottom
- DHSI DP - Decibel Plug
- Required Undercut - 3/8”

Please Note - Eggers’ standard offering for the Pemko 434 is the ARL seal and for the Pemko 2005 is the AT seal.

DHSI DP - Decibel Plugs
DP .375 (3/8”) - Solid Wood Edge Option (SWE)
DP .250 (1/4”) - Full width mortise (CS - Cap Sweep)
Please see www.dhsi-seal.com for more information on DHSI seals and gaskets.

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Stile and Rail Doors, Door Frames
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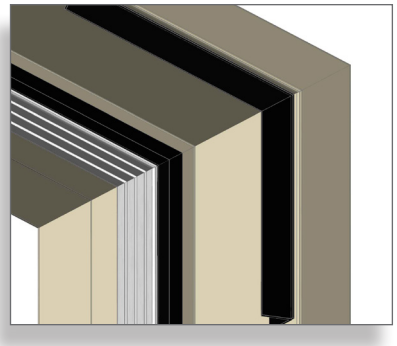
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One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

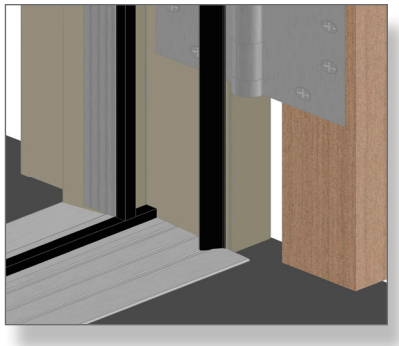
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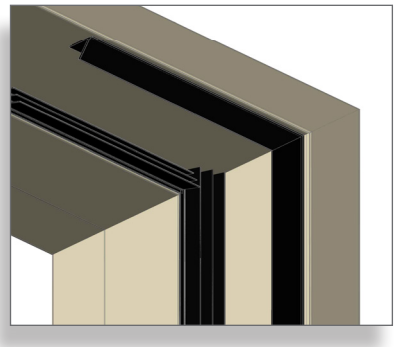
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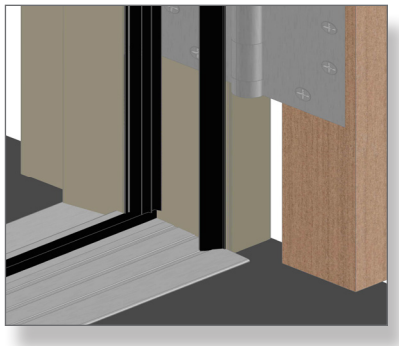




Gasket System S

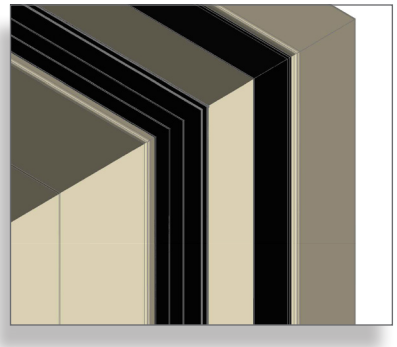
- Pemko 2008STCxQ380 raised threshold
- Pemko S44 adhesive gasketing
- Pemko 312_R perimeter gasketing
- Required Undercut - 3/8”

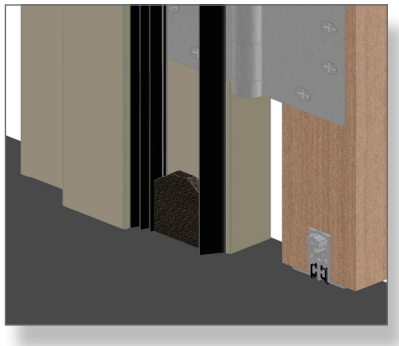




Gasket System T

- Pemko 2008STCxQ380 raised threshold
- Pemko S773 adhesive gasketing
- Pemko S44 gasketing
- Required Undercut - 3/8”





Gasket System U

- Pemko PDB411 automatic door bottom
- Pemko S773 adhesive gasketing
- Pemko S44 adhesive gasketing
- Pemko ACP112 acoustic corner pad
- Required Undercut - 3/8” (1/4” - 1/2”)

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Stile and Rail Doors, Door Frames
Veneered Components, Plywood

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TECH SHEET	SG13	Eggers Industrie
STC 36, 37, 40, 41, & 42		

Soundwood™
ACOUSTICAL WOOD PRODUCTS BY EGGERS

PRINCIPLE BENEFITS AND FEATURES OF THIS CONSTRUCTION

- Available with a 60-minute fire rating
- Provides x-ray protection with the use of safety-rated leaded glazing and lead-lined metal vision frames.
- Meets LEED® EQ. 4.4 - Low-Emitting Materials, No Added Urea Formaldehyde

ENGINEERING SPECIFICATIONS

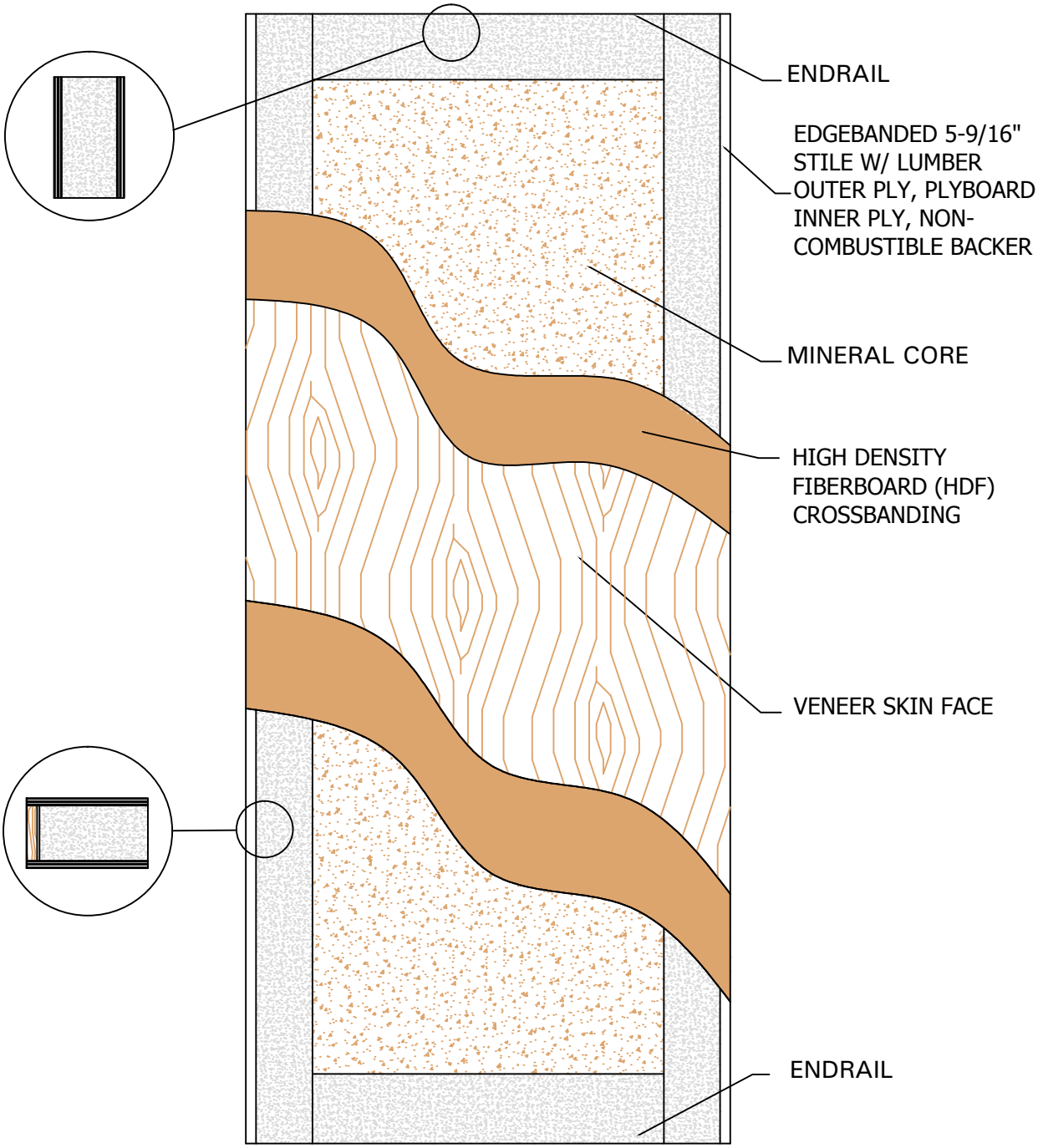
Sizes: Min. 2'-0" x 6'-0", Max. 4'-0" x 8'-0"
Thickness: 1-3/4"
Frame: Tested in grouted steel frame, must be installed in frame that will maintain the acoustical rating
Stiles: Meets WDMA Extra Heavy Duty I.S. 1A Performance Level
Faces: Wood Veneers, MDO, High-Pressure Decorative Laminate, Vinyl
Latching Hardware: Single Point Latch
Hinges: Level Swing - Butt Hinges
LEED® Contributions: MR4 - Recycled Content, EQ4.4 - No Added Urea-Formaldehyde
Standards: ASTM E90, E413

SINGLE SWING FLUSH DOORS	STC 36	STC 37	STC 40	STC 41		STC 42
Fire-Rating	45-60 Minute	45-60 Minute	45-60-Minute	45-60-Minute		45-60-Minute
Lites	N/A	VP: 115-L1 Firelite Plus/ Leaded* 100 sq. in. max	N/A	VP: 110-D2 Fire-Rated (center) & 1/4" Laminated (outer) 100 sq. in. max	N/A	VP: 110-D2 Fire-Rated (center) & 1/4" Laminated (outer) 100 sq. in. max
Gasket System	I	I	U	U	S or T	S or T
Test Report	TL05-125	TL05-126	E1460.06-113-11-R0 C7672.02P-113-17-R0	E1460.06-113-11-R0 C7672.02N-113-17-R0	E1460.06-113-11-R0 C7672.020-113-17-R0	E1460.06-113-11-R0 C7672.02M-113-17-R0
Weight Per. Square Foot	10.2 lbs.	10.3 lbs.	13.6 lbs.	13.6 lbs.		13.6 lbs.

* If x-ray shielding is not required, 1/2" laminated glass may be used in place of leaded

PERFORMANCE DESCRIPTION

STC RATING	WHAT CAN BE HEARD THROUGH THE DOOR
20 - 25	Very poor - Low speech audible
25 - 30	Poor - Normal speech understood easily and distinctly
30 - 35	Fair - Loud speech understood fairly well
35 - 40	Good - Loud speech heard but hardly intelligible, this is the onset of acoustic "privacy"
40 - 50	Very Good - Loud speech heard faintly, 90% of a typical group sample not annoyed
50 - 52	Excellent - Loud sounds heard faintly or not at all, 99% of a typical group sample not annoyed



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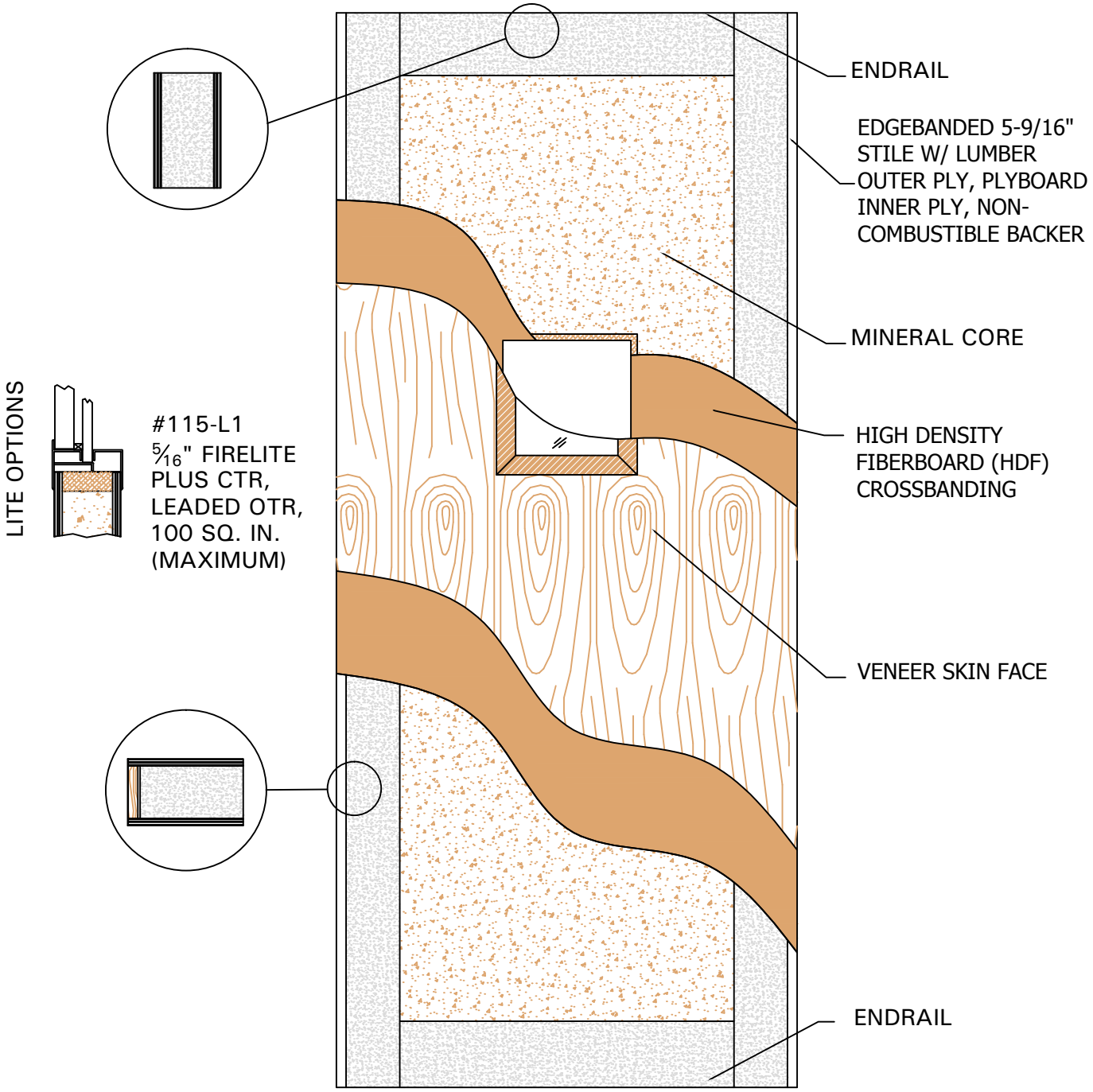
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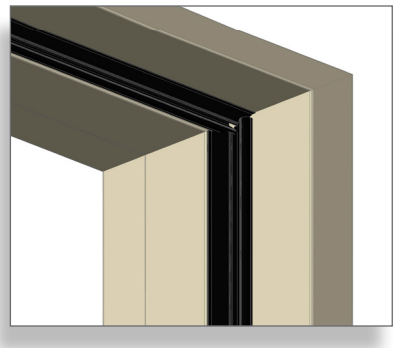
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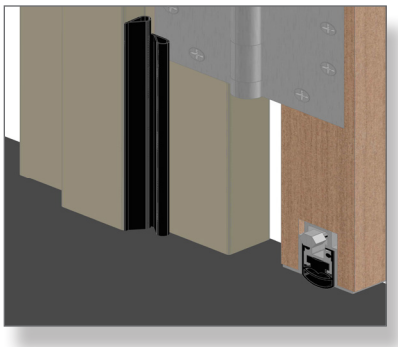
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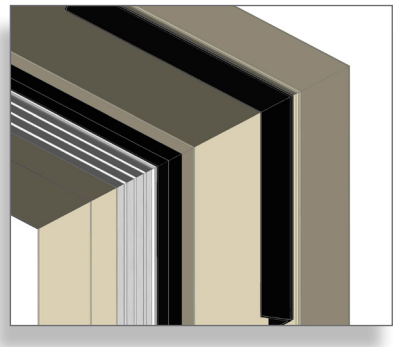
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2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.845.0615

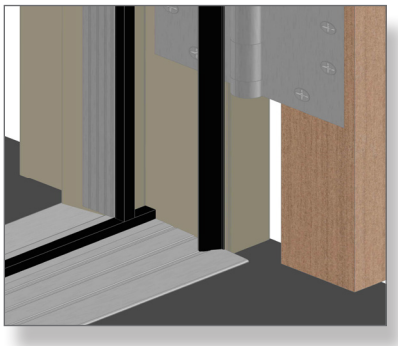




Gasket System I

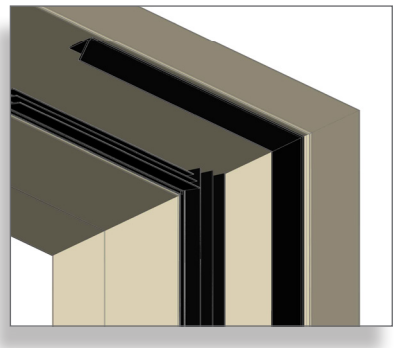
- Double row Pemko S-88 adhesive gasketing
- Zero 369 automatic door bottom
- Required Undercut - 5/8”

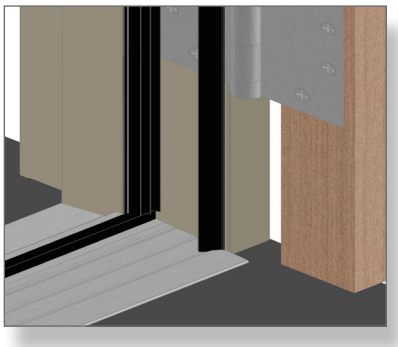




Gasket System S

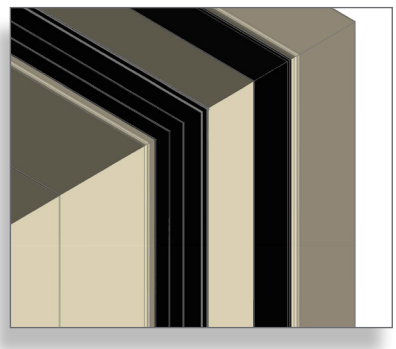
- Pemko 2008STCxQ380 raised threshold
- Pemko S44 adhesive gasketing
- Pemko 312_R perimeter gasketing
- Required Undercut - 3/8”

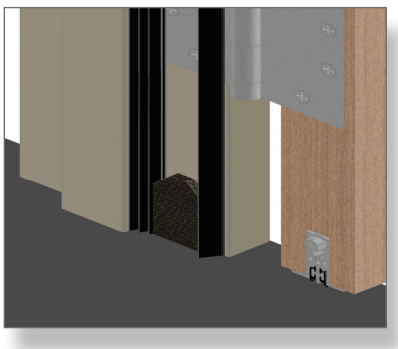




Gasket System T

- Pemko 2008STCxQ380 raised threshold
- Pemko S773 adhesive gasketing
- Pemko S44 gasketing
- Required Undercut - 3/8”





Gasket System U

- Pemko PDB411 automatic door bottom
- Pemko S773 adhesive gasketing
- Pemko S44 adhesive gasketing
- Pemko ACP112 acoustic corner pad
- Required Undercut - 3/8” (1/4” - 1/2”)

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Fax: 920.793.2958

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TECH SHEET	SG14	Eggers Industries
STC 49, 50, 51, 52		

Soundwood™
ACOUSTICAL WOOD PRODUCTS BY EGGERS

PRINCIPLE BENEFITS AND FEATURES OF THIS CONSTRUCTION

- Highest STC-rated 1-3/4" wood doors
- Nominal weight is 12.0 psf
- Includes 1/8" total lead thickness which provides x-ray protection as well as sound reduction
- Meets LEED® EQ 4.4 - Low-Emitting Materials, No Added Urea Formaldehyde Resins

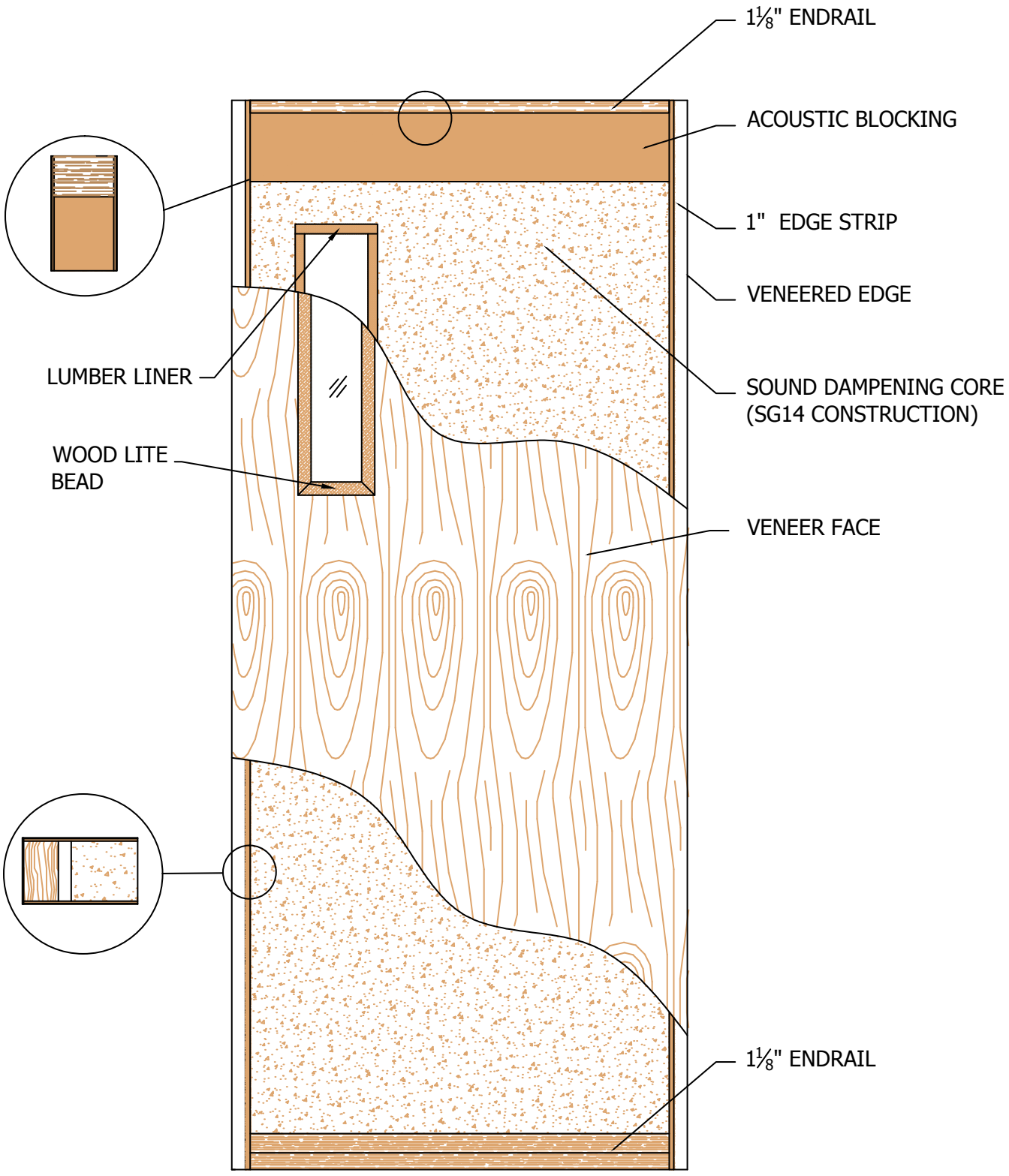
ENGINEERING SPECIFICATIONS

Sizes: Min. 2'-0" x 6'-0", Max. 4'-0" x 8'-0"
Thickness: 1-3/4"
Frame: Tested in grouted steel frame, must be installed in frame that will maintain the acoustical rating
Stiles: Meets WDMA Extra Heavy Duty I.S. 1A Performance Level
Faces: Wood Veneers, MDO, High-Pressure Decorative Laminate, Vinyl
Latching Hardware: Single Point Latch
Hinges: Level Swing - Butt Hinges
LEED® Contributions: MR4 - Recycled Content, EQ4.4 - No Added Urea-Formaldehyde
Standards: ASTM E90, E413

SINGLE SWING FLUSH DOORS	STC 46 - 49	STC 49	STC 50	STC 50 - 51	STC 52
Fire-Rating	N/A	N/A	N/A	N/A	N/A
Lites	Bead: 110 1-1/8" NR IGU 100 sq. in. max	N/A	Bead: 110 1-1/8" NR IGU 100 sq. in. max	N/A	N/A
Gasket System	U	U	S or T	S, T or U	S or T
Test Report	C7672.01A	C5765.03	C5765.04	C5765.03	C5765.03
Weight Per. Square Foot	12.0 lbs.	12.0 lbs.	12.0 lbs.	12.0 lbs.	12.0 lbs.

