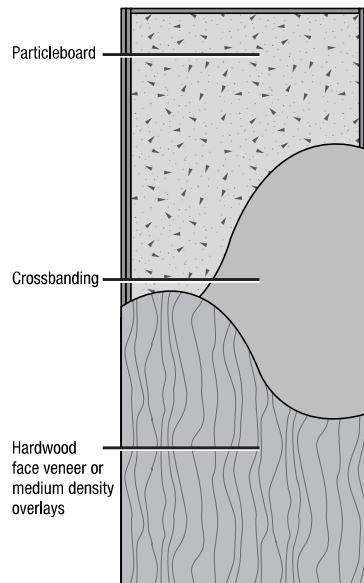


# PC-5 Novodor® FD ⅓ Hour

## (Neutral or Positive Pressure)



Algoma's Novodor is an architectural door made with a particleboard core.

**Solid lumber outer stiles, along with Structural Composite Lumber (SCLC) rails and inner stiles, are securely bonded to the core under side pressure.**

To ensure strength, rigidity and freedom from telegraphing of core parts, this bonded core is then sanded before **hot pressing** a crossband and face on each side of the core assembly. This makes the highest quality assembly for fine hardwood veneers and composite overlays for solid color finishes.

**Algoma uses only the better of two grades of particleboard**

conforming to ANSI Standard A208.1-1993, Type 1, Grade LD-2 with face screw holding power of 124 pounds, modulus of rupture of 725 psi, modulus of elasticity of 148,700 psi and density of 30–32 pounds per cubic foot.

**Algoma uses only face veneers at least 1/50" (0.5mm) thick at 12% moisture content.**

**Positive Pressure Note:** Algoma recommends using Category B 1/3 hour single swing doors. Please refer to Positive Pressure in Product Features Detail Section below. The selection of Category B 1/3 hour doors will offer cost savings and no aesthetic compromise.

### Product Features

<b>Thickness</b>	1¾" (44mm) available FD ⅓ hour labeled. 1⅝" (35mm) available FD ⅓ hour labeled, neutral pressure only.
<b>Maximum size</b>	Available prefit up to 4'0" x 10'0" (1219 x 3048mm); <b>Category B:</b> 4'0" x 9'0" (1219 x 2743mm). In FD ⅓ hour, 4'0" x 10'0" is maximum for singles and 8'0" x 10'0" (2438 x 3048mm) pairs. Also available in double egress pairs up to 8'0" x 9'0".
<b>Stiles (Edge bands)</b>	1⅝" (35mm) prior to factory trimming, glued to core. CE-compatible edges standard. ME—same species available.
<b>Special edge treatments</b>	To reduce edge damage, polymer edges with FD ⅓ hour label available.
<b>Top &amp; bottom rails</b>	⅞" (22mm) prior to factory trimming, glued to core; Structural Composite Lumber (SCL).
<b>Core</b>	Conforms to ANSI A208.1-1993, GRADE LD-2 covering mat-formed particleboard with face screw holding power of 124 pounds, modulus of rupture of 725 psi, modulus of elasticity of 148,700 psi and density of 30–32 pounds per cubic foot.