PERFORMANCE DESCRIPTION

STC RATING	WHAT CAN BE HEARD THROUGH THE DOOR
20 - 25	Very poor - Low speech audible
25 - 30	Poor - Normal speech understood easily and distinctly
30 - 35	Fair - Loud speech understood fairly well
35 - 40	Good - Loud speech heard but hardly intelligible, this is the onset of acoustic "privacy"
40 - 50	Very Good - Loud speech heard faintly, 90% of a typical group sample not annoyed
50 - 52	Excellent - Loud sounds heard faintly or not at all, 99% of a typical group sample not annoyed



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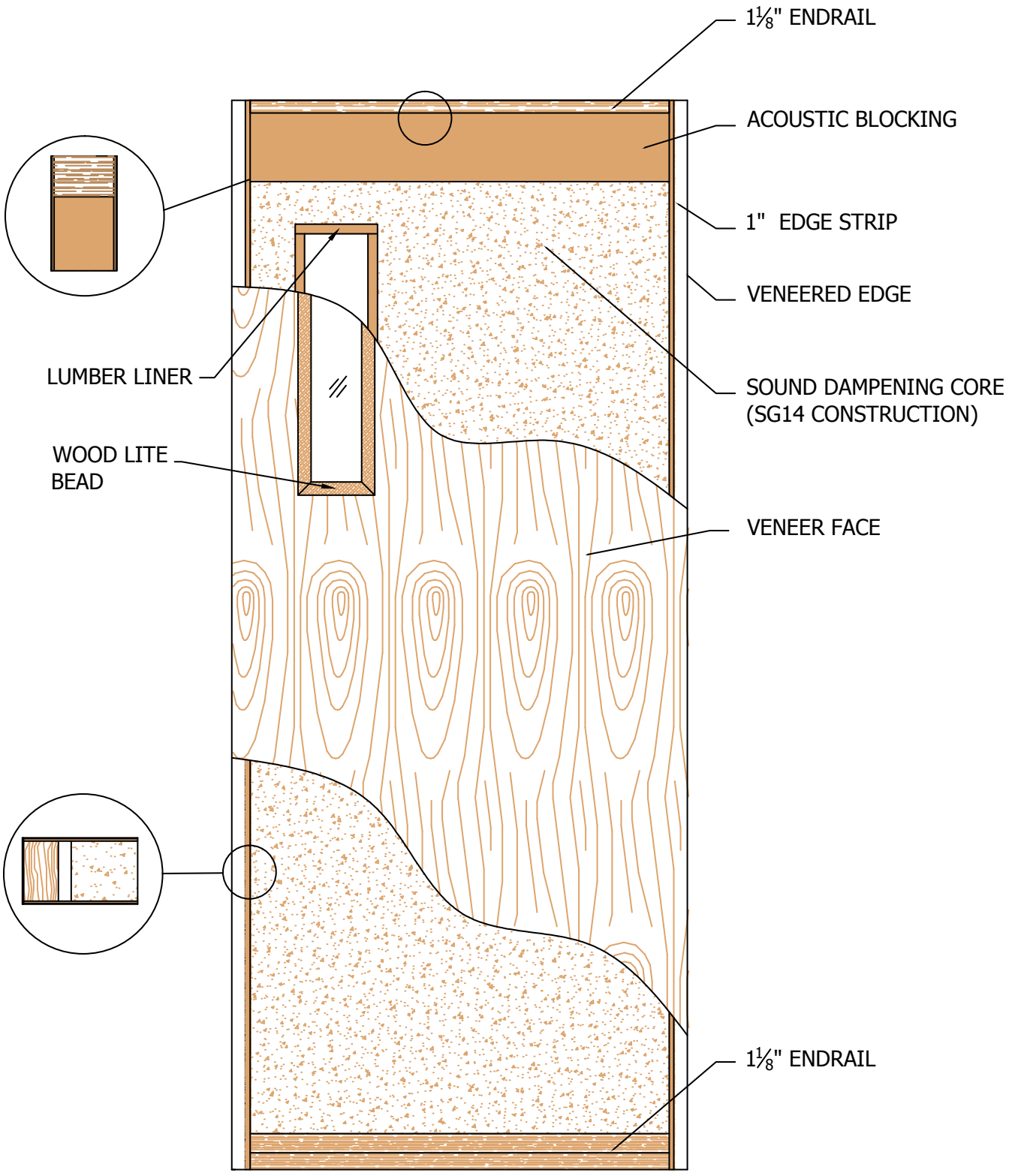
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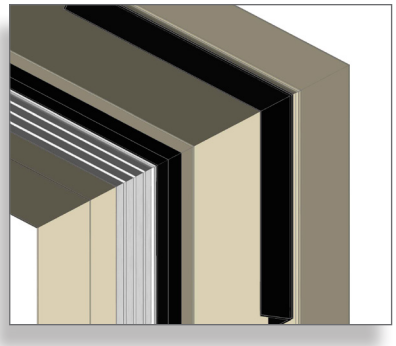
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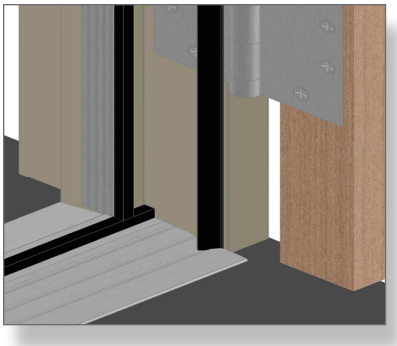
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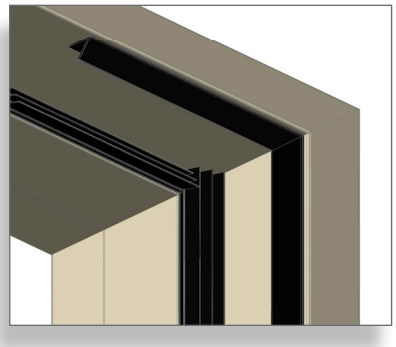
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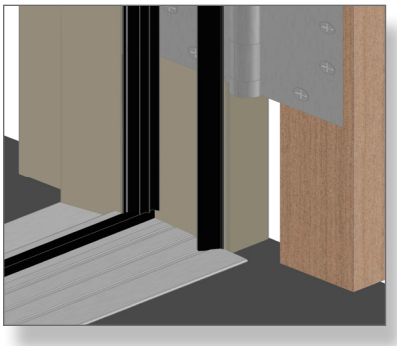




Gasket System S

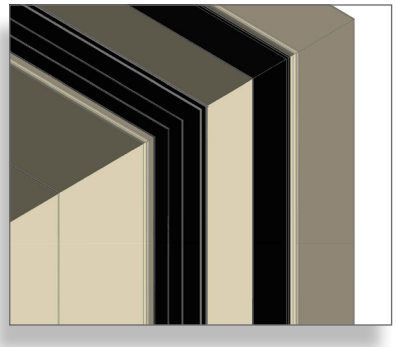
- Pemko 2008STCxQ380 raised threshold
- Pemko S44 adhesive gasketing
- Pemko 312_R perimeter gasketing
- Required Undercut - 3/8”

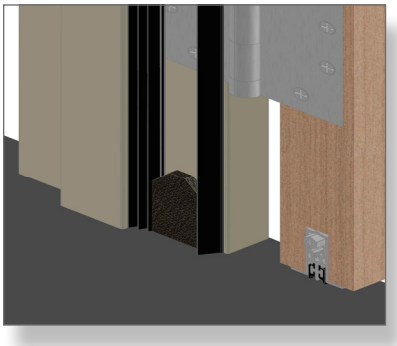




Gasket System T

- Pemko 2008STCxQ380 raised threshold
- Pemko S773 adhesive gasketing
- Pemko S44 gasketing
- Required Undercut - 3/8”





Gasket System U

- Pemko PDB411 automatic door bottom
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- Pemko ACP112 acoustic corner pad
- Required Undercut - 3/8” (1/4” - 1/2”)

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TECH SHEET	STILE & RAIL	Eggers Industries
STC 32, 33, 35, 36, 37, 38, 39, 40		

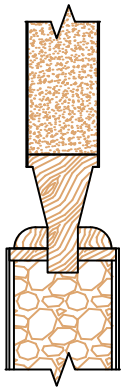
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ACOUSTICAL WOOD PRODUCTS BY EGGERS

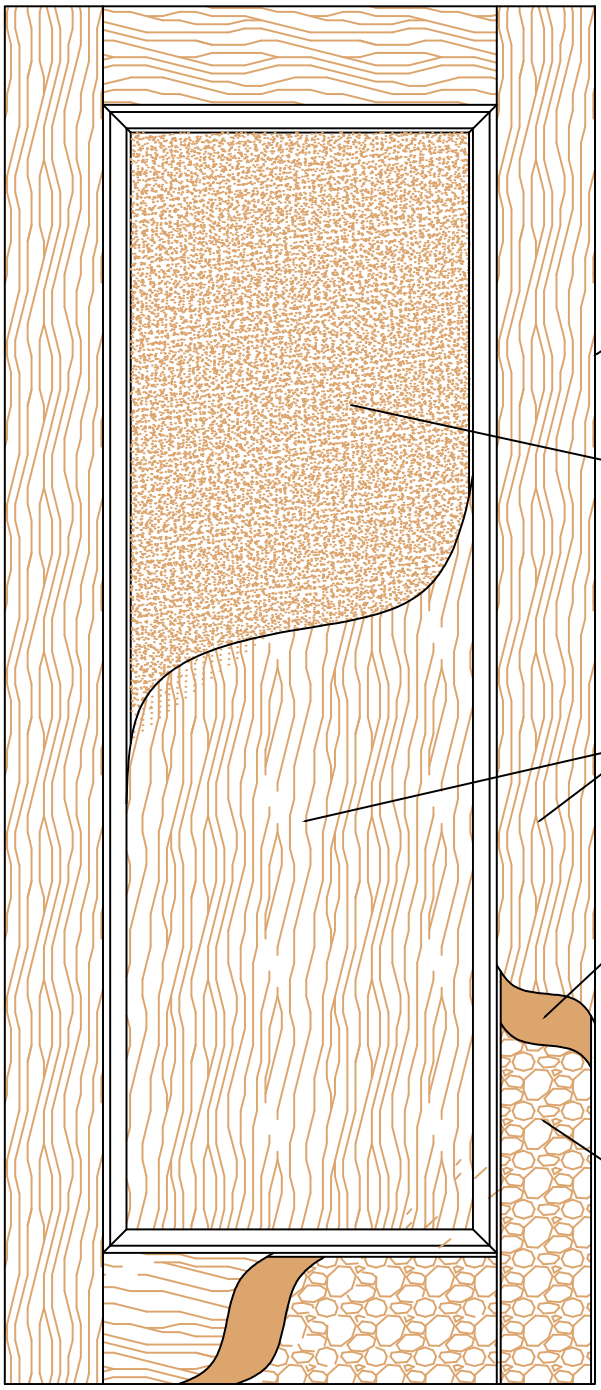
ENGINEERING SPECIFICATIONS

Sizes: Min. 2'-0" x 6'-0", Max. 4'-0" x 8'-0"
Frame: Tested in grouted steel frame, must be installed in frame that will maintain the acoustical rating
Stiles: Meets WDMA Extra Heavy Duty I.S. 1A Performance Level
Faces: Wood Veneers
Latching Hardware: Single Point Latch
Hinges: Level Swing - Butt Hinges
LEED® Contributions: MR4 - Recycled Content, EQ4.4 - No Added Urea-Formaldehyde
Standards ASTM E90, E413

SINGLE SWING STILE & RAIL DOORS	SGSCL		SGMC			SG12				
	STC 33		STC 36	STC 37	STC 38	STC 37	STC 38	STC 39	STC 40	
Thickness	2-1/4"	1-3/4"	1-3/4"	2-1/4"		1-3/4"				
Fire-Rating	20-Minute		45-60-Minute	45-60-90-Minute		Non-Rated				
Lites	N/A		N/A			N/A		Bead: 110 Non-Rated IGU 1296 sq.in. max	Bead: 110 Non-Rated IGU 400 sq.in. max	N/A
Gasket System	B		B		A	U	S or T	I	A	B
Test Report	TL97-311	TL94-41	TL97-317	TL97-312	TL97-321	E1460.07-113-11-R0 C7672.02R-113-17-R0	E1460.07-113-11-R0 C7672.02Q-113--17-R0	TL05-123	TL99-122	TL99-120
Weight Per Square Foot	6.9 lbs.	5.9 lbs.	9.7 lbs.	12.5 lbs.		7.6 lbs.		7 lbs.	8.3 lbs.	

ACTIVE-ACTIVE PAIRED STILE & RAIL DOORS	SGSCL	SGMC	SG12
	STC 32	STC 35	STC 37
Thickness	1-3/4"	1-3/4"	1-3/4"
Fire-Rating	20-Minute	45-60-Minute	Non-Rated
Lites	N/A	N/A	N/A
Gasket System	K	K	K
Test Report	TL11-107	TL11-108	TL11-109
Weight Per Square Foot	5.7 lbs.	10.2 lbs.	7.9 lbs.





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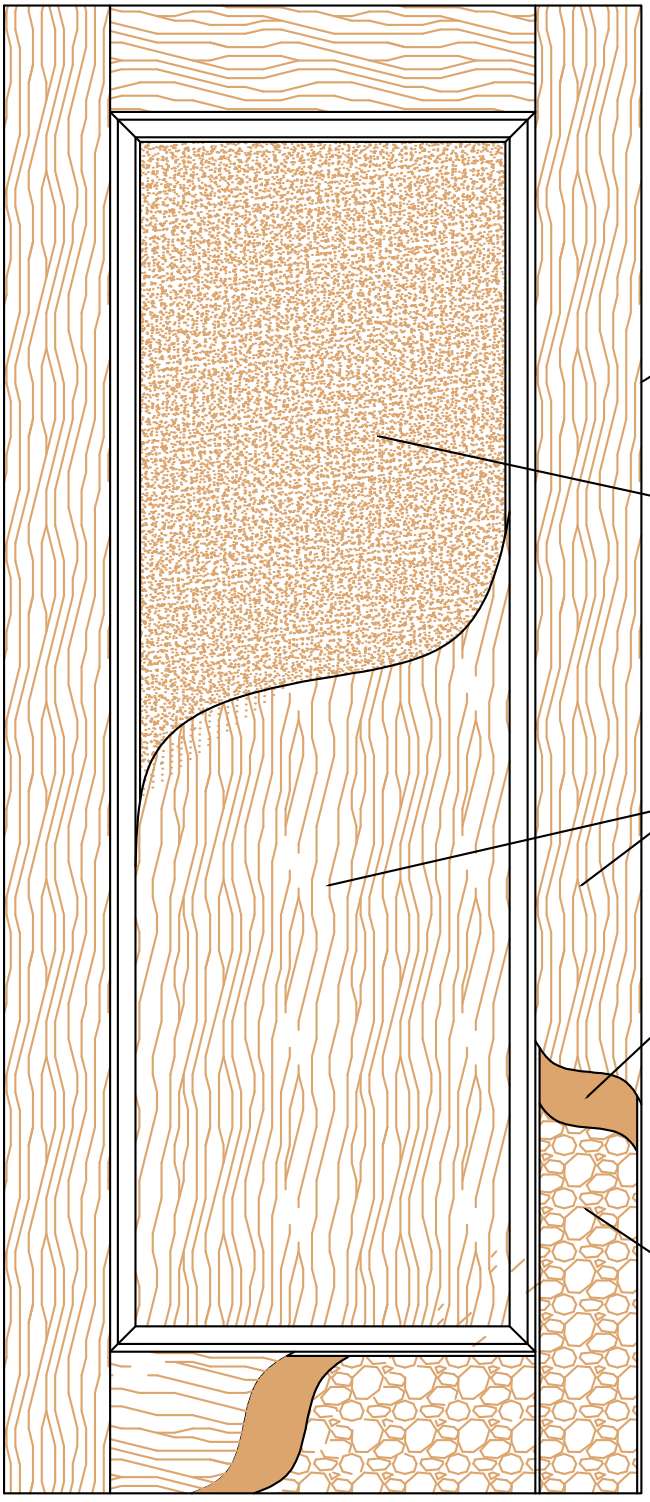
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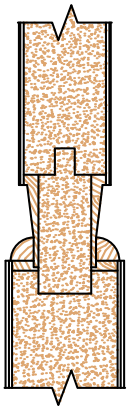
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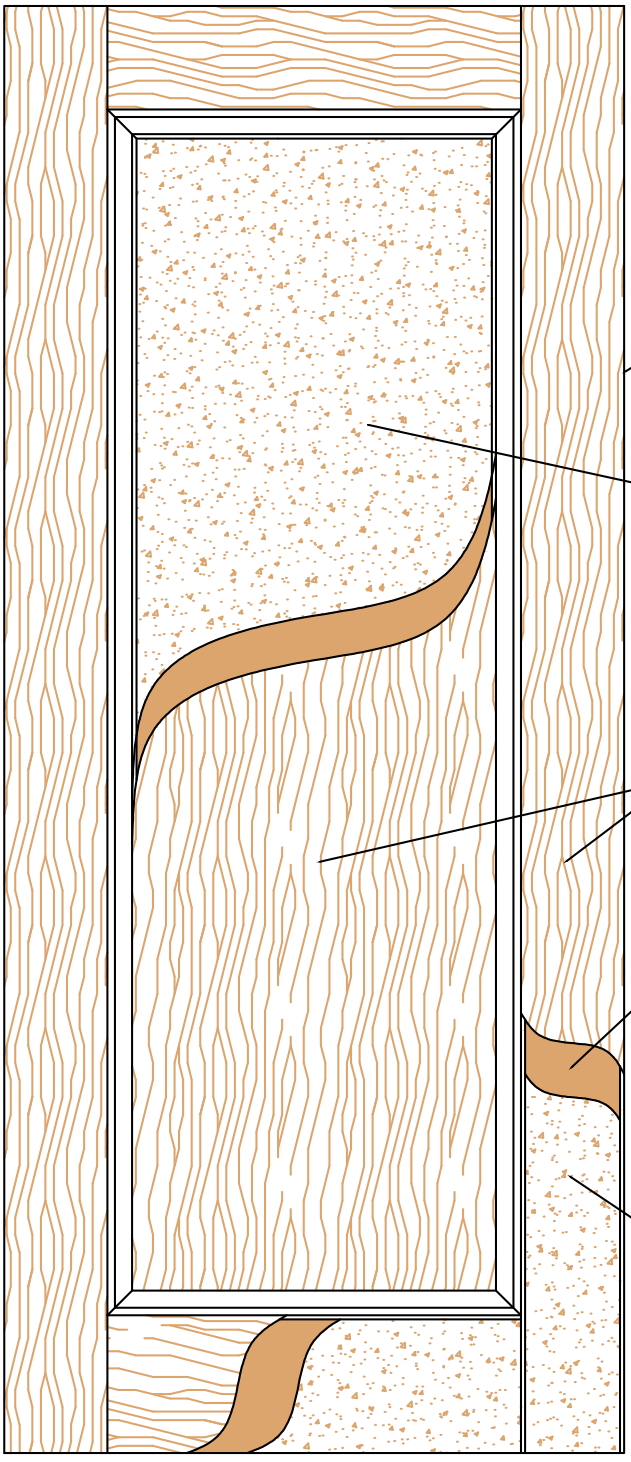
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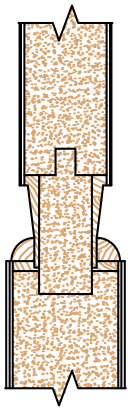
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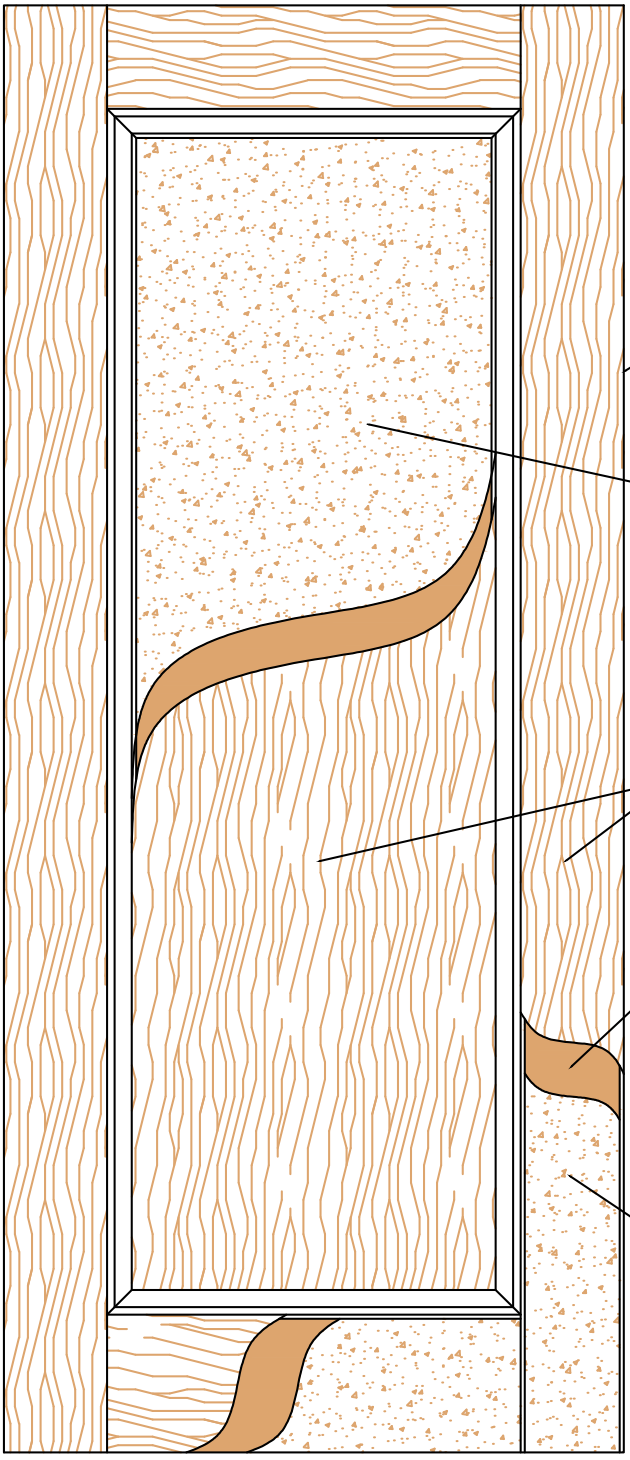
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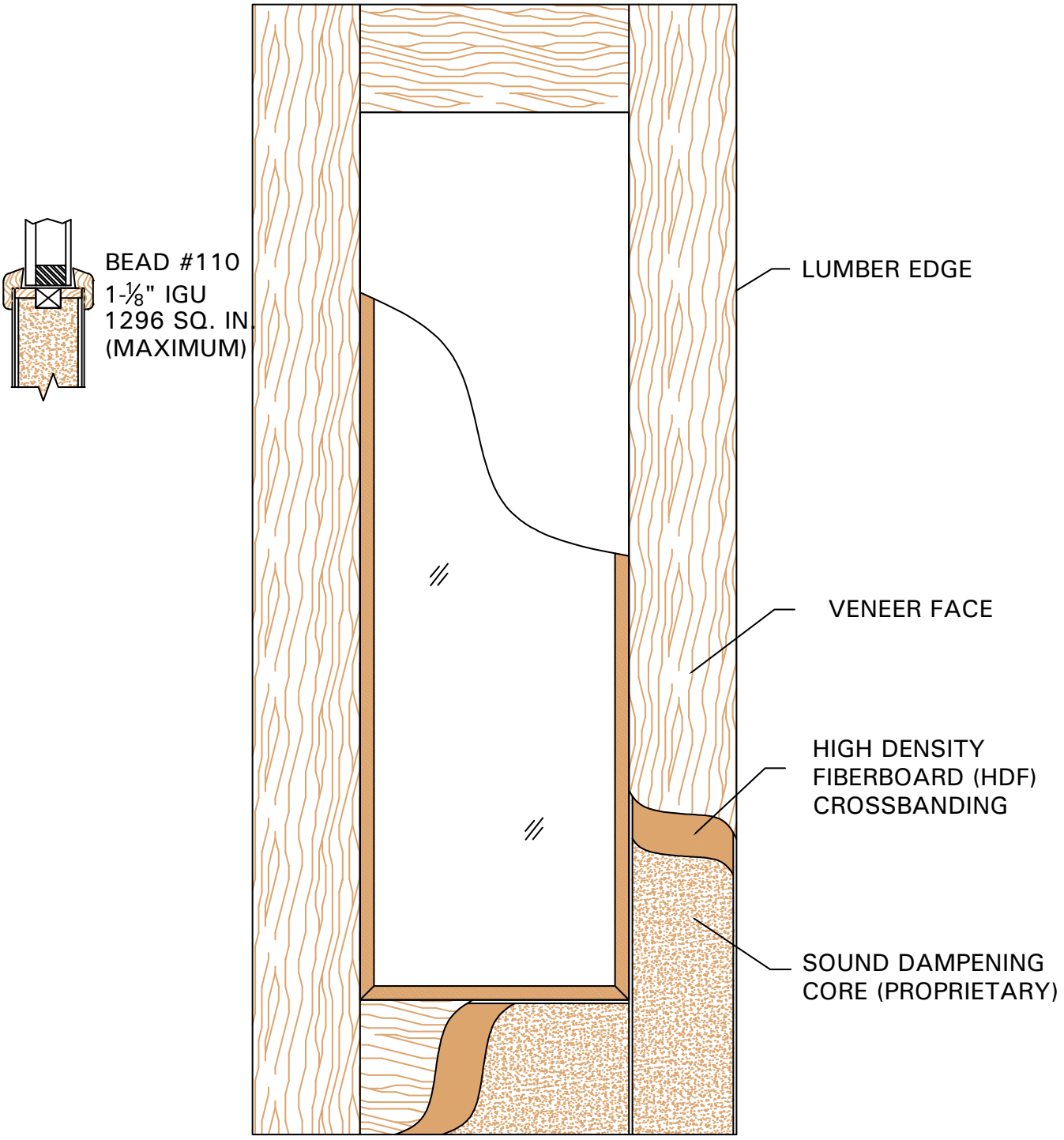
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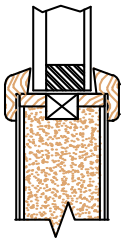
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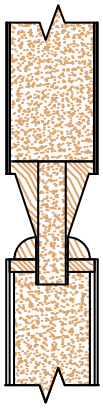
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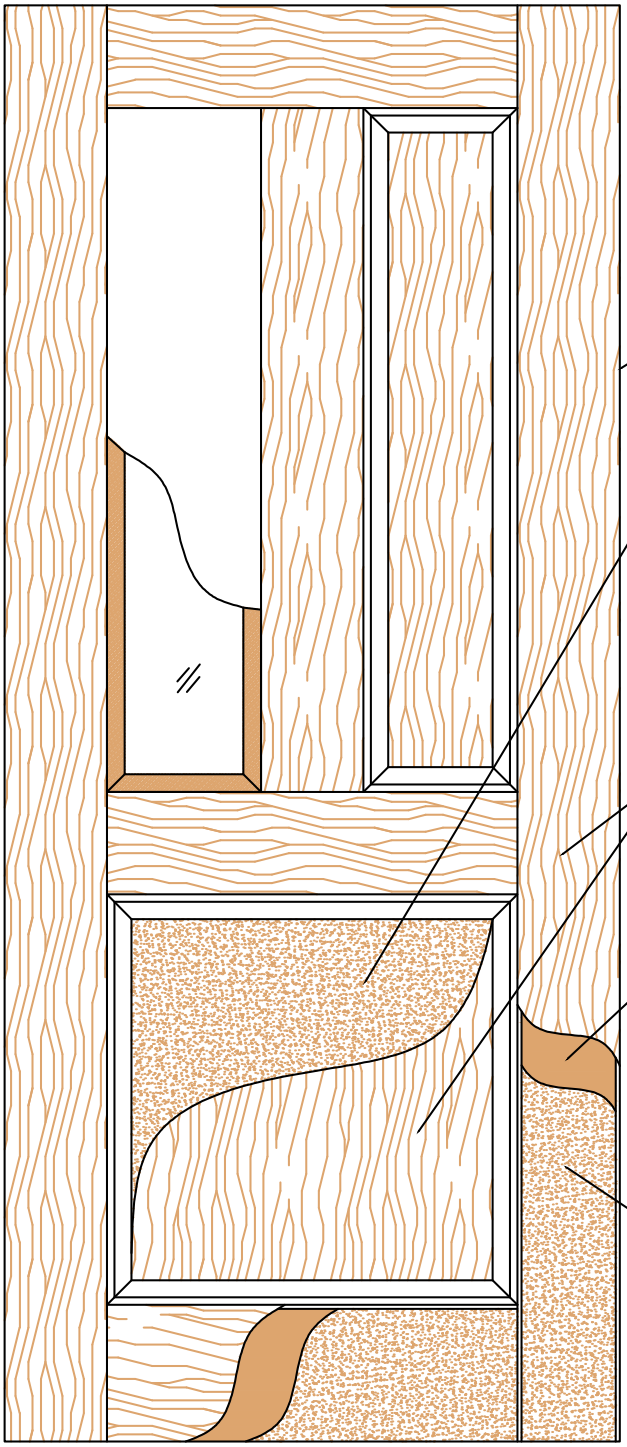
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1-⅛" IGU
400 SQ. IN.
(MAXIMUM)





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CORE (PROPRIETARY)

VENEER FACE

HIGH DENSITY
FIBERBOARD (HDF)
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SOUND DAMPENING
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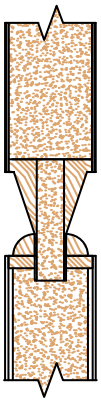
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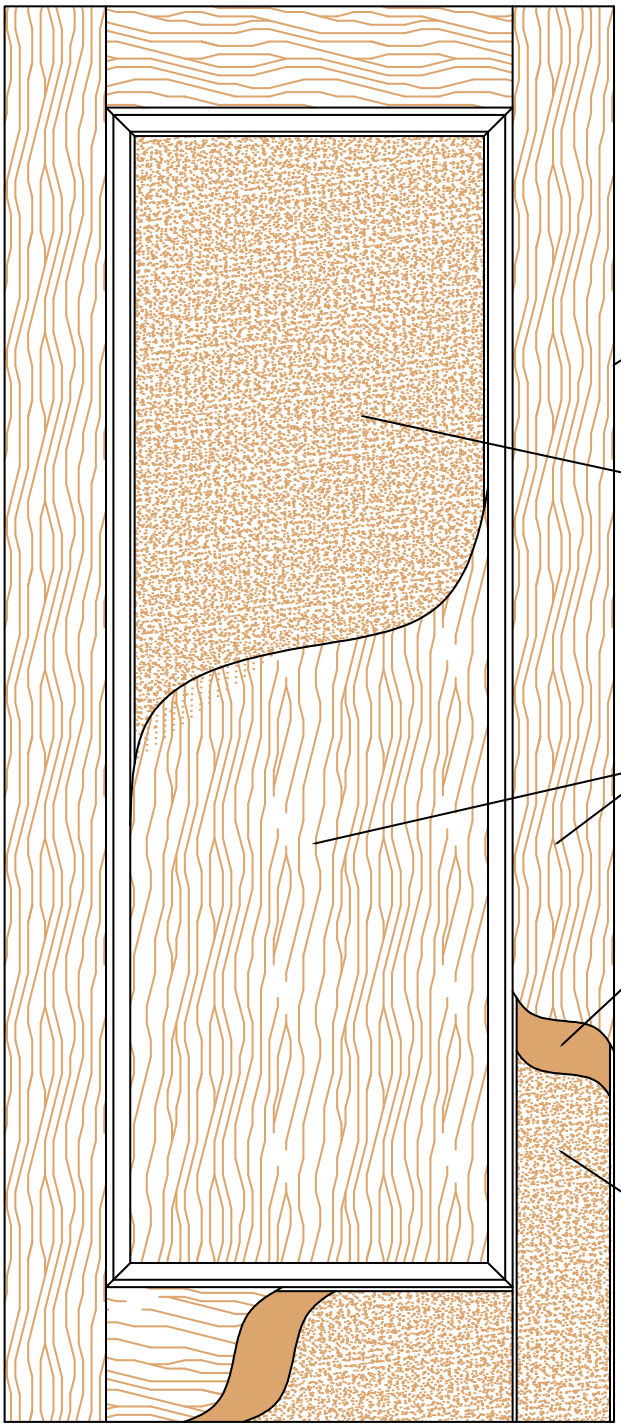
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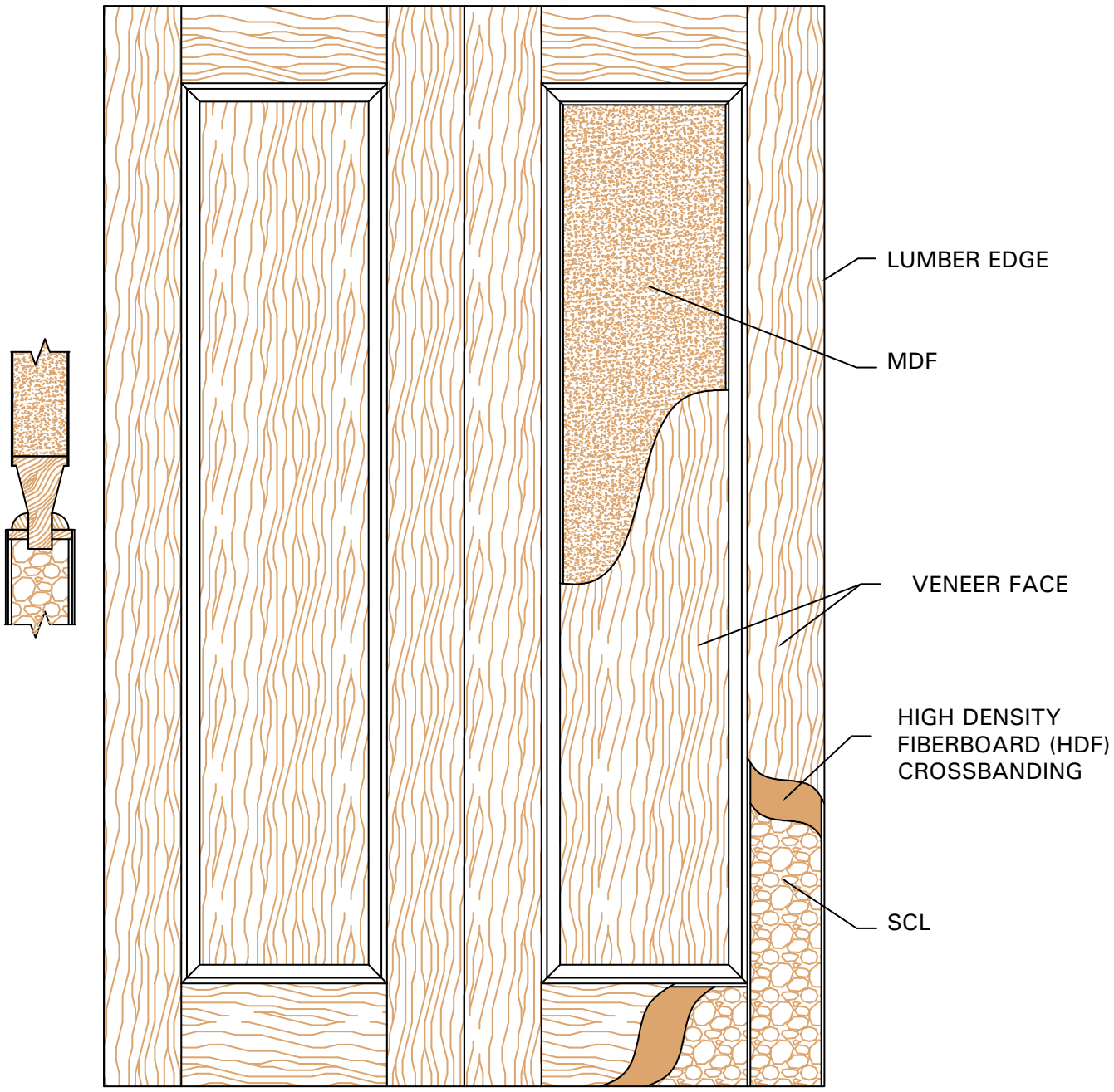
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Stile and Rail Doors, Door Frames
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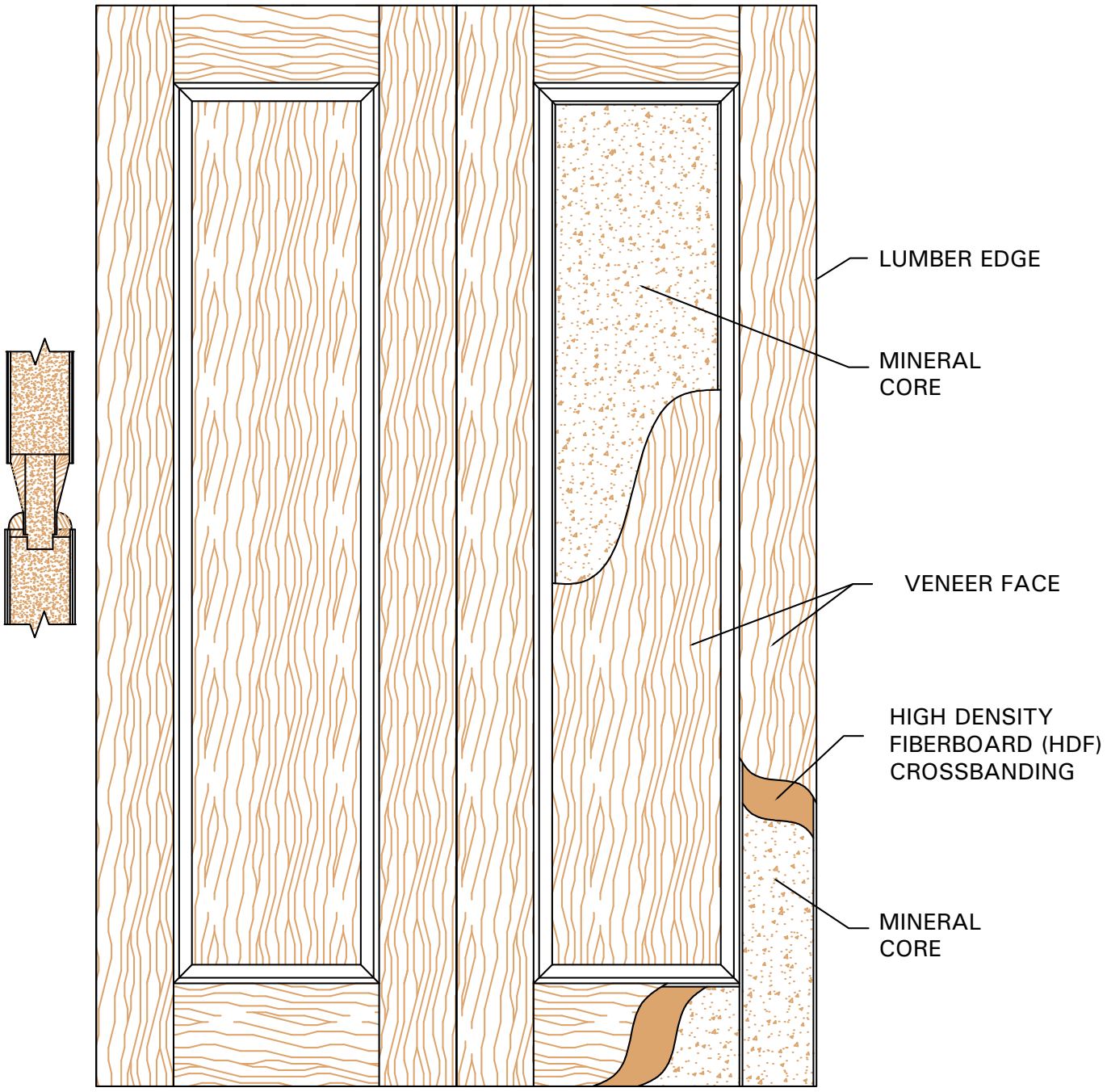
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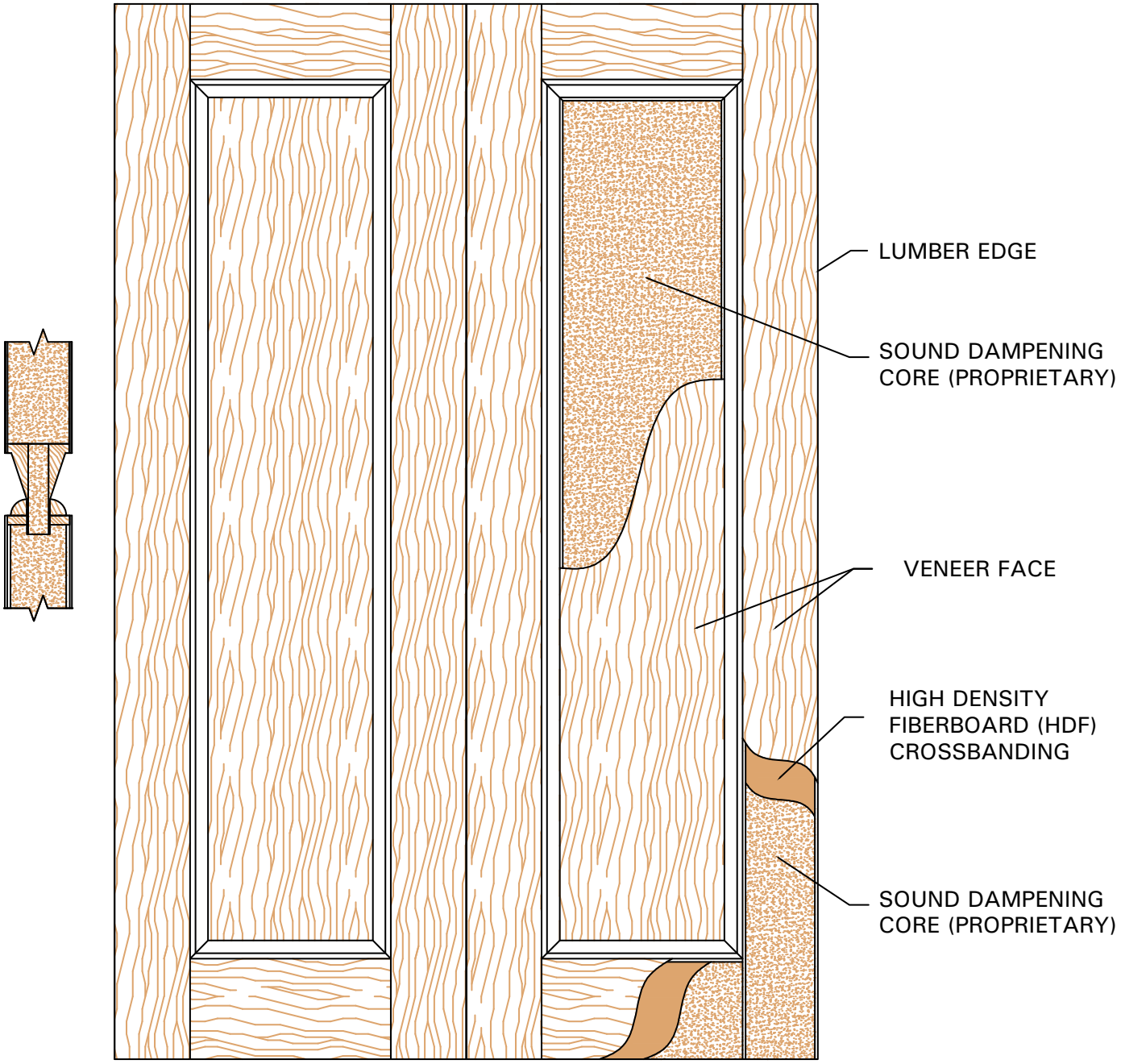
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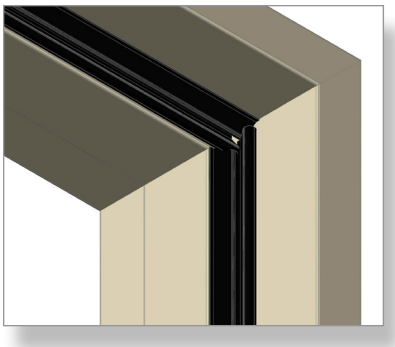
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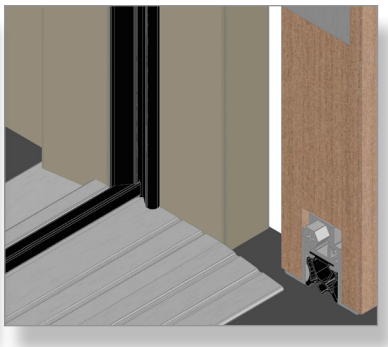
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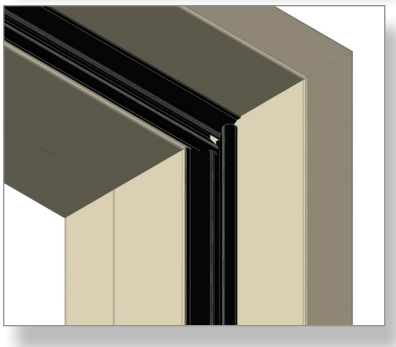




Gasket System A

Double row Pemko S-88 gasket, Pemko 434 door bottom, Pemko 2005 threshold

Required Undercut: 1/2”

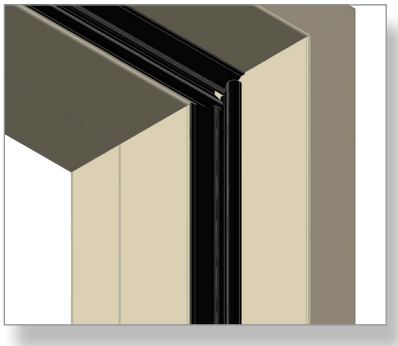




Gasket System B

Double row Pemko S-88 gasket, Pemko 434 door bottom

Required Undercut: 1/4”

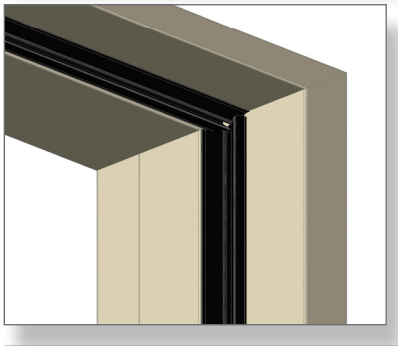


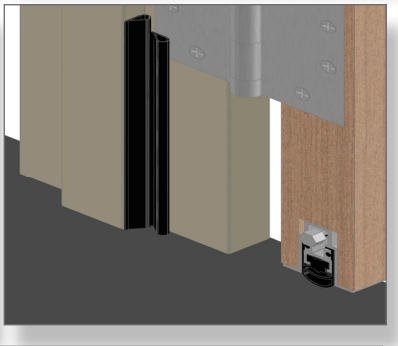


Gasket System I

Double row Pemko S-88 gasket, Zero 369 door bottom

Required Undercut: 5/8”





Gasket System K

- Double row Pemko S-88 adhesive gasketing and pad[1] on frame
- Zero 369 automatic door bottom
- Pemko S-1125 (proprietary) adhesive gasketing on each meeting edge
- Required Undercut - 5/8”

[1]Eggers used a 1/4” adhesive-backed foam pad.