<b>Reinforcement</b>	Reinforced top and/or bottom rails are available to eliminate the need for through-bolting when installing closers or holders. Note: Screws must penetrate doors a minimum of 1½". Please see <b>Hardware 5</b> and <b>13</b> for PC-5 reinforcement options.
<b>Crossbands</b>	⅛" (1.6mm) minimum wood-based composite.
<b>Faces</b>	All foreign and domestic species, medium density overlay (MDO) and most low sheen .050 thickness High Pressure Decorative Laminates. Faces are a minimum of 1/50" (0.5mm) at 12% moisture content. All faces to be per WDMA I.S.1-A face grades unless otherwise specified.
<b>Adhesive</b>	Doors constructed using water-resistant adhesives (Type 1).
<b>Veneer matching</b>	Available in pairs, sets or matching transoms.
<b>Details</b>	Standard lites and louvers available not to exceed 40% of door area and 54" (1372mm) in length. Maximum glass opening on FD ⅓ hour doors is 1,296 sq. in. (0.836m²) with wood beads and clips or metal vision panels. Applied mouldings, quirks, and divided lites also available. Larger lites available with special glazing. (Contact Algoma for positive pressure approvals.) See Details 11 and 12.
<b>Machining</b>	Available with hinge and lock machining as well as rabbets, holders, drop seals, pivots, etc.
<b>Finishing</b>	Available in finishes with performance characteristics equivalent to AWI System TR-6, standard or custom colors. Also available primed four sides, painted, or sealed top and bottom. Opaque finish (OP-6) on medium density overlay only.
<b>Warranty</b>	For interior, full warranty for life of original installation. For exterior, see warranty.
<b>Standards met or exceeded</b>	WDMA I.S.1-A Series, ARCHITECTURAL WOOD FLUSH DOORS. Architectural Woodwork Quality Standards Section 1300, Architectural Flush Doors and Section 1500, Factory Finish.
<b>Special services</b>	Provides STC rating of 28 when supplied with gasketing. Provides detention security rating of Grade #40 with ASTM Impact Test F 476.
<b>Positive Pressure</b>	<b>Category A:</b> Singles and pairs have intumescent built into the door, and no additional fire seals are required. If smoke and draft control doors are also required, then a category H seal must be applied to the frame. <b>Category B:</b> Singles and pairs require a category G edge seal applied to the frame. Pairs also require a category G edge seal applied to one of the meeting edges.