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Positive Pressure with Acoustic Constructions

Information Bulletin

No. 436-10-08

Eggers Industries

The chart below identifies the availability of our various acoustic door constructions (Sound Groups) based on the positive pressure category. Sound Group 1 is not included in this list because it is composed of standard core constructions, and generally available as either Category A or B.

The general rule is door constructions that include multi-laminate faces containing vinyl or lead are not available as Category A assemblies.

Sound Group Construction	Available as Category A	Available as Category B
2	No	Yes
3	Yes	Yes
4	No	Yes
5	No	Yes
6	No	Yes
7	No	Yes
8	No	Yes
9	Yes	No

Note: Our 45- and 60-minute lead doors utilize the same face construction as the Sound Group 8 acoustic doors. For this reason they also are not available as Category A assemblies.

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Drop Seals
(Automatic Door Bottoms)

Information Bulletin 232

Date: November, 2011

Eggers Industries

Automatic door bottoms will require an oversize bottom rail. This rail will automatically be included in the price. This is for non-rated and fire-rated doors including acoustical doors.

Conflicts with automatic door bottoms occur when other hardware is prepped in the bottom rail of the door like concealed vertical rod bottom latching, bottom flush bolts and auxiliary fire latches. When this happens we can mortise for the automatic door bottom to within ½" of the conflicting prep as long as that prep for the automatic door bottoms is not less that 18" long; automatic door bottoms are not available in sizes less that 18".

Note: The STC rating of acoustical doors will be void where door bottoms do not extend the full width of the door.

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Pairs with Different Core Types

Information Bulletin #328

Date: August, 2017

Eggers Industries

In accordance with the limitations shown below, Eggers will construct pairs of doors having different core types. In addition, a flush leaf may be paired with a stile & rail leaf.

Specific application rules:

- Because different core react differently to fire, both leaves of a fire-rated pair must be constructed of the same core type.
- Where bullet-resistance is required, both leaves are required to have the same construction.
- Where lead-lining is involved (other than designed acoustical core construction SG-5, SG-6, SG-14 and SG-16) both leaves must include lead. The lead thickness and the core type may differ between the two leaves.
- Where one leaf is includes a designed acoustical core construction (SG-3, SG-4, SG-5, SG-6, SG-12, SG-14 and SG-16) the other must be a designed acoustical core construction, though not necessarily the same construction [example one leaf could be SG-4 and the other SG-5]. No STC guaranty is available for such combinations.

Special Notes:

1. Availability of face-matching may be limited, based on the constructions selected,
2. Hardware options and maximum opening height may be limited by the combination selected,
3. Some combination may impact lead-time

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Flush Doors

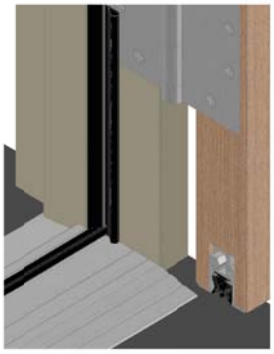
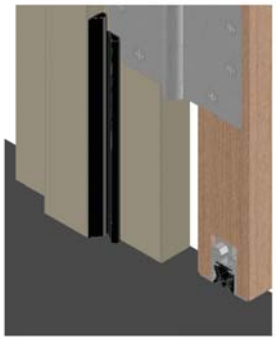
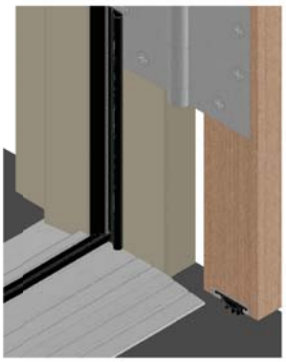
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SOUNDWOOD GASKET SYSTEMS
Information Bulletin 464

Date: May, 2014

Eggers Industries

Gasket System	Description	Top View	Bottom View
A	▪ Double row Pemko S-88 adhesive gasketing ▪ Pemko 434 automatic door bottom ▪ Pemko 2005 raised threshold Required Undercut – ½”		
B	▪ Double row Pemko S-88 adhesive gasketing ▪ Pemko 434 automatic door bottom Required Undercut – ¼”		
C	▪ Double row Pemko S-88 adhesive gasketing ▪ Pemko 234 door shoe ▪ Pemko 2005 raised threshold Required Undercut – 3/8”		
I	▪ Double row Pemko S-88 adhesive gasketing ▪ Zero 369 automatic door bottom Required Undercut – 5/8”		

SOUNDWOOD GASKET SYSTEMS
Information Bulletin 464

Date: May, 2014

Eggers Industries

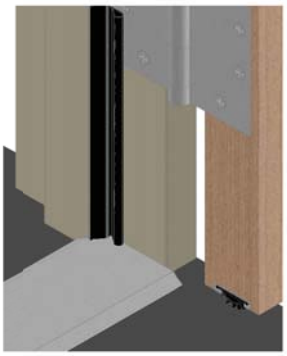
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Double row Pemko S-88 adhesive gasketing and pad[1] on frame
Zero 369 automatic door bottom

[1] Eggers used a ¼” adhesive-backed foam pad.
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<tr>
<td>Pemko S-1125 (proprietary) adhesive gasketing on each meeting edge

Required Undercut – 5/8”</td>
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Double row Pemko S-88 adhesive gasketing
Pemko 234 door shoe
¼” flat smooth threshold (i.e. Pemko 151)

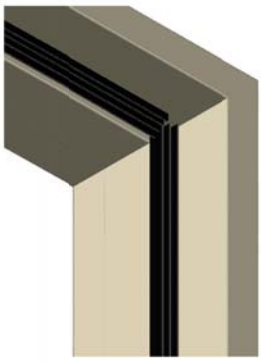
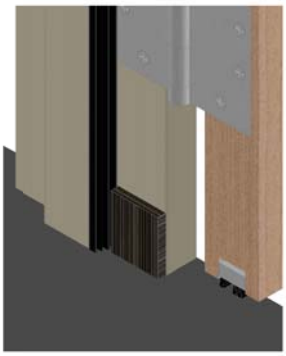
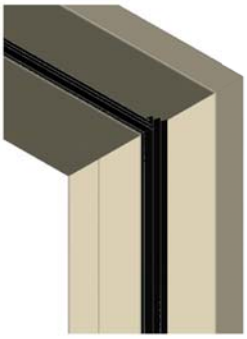
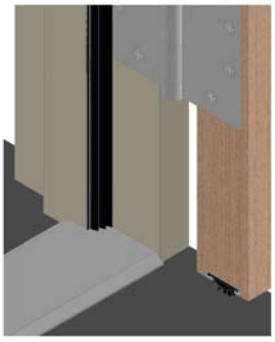
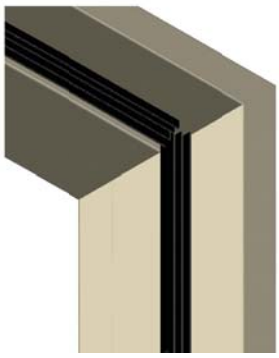
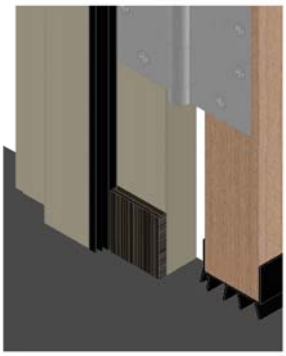
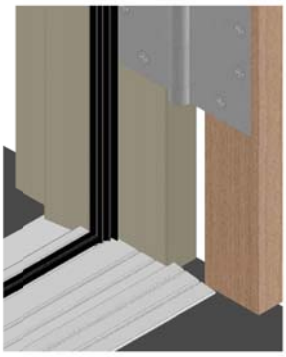
Required Undercut – 3/8”
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SOUNDWOOD GASKET SYSTEMS

Information Bulletin 464

Date: May, 2014

Eggers Industries

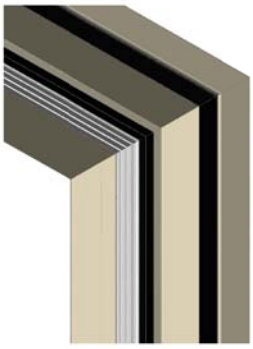
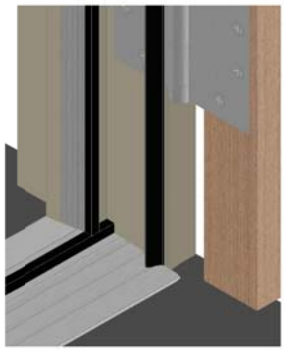
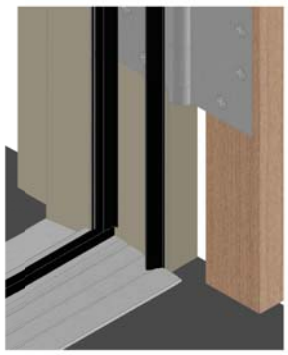
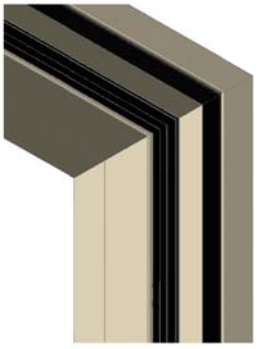
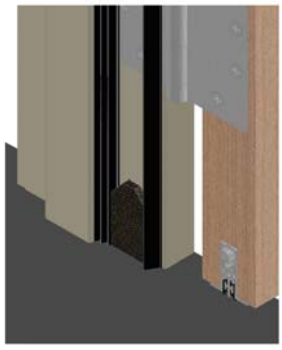
N	▪ DHSI 105 – “Cush ‘N’ Seal” ▪ DHSI AMDB3-3 - Adjustable Mortise Door Bottom ▪ DHSI DP - Decibel Plug Required Undercut – 1/4” to 3/8”		
O	▪ Pemko 773 adhesive gasketing ▪ Pemko 234 door shoe ▪ ¼” flat smooth threshold (i.e. Pemko 151) Required Undercut – 3/8”		
P	▪ DHSI 105 – “Cush ‘N’ Seal” ▪ DHSI SA – Self Adhesive Surface Astagal ▪ DHSI CS - Cap Sweep Door Bottom ▪ DHSI DP- Decibel Plug Required Undercut – 3/8”		
Q	▪ DHSI 105 – “Cush ‘N’ Seal” ▪ Pemko 2005 raised threshold Required Undercut – 3/8”		

SOUNDWOOD GASKET SYSTEMS

Information Bulletin 464

Date: May, 2014

Eggers Industries

R	▪ Zero 119W bronze cushion spring ▪ Zero 8145S adhesive door seal ▪ Zero 369 automatic door bottom Required Undercut – 5/8”		
S	▪ Pemko 2008STCxQ380 raised threshold ▪ Pemko S44 adhesive gasketing ▪ Pemko 312_R perimeter gasketing Required Undercut – 3/8”		
T	▪ Pemko 2008STCxQ380 raised threshold ▪ Pemko S773 adhesive gasketing ▪ Pemko S44 adhesive gasketing Required Undercut – 3/8”		
U	▪ Pemko PDB411 automatic door bottom ▪ Pemko S773 adhesive gasketing ▪ Pemko S44 adhesive gasketing ▪ Pemko ACP112 acoustic corner pad Required Undercut – 3/8” (1/4” – ½”)		

SOUNDWOOD GASKET SYSTEMS

Information Bulletin 464

Date: May, 2014

Eggers Industries

Please Note -
Eggers standard offering for the Pemko 434 is the ARL seal and for the Pemko 2005 is the AT seal.

DHSI DP – Decibel Plugs
DP .375 (3/8”) – Solid Wood Edge Option (SWE)
DP .250 (1/4”) – Full width mortise

Please see www.dhsi-seal.com for more information on DHSI seals and gaskets.

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Wood Beads for Lites in Acoustic Doors

Information Bulletin 456

Date: October, 2011

Eggers Industries

Eggers 100 bead for ½" glass may be used on STC rated doors without voiding the STC guaranty.

Acoustic doors having ½" laminated glazing no longer require lipped wood beads to maintain the STC rating. Recent testing confirmed that as long as the beads include a continuous bead or caulking where the Bead/Glass/Door come together the lipped beads and flush beads provide the same performance.

Glazing thicker than ½" will still require a lipped bead to provide nail holding not available with narrow beads.

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ACOUSTIC GASKET SYSTEMS

Installation Instruction 109

Date: June, 2013

Eggers Industries

Installation of Perimeter Seals: Gasket System A

1. Install the Pemko 434 door bottom in accordance with the manufacturer's instructions prior to hanging the door. Eggers recommends countersinking the mounting holes and replacing the round-head mounting screws with flat-head screws to attach the door bottom to the door. This will increase the clearance between door bottom and threshold.

2. Turn the adjustment screw on the door bottom in so that the seal will not activate when the door is closed.

3. Hang the door and adjust for proper clearances.

4. Install the Pemko 2005 threshold within the opening. The threshold should be installed parallel to the bottom of the door, shimming if required. A sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Thresholds should not be mounted over carpeting as this will not allow a good seal.

5. Prepare the frame by cleaning the jamb, header and stops where the S-88 seals will be applied.

6. Measure, cut and apply the S88 (teardrop-shaped) gasket to the frame stop, insuring a good seal in the corners (see photo 1). The Pemko S-88 should be full height or width of the opening and should not be spliced.

7. Turn the adjustment screw on the door bottom out to the point where the seal makes uniform firm contact with the sill when the door is closed.

Photo 1



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ACOUSTIC GASKET SYSTEMS

Installation Instruction 110

Date: June, 2013

Eggers Industries

Installation of Perimeter Seals: Gasket System B

1. Install the Pemko 434 door bottom in accordance with the manufacturer's instructions prior to hanging the door.

2. Turn the adjustment screw on the door bottom in so that the seal will not activate when the door is closed.

3. Hang the door and adjust for proper clearances.

4. Prepare the frame by cleaning the jamb, header and stops where the S-88 seals will be applied.

5. Measure, cut and apply the S88 (teardrop-shaped) gasket to the frame stop, insuring a good seal in the corners (see photo 1). The Pemko S-88 should be full height or width of the opening and should not be spliced.

6. Turn the adjustment screw on the door bottom out to the point where the seal makes uniform firm contact with the sill when the door is closed. If a flat threshold is being used as the sill a sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Door bottoms should not be used over carpeted sills as this will not provide a good seal.

Photo 1



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ACOUSTIC GASKET SYSTEMS
Installation Instruction 111

Date: June, 2013

Eggers Industries

Installation of Perimeter Seals: Gasket System C

1. Install the Pemko 234 door shoe in the groove machined in to bottom of the door in accordance with the manufacturer's instructions prior to hanging the door.

2. Hang the door and adjust for proper clearances.

3. Install the Pemko 2005 threshold within the opening. The threshold should be installed parallel to the bottom of the door, shimming if required. When properly installed there should be a 1/8" clearance between the bottom of the door and the threshold when the door is closed. This will allow for 1/8" compression of the door shoe. A sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Thresholds should not be mounted over carpeting as this will not allow a good seal.

4. Prepare the frame by cleaning the jamb, header and stops where the S-88 seals will be applied.

5. Measure, cut and apply the S88 (teardrop-shaped) gasket to the frame stop, insuring a good seal in the corners (see photo 1). The Pemko S-88 should be full height or width of the opening and should not be spliced.

Photo 1



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Installation Instructions 112
Acoustic Gasket Systems

April, 2017

INSTALLATION OF PERIMETER SEALS: GASKET SYSTEM I

1. Install the automatic door bottom in accordance with the manufacturer's instructions prior to hanging the door.
2. Turn the adjustment screw on the door bottom in so the seal will not activate when the door is closed.
3. Hang the door and adjust for proper clearances.
4. Prepare the frame by cleaning the jamb, header, and stops where the perimeter seals will be applied.
5. Measure, cut, and apply the S88 (teardrop-shaped) gasket to the frame stop, insuring a good seal in the corners (see *Photo 1*). The Pemko S-88 should be full height or width of the opening and should not be spliced.
6. Turn the adjustment screw on the door bottom out to the point where the seal makes uniform firm contact with the sill when the door is closed. If a flat threshold is being used as the sill, a sealant such as silicone caulk should be used to prevent sound transmission between the threshold and floor. Installing a threshold or door bottom over carpeting will not provide a good seal and will void the STC guaranty.



Photo 1

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ACOUSTIC GASKET SYSTEMS
Installation Instruction 113

Date: June, 2013

Eggers Industries

Installation of Perimeter Seals: Gasket System K

1. Install the door bottom prior to hanging the door.
2. Hang the door and adjust for proper clearances.
3. Turn the adjustment screw on the door bottom in so that the seal will not activate when the door is closed.
4. Prepare the frame by cleaning the jamb, header and stops where the S-88 seals will be applied.
5. Measure, cut and apply the S88 (teardrop-shaped) gasket to the frame stop, insuring a good seal in the corners (see photo 1).

Photo 1



6. Locate the two foam pads for the frame jambs (these two pads do not have a beveled edge or vinyl facing).
7. Apply these two pads to the bottom of the jambs adjacent to the S-88 installed on the stops in step 2 (see photo 2).
8. Locate one foam pad for the header (this pad has a bevel on one edge and a vinyl facing).

Photo 2



Photo 3



9. Apply this pad centered over the meeting edges of the pairs on the header, with the beveled edge facing away from the stop, and adjacent to the S-88 installed on the stops in step 2 (see photo 3).
10. Measure, cut and apply the S88 (teardrop-shaped) gasket to the jambs and header so that it butts against the foam pads and forms a good seal in the corners (see photos 4 and 5).

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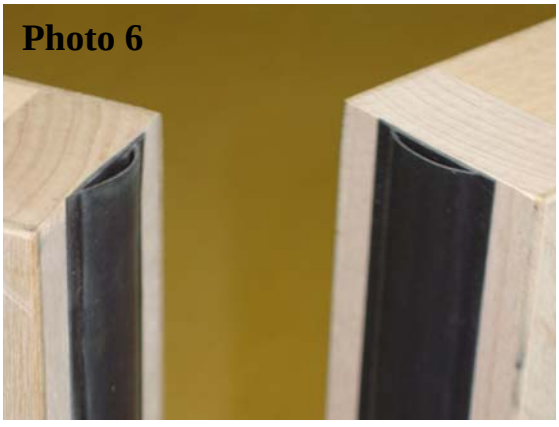
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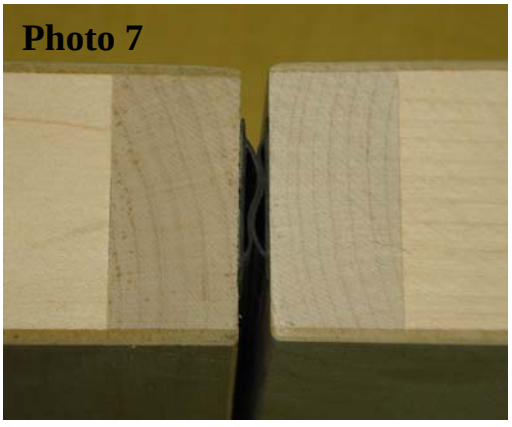




11. Clean the meeting edges of the doors.

12. Measure, cut and apply a strip of S1125 to the meeting edge of each leaf. Apply the strips at the same location on each leaf, at a point where they will make good contact with each other but not cause binding when the doors are closed (see photos 6 and 7).





13. Turn the adjustment screw on the door bottom out to the point where the seal makes uniform firm contact with the sill when the door is closed.

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ACOUSTIC GASKET SYSTEMS
Installation Instruction 114

Date: June, 2013

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Installation of Perimeter Seals: Gasket System M

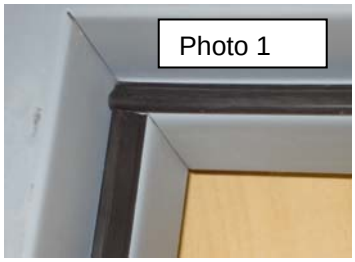
1. Install the Pemko 234 door shoe in the groove machined in to bottom of the door in accordance with the manufacturer's instructions prior to hanging the door.

2. Hang the door and adjust for proper clearances.

3. Install the Pemko 151 threshold within the opening. The threshold should be installed parallel to the bottom of the door, shimming if required. When properly installed there should be a 1/8" clearance between the bottom of the door and the threshold when the door is closed. This will allow for 1/8" compression of the door shoe gasket. A sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Thresholds should not be mounted over carpeting as this will not allow a good seal.

4. Prepare the frame by cleaning the jamb, header, and stops where the S-88 seals will be applied.

5. Measure, cut and apply the S88 (teardrop-shaped) gasket to the frame stop, insuring a good seal in the corners (see photo 1). The Pemko S-88 should be full opening width on the top, with the vertical legs extending from the top of the threshold and butted against the top strip. Use full-length pieces to avoid joint gaps.


Photo 1

6. The second row of S-88 should be applied to the jamb and header, centered approximately ½" from the stop, with the bubble nearest to the stop. Use full-length pieces to avoid joint gaps.

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ACOUSTIC GASKET SYSTEMS

Installation Instruction 125

Date: February, 2015

Eggers Industries

Installation of Perimeter Seals: Gasket System N

1. Cut the DHSI AMDB-3 to match the door machining (either full width or to the solid wood latch edge. Install to the bottom of the door using the screws supplied with the seal.

2. Hang the door and adjust for proper clearances.

3. Prepare the frame by cleaning the jambs and header where the frame seals will be applied.

4. Measure, cut and apply the DHSI 105 gasket on the frame jamb and header, adjacent to the stop. Trim the ends where they meet in the corners such that a good seal will be maintained when the door is in the closed position. The 105 gasket should be full height or width of the opening and should not be spliced.

5. Apply a piece of decibel plug to the bottom of both jambs, adjacent to the 105 gasket. The decibel plug should be sized as required during installation to 1-1/2" wide by the dimension between the top of the AMDB-3 and the sill (undercut + AMDB-3 mortise depth).

   Note: the thickness of the decibel plug will be 3/8" where the AMDB-3 is not visible on the edge of the door (solid wood edge) and ¼" where the AMDB-3 extends through the stile.

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ACOUSTIC GASKET SYSTEMS
Installation Instruction 116

Date: June, 2013

Eggers Industries

Installation of Perimeter Seals: Gasket System O

1. Install the Pemko 234 door shoe in the groove machined in to bottom of the door in accordance with the manufacturer's instructions prior to hanging the door.

2. Hang the door and adjust for proper clearances.

3. Install the Pemko threshold within the opening. The threshold should be installed parallel to the bottom of the door, shimming if required. When properly installed there should be a 1/8" clearance between the bottom of the door and the threshold when the door is closed. This will allow for 1/8" compression of the door shoe gasket. A sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Thresholds should not be mounted over carpeting as this will not allow a good seal.