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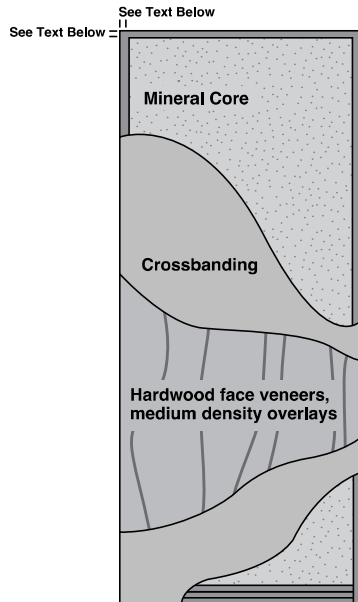
# PC-5 Novodor® FD 1/3 Hour

COLUMN	1	2	3
FEATURE \ LABEL	ITS/WHI	UL	UL & ITS/WHI AHI FD 1/3 Hour Door/Transom
<b>MAXIMUM OPENING SIZE</b>	<b>Singles:</b> 4'0" x 10'0" (1219 x 3048mm). <b>Pairs:</b> 8'0" x 10'0" (2438 x 3048mm). Double egress 8'0" x 9'0" (2438 x 2743mm). Pairs over 8' need metal edge guards. (Positive pressure not available.)	<b>Singles:</b> 4'0" x 10'0" (1219 x 3048mm); Category B: 4'0" x 9'0" (1219 x 2743mm). <b>Pairs:</b> 8'0" x 9'0" (2438 x 2743mm), neutral and positive pressure, including double egress. <b>With listed concealed rods:</b>	<b>Total Opening:</b> 4'0" x 11'0" (1219 x 3353mm). <b>ITS/WHI Opening:</b> 4'0" x 10'0" (1219 x 3048mm). <b>Door:</b> 4'0" x 8'0" (1219 x 2438mm). <b>Transom:</b> 4'0" x 4'0" (1219 x 1219mm).
<b>FACES</b>	Wood veneer or medium density overlay.	All foreign and domestic species, medium density overlay (MDO) and most low sheen .050 thickness High Pressure Decorative Laminates. Faces are a minimum of 1/50" (0.5mm) at 12% moisture content. All faces to be per WDMA I.S.1-A face grades unless otherwise specified	
<b>STILES (VERTICAL EDGES) AND RAILS</b>	All doors have either same species or compatible outers. Up to 13 1/2" (343mm) bottom rails allowed. Plastic laminate edges after faces. Not allowed.	24" x 24" (610 x 610mm). Minimum 5"	Door/transom rabbeted 1/2" x 1/8" (13 x 22mm).
<b>MAXIMUM WOOD VENEERED BEADED LITE</b>	1296 sq. inches (0.836m²). Maximums: 30" (762mm) width, 54" (1372mm) length. Larger lites available with special glass and approval of AHJ (authority having jurisdiction). Contact Algoma for positive pressure approvals.		
<b>MAXIMUM METAL VISION PANEL (Visible glass)</b>	1296 sq. inches (0.836m²). Maximums: 30" (762mm) width, 54" (1372mm) length. Larger lites available with special glass and approval of AHJ (authority having jurisdiction). Contact Algoma for positive pressure approvals. 1 1/2" 20 minute doors limited to 100 sq. in. (0.065m²) metal vision panels only.		
<b>MAXIMUM LOUVER SIZE (Not allowed with vision panel, exit devices, or smoke control doors)</b>		(127mm) from edge and 10" (203mm) from bottom. Neutral pressure only.	Not allowed.
<b>HINGES</b> <b>Note: Per NFPA 80 some specialty hinges allowed. Contact Algoma for information.</b>	<u>Ball bearing steel mortised, half or full</u> surfaced 4 1/2" x 4 1/2" x .134" (114.3 x 114.3 x 3.4mm) to 10'0" (3048mm).  Listed surface type or LCN using #420	<u>Ball bearing steel mortised, half or full surfaced</u> 4 1/2" x 4 1/2" x .134" (114.3 x 114.3 x 3.4mm) to 10'0" (3048mm). UL listed spring hinges 4 1/2" x 4 1/2" x .134". UL listed surface type. Concealed closer arms	Ball bearing steel mortised, half or full surfaced 4 1/2" x 4 1/2" x .134" (114.3 x 114.3 x 3.4mm) to 10'0" (3048mm). UL listed spring hinges 4 1/2" x 4 1/2" x .134".
<b>LOCKSETS</b>	All listed cylindrical, mortised, unit, card, and hospital push/pull to 5" (127mm) backset.		
<b>PIVOTS</b>	Top, intermediate & bottom must be listed offset. Rixon's #180, 280, 380, 480, FM19, 219, T117, T117 1/4, Unichocks 65 thru 68, or equal. Others as approved, including pocket pivots.	Half or full mortised; top pivots not allowed unless frame is equipped with a fixed transom bar.	
<b>CLOSERS</b>	Fireshield or Norton with Fire Block Liner #790, or Yale with Fire Block Liner #450.  <u>Singles:</u> Mortised, rim or surface vertical rods. <u>Pairs:</u> Rim (with mullion) or surface vertical rods. Double egress allowed.	and stops can be mortised in the top rail as long as the dimensions do not exceed 1 3/8" wide x 1 3/4" deep x 25" long.  <u>Singles:</u> Mortised, rim, or surface vertical rods. <u>Pairs:</u> Mortised lock and strike, rim, surface or concealed vertical rods. Double egress allowed.	UL listed surface type.
<b>FIRE EXIT HARDWARE (Allowed with vision panel if non-interfering)</b>	Listed surface or mortised door bolts. Manual, self-latching or automatic as codes allow.	Listed for use with wood doors. Surface or mortised door bolts. Manual, self-latching or automatic as codes allow.	<b>Singles:</b> Mortised, rim or surface vertical rods. <b>Pairs:</b> Not available.
<b>OTHER PAIR HARDWARE</b>			Not allowed
<b>Maximum trim:</b> 3/4" with standard rail. <b>Door Bottoms:</b> Max size 1"x1 1/8" listed surface or concealed. <b>Viewers:</b> ITS/WHI up to 1" (25mm); UL up to 1" (25mm).	<b>Edges:</b> Polymer edges allowed where edge damage is likely. <b>Astragals and edge guards:</b> Must be supplied and cut for hardware under label service.	<b>Wood Frames:</b> FD 1/3 Hour doors can be installed with 1/2 hour wood frames. <b>Electric Raceway:</b> Available with label on all doors.	