4. Prepare the frame by cleaning the jamb, header and stops where the S-773 seals will be applied.

5. Cut a single length of S773 to apply to the frame header, spanning the full opening width. Apply it to the frame header adjacent to the stop such that the longest fin of the S773 is next to the stop. Cut two additional lengths of S773 equal to the dimension from the top of the threshold to the frame header. Apply these strips to the frame jambs, starting in the top corners, adjacent to the stops such that the longest fin of the S773 is next to the stop. To insure a good seal in the corners interlace the fins on the jamb with the fins on the header.

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ACOUSTIC GASKET SYSTEMS

Installation Instruction 116

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ACOUSTIC GASKET SYSTEMS

Installation Instruction 126

Date: February, 2015

Eggers Industries

Installation of Perimeter Seals: Gasket System P

1. Cut the DHSI Cap Sweep (CS) to match the door width, and install it to the bottom of the door using a sealant such as 100% silicone, small screws, or a combination. Allow the sealant to cure prior to hanging the door.

2. Hang the door and adjust for proper clearances.

3. Prepare the frame by cleaning the jambs and header where the frame seals will be applied.

4. Measure, cut and apply the DHSI 105 gasket on the frame jamb and header, adjacent to the stop. Trim the ends where they meet in the corners such that a good seal will be maintained when the door is in the closed position. The 105 gasket should be full height or width of the opening and should not be spliced.

5. Apply a piece of decibel plug to the bottom of both jambs, adjacent to the 105 gasket. This decibel plug should be sized as required during installation to 1-1/2” wide by the dimension of the undercut.

6. Measure, cut and apply the DHSI Surface Astragal (SA) gasket. This seal should be located adjacent to the pull face of the frame on both jambs and the header. Trim the ends where they meet in the corners such that a good seal will be maintained when the door is in the closed position. The SA gasket should be full height or width of the opening and should not be spliced.

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ACOUSTIC GASKET SYSTEMS
Installation Instruction 118

Date: June, 2013

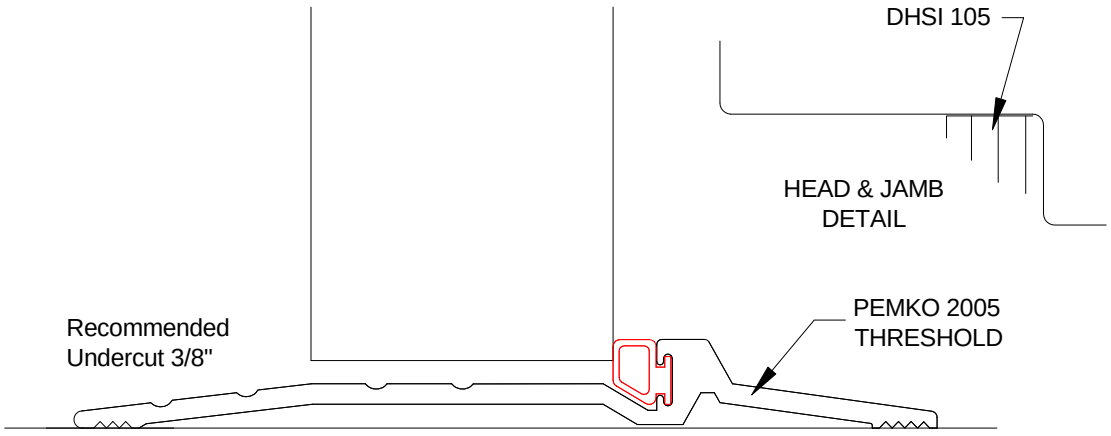
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Installation of Perimeter Seals: Gasket System Q

1. Hang the door and adjust for proper clearances.

2. Install the Pemko 2005 threshold within the opening. The threshold should be installed parallel to the bottom of the door, shimming if required. When properly installed there should be a 1/8” clearance between the bottom of the door and the threshold when the door is closed. The threshold seal should be in uniform contact with the door face and slightly compressed. A sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Thresholds should not be mounted over carpeting as this will not allow a good seal.

3. Install a strip of DHSI 150 seal to the jambs and the header with the longest fin adjacent to the frames stop. Fins should be interlaced where they meet in the corners.



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ACOUSTIC GASKET SYSTEMS

Installation Instruction 124

Date: February, 2015

Eggers Industries

Installation of Perimeter Seals: Gasket System R

1. Install the Zero 369 door bottom in accordance with the manufacturer's instructions prior to hanging the door.

2. Turn the adjustment screw on the door bottom in so that the seal will not activate when the door is closed.

3. Hang the door and adjust for proper clearances.

4. Prepare the frame by cleaning the jamb, header and stops where the frame seals will be applied.

5. Measure, cut and apply the Zero 8145S gasket on the frame jamb and header, adjacent to the stop. Trim the ends where they meet in the corners such that a good seal will be maintained when the door is in the closed position. The Zero 8145S should be full height or width of the opening and should not be spliced.

6. Measure, cut and apply the Zero 119W gasket on the frame jamb and header. This seal should be located adjacent to the pull face of the frame. Trim the ends where they meet in the corners such that a good seal will be maintained when the door is in the closed position. The Zero 119W should be full height or width of the opening and should not be spliced.

7. Turn the adjustment screw on the door bottom out to the point where the seal makes uniform firm contact with the sill when the door is closed. If a flat threshold is being used a sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor. Door bottoms should not be used over carpeted sills as this will not provide a good seal.

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ACOUSTIC GASKET SYSTEMS
Installation Instruction 120

Date: June, 2013

Eggers Industries

Installation of Perimeter Seals: Gasket System S

1. Hang the door and adjust for proper clearances.

2. Install the Pemko 2008STCxQ380 threshold within the opening. The threshold should be installed parallel to the bottom of the door, shimming if required. When properly installed there should be a 1/8” clearance between the bottom of the door and the threshold when the door is closed. The threshold seal should be in uniform contact with the door face and slightly compressed. A sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor/frame. Thresholds should not be mounted over carpeting as this will not allow a good seal.

3. Install a row of Pemko S44 seal to the leading edge of the jambs and the header.

4. Locate and attach the 312CR w/ER9 to the frame. When properly installed this seal and the threshold seal will provide continuous contact to the face of the door when it is latched closed.

- Refer to drawing on following pages -

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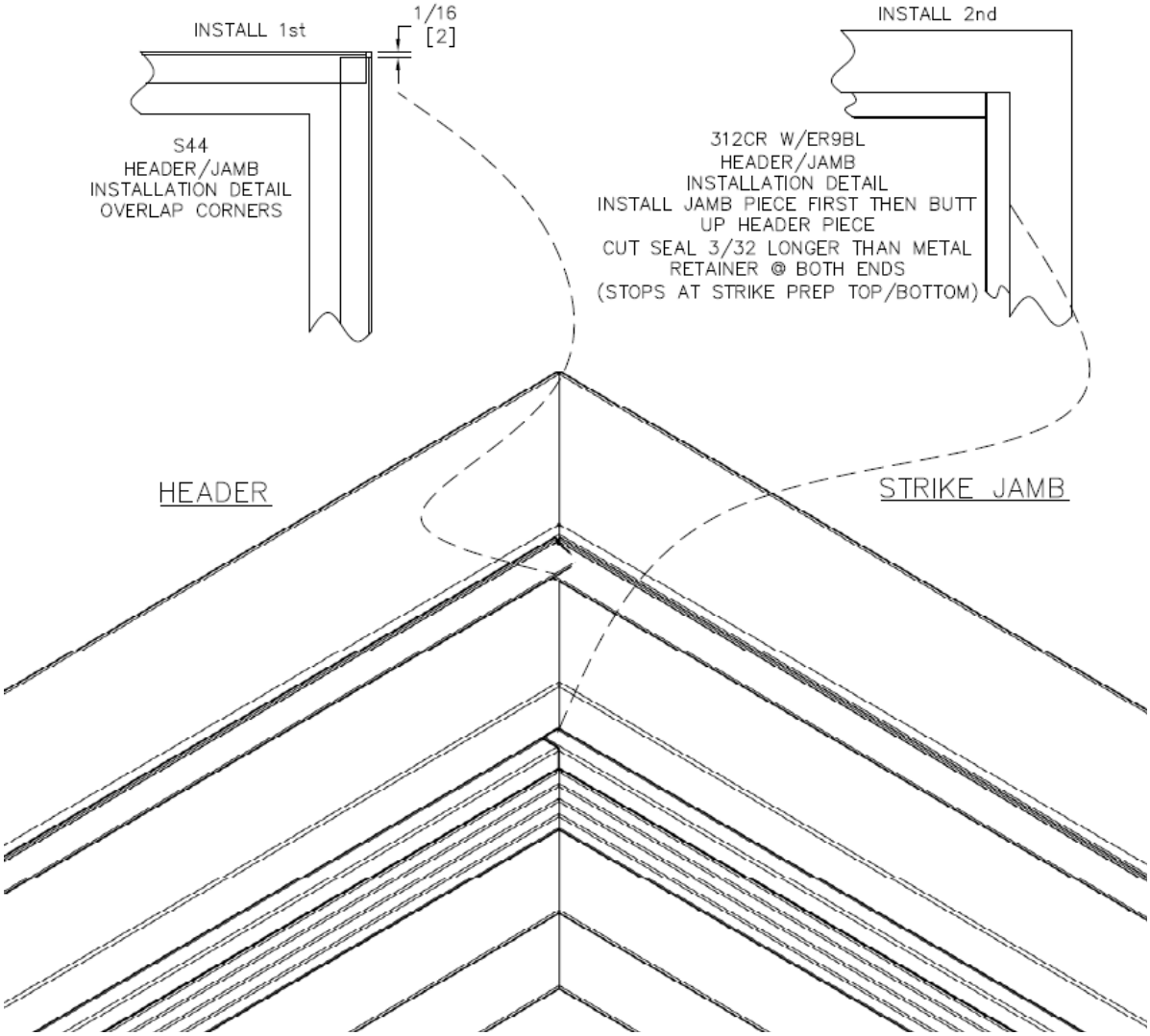
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ACOUSTIC GASKET SYSTEMS

Installation Instruction 120

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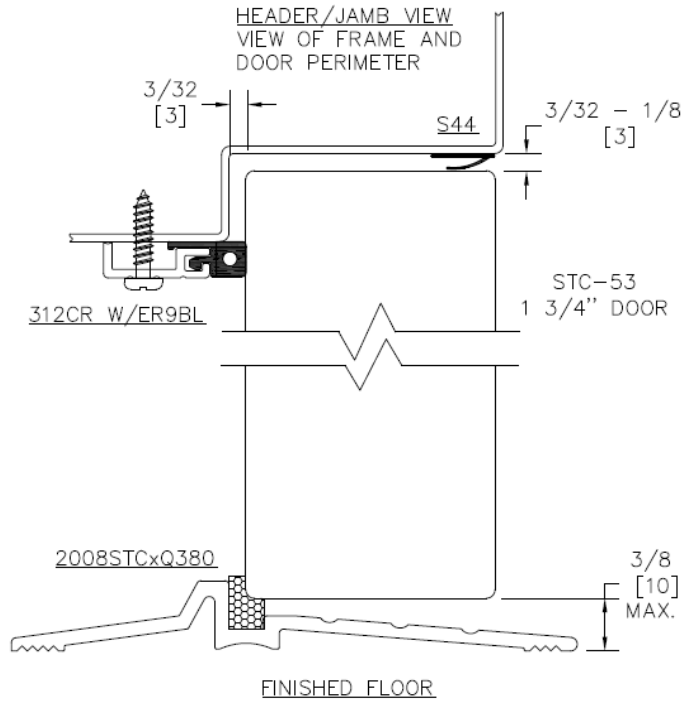
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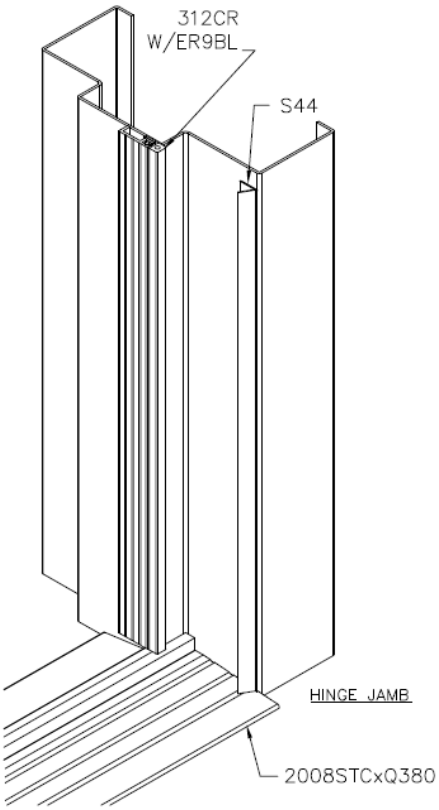
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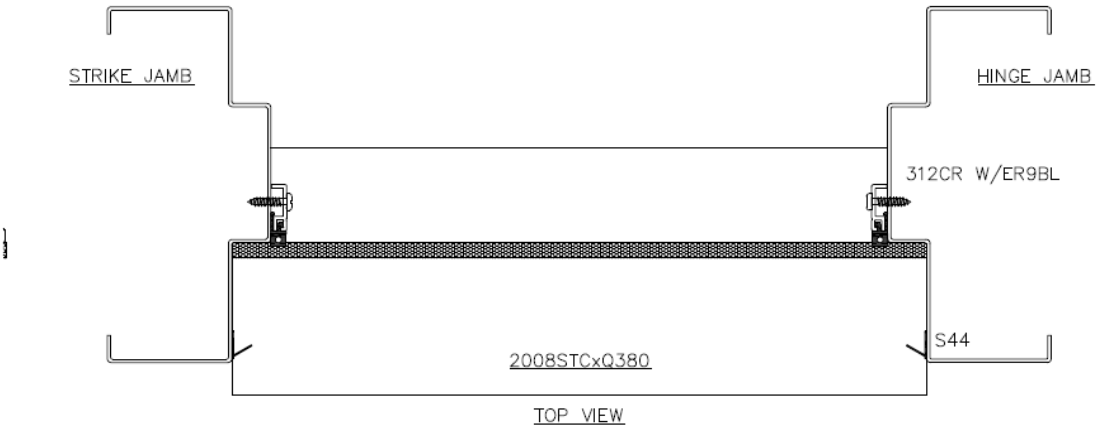
Installation Instruction 120

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ACOUSTIC GASKET SYSTEMS
Installation Instruction 121

Date: June, 2013

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Installation of Perimeter Seals: Gasket System T

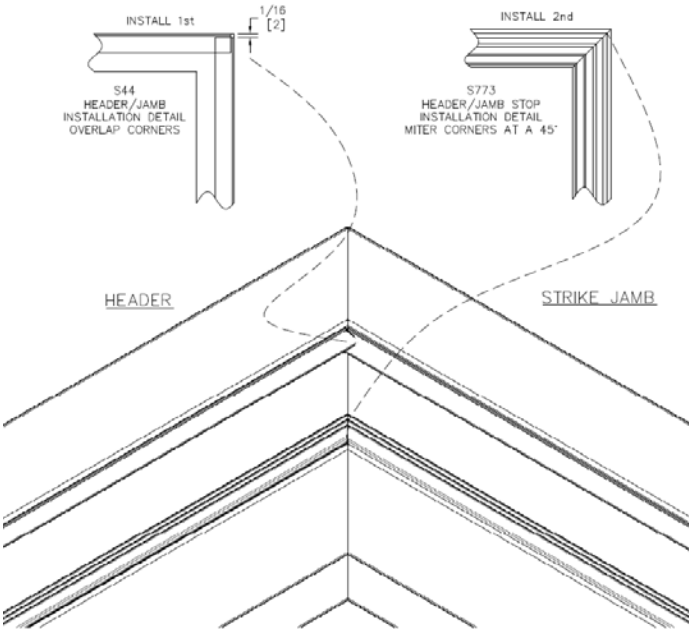
1. Hang the door and adjust for proper clearances.

2. Install the Pemko 2008STCxQ380 threshold within the opening. The threshold should be installed parallel to the bottom of the door, shimming if required. When properly installed there should be a 1/8" clearance between the bottom of the door and the threshold when the door is closed. The threshold seal should be in uniform contact with the door face and slightly compressed. A sealant, such as silicone caulk, should be used to prevent sound transmission between the threshold and floor/frame. Thresholds should not be mounted over carpeting as this will not allow a good seal.

3. Install a row of Pemko S44 seal to the leading edge of the jambs and the header.

4. Install a row of S773 to the header and jamb stop.

- Refer to drawings on following pages -



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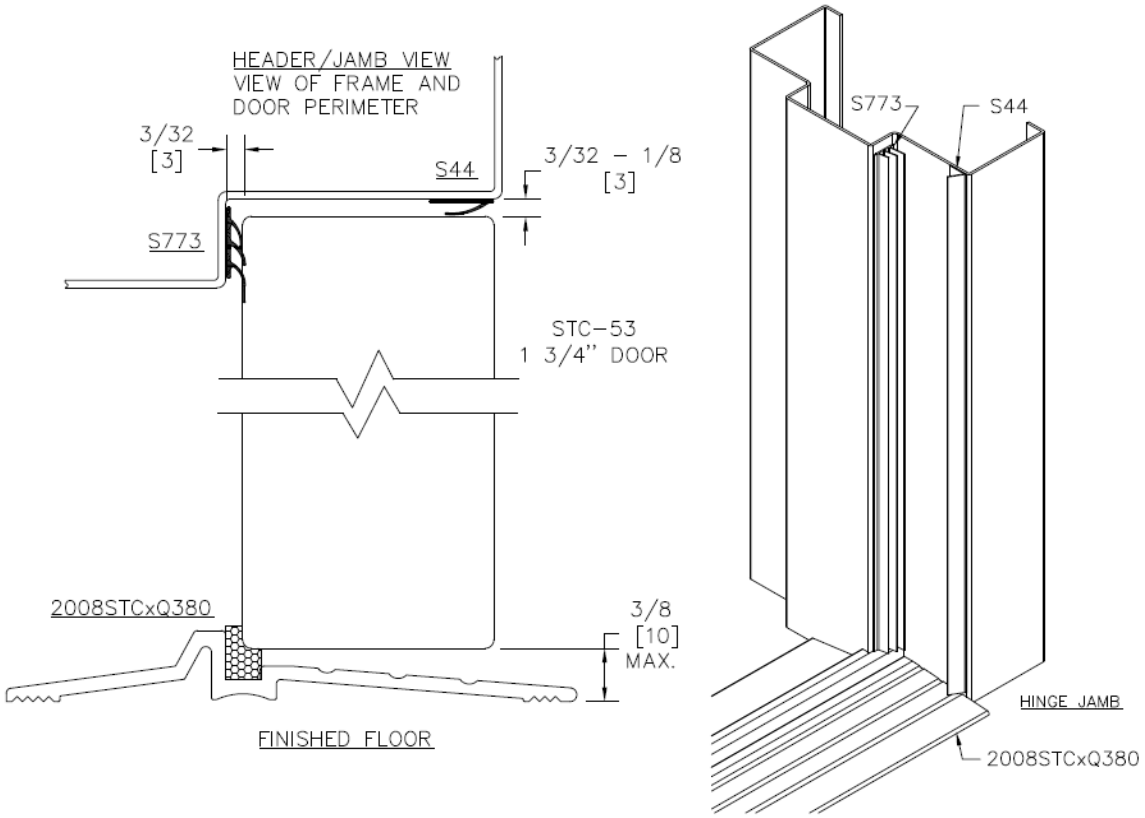
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Phone: 502.845.0154
Fax: 502.849.0444

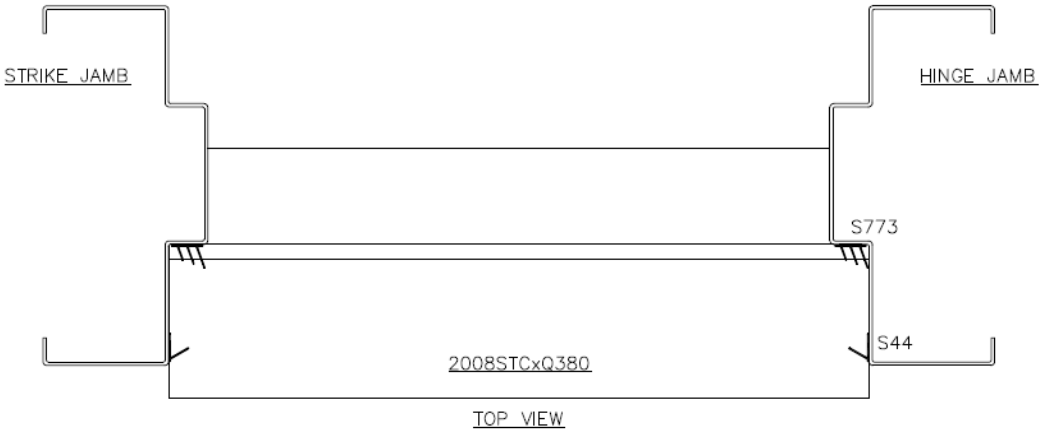
ACOUSTIC GASKET SYSTEMS

Installation Instruction 121

Date: June, 2013

Eggers Industries





DO NOT SCALE

Eggers Industries

www.eggersindustries.com
sales@eggersindustries.com

Stile and Rail Doors, Door Frames, Plywood Veneered Components

Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces, Custom Wood Products, Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.849.0444