# FD 1½ Hour Door

## (Neutral or Category B Positive Pressure)\*



Algoma Hardwoods, Inc. has been making mineral core fire doors for more than 50 years. The mineral core door listed here has stood the test of time. The Algoma Mineral Core is unusually light and remarkably stable.

The 1½ hour mineral core fire door, available in UL or ITS/WHI ratings, is suitable for room and corridor partition openings where rated doors are required.

The FD 1½ Hour is manufactured with the Superstile for superior screw holding strength and split resistance. Also, reinforcements can be specified which allow surface mounted hardware to be installed with screws.

Surface Vertical Rod/Less Bottom Rod (SVR/LBR) and Concealed Vertical Rod (CVR) exit devices can both provide compliance with the Americans with Disabilities Act (ADA). CVR exit devices require the addition of metal edge channels which are not required with SVR/LBR exit devices. In addition, SVR/LBR exit devices are less expensive to install and require less maintenance.

\*Some constructions may only be available as Category A.

### Product Features

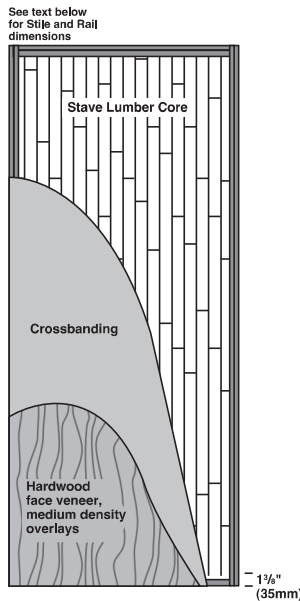
<b>Thickness</b>	1¾" (44mm), 2¼" (57mm)
<b>Maximum size</b>	Available prefit up to: Singles: 4'0" x 9'0" (1219 x 2743mm). Pairs: 8'0" x 9'0" (2438 x 2743mm), including double egress pairs. Listed concealed vertical rods: 8'0" x 9'3" (2438 x 2819mm)
<b>Stiles (Edge bands)</b>	⅝" (16mm) Superstile
<b>Top rail</b>	<b>regular</b> ¼" (6.4mm) hardwood lumber.
	<b>reinforced</b> See <b>Door</b> section table of contents.
<b>Lockblocks</b>	For exit device reinforcement, see <b>Door</b> section table of contents.
<b>Bottom rail</b>	<b>regular</b> 1⅞" (27mm) hardwood lumber
	<b>reinforced</b> See <b>Door</b> section table of contents.
<b>Faces</b>	All foreign and domestic species, medium density overlay (MDO) and most low sheen .050 thickness High Pressure Decorative Laminates. Faces are a minimum of 1/50" (0.5mm) at 12% moisture content. All faces to be per WDMA I.S.1-A face grades unless otherwise specified.
<b>Crossbands</b>	1/16" (1.6mm) minimum wood-based composite.
<b>Adhesives</b>	Doors constructed using water-resistant adhesives (Type 1).
<b>Veneer matching</b>	Available as pairs, sets or matching transoms.
<b>Wood beaded lite openings</b>	Maximum 136 in² (0.088m²) cutout or 100 in² (0.065m²) visible glass. Larger lites available with special glazing. No temperature rise over 100 in². See <b>Detail 11</b> for glass options.
<b>Metal vision panels</b>	Maximum 100 in² (0.065m²) visible glass. Maximums: 12" (305mm) width, 33" (838mm) length. Larger lites available with special glass. No temperature rise over 100 in². See <b>Detail 11</b> for glass options.
<b>Louvers</b>	Up to 24" x 24" (610 x 610mm). Louver(s) not allowed in doors with lite openings, exit devices or smoke control doors.
<b>Machining</b>	See reverse side.
<b>Finishing</b>	Available in finishes with performance characteristics equivalent to AWI and WDMA Systems TR-6, standard or custom colors. Also available primed four sides, sealer six sides or sealed top and bottom. Opaque finish (OP-6) on MDO only.
<b>Warranty</b>	For interior only, full warranty for life of original installation.
<b>Standards met or exceeded</b>	WDMA I.S.1-A Series, ARCHITECTURAL WOOD FLUSH DOORS. Architectural Woodwork Quality Standards Section 1300, Architectural Flush Doors and Section 1500, Factory Finish.
<b>Positive Pressure</b>	<b>Category B:</b> Singles and pairs require a category G edge seal plus a Category H smoke seal applied to the frame. Pairs also require a category G edge seal applied to one of the meeting edges.

# FD 1½ Hour Door

COLUMN	1	2
FEATURE	UL or ITS/WHI (Note: All items may not be available with both agencies.)	
MAXIMUM OPENING SIZE	<b>Singles:</b> 4'0" x 9'0" (1219 x 2743mm). <b>Transom:</b> 4'0" x 4'0" in a separate frame only. <b>Side Panels:</b> 4'0" x 9'0" (1219 x 2743mm).	<b>Pairs:</b> 8'0" x 9'0" (2438 x 2743mm), including double egress <b>With listed concealed rods:</b> 8'0" x 9'3" (2438 x 2819mm),
FACES	All foreign and domestic species, medium density overlay (MDO) and most low sheen .050 thickness High Pressure Decorative Laminates. Faces are a minimum of 1/50" (0.5mm) at 12% moisture content. All faces to be per WDMA I.S.1-A face grades unless otherwise specified.	
STILES AND RAILS	3/8" (16mm) Superstile with maple outer. Optional same species or plastic outer available. Top rail 1/4" (6.4mm). Bottom rail 1 1/16" (27mm). For rail and lock block reinforcement, see <b>Door</b> section table of contents.	
MAXIMUM WOOD VENEERED BEADED LITE	To 136 sq. in. (0.088m²) of cutout (100 sq. in. (0.065m²) of visible glass). Maximums: 13" (330mm) width, 34" (864mm) length. Minimum 5" (127mm) perimeter from cutout to top and sides or lock. V-9 and V9C bead compatible with face veneer. To 1,296 sq. in. with special glass and approval of AHJ (authority having jurisdiction). No temperature rise over 100 in². See <b>Detail 11</b> for glass options.	
MAXIMUM METAL VISION PANEL (Visible glass)	To 100 sq. in. (0.065m²) visible glass. 10" x 10", 8" x 12", 3" x 33", 5" x 20", 4" x 25", 6" x 16" sizes available. (254 x 254mm, 203 x 305mm, 76 x 838mm, 127 x 508mm, 102 x 635mm, 152 x 406mm sizes available.) Maximums: 12" (305mm) width, 33" (838mm) length. Minimum 5" (127mm) perimeter from cutout to top and sides or lock. Combined multiple openings up to 100 sq. in. (0.065m²). Circular openings up to 11" (279mm) diameter. To 1,296 sq. in. with special glass and approval of AHJ (authority having jurisdiction). No temperature rise over 100 in². See <b>Detail 11</b> for glass options.	
MAXIMUM LOUVER SIZE (Not allowed with vision panel, exit devices, or smoke control doors)	24" x 24" (610 x 610mm) with 6" (152mm) perimeter at sides, 10" (254mm) at bottom. Fusible link louvers only.	
HINGES	Per NFPA 80. Some specialty hinges allowed. Contact Algoma for information.	
LOCKSETS	All listed cylindrical, mortised, unit, card, electronic locks, and hospital push/pull to 5" (127mm) backset.	
PIVOTS	Top, intermediate & bottom must be listed offset. Rixon's #180, 280, 380, 480, FM19, 219, T117, T117 1/4, Unichicks 65 thru 68, or equal. Others as approved. Pocket pivots not allowed. Intermediate pivots required for label and warranty.	
CLOSERS	Listed surface type. Throughbolt fastening required unless optional reinforcement is specified. Listed floor closers as approved. Concealed closer arms and stops can be mortised in the top rail as long as the dimensions do not exceed 13/8" wide x 1 3/4" deep x 25" long.	
FIRE EXIT HARDWARE	<b>Singles:</b> Listed rim or mortise type with 3/8" (16mm) throw or surface vertical rods to 4'0" x 9'0" (1219 x 2743mm). <b>Pairs:</b> Mortise type on active and surface vertical rods on inactive. Listed rim devices with removable mullion. Surface vertical rods both doors get metal channels. Surface vertical rods without metal channels require special construction. (Matching veneer wrap optional.) Listed concealed vertical rod exit devices to 8'0" x 9'3" (2438 x 2819mm) with special channels on meeting edges with no overlapping astragal. Hardware must be listed for use on wood doors. SVR-LBR on both doors requires metal channels prepped for heat activated bolt between the leaves, no floor bolts required. Sargent PP and PR8700 SVR-LBR require special construction; metal edges are not required.	
OTHER PAIR HARDWARE	Pairs of doors with removable or fixed mullion <b>between</b> are considered as single swing.	Listed for use with wood doors. Surface or mortised door bolts. Manual, self-latching or automatic as codes allow.
<b>Maximum trim:</b> 3/4" (19mm) at bottom with standard rail. <b>Door Bottoms:</b> Max size 1"x1 15/16" listed surface or concealed.	<b>Viewers:</b> ITS/WHI up to 1" (25mm); UL up to 1" (25mm). <b>Astragals and edge guards:</b> Must be supplied and cut for hardware under label service.	<b>Electric Raceway:</b> Available with label on all doors.