ACOUSTIC GASKET SYSTEMS

Installation Instruction 122

Date: June, 2013

Eggers Industries

Installation of Perimeter Seals: Gasket System U

1. Install the PDB411AE door bottom in the machined channel. Door bottom should extend the full door width.

2. Hang the door and adjust for proper clearances.

3. Install a row of Pemko S44 seal to the leading edge of the jambs and the header.

4. Install a row of S773 to the header and jamb adjacent to the stop.

5. Attach the ACP112 pad between the S44 and S773 at the bottom of the frame jambs, trimming the S773 as required.

- Refer to drawings on following pages –

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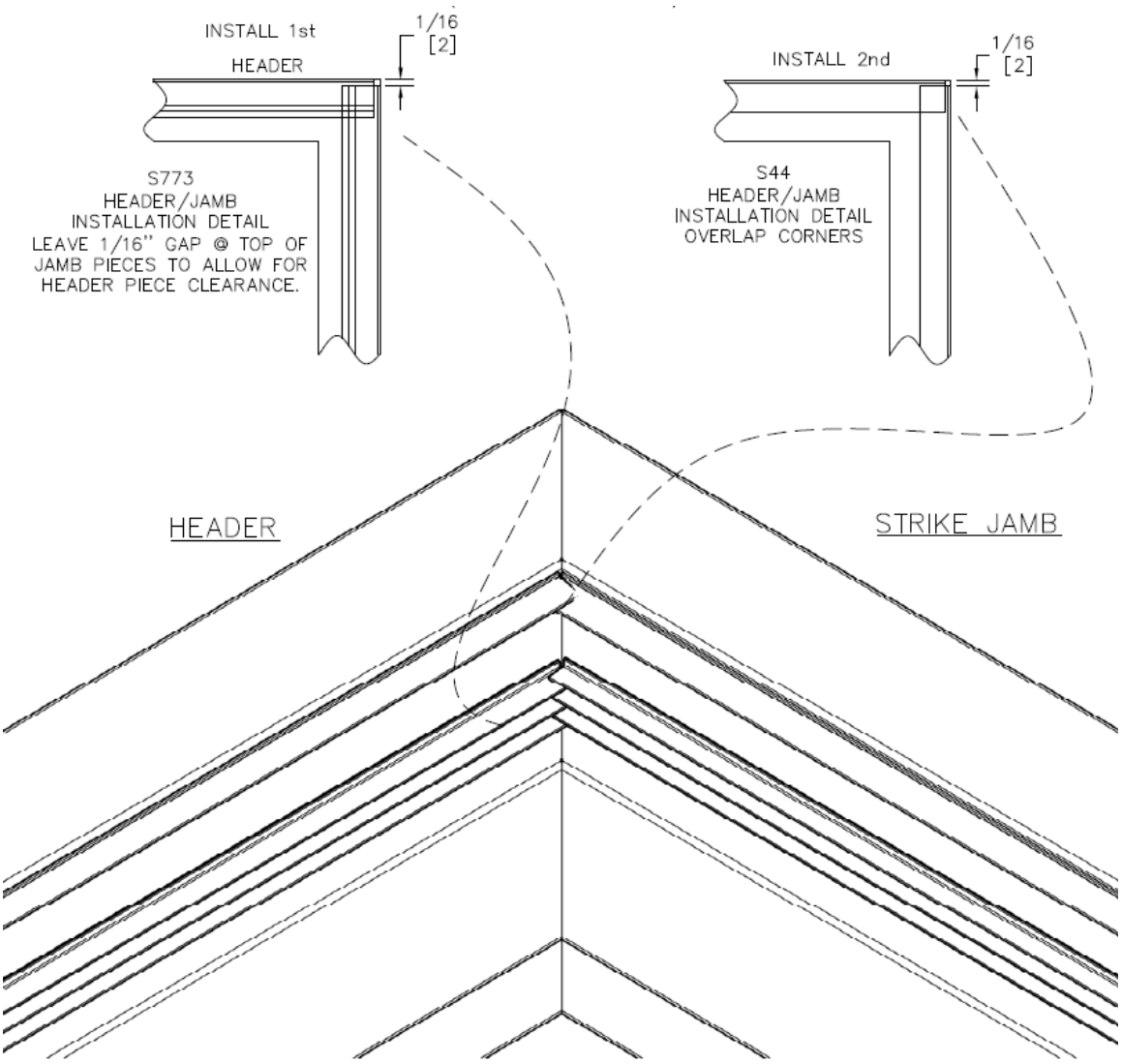
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ACOUSTIC GASKET SYSTEMS

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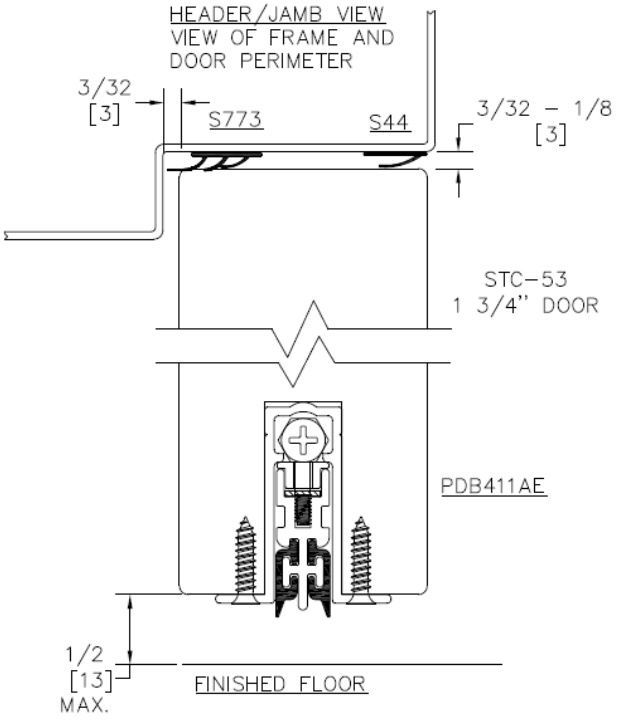
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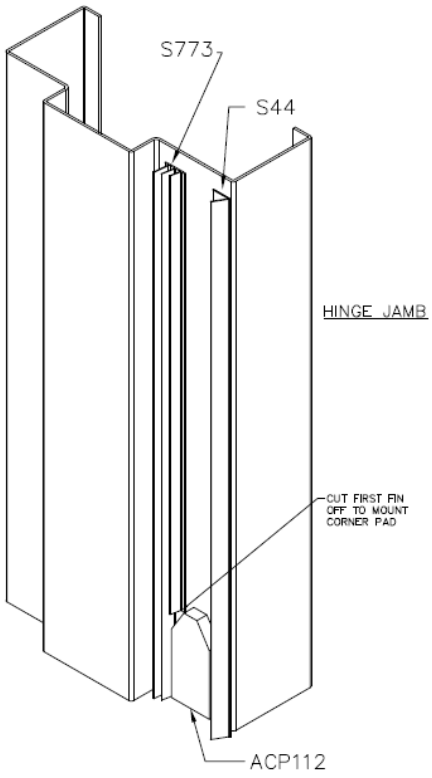
ACOUSTIC GASKET SYSTEMS

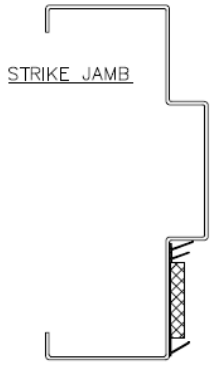
Installation Instruction 122

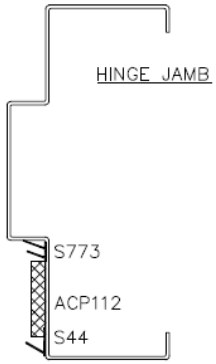
Date: June, 2013

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TOP VIEW

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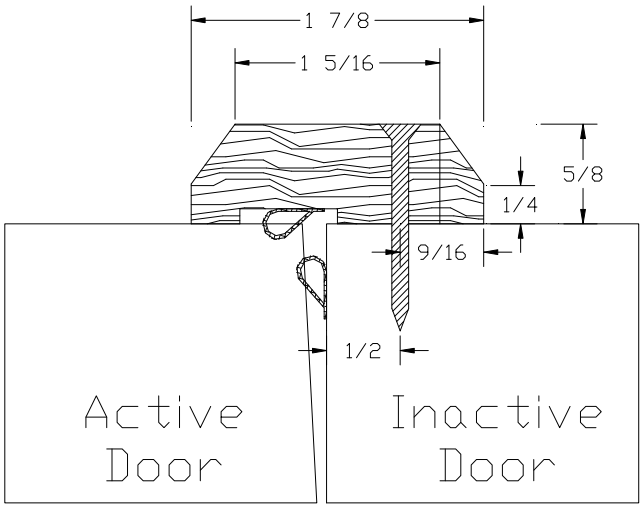
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Installation of Acoustic Wood Astragals
Installation Instruction 104

Date: July, 2012

Eggers Industries

Where acoustic doors are hung as active/inactive pairs the normal method of sealing the meeting edges is by use of an overlapping wood astragal and two rows of Pemko S-88. The astragal (shown below) is typically attached to the inactive leaf on the push side of the opening. Locate one screw in the top and bottom 6” of the astragal with no more 18” between additional screws. Use 1-1/2” long threaded to the head wood screws and pre-drill pilot holes. Apply the S-88 seals as shown below, making sure the bubble makes good contact with the opposing leaf.



NOTE: Gaskets shown in non-compressed position

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email: sales@eggersindustries.com

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Chemical or Common Name **CAS #**	**%**	**Exposure Limits**	
Calcium Silicate CAS #1344-95-2	51-73	OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA	15mg/m^3 (a) 5mg/m^3 (b) 10mg/m^3 (c)
Inert Ingredients • Proprietary CAS # Proprietary	6-9	OSHA PEL-TWA OSHA PEL-TWA ACGIH TLB-TWA	15mg/m^3 (a) 0.1mg/m^3 (b) 0.1mg/m^3 (d)
Wood CAS # None	4-8	ACGIH TLV-TWA OSHA PEL-TWA	1mg/m^3 (e) 2.5mg/m^3 (f)
Resin Solids CAS # None	<1	None Established	
Composite Material • Proprietary CAS # Proprietary	0-15	OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV OSHA PEL-TWA ACGIH TLV-TWA OSHA PEL-TWA ACGIH TLV-TWA	15mg/m^3 (a) 5mg/m^3 (b) 10mg/m^3 (c) 0.1mg/m^3 (b) 0.1mg/m^3 (b) 5mg/m^3 (a) 10mg/m^3 (a)
Door Faces • Wood CAS # None • Paper (cellulose) CAS #9004-34-6 • Plastic CAS # None	17	See Above OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA	15mg/m^3 (a) 5mg/m^3 (b) 10mg/m^3 (a) 15mg/m^3 (a) 5mg/m^3 (b) 10mg/m^3 (a)

(a) total dust
(b) respirable dust
(c) total dust containing no asbestos and <1% crystalline silica
(d) respirable fraction containing respirable quartz
(e) selected hardwood total dust (beech, oak, others)
(f) western red cedar total dust

Based on 1989 OSHA Permissible Exposure Limits (PEL)

Note: Neither calcium silicate nor inert ingredients (complex metal silicates, etc.) contain any asbestos. Free silica (quartz) may be present in 1-2% by weight.

Appearance and Odor: Doors with a variety of grain patterns and hues. The products have a slight aromatic odor. Wood component may contain alder, ash, aspen, basswood, beech, birch, bubinga, cherry, chestnut, cottonwood, cypress, elm, fir, gum, hemlock, hickory, koa, mahogany (true or false), mansonia, maple, oak (red or white), pine, poplar, spruce, teak and/or walnut.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (1 atm)	NAP
Vapor Pressure (mm Hg)	NAP
Vapor Density (Air=1; 1 atm)	NAP
Specific Gravity (H_2O=1)	0.297 (Mineral Core) 0.40-0.80 (Wood)
Melting Point	NAP
Evaporation Rate (Butyl Acetate=1)	NAP
Solubility in Water (% by weight)	<0.1%
% Volatile by Volume	0

FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): NAP
Flammable Limits:
LEL: See below under "Unusual Fire and Explosion Hazards"
UEL: NAP
Extinguishing Media: Water, carbon dioxide, sand, dry chemical
Autoignition Temperature (F or C): 400°F - 500°F (204°C - 260°C) - Wood
Special Firefighting Procedures: None
Unusual Fire and Explosion Hazards: Depending on moisture content and--more importantly—particle diameter, wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts.

REACTIVITY DATA

Stability: ( ) Unstable (X) Stable
Conditions to Avoid: NAP
Incompatibility (Materials to Avoid):
Wood Components: Avoid contact with oxidizing agents. Avoid open flame and areas of high radiant heat flux.
Material Core Components: ammonium salts (sulfates, nitrates, phosphates or halides), in the presence of water, react with mineral core to release small amounts of ammonium gas.

Hazardous Decomposition or By-Products:
Wood Components: Depending on moisture content, availability of oxygen and temperature, thermal decomposition products include carbon monoxide, carbon dioxide, water, various aldehydes (both aliphatic and aromatic), tars and carbon.
Hazardous Polymerization: ( ) May Occur (X) Will Not Occur

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Not applicable for product in purchased form. Dust generated from sawing, sanding, drilling or routing of this product may be vacuumed or shoveled after wetting for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA approved respirator and goggles where ventilation is not possible.

Waste Disposal Method: Dry land disposal is acceptable in most states if disposed of or discarded in its purchased form. It is, however, the user's responsibility to determine at the time of disposal whether their product meets RCRA criteria for hazardous waste. Follow applicable federal, state and local regulations.

Precautions to be Taken in Handling and Storage: No special handling precautions are required for product in purchased form. Keep in cool, dry place away from open flame and areas of radiant heat flux. Store in well-ventilated area.

Other Precautions: A NIOSH/MSHA approved respirator and goggles should be worn when the allowable exposure limits may be exceeded.

HEALTH HAZARD DATA

Primary Health Hazards: The primary health hazards posed by this product are thought to be due to exposure to dust generated from sawing, sanding, drilling or routing of this product.

Primary Route(s) of Exposure:

( ) Ingestion
(X) Skin (Dust)
(X) Inhalation (Dust)

Acute Health Hazards: *Signs and Symptoms of Exposure—Emergency and First Aid Procedures.*

- INGESTION: Not applicable under normal use.
- EYE CONTACT: Dust may cause mechanical irritation. Treat dust in eye as a foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.
- SKIN CONTACT: Wood dust(s) of certain species may elicit allergic contact dermatitis in sensitized individuals, as well as mechanical irritation resulting in hives. Get medical help if rash, irritation, or dermatitis persists.
- SKIN ABSORPTION: Not know to occur with normal use.
- INHALATION: High concentrations of dust may cause unpleasant deposit/obstruction in the nasal passages, resulting in runny nose, dry cough and/or sneezing. Remove to fresh air. Get medical help if persistent irritation, severe coughing or breathing difficulty occurs.

Medical Conditions Generally Aggravated by Exposure: Dust may aggravate preexisting respiratory conditions or allergies.

Chronic Health Hazards: Wood dust(s), depending on the species, may cause allergic contact dermatitis with prolonged, repetitive contact, and respiratory sensitization after prolonged exposure to elevated dust levels. Long-term inhalation of silica dust may cause lung injury or disease (silicosis)).

Carcinogenicity Listing:

(X)	NTP	Crystalline silica
(X)	IARC Monographs	Crystalline silica
( )	OSHA Regulated	

Wood dust has been alleged to cause nasal/paranasal sinus cancer (certain European hardwoods: oak and beech).

Note: The IARC (International Agency for Research on Cancer) has categorized crystalline silica as a 2A carcinogen, meaning: (1) there is sufficient evidence for the carcinogenicity to experimental animals, and (2) there is limited evidence of the carcinogenicity to humans. The National Toxicology Program (NTP) has reported crystalline silica is reasonably anticipated to be a carcinogen, meaning there is limited evidence of carcinogenicity from studies in humans or sufficient evidence of carcinogenicity from studies in experimental animals.

CONTROL MEASURES

Personal Protective Equipment:

- RESPIRATORY PROTECTION: Not applicable for product in purchased form. A NOSH/MSHA approved respirator is recommended when allowable exposure limits may be exceeded.
- PROTECTIVE GLOVES: Not required. However, cloth, canvas or leather gloves are recommended to minimize potential mechanical irritation from handling product.
- EYE PROTECTION: Not applicable for product in purchased form. Goggles or safety glasses are recommended when machining this product.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
- WORK/HYGIENE PRACTICES: Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation. Minimize blowdown or other practices that generate high airborne-dust concentrations.

Ventilation:

- LOCAL EXHAUST: Provide local exhaust as needed so that exposure limits are met.
- MECHANICAL (GENERAL): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.
- SPECIAL: Self-contained breathing apparatus (SCBA) is recommended when fighting fire.
- OTHER: NAP.

TRANSPORATATION DATA:

DOT Proper Shipping Name: Not regulated.
Hazard Class/Division Number:
ID Number:
Packing Group:
Label/Placard Required:
DOT Hazardous Substance:

USER'S RESPONSIBILITY:

The information contained in this Material Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources believed to be accurate or otherwise technically correct. It is the user's responsibility to determine if this information is suitable for their applications and to follow safety precautions as may be necessary. The user has the responsibility to make sure that this sheet is the most up-to-date issue.

ADDITIONAL INFORMATION – Definition of Common Terms:

ACGIH = American Conference of Governmental Industrial Hygienists
C = Ceiling Limit
CAS # = Chemical Abstracts System Number
IARC = International Agency for Research on Cancer
MSHA = Mining Safety and Health Administration
NAP = Not Applicable
NAV = Not Available
NIOSH = National Institute of Occupational Safety and Health
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration
PEL = Permissible Exposure Limit
STEL = Short-Term Exposure Limit (15 minutes)
TLV = Threshold Limit Value
TWA = Time-Weighted Average (8 hours)

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CHEMICAL OR COMMON NAME CAS #	%	EXPOSURE LIMITS	
Wood CAS # None	75-93	OSHA PEL-TWA OSHA PEL-STEL ACGIH TLV-TWA WISHA PEL-TWA WISHA PEL-TWA	5mg/m^3 (a) 10mg/m^3 (a) 1mg/m^3 (b) 5mg/m^3 (c) 2.5mg/m^3 (d)
Door Faces • Wood CAS # None • Paper (cellulose) CAS #9004-34-6 • Plastic CAS # None	~ 17	See Above OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA	 15mg/m^3 (e) 5mg/m^3 (f) 10mg/m^3 (e) 15mg/m^3 (e) 5mg/m^3 (f) 10mg/m^3 (e)
Resin Solids (ureaformaldehyde) CAS # 9011-05-6	1-10	OSHA PEL-TWA OSHA PEL-STEL ACGIH TLV-TWA ACGIH TLV-STEL WISHA PEL-C OREGON PEL-TWA OREGON PEL-STEL	1 ppm (g) 2 ppm (g) 1 ppm (g) 2 ppm (g) 1 ppm (g)) 1 ppm (g) 2 ppm (g)
Wax CAS # None	~ <1	OSHA PEL-TWA ACGIH TLV-TWA	2 mg/m (h) 2mg/m (h)

(a) softwood or hardwood total dust
(b) selected hardwood total dust beech, oak
(c) Non-allergenic total dust
(d) allergenic total dust
(e) total dust
(f) respirable dust
(g) free vinyl acetate
(h) paraffin wax fume

Appearance and Odor: Doors with a variety of grain patterns and hues. The products have a slight aromatic odor. Wood component may contain alder, ash, aspen, basswood, beech, birch, bubinga, cherry, chestnut, cottonwood, cypress, elm, fir, gum, hemlock, hickory, koa, mahogany (true or false), mansonia, maple, oak (red or white), pine, poplar, spruce, teak and/or walnut.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (F or C)	NAP
Vapor Pressure (mm Hg)	NAP
Vapor Density (Air=1)	NAP
Specific Gravity (H_2O=1)	0.40-0.80
Melting Point	NAP
Evaporation Rate (Butyl Acetate=1)	NAP
Solubility in Water	<0.1%
% Volatile by Volume @ 70°F	0

FIRE AND EXPLOSION HAZARD DATA
Flash Point (Method Used): NAP
Flammable Limits:
LEL: See below under "Unusual Fire and Explosion Hazards"
UEL: NAP
Extinguishing Media: Water, carbon dioxide, sand
Autoignition Temperature (F or C): 400°F - 500°F (204°C - 260°C)
Special Firefighting Procedures: None
Unusual Fire and Explosion Hazards: Depending on moisture content and–more importantly—particle diameter, wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts.

REACTIVITY DATA

Stability: ( ) Unstable (X) Stable

Conditions to Avoid: NAP
Incompatibility (Materials to Avoid): Avoid contact with oxidizing agents. Avoid open flame. Product may ignite at temperatures in excess of 400°F.

Hazardous Decomposition or By-Products: Depending on moisture content, availability of oxygen and temperature, thermal decomposition products include carbon monoxide, carbon dioxide, water, various aldehydes (both aliphatic and aromatic), tars and carbon.

Hazardous Polymerization: ( ) May Occur (X) Will Not Occur
Conditions to Avoid: NAP

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Not applicable for product in purchased form. Wood, paper or plastic dust(s) generated from sawing, sanding, drilling or routing of this product may be vacuumed or shoveled for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA approved respirator and goggles where ventilation is not possible.

Waste Disposal Method: Dry land disposal is acceptable in most states if disposed of or discarded in its purchased form. It is, however, the user's responsibility to determine at the time of disposal whether their product meets RCRA criteria for hazardous waste. Follow applicable federal, state and local regulations.

Precautions to be Taken in Handling and Storage: No special handling precautions are required. Keep in cool, dry place away from open flame. This product may release small amounts of gaseous formaldehyde. Store in well-ventilated area.

Other Precautions: A NIOSH/MSHA approved respirator and goggles should be worn when the allowable exposure limits may be exceeded.

HEALTH HAZARD DATA

Primary Health Hazards: The primary health hazards posed by this product are thought to be due to exposure to wood dust or free gaseous formaldehyde.

Primary Route(s) of Exposure:

( ) Ingestion

(X) Skin (Dust)

(X) Inhalation (Dust or Gas)

Acute Health Hazards: *Signs and Symptoms of Exposure—Emergency and First Aid Procedures.*

- INGESTION: Not applicable under normal use.

- EYE CONTACT: Gaseous formaldehyde may cause temporary irritation or a temporary burning sensation. Wood, paper or plastic dust(s) may cause mechanical irritation as a foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.

- SKIN CONTACT: Gaseous formaldehyde may cause allergic contact dermatitis in sensitized individuals, resulting in redness, itching and occasionally hives. Wood dust(s) of certain species may elicit allergic contact dermatitis in sensitized individuals, as well as mechanical irritation resulting in erythema and hives. Get medical help if rash, irritation, or dermatitis persists.

- SKIN ABSORPTION: Not know to occur with normal use.

- INHALATION: High concentrations of wood, paper or plastic dust(s) may cause unpleasant deposit/obstruction in the nasal passages, resulting in runny nose, dry cough and/or sneezing. Gaseous formaldehyde may temporarily irritate the nose and throat, and may aggravate preexisting respiratory conditions depending on the level of exposure. Remove to fresh air. Get medical help if persistent irritation, severe coughing or breathing difficulty occurs.

Medical Conditions Generally Aggravated by Exposure: Wood dust may aggravate preexisting respiratory conditions or allergies.

Chronic Health Hazards: Gaseous formaldehyde has been shown to cause cancer in certain laboratory animals after long-term exposure to very high concentrations (14+ppm), far above those normally found in the workplace with this product. Wood dust(s), depending on the species (for example, iroko, cocobolo), may cause allergic contact dermatitis with prolonged, repetitive contact, and respiratory sensitization after prolonged exposure to elevated dust levels (for example, western red cedar). Wood dust has been alleged to cause nasal/paranasal sinus cancer (certain European hardwoods: oak and beech).

Carcinogenicity Listing:

(X)	NTP	Formaldehyde
(X)	ARC Monographs	Formaldehyde
(X)	OSHA Regulated	Formaldehyde

CONTROL MEASURES - Personal Protective Equipment

- RESPIRATORY PROTECTION: Not applicable for product in purchased form. A NOSH/MSHA approved respirator is recommended when allowable exposure limits may be exceeded.
- PROTECTIVE GLOVES: Not required. However, cloth, canvas or leather gloves are recommended to minimize potential mechanical irritation from handling product.
- EYE PROTECTION: Not applicable for product in purchased form. Goggles or safety glasses are recommended when machining this product.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
- WORK/HYGIENE PRACTICES: Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation of this combustible material. Minimize blowdown or other practices that generate high airborne-dust concentrations.

Ventilation:

- LOCAL EXHAUST: Provide local exhaust as needed so that exposure limits are met.
- MECHANICAL (GENERAL): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.
- SPECIAL: Self-contained breathing apparatus (SCBA) is recommended when fighting fire.
- OTHER: NAP.

USER'S RESPONSIBILITY: The information contained in this Material Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources believed to be accurate or otherwise technically correct. It is the user's responsibility to determine if this information is suitable for their applications and to follow safety precautions as may be necessary. The user has the responsibility to make sure that this sheet is the most up-to-date issue.