# SLC-5 Stave Lumber Core FD ⅓ Hour Door

## (Neutral or Positive Pressure)



Algoma's architectural Stave Lumber Core door features a kiln dried, low density wood block core which is bonded together under side pressure using the high frequency cure method.

**Solid lumber stiles and rails are securely bonded to this core.** To ensure strength, rigidity and freedom from telegraphing of core parts, this unitized core is then sanded before hot pressing a crossband and face on each side of the core assembly. This makes a high quality base for fine hardwood veneers and composite overlays for solid color finishes.

**Algoma uses only face veneers at least .020\" (0.5mm) thick at 12% moisture content.**

**Positive Pressure Note:** Algoma recommends using Category B 1/3 hour single swing doors. Please refer to Positive Pressure in Product Features Detail Section below. The selection of Category B 1/3 hour doors will offer cost savings and no aesthetic compromise.

### Product Features

<b>Thickness</b>	1¾" (44mm) or 2¼" (57mm) available FD ⅓ hour labeled. 1½" (35mm) available non-labeled.
<b>Maximum size</b>	Available prefit up to 4'0" x 10'0" (1219 x 3048mm). In FD ⅓ hour, 4'0" x 9'0" (1219 x 2743mm) is maximum for singles and 8'0" x 9'0" (2438 x 2743mm) for pairs. Also available in double egress pairs up to 8'0" x 9'0" (2438 x 2743mm).
<b>Stiles (Edge bands)</b>	1⅜" (35mm) prior to factory trimming, glued to core. ME-same species available, CE-compatible species standard.
<b>Special edge treatments</b>	To reduce edge damage, polymer edges with ⅓ hour label available.
<b>Top rails</b>	1⅜" (35mm) prior to factory trimming, glued to core.
<b>Bottom rails</b>	1⅜" (35mm) Structural Composite Lumber (SCL).
<b>Core</b>	Low density wood blocks, kiln dried, not more than 2½" wide; random lengths, joints well staggered.
<b>Crossbands</b>	⅛" (1.6mm) minimum wood-based composite.
<b>Faces</b>	All foreign and domestic species, medium density overlay (MDO) and most low sheen .050 thickness High Pressure Decorative Laminates. Faces are a minimum of ⅛" (0.5mm) at 12% moisture content. All faces to be per WDMA I.S.1-A face grades unless otherwise specified.
<b>Adhesive</b>	Doors constructed using water-resistant adhesives (Type 2).
<b>Veneer matching</b>	Available in pairs, sets or matching transoms.
<b>Details</b>	Standard lites and louvers available not to exceed 40% of door area or 54" (1372mm) in length. Maximum glass opening on FD ⅓ hour doors is 1,296 sq. in. (0.836m <sup>2</sup> ) with wood beads and clips or metal vision panels. Applied mouldings, quirks, and divided lites also available. Specify flashing on exterior doors. Larger lites available with special glazing. Contact Algoma for positive pressure approvals. See Details 11 and 12.
<b>Machining</b>	Available with hinge and lock machining as well as rabbets, holders, drop seals, pivots, etc.
<b>Finishing</b>	Available in finishes with performance characteristics equivalent to AWI System TR-6, standard or custom colors. Also available primed, sealed, or sealed top and bottom edges only. Opaque finish (OP-6) on medium density overlay only.
<b>Warranty</b>	For interior, full warranty for life of original installation. For exterior, see warranty.
<b>Standards met or exceeded</b>	WDMA I.S.1-A Series, ARCHITECTURAL WOOD FLUSH DOORS. Architectural Woodwork Quality Standards Section 1300, Architectural Flush Doors and Section 1500, Factory Finish.
<b>Special services</b>	Provides detention security rating of Grade #40 with ASTM Impact Test F 476.
<b>Positive Pressure</b>	<p><b>Category A:</b> Singles and pairs have intumescent built into the door, and no additional fire seals are required. If smoke and draft control doors are also required, then a category H seal must be applied to the frame.</p> <p><b>Category B:</b> Singles and pairs require a category G edge seal applied to the frame. Pairs also require a category G edge seal applied to one of the meeting edges.</p>

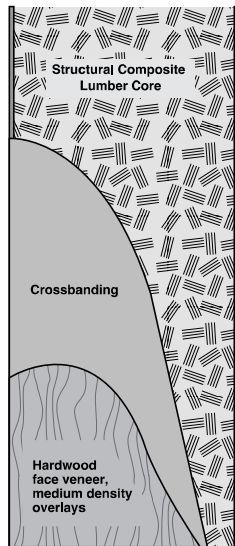
# SLC-5 Stave Lumber Core FD ⅓ Hour Door

COLUMN	1	2	3
FEATURE	ITS/WHI	UL	UL or ITS/WHI AHI FD ⅓ Hour Door/Transom
<b>MAXIMUM OPENING SIZE</b>	<b>Singles:</b> 4'0" x 9'0" (1219 x 2743mm). <b>Pairs:</b> 8'0" x 9'0" (2438 x 2743mm), including double egress. Pairs over 8'0" (2438mm) in height need metal edge guards. Positive pressure 4'0" x 8'0" and 8'0" x 8'0" double egress.	<b>Singles:</b> 4'0" x 9'0" (1219 x 2743mm). <b>Pairs:</b> 8'0" x 9'0" (2438 x 2743mm), neutral and positive pressure, including double egress. <b>With listed concealed rods:</b> 8'0" x 9'3" (2438 x 2819mm).	<b>UL Opening:</b> 4'0" x 11'0" (1219 x 3353mm). <b>ITS/WHI Opening:</b> 4'0" x 10'0" (1219 x 3048mm). <b>Door:</b> 4'0" x 8'0" (1219 x 2438mm). <b>Transom:</b> 4'0" x 4'0" (1219 x 1219mm).
<b>FACES</b>	All foreign and domestic species, medium density overlay (MDO) and most low sheen .050 thickness High Pressure Decorative Laminates. Faces are a minimum of 1/50" (0.5mm) at 12% moisture content. All faces to be per WDMA I.S.1-A face grades unless otherwise specified		
<b>STILES (VERTICAL EDGES) AND RAILS</b>	All doors have either same species or compatible outers. Up to 13 1/2" (343mm) bottom rails allowed. Plastic laminate edges after faces.		Door/transom rabbeted 1/2" x 1/8" (13 x 22mm). Matching or compatible edges will be provided when frame is equipped with fixed transom bar.
<b>MAXIMUM WOOD BEADED LITE</b>	1296 sq. inches (0.836m²). Maximums: 30" (762mm) width, 54" (1372mm) length. Larger lites available with special glazing. Contact Algoma for positive pressure approvals.		
<b>MAXIMUM METAL VISION PANEL (Visible glass)</b>	1296 sq. inches (0.836m²). Maximums: 30" (762mm) width, 54" (1372mm) length. Larger lites available with special glazing. Contact Algoma for positive pressure approvals.		
<b>MAXIMUM LOUVER SIZE (Not allowed with vision panel, exit devices, or smoke control doors)</b>	Not allowed.	24" x 24" (610 x 610mm). Minimum 5" (127mm) from edge and 10" (203mm) from bottom. Neutral pressure only.	Not allowed.
<b>HINGES</b> <b>Note: Per NFPA 80 some specialty hinges allowed. Contact Algoma for information.</b>	Ball bearing steel mortised, half or full surfaced 4 1/2" x 4 1/2" x .134" (114.3 x 114.3 x 3.4mm) to 10'0" (3048mm). UL listed spring hinges 4 1/2" x 4 1/2" x .134".	Ball bearing steel mortised, half or full surfaced 4 1/2" x 4 1/2" x .134" (114.3 x 114.3 x 3.4mm) to 10'0" (3048mm). UL listed spring hinges 4 1/2" x 4 1/2" x .134". Anchor hinges allowed.	Ball bearing steel mortised, half or full surfaced 4 1/2" x 4 1/2" x .134" (114.3 x 114.3 x 3.4mm) to 10'0" (3048mm). UL listed spring hinges 4 1/2" x 4 1/2" x .134".
<b>LOCKSETS</b>	All listed cylindrical, mortise, unit, card, electric lock, and hospital push/pull to 5" (127mm) backset.		
<b>PIVOTS</b>	Top, intermediate & bottom must be listed offset. Rixon's #180, 280, 380, 480, FM19, 219, T117, T117 1/4, Unichicks 65 thru 68, or equal. Others as approved. Pocket pivots not allowed. Intermediate pivots required for label and warranty.		Half or full mortised; top pivots not allowed unless frame is equipped with a fixed transom bar.
<b>CLOSERS</b>	Listed surface type or LCN using #420 Fireshield or Norton with Fire Block Liner #790, or Yale with Fire Block Liner #450.	UL listed surface type. Concealed closer arms and stops can be mortised in the top rail as long as the dimensions do not exceed 13 1/8" wide x 13/4" deep x 25" long.	UL listed surface type.
<b>FIRE EXIT HARDWARE (Allowed with vision panel if non-interfering)</b>	<b>Singles:</b> Mortise, rim or surface vertical rods. <b>Pairs:</b> Rim (with mullion) or surface and concealed vertical rods. Double egress allowed.	<b>Singles:</b> Mortise, rim, or surface vertical rods. <b>Pairs:</b> Rim (with mullion) or surface and concealed vertical rods. Double egress allowed.	<b>Singles:</b> Mortise, rim or surface vertical rods. <b>Pairs:</b> Not available.
<b>OTHER PAIR HARDWARE</b>	Listed surface or mortised door bolts. Manual, self-latching or automatic as codes allow.	Listed surface or mortised door bolts. Manual