ADDITIONAL INFORMATION – Definition of Common Terms:

ACGIH	=	American Conference of Governmental Industrial Hygienists
C	=	Ceiling Limit
CAS #	=	Chemical Abstracts System Number
IARC	=	International Agency for Research on Cancer
MSHA	=	Mining Safety and Health Administration
NAP	=	Not Applicable
NAV	=	Not Available
NIOSH	=	National Institute of Occupational Safety and Health
NTP	=	National Toxicology Program
OSHA	=	Occupational Safety and Health Administration
PEL	=	Permissible Exposure Limit
STEL	=	Short-Term Exposure Limit (15 minutes)
TLV	=	Threshold Limit Value
TWA	=	Time-Weighted Average (8 hours)
WISHA	=	Washington Industrial Safety and Health Administration

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CHEMICAL OR COMMON NAME CAS #	%	EXPOSURE LIMITS	
Wood CAS # None	75-93	OSHA PEL-TWA OSHA PEL-STEL ACGIH TLV-TWA WISHA PEL-TWA WISHA PEL-TWA	5mg/m^3 (a) 10mg/m^3 (a) 1mg/m^3 (b) 5mg/m^3 (c) 2.5mg/m^3 (d)
Door Faces • Wood CAS # None • Paper (cellulose) CAS #9004-34-6 • Plastic CAS # None	~ 17	See Above OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA	 15mg/m^3 (e) 5mg/m^3 (f) 10mg/m^3 (e) 15mg/m^3 (e) 5mg/m^3 (f) 10mg/m^3 (e)
Resin Solids (PVA) Vinyl Acetate CAS # None	<1	OSHA PEL ACGIH TLV-TWA ACGIH TLV-STEL	None Established 10 ppm (g) 15 ppm (g)

(a) softwood or hardwood total dust
(b) selected hardwood total dust beech, oak
(c) Non-allergenic total dust
(d) allergenic total dust
(e) total dust
(f) respirable dust
(g) free vinyl acetate

Appearance and Odor: Doors with a variety of grain patterns and hues. The products have a slight aromatic odor. Wood component may contain alder, ash, aspen, basswood, beech, birch, bubinga, cherry, chestnut, cottonwood, cypress, elm, fir, gum, hemlock, hickory, koa, mahogany (true or false), mansonia, maple, oak (red or white), pine, poplar, spruce, teak and/or walnut.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (F or C)	NAP
Vapor Pressure (mm Hg)	NAP
Vapor Density (Air=1)	NAP
Specific Gravity (H_2O=1)	0.40-0.80
Melting Point	NAP
Evaporation Rate (Butyl Acetate=1)	NAP
Solubility in Water	<0.1%
% Volatile by Volume @ 70°F	0

FIRE AND EXPLOSION HAZARD DATA
Flash Point (Method Used): NAP
Flammable Limits:
LEL: See below under "Unusual Fire and Explosion Hazards"
UEL: NAP
Extinguishing Media: Water, carbon dioxide, sand
Autoignition Temperature (F or C): 400°F - 500°F (204°C - 260°C)
Special Firefighting Procedures: None
Unusual Fire and Explosion Hazards: Depending on moisture content and–more importantly—particle diameter, wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts.

REACTIVITY DATA

Stability: ( ) Unstable (X) Stable

Conditions to Avoid: NAP
Incompatibility (Materials to Avoid): Avoid contact with oxidizing agents. Avoid open flame. Product may ignite at temperatures in excess of 400°F.

Hazardous Decomposition or By-Products: Depending on moisture content, availability of oxygen and temperature, thermal decomposition products include carbon monoxide, carbon dioxide, water, various aldehydes (both aliphatic and aromatic), tars and carbon.

Hazardous Polymerization: ( ) May Occur (X) Will Not Occur
Conditions to Avoid: NAP

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Not applicable for product in purchased form. Wood, paper or plastic dust(s) generated from sawing, sanding, drilling or routing of this product may be vacuumed or shoveled for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA approved respirator and goggles where ventilation is not possible.

Waste Disposal Method: Dry land disposal is acceptable in most states if disposed of or discarded in its purchased form. It is, however, the user's responsibility to determine at the time of disposal whether their product meets RCRA criteria for hazardous waste. Follow applicable federal, state and local regulations.

Precautions to be Taken in Handling and Storage: No special handling precautions are required. Keep in cool, dry place away from open flame. This product may release small amounts of gaseous formaldehyde. Store in well-ventilated area.

Other Precautions: A NIOSH/MSHA approved respirator and goggles should be worn when the allowable exposure limits may be exceeded.

HEALTH HAZARD DATA

Primary Health Hazards: The primary health hazards posed by this product are thought to be due to exposure to wood dust or free gaseous formaldehyde.

Primary Route(s) of Exposure:

( ) Ingestion

(X) Skin (Dust)

(X) Inhalation (Dust or Gas)

Acute Health Hazards: *Signs and Symptoms of Exposure—Emergency and First Aid Procedures.*

- INGESTION: Not applicable under normal use.

- EYE CONTACT: Gaseous formaldehyde may cause temporary irritation or a temporary burning sensation. Wood, paper or plastic dust(s) may cause mechanical irritation as a foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.

- SKIN CONTACT: Gaseous formaldehyde may cause allergic contact dermatitis in sensitized individuals, resulting in redness, itching and occasionally hives. Wood dust(s) of certain species may elicit allergic contact dermatitis in sensitized individuals, as well as mechanical irritation resulting in erythema and hives. Get medical help if rash, irritation, or dermatitis persists.

- SKIN ABSORPTION: Not know to occur with normal use.

- INHALATION: High concentrations of wood, paper or plastic dust(s) may cause unpleasant deposit/obstruction in the nasal passages, resulting in runny nose, dry cough and/or sneezing. Gaseous formaldehyde may temporarily irritate the nose and throat, and may aggravate preexisting respiratory conditions depending on the level of exposure. Remove to fresh air. Get medical help if persistent irritation, severe coughing or breathing difficulty occurs.

Medical Conditions Generally Aggravated by Exposure: Wood dust may aggravate preexisting respiratory conditions or allergies.

Chronic Health Hazards: Gaseous formaldehyde has been shown to cause cancer in certain laboratory animals after long-term exposure to very high concentrations (14+ppm), far above those normally found in the workplace with this product. Wood dust(s), depending on the species (for example, iroko, cocobolo), may cause allergic contact dermatitis with prolonged, repetitive contact, and respiratory sensitization after prolonged exposure to elevated dust levels (for example, western red cedar). Wood dust has been alleged to cause nasal/paranasal sinus cancer (certain European hardwoods: oak and beech).

Carcinogenicity Listing:

(X)	NTP	Formaldehyde
(X)	ARC Monographs	Formaldehyde
(X)	OSHA Regulated	Formaldehyde

CONTROL MEASURES - Personal Protective Equipment

- RESPIRATORY PROTECTION: Not applicable for product in purchased form. A NOSH/MSHA approved respirator is recommended when allowable exposure limits may be exceeded.
- PROTECTIVE GLOVES: Not required. However, cloth, canvas or leather gloves are recommended to minimize potential mechanical irritation from handling product.
- EYE PROTECTION: Not applicable for product in purchased form. Goggles or safety glasses are recommended when machining this product.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
- WORK/HYGIENE PRACTICES: Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation of this combustible material. Minimize blowdown or other practices that generate high airborne-dust concentrations.

Ventilation:

- LOCAL EXHAUST: Provide local exhaust as needed so that exposure limits are met.
- MECHANICAL (GENERAL): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.
- SPECIAL: Self-contained breathing apparatus (SCBA) is recommended when fighting fire.
- OTHER: NAP.

USER'S RESPONSIBILITY: The information contained in this Material Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources believed to be accurate or otherwise technically correct. It is the user's responsibility to determine if this information is suitable for their applications and to follow safety precautions as may be necessary. The user has the responsibility to make sure that this sheet is the most up-to-date issue.

ADDITIONAL INFORMATION – Definition of Common Terms:

ACGIH	=	American Conference of Governmental Industrial Hygienists
C	=	Ceiling Limit
CAS #	=	Chemical Abstracts System Number
IARC	=	International Agency for Research on Cancer
MSHA	=	Mining Safety and Health Administration
NAP	=	Not Applicable
NAV	=	Not Available
NIOSH	=	National Institute of Occupational Safety and Health
NTP	=	National Toxicology Program
OSHA	=	Occupational Safety and Health Administration
PEL	=	Permissible Exposure Limit
STEL	=	Short-Term Exposure Limit (15 minutes)
TLV	=	Threshold Limit Value
TWA	=	Time-Weighted Average (8 hours)
WISHA	=	Washington Industrial Safety and Health Administration

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Chemical or Common Name **CAS #**	**%**	**Exposure Limits**
Wood CAS # None	~68	OSHA PEL-TWA 5mg/m^3 (a) OSHA PEL-STEL 10mg/m^3 (a) ACGIH TLV-TWA 1mg/m^3 (b) WISHA PEL-TWA 5mg/m^3 (c) WISHA PEL-TWA 2.5mg/m^3 (d)
Plastic Core CAS # None	~18	OSHA PEL-TWA 15mg/m^3 (e) OSHA PEL-TWA 5mg/m^3 (f) ACGIH TLV-TWA 10mg/m^3 (e)
Door Faces • Wood CAS # None • Paper (cellulose) CAS #9004-34-6 • Plastic CAS # None	~13	See Above OSHA PEL-TWA 15mg/m^3 (e) OSHA PEL-TWA 5mg/m^3 (f) ACGIH TLV-TWA 10mg/m^3 (e) OSHA PEL-TWA 15mg/m^3 (e) OSHA PEL-TWA 5mg/m^3 (f) ACGIH TLV-TWA 10mg/m^3 (e)
Resin Solids (Polymeric MDI) Type Diisocyanate CAS #9016-87-9	1-10	TLV & PEL – Not established

(a) softwood or hardwood total dust
(b) selected hardwood total dust beech, oak
(c) non-allergenic total dust
(d) allergenic total dust
(e) total dust
(f) respirable dust

Appearance and Odor: Color (light or dark) and odor are dependent on wood species. Wood component may contain alder, ash, aspen, basswood, beech, birch, bubinga, cherry, chestnut, cottonwood, cypress, elm, fir, gum, hemlock, hickory, koa, mahogany (true or false), mansonia, maple, oak (red or white), pine, poplar, spruce, teak and/or walnut

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (F or C)	NAP
Vapor Pressure (mm Hg)	NAP
Vapor Density (Air=1)	NAP
Specific Gravity (H_2O=1)	0.40-0.80 (wood)
Melting Point (F or C)	1.8-2.0 (sound deadening material)
Evaporation Rate (Butyl Acetate=1)	NAP
Solubility in Water	NAP
% Volatile by Volume @ 70°F	<0.1%
	0

FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): NAP
Flammable Limits: LEL: See below under "Unusual Fire and Explosion Hazards" UEL: NAP
Extinguishing Media: Water, carbon dioxide, dry chemicals or foam.
Autoignition Temperature (F or C): 400°F - 800°F
Special Firefighting Procedures: Use full-body protective clothing and full-face piece, self-contained breathing apparatus operated in positive pressure mode.
Unusual Fire and Explosion Hazards: Hydrochloric acid and phosgene vapors and gases are formed during combustion. Depending on moisture content and, more importantly–particle diameter–wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts.

REACTIVITY DATA

Stability: ( ) Unstable (X) Stable
Conditions to Avoid: NAP
Incompatibility (Materials to Avoid): Avoid open flame. Product may ignite at temperatures in excess of 400°F.
Hazardous Decomposition or By-Products: Depending on moisture content, availability of oxygen and temperature, thermal decomposition products include carbon monoxide, carbon dioxide, water, various aldehydes (both aliphatic and aromatic), tars and carbon. Hydrochloric acid and phosgene vapors and gases may also be released under thermal decomposition.
Hazardous Polymerization: ( ) May Occur (X) Will Not Occur
Conditions to Avoid: NAP

PRECAUTIONS FOR SAFE HANDLING AND USE

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Waste Disposal Method: Dry land disposal is acceptable in most states if disposed of or discarded in its purchased form. It is, however, the user's responsibility to determine at the time of disposal whether their product meets RCRA criteria for hazardous waste. Follow applicable federal, state and local regulations.
Precautions to be Taken in Handling and Storage: No special handling precautions are required. Keep in cool, dry place away from open flame. This product may release small amounts of gaseous formaldehyde. Store in well-ventilated area.
Other Precautions: A NIOSH/MSHA approved respirator and goggles should be worn when the allowable exposure limits may be exceeded.

HEALTH HAZARD DATA

Primary Health Hazards: The primary health hazards posed by this product are thought to be due to exposure to wood dust or gaseous formaldehyde.

Primary Route(s) of Exposure:
( ) Ingestion
(X) Skin (Dust)
(X) Inhalation (Dust or Gas)

Acute Health Hazards: *Signs and Symptoms of Exposure—Emergency and First Aid Procedures.*

- INGESTION: Not applicable under normal use.
- EYE CONTACT: Gaseous formaldehyde may cause temporary irritation or a temporary burning sensation. Wood, paper or plastic dust(s) may cause mechanical irritation as a foreign object. Treat dust in eye as a foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.
- SKIN CONTACT: Gaseous formaldehyde may cause allergic contact dermatitis in sensitized individuals, resulting in redness, itching and occasionally hives. Wood dust(s) of certain species may elicit allergic contact dermatitis in sensitized individuals, as well as mechanical irritation resulting in erythema and hives. Get medical help if rash, irritation, or dermatitis persists.
- SKIN ABSORPTION: Not known to occur with normal use.
- INHALATION: High concentrations of wood, paper or plastic dust(s) may cause unpleasant deposit/obstruction in the nasal passages, resulting in runny nose, dry cough and/or sneezing. Gaseous formaldehyde may temporarily irritate the nose and throat, and may aggravate preexisting respiratory conditions, depending on the level of exposure. Remove to fresh air. Get medical help if persistent irritation, severe coughing or breathing difficulty occurs.

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Chronic Health Hazards: Gaseous formaldehyde has been shown to cause cancer in certain laboratory animals after long-term exposure to very high concentrations (14+ppm), far above those normally found in the workplace with this product. Wood dust(s), depending on the species (for example, iroko, cocobolo), may cause allergic contact dermatitis with prolonged, repetitive contact, and respiratory sensitization after prolonged exposure to elevated dust levels (for example, western red cedar). Wood dust has been alleged to cause nasal/paranasal sinus cancer (certain European hardwoods: oak and beech).

Carcinogenicity Listing:

(X)NTP Formaldehyde

(X)IARC Monographs Formaldehyde

(X)OSHA Regulated Formaldehyde

CONTROL MEASURES

Personal Protective Equipment:

- **RESPIRATORY PROTECTION:** Not applicable for product in purchased form. A NOSH/MSHA approved respirator is recommended when allowable exposure limits may be exceeded.
- **PROTECTIVE GLOVES:** Not required. However, cloth, canvas or leather gloves are recommended to minimize potential mechanical irritation from handling product.
- **EYE PROTECTION:** Not applicable for product in purchased form. Goggles or safety glasses are recommended when machining this product.
- **OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
- **WORK/HYGIENE PRACTICES:** Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation of this combustible material. Minimize blowdown or other practices that generate high airborne-dust concentrations.

Ventilation:

- LOCAL EXHAUST: Provide local exhaust as needed so that exposure limits are met.
- MECHANICAL (GENERAL): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.
- SPECIAL: Self-contained breathing apparatus (SCBA) is recommended when fighting fire.
- OTHER: NAP.

ADDITIONAL INFORMATION – Definition of Common Terms

ACGIH = American Conference of Governmental Industrial Hygienists
C = Ceiling Limit
CAS # = Chemical Abstracts System Number
IARC = International Agency for Research on Cancer
MSHA = Mining Safety and Health Administration
NAP = Not Applicable
NAV = Not Available
NIOSH = National Institute of Occupational Safety and Health
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration
PEL = Permissible Exposure Limit
STEL = Short-Term Exposure Limit (15 minutes)
TLV = Threshold Limit Value
TWA = Time-Weighted Average (8 hours)
WISHA = Washington Industrial Safety and Health Administration

USER'S RESPONSIBILITY

The information contained in this Material Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources believed to be accurate or otherwise technically correct. It is the user's responsibility to determine if this information is suitable for their applications and to follow safety precautions as may be necessary. The user has the responsibility to make sure that this sheet is the most up-to-date issue.

Eggers Industries

Stile & Rail Doors, Door Frames, Plywood
Flush Doors

East Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

www.eggersindustries.com email: sales@eggersindustries.com

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Chemical or Common Name CAS #	**%**	**Exposure Limits**	
Wood CAS # None	~68	OSHA PEL-TWA OSHA PEL-STEL ACGIH TLV-TWA WISHA PEL-TWA WISHA PEL-TWA	5mg/m^3 (a) 10mg/m^3 (a) 1mg/m^3 (b) 5mg/m^3 (c) 2.5mg/m^3 (d)
Plastic Core CAS # None	~18	OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA	15mg/m^3 (e) 5mg/m^3 (f) 10mg/m^3 (e)
Door Faces • Wood CAS # None • Paper (cellulose) CAS #9004-34-6 • Plastic CAS # None	~13	See Above OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA OSHA PEL-TWA OSHA PEL-TWA ACGIH TLV-TWA	 15mg/m^3 (e) 5mg/m^3 (f) 10mg/m^3 (e) 15mg/m^3 (e) 5mg/m^3 (f) 10mg/m^3 (e)
Lead CAS #7439-92-1	3-20	OSHA PEL-TWA ACGIH TLV-TWA	50mg/m^3 (g) 150mg/m^3 (g)
Resin Solids (Polymeric MDI) Type Diisocyanate CAS #9016-87-9	1-10	TLV & PEL – Not established	

a. softwood or hardwood total dust
b. selected hardwood total dust beech, oak
c. non-allergenic total dust
d. allergenic total dust
e. total dust
f. respirable dust
g. lead dust or fume

Appearance and Odor: Color (light or dark) and odor are dependent on wood species. Wood component may contain alder, ash, aspen, basswood, beech, birch, bubinga, cherry, chestnut, cottonwood, cypress, elm, fir, gum, hemlock, hickory, koa, mahogany (true or false), mansonia, maple, oak (red or white), pine, poplar, spruce, teak and/or walnut.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (F or C)	NAP
Vapor Pressure (mm Hg)	NAP
Vapor Density (Air=1)	NAP
Specific Gravity (H_2O=1)	0.40-0.80 (wood)
Melting Point (F or C)	1.8-2.0 (sound deadening material)
Evaporation Rate (Butyl Acetate=1)	NAP
Solubility in Water	NAP
% Volatile by Volume @ 70°F	<0.1%
	0

FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): NAP
Flammable Limits:
LEL: See below under "Unusual Fire and Explosion Hazards"
UEL: NAP

Extinguishing Media: Water, carbon dioxide, dry chemicals or foam.

Autoignition Temperature (F or C): 400°F - 800°F

Special Firefighting Procedures: Use full-body protective clothing and full-face piece, self-contained breathing apparatus operated in positive pressure mode.

Unusual Fire and Explosion Hazards: Hydrochloric acid and phosgene vapors and gases are formed during combustion. Depending on moisture content and, more importantly–particle diameter–wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts.

REACTIVITY DATA

Stability: ( ) Unstable (X) Stable

Conditions to Avoid: NAP

Incompatibility (Materials to Avoid): Avoid open flame. Product may ignite at temperatures in excess of 400°F.

Hazardous Decomposition or By-Products: Depending on moisture content, availability of oxygen and temperature, thermal decomposition products include carbon monoxide, carbon dioxide, water, various aldehydes (both aliphatic and aromatic), tars and carbon. Hydrochloric acid and phosgene vapors and gases may also be released under thermal decomposition.

Hazardous Polymerization:
( ) May Occur (X) Will Not Occur

Conditions to Avoid: NAP

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Not applicable for product in purchased form. Wood, paper or plastic dust(s) generated from sawing, sanding, drilling or routing of this product may be vacuumed or shoveled for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA approved respirator and goggles where ventilation is not possible.

Waste Disposal Method: Dry land disposal is acceptable in most states if disposed of or discarded in its purchased form. It is, however, the user's responsibility to determine at the time of disposal whether their product meets RCRA criteria for hazardous waste. Follow applicable federal, state and local regulations.

Precautions to be Taken in Handling and Storage: No special handling precautions are required. Keep in cool, dry place away from open flame. This product may release small amounts of gaseous formaldehyde. Store in well-ventilated area.

Other Precautions: A NIOSH/MSHA approved respirator and goggles should be worn when the allowable exposure limits may be exceeded.

HEALTH HAZARD DATA

Primary Health Hazards: The primary health hazards posed by this product are thought to be due to exposure to wood dust or gaseous formaldehyde.

Primary Route(s) of Exposure:
( ) Ingestion
(X) Skin (Dust)
(X) Inhalation (Dust or Gas)

Acute Health Hazards: *Signs and Symptoms of Exposure—Emergency and First Aid Procedures.*

- INGESTION: Not applicable under normal use.
- EYE CONTACT: Gaseous formaldehyde may cause temporary irritation or a temporary burning sensation. Wood, paper or plastic dust(s) may cause mechanical irritation as a foreign object. Treat dust in eye as a foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.
- SKIN CONTACT: Gaseous formaldehyde may cause allergic contact dermatitis in sensitized individuals, resulting in redness, itching and occasionally hives. Wood dust(s) of certain species may elicit allergic contact dermatitis in sensitized individuals, as well as mechanical irritation resulting in erythema and hives. Get medical help if rash, irritation, or dermatitis persists.
- SKIN ABSORPTION: Not known to occur with normal use.
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Carcinogenicity Listing:

(X)NTP Formaldehyde

(X)IARC Monographs Formaldehyde

(X)OSHA Regulated Formaldehyde

CONTROL MEASURES

Personal Protective Equipment:

- **RESPIRATORY PROTECTION:** Not applicable for product in purchased form. A NOSH/MSHA approved respirator is recommended when allowable exposure limits may be exceeded.
- **PROTECTIVE GLOVES:** Not required. However, cloth, canvas or leather gloves are recommended to minimize potential mechanical irritation from handling product.
- **EYE PROTECTION:** Not applicable for product in purchased form. Goggles or safety glasses are recommended when machining this product.
- **OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
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Ventilation:

- LOCAL EXHAUST: Provide local exhaust as needed so that exposure limits are met.
- MECHANICAL (GENERAL): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.
- SPECIAL: Self-contained breathing apparatus (SCBA) is recommended when fighting fire.
- OTHER: NAP.

ADDITIONAL INFORMATION – Definition of Common Terms

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NAP = Not Applicable
NAV = Not Available
NIOSH = National Institute of Occupational Safety and Health
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration
PEL = Permissible Exposure Limit
STEL = Short-Term Exposure Limit (15 minutes)
TLV = Threshold Limit Value
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HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CHEMICAL OR COMMON NAME CAS #	%	EXPOSURE LIMITS
Wood CAS # None	75-93	OSHA PEL-TWA 5mg/m^3 (a) OSHA PEL-STEL 10mg/m^3 (a) ACGIH TLV-TWA 1mg/m^3 (b) WISHA PEL-TWA 5mg/m^3 (c) WISHA PEL-TWA 2.5mg/m^3 (d)
Door Faces • Wood CAS # None • Paper (cellulose) CAS #9004-34-6 • Plastic CAS # None	~ 17	See Above OSHA PEL-TWA 15mg/m^3 (e) OSHA PEL-TWA 5mg/m^3 (f) ACGIH TLV-TWA 10mg/m^3 (e) OSHA PEL-TWA 15mg/m^3 (e) OSHA PEL-TWA 5mg/m^3 (f) ACGIH TLV-TWA 10mg/m^3 (e)
Resin Solids (PVA) Vinyl acetate CAS #None	<1	OSHA PEL – none established ACGIH TLV-TWA 10 ppm (g) ACGIH TLV-STEL 15 ppm (g)

(a) softwood or hardwood total dust
(b) selected hardwood total dust beech, oak
(c) Non-allergenic total dust
(d) allergenic total dust
(e) total dust
(f) respirable dust
(g) free vinyl acetate

Appearance and Odor: Doors with a variety of grain patterns and hues. The products have a slight aromatic odor. Wood component may contain alder, ash, aspen, basswood, beech, birch, bubinga, cherry, chestnut, cottonwood, cypress, elm, fir, gum, hemlock, hickory, koa, mahogany (true or false), mansonia, maple, oak (red or white), pine, poplar, spruce, teak and/or walnut.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (F or C)	NAP
Vapor Pressure (mm Hg)	NAP
Vapor Density (Air=1)	NAP
Specific Gravity (H_2O=1)	0.40-0.80
Melting Point	NAP
Evaporation Rate (Butyl Acetate=1)	NAP
Solubility in Water	<0.1%
% Volatile by Volume @ 70°F	0

FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): NAP

Flammable Limits:

LEL: See below under "Unusual Fire and Explosion Hazards"

UEL: NAP

Extinguishing Media: Water, carbon dioxide, sand

Autoignition Temperature (F or C): 400°F - 500°F (204°C - 260°C)

Special Firefighting Procedures: None

Unusual Fire and Explosion Hazards: Depending on moisture content and–more importantly—particle diameter, wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts.

REACTIVITY DATA

Stability: ( ) Unstable (X) Stable

Conditions to Avoid: NAP

Incompatibility (Materials to Avoid): Avoid contact with oxidizing agents. Avoid open flame. Product may ignite at temperatures in excess of 400°F.

Hazardous Decomposition or By-Products: Depending on moisture content, availability of oxygen and temperature, thermal decomposition products include carbon monoxide, carbon dioxide, water, various aldehydes (both aliphatic and aromatic), tars and carbon.

Hazardous Polymerization: ( ) May Occur (X) Will Not Occur

Conditions to Avoid: NAP

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Steps to be Taken in Case Material is Released or Spilled: Not applicable for product in purchased form. Wood, paper or plastic dust(s) generated from sawing, sanding, drilling or routing of this product may be vacuumed or shoveled for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA approved respirator and goggles where ventilation is not possible.

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Other Precautions: A NIOSH/MSHA approved respirator and goggles should be worn when the allowable exposure limits may be exceeded.

HEALTH HAZARD DATA

Primary Health Hazards: The primary health hazards posed by this product are thought to be due to exposure to wood dust or free gaseous formaldehyde.

Primary Route(s) of Exposure:

( ) Ingestion

(X) Skin (Dust)

(X) Inhalation (Dust or Gas)

Acute Health Hazards: *Signs and Symptoms of Exposure—Emergency and First Aid Procedures.*

- INGESTION: Not applicable under normal use.

- EYE CONTACT: Gaseous formaldehyde may cause temporary irritation or a temporary burning sensation. Wood, paper or plastic dust(s) may cause mechanical irritation as a foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.

- SKIN CONTACT: Gaseous formaldehyde may cause allergic contact dermatitis in sensitized individuals, resulting in redness, itching and occasionally hives. Wood dust(s) of certain species may elicit allergic contact dermatitis in sensitized individuals, as well as mechanical irritation resulting in erythema and hives. Get medical help if rash, irritation, or dermatitis persists.

- SKIN ABSORPTION: Not know to occur with normal use.

- INHALATION: High concentrations of wood, paper or plastic dust(s) may cause unpleasant deposit/obstruction in the nasal passages, resulting in runny nose, dry cough and/or sneezing. Gaseous formaldehyde may temporarily irritate the nose and throat, and may aggravate preexisting respiratory conditions depending on the level of exposure. Remove to fresh air. Get medical help if persistent irritation, severe coughing or breathing difficulty occurs.

Medical Conditions Generally Aggravated by Exposure: Wood dust may aggravate preexisting respiratory conditions or allergies.

Chronic Health Hazards: Gaseous formaldehyde has been shown to cause cancer in certain laboratory animals after long-term exposure to very high concentrations (14+ppm), far above those normally found in the workplace with this product. Wood dust(s), depending on the species (for example, iroko, cocobolo), may cause allergic contact dermatitis with prolonged, repetitive contact, and respiratory sensitization after prolonged exposure to elevated dust levels (for example, western red cedar). Wood dust has been alleged to cause nasal/paranasal sinus cancer (certain European hardwoods: oak and beech).

Carcinogenicity Listing:

(X)	NTP	Formaldehyde
(X)	ARC Monographs	Formaldehyde
(X)	OSHA Regulated	Formaldehyde

CONTROL MEASURES - Personal Protective Equipment

- RESPIRATORY PROTECTION: Not applicable for product in purchased form. A NOSH/MSHA approved respirator is recommended when allowable exposure limits may be exceeded.
- PROTECTIVE GLOVES: Not required. However, cloth, canvas or leather gloves are recommended to minimize potential mechanical irritation from handling product.
- EYE PROTECTION: Not applicable for product in purchased form. Goggles or safety glasses are recommended when machining this product.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
- WORK/HYGIENE PRACTICES: Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation of this combustible material. Minimize blowdown or other practices that generate high airborne-dust concentrations.

Ventilation:

- LOCAL EXHAUST: Provide local exhaust as needed so that exposure limits are met.
- MECHANICAL (GENERAL): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.
- SPECIAL: Self-contained breathing apparatus (SCBA) is recommended when fighting fire.
- OTHER: NAP.

USER'S RESPONSIBILITY: The information contained in this Material Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources believed to be accurate or otherwise technically correct. It is the user's responsibility to determine if this information is suitable for their applications and to follow safety precautions as may be necessary. The user has the responsibility to make sure that this sheet is the most up-to-date issue.

ADDITIONAL INFORMATION – Definition of Common Terms:

ACGIH	=	American Conference of Governmental Industrial Hygienists
C	=	Ceiling Limit
CAS #	=	Chemical Abstracts System Number
IARC	=	International Agency for Research on Cancer
MSHA	=	Mining Safety and Health Administration
NAP	=	Not Applicable
NAV	=	Not Available
NIOSH	=	National Institute of Occupational Safety and Health
NTP	=	National Toxicology Program
OSHA	=	Occupational Safety and Health Administration
PEL	=	Permissible Exposure Limit
STEL	=	Short-Term Exposure Limit (15 minutes)
TLV	=	Threshold Limit Value
TWA	=	Time-Weighted Average (8 hours)
WISHA	=	Washington Industrial Safety and Health Administration

TRUE STILE AND RAIL AND 5-PLY FLUSH DOORS
Warranty Information

Date: February, 2017

Eggers Industries

DURATION OF WARRANTIES

DOOR TYPE	INTERIOR USE	EXTERIOR USE
Particle, Agrifiber	Life of original installation	Not warranted
SCL	Life of original installation	Three years from date of original installation
Stave	Life of original installation	Not warranted
Plastic	Life of original installation	Not warranted
Mineral Core	Life of original installation	Not warranted
Acoustical	Life of original installation	Not warranted
Acoustical Airport – Flush	Life of original installation	Five years from date of original installation
Lead Shielded	Life of original installation	Not warranted
Stile & Rail - Non-Rated	Life of original installation	Three years from date of original installation
Stile & Rail - 20 Minute	Life of original installation	Not warranted
Stile & Rail - 45, 60, 90 Minute	Life of original installation	Not warranted
Full Lite Construction	Life of original installation	Not warranted
Bullet Resistant	Life of original installation	Three years from date of original installation
Foam Core	Life of original installation	Not warranted

All doors manufactured by EGGERS INDUSTRIES of Neenah, Wisconsin and EGGERS INDUSTRIES of Two Rivers, Wisconsin (hereinafter referred to as Eggers) are warranted to be free from defects in material and workmanship which would render them unserviceable or unfit for the ordinary, recommended use for the time periods as set forth below. This warranty automatically applies to purchasers of doors from Eggers and extends on resale of the product. Claims should be processed through the intermediate suppliers. It is the responsibility of Eggers' intermediate suppliers to make the initial jobsite visit on a complaint to verify the issue and collect necessary documentation (i.e., sizes, pictures, etc.). On occasion, it may be necessary for Eggers to send a representative to the jobsite. If an Eggers representative is required to go to the jobsite and the issue is determined not be a manufacturer's issue, then the intermediate supplier will be charged for all applicable expenses related to the jobsite visit.

LIMITATIONS OF LIABILITY

Eggers shall not be liable for incidental, indirect or consequential damages arising from the manufacture, use or sale of these goods. (This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.) Eggers' liability is expressly limited to the repair or replacement of non-conforming goods or the refund of the purchase price, at the option of Eggers

If any door becomes defective after installation, Eggers agrees to bear the **reasonable expense** of repairs, rework, machining, finishing, removing and rehanging such repairs. Rework, removal and rehanging shall be performed only after approval is obtained from Eggers and the cost of such work has been determined. **In the event the defect for which the doors are being rejected was apparent prior to hanging, Eggers is not obligated to pay removal and rehanging charges.**

NOTICE REQUIREMENT

Since Eggers cannot control the handling or exposure of doors after shipment, a specific duty of inspection is imposed upon the purchaser as a condition precedent to any claim under this warranty. Such inspection must be made upon receipt of the goods and written notice of any claim must be received by Eggers within 30 days of receipt of the goods, or discovery of the defect. NO CLAIM UNDER THIS WARRANTY SHALL BE ACTIONABLE UNLESS THE FOREGOING NOTICE IS GIVEN AS SET FORTH HEREIN.

It shall not be the policy of Eggers Industries to inspect finished installations for the sole purpose of certifying that the installation is within warranty.

MATTERS EXCLUDED FROM THIS WARRANTY

TRUE STILE AND RAIL AND 5-PLY FLUSH DOORS
Warranty Information

Date: February, 2017

Eggers Industries

Since methods and conditions or installation and use are beyond the control of Eggers, this warranty is not effective unless the doors are stored, handled, finished, used and installed in strict accordance with the provisions set in the following guidelines of this warranty.

Eggers Door Warranty
Tolerances, Exclusions and Instructions

TOLERANCES

1. Stile, rail and core show-through (telegraphing) shall not be considered a defect unless the face of the door varies from a true plane in excess of 1/100 (.010) in any 3 span.
2. Warp shall not be considered a defect unless it exceeds 1/4 in the plane of the door itself. For doors 1-3/4″ or thicker, warp shall not exceed 1/4 in doors 3'6″ x 7'0″ or smaller, nor shall it exceed 1/4 in any 3'6″ x 7'0″ section of larger doors. For doors less than 1-3/4 thick, warp shall not exceed 1/4 in doors 3'0″ x 7'0″ or smaller. Warp is any distortion in the door itself and does not refer to the relationship of the door to the frame, jamb, or adjacent doors. Warp is measured by placing a straight edge on the concave face and determining the maximum distance from straight edge to door face.
3. Tolerances for all applied moulding locations are ± 1/8″ reference to all margins.

HANDLING, FINISHING AND INSTALLATION INSTRUCTIONS

1. Store doors flat on a level surface in a dry, well-ventilated building. Protect doors with an opaque covering that does not permit light to penetrate to keep the doors clean and avoid discoloration. Covering must allow air circulation. If doors are to be stored more than a week, all edges should be sealed. Deliver doors or frames to building site after HVAC system is operating and balanced and plaster or cement is dry.
2. Doors should not be subjected to extreme heat and/or humidity. Relative humidity should not be less than 25% or greater than 55% and temperatures should not be less than 50 degrees F. or greater than 90 degrees F.
3. Handle with clean gloves and do not drag doors across one another or across other surfaces.
4. The utility or structural strength of the doors must not be impaired in the fitting of the door, the application of hardware or cutting and altering for lites, louvers, panels or any other special details.
5. Use three hinges for doors 7'6″ in height or less, and one additional hinge for each incremental 30 of height over 7′6″.
6. Allow a fitting clearance of 1/16″ to 1/8″ at each side and at the top.
7. Seal all edges immediately after field fitting.
8. Prior to field applied finishes, doors must be sanded. The finisher should thoroughly sand the doors with 150-grit sandpaper going with the grain direction of the veneer. A hand block should be used to remove all scuffs, handling marks, scratches, raised grain, burnishes and effects of exposure to moisture that may occur during handling, unloading and storage.
9. Some woods, particularly oak, contain chemicals which react with iron. Do not use steel wool on oak doors.
10. Doors prefinished at the factory should be checked against approved finish sample prior to hanging. (Installation of prefinished doors shall constitute acceptance.)
11. Stile and rail doors not prefinished at the factory must be stained and sealed, or painted, within 10 working days after the doors arrive from Eggers. Stile and rail doors supplied to Hawaii or Alaska must be factory finished.
12. Pilot holes must be drilled for all screws that act as hardware attachments. Self-tapping or combination wood/metal screws are not warranted for use on wood doors.

EXCLUSIONS

This warranty does not cover:

1. The appearance of field finished doors.
2. Natural variations in the color, texture, character, or cut of the wood.
3. Doors with cutouts closer than 5″ to the door edge or doors with adjacent cutouts such as hardware, lites, louvers, etc. closer than stated minimums.
4. Doors which have cutout areas exceeding 54″ door height. However, waivers in writing from the factory are available on a per job basis. This exclusion is waived on special full lite construction warranted for life of original installation for interior use.
5. Doors that are improperly hung and door frames that are not plumb, square and level and do not allow the door to swing freely.
6. Warpage of doors less than 1-3/4 thick which are wider than 3'0″ or higher than 7'0″.
7. Normal wear and tear including wear-through of finish.
8. Doors supplied outside the United States for telegraphing or warpage unless approved by the factory.
9. Cracking of plastic laminated surfaced doors with openings cut by other than Eggers or its authorized representative. Radius of 1/4 at corners of openings must be maintained.
10. Incompatibility of hardware with a particular door construction. This includes mortises such as concealed closers, magnetic holders, etc. deeper than 2″ or wider than 1-1/4″ and concealed vertical rod devices, unless special reinforced construction is ordered.
11. Constructions involving different species, face materials, or veneer grain configurations on opposite sides of the door. This includes doors with different plastic colors or patterns on each face. This may create an unbalanced condition not warranted against warpage, cracking, delaminations, etc. Exclusion may be waived for SCL core flush doors or stile and rail doors with proper approval in the form of a letter from manufacturing.
12. Constructions, other than flush SCL, involving appliques (excluding applied moulding) that are applied to only one face of the door.
13. Doors that are not stored as outlined in the Handling, Finishing and Installation Instructions.
14. Doors stored longer than six months.

TRUE STILE AND RAIL AND 5-PLY FLUSH DOORS
Warranty Information

Date: February, 2017

Eggers Industries

15. OEM's warranty applies to all accessories supplied by Eggers.
16. Doors that have any form of face grooving which penetrate the crossbanding in excess of limitations set by the factory.
17. Doors altered by others for size by re-railing or re-stiling or refacing or defects resulting from other machining or alterations performed by others.
18. Stylus moulding on one side of the door. Applied moulding on one side of door if moulding is over 1-3/4″ wide, 3/4″ high or over 24 lineal feet. Miter joints and flatness on mouldings over 3″ in width.
19. Doors up to 7'6″ in height with less than three hinges and doors with less than one additional hinge for each incremental 30 of height over 7'6″. This exclusion is waived on non-rated particle, agrifiber, or stave core up to 8'0″, stile & rail doors up to 8'0″ and SCL core doors up to 9′0″ when installed with top and bottom pivot hardware.
20. Doors machined for corner mortised flush bolts unless installed with metal edges or flush bolt cap.
21. Doors machined for specified concealed vertical rods unless installed with metal CVR cap. Consult factory for applicable CVR devices.
22. Lites not glazed by Eggers, including glass breakage and damage to the door.

NOTE: Action on any claim for warp or telegraphing defects may be deferred at the option of the manufacturer for a period not to exceed 12 months to permit conditioning of the doors to temperature and humidity conditions.

EXTERIOR FLUSH AND STILE AND RAIL DOOR GUIDELINES
An exterior door is defined as one that cannot be controlled on both sides for temperature and humidity.

When exterior doors are machined for hardware or a lite opening, opportunity exists for moisture penetration into the door which will eventually cause deterioration. Therefore, the existence of the following conditions will void the warranty for exterior installations:
1. Doors installed outside the continental 48 states.
2. Failure to double seal all machined surfaces including openings and hardware cuts with exterior sealer.
3. Failure to properly protect lite cutouts in exterior doors to prevent moisture from seeping into the core. Lip mouldings and exterior caulk are required. The top of an exterior door must be properly protected by flashing (except STC doors for airport housing).
4. Failure to provide adequate overhead protection. Adequate overhead protection includes a maximum of 4 ft. between the top of the door and the bottom of the overhead, a minimum overhead protection of 4′ out from the face of the door and a minimum protection extension of 4′ out from each side of the door.
5. Failure to provide the entire door including top and bottom edges with two coats of a good quality paint, varnish or lacquer.
6. This warranty does not cover telegraphing and checking of exterior doors.

Additional Exterior Guidelines
1. Eggers will not quote the Stylus door for an exterior application.
2. Eggers will not quote exterior doors with concealed hardware (vertical rods, flush bolts and closers/holders/stops).
3. Eggers will not quote exterior doors with machining for pivots and magnetic switches in the top rail of the door.
4. Eggers will not quote exterior doors with louvers.
5. Eggers will quote 20-minute flush doors for exterior applications.
6. Eggers will not quote 45, 60 and 90-minute flush doors for exterior application.
7. Eggers will not quote doors for applications with applied moulding and reveals.
8. Eggers will not quote 20, 45, 60 and 90-minute stile and rail doors for exterior applications.

Exterior finishes should be used on the exterior faces and all edges of exterior doors. A complete and continuous finish must be maintained on all surfaces of the door and must be refinished annually.

Airport Housing Projects
STC doors have been approved for residences around airports in Southern California and the Southwest with a five-year warranty. Contact the factory regarding exterior STC door requirements for airport housing projects in other locations. Top flashing not required on STC doors.

It should be noted that both the WDMA and AWI Standards indicate that wood doors are not recommended for exterior use.

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Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.845.0615

STANDARD TERMS OF SALE

Date: January, 2017

Eggers Industries

1. **Purpose and Acceptance of Order** – These terms are presented to avoid a misunderstanding between the customer and the vendor. Our acceptance of your order is expressly conditioned upon your confirming the accuracy of your order as acknowledged and your acceptance of our terms and conditions set forth. Our terms and conditions may be different from or additional to the terms of your purchase order.
2. **Credit Terms** - If vendor extends credit to customer, payment terms shall be Net 30 days from date of invoice. Vendor may change or withdraw credit amounts or payment terms at any time for any reason. If customer fails to make any payment when due, vendor may suspend or cancel performance on any orders in which vendor has extended credit to customer. Vendor's' suspension of performance may result in rescheduling delays. If, in vendor's judgment, customer's financial condition does not justify the payment terms specified herein, then Eggers may require customer to immediately pay for all materials that have been shipped/delivered and pay in advance for all materials yet to be shipped/delivered. Suspension in accordance with this clause shall not affect vendor's right to pursue any other available remedies.
3. **Price** – These prices are based on the order as written, not necessarily on your inquiry or original quotation. Prices as shown on the acknowledgment are final and will be invoiced on the date of shipment.
4. **Cancellation of Order** – Upon cancellation of an order in process, billing will be made to the customer for all work and materials expended up to the cancellation date. The order will be completed and/or materials shipped only at specific request of the customer. It is the manufacturer's option to use any materials from a cancelled order elsewhere, anytime following the cancellation of the order, and cancellation charges are based on this option.
5. **Change/Revision Charge** – Any change to an order that has already been released out of sales will be assessed a charge of $250/order plus any applicable material and labor costs associated with the change.
6. **Damaged Material** – This material will be carefully inspected and in good condition when accepted by the carrier. If damage occurs, it is your responsibility to immediately notify the transportation company to make an inspection prior to discarding packaging material. If packaging material is damaged, you must make the request upon receipt of the materials. The customer must not sign an inspection receipt that puts responsibility of damage on the shipper because of insufficient protection of materials without the consent of the shipper. If you feel the damage occurred prior to shipping, or is our responsibility, contact our company representative. The packaging material must be saved for our inspection. We will accept full responsibility for damaged material only if all of the above procedures are followed.
7. **Freight Allowance** – All quotations made with freight allowance are FOB Factory and based on method of shipment quoted. Should the customer request an alternate method of shipment, additional freight charges will be assessed.
8. **Required Customer Information** – If the customer fails to supply adequate hardware machining information or fails to agree on a finish sample, the company reserves the right to credit the charges for these items and ship the door without pre-machining or pre-finishing the product.
9. **Appearance** – All doors must be visually inspected for face grade, color, match, and other defects by the customer prior to further work or installation. If manufacturing defects are detected after staining or sealing, no additional coat of finish may be applied without approval of the manufacturer. We are responsible for repairing or replacing material as originally furnished, but not refinishing or reinstallation if the defect could be detected prior to further work or installation.
10. **Sanding Prior to Finishing** – Prior to field applied finishes, doors must be sanded. The finisher should thoroughly sand the doors with 150-grit sandpaper going with the grain direction of the veneer. A hand block should be used to remove all scuffs, handling marks, scratches, raised grain, burnishes and effects of exposure to moisture that may occur during handling, unloading and storage.
11. **End Matching** – An end match variation of grain pattern is considered acceptable for face of panels of 3/8" and back of panels of 7/8".
12. **Storage and Installation Conditions** – It is the responsibility of the customer to store and install the product in an enclosed area where the relative humidity is maintained between 25% and 55%. Certain veneers such as Cherry, Mahogany, Teak, Walnut, etc. may be damaged if exposed to either sunlight or forms of artificial light. Cover doors to keep clean and avoid discoloration with an opaque covering which does not permit light to penetrate during storage or staging. Covering must allow for air circulation. If doors are to be stored for more than one week, all edges should be sealed.
13. **Industry Standards** – For items not covered by these Standard Terms of Sale, these industry standards apply:
    a. Hardwood Plywood Veneer Association (HPVA), or
    b. Window & Door Manufacturers Association (WDMA), or
    c. Architectural Wood Institute (AWI), or
    d. Woodwork Institute (WI)
14. **Warranty** – Our sole and exclusive warranty to you under this contract is that the goods sold pursuant to this Contract will be as described and be free of any defects in parts and workmanship, if used under normal circumstances and in accordance with any instructions given to you. Except as expressly provided to the contrary in

paragraphs 10 and 11. **WE EXPRESSLY DISCLAIM ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSES OF THE BUYER AS PROVIDED BY THE UNIFORM COMMERCIAL CODE.** It is also agreed that our remedies to you for your breach under this Contract shall consist of the following, any or all of which may be exercised by us at our sole option and no others:

a. Repair the product without charges to you,
b. Replace the product without charge in the same stage of installation and/or finishing as originally supplied to you, or
c. Refund the purchase price.

If requested by the customer, only an Eggers Warranty will be issued for the project upon receipt of full payment as acknowledged by Eggers.

15. **Consequential Damages** – In the event that we breach this Contract, we shall not be liable to you for any consequential damages arising out of such breach. In the event that any other term of this Contract is found unconscionable or unenforceable for any reason, or the remedies identified in paragraph 12 above fail of their essential purpose, the provision of waiver by agreement of consequential damages shall continue in full force and effect.
16. **Shipping Delays** – We are excused from performing any of our obligations under this Contract which are prevented or delayed by any occurrence not within our control, including, but not limited to, destruction or damage to the goods of our manufacturing plant, strikes or other labor matters, floods, fire, accidents, riots, explosion, or any regulations, rules, ordinances or orders of any governmental authority, federal, state, or local.
17. **Choice of Law** – The terms, rights, and obligations under this Contract shall be construed under the laws of the State of Wisconsin.

Cancellation Charge	
Orders not started in production	No charge
Order that is in production	$200 per order plus the cost of rework, restock, etc. as well as labor expended.
All Fast Track Orders	$200 per order plus the cost of rework, restock, etc. as well as labor expended.

Change/Revision Charge	
Any change to an order that has been released out of sales	$250/order plus any applicable material and labor costs associated with the change.

STANDARD TERMS OF SALE

Date: January, 2017

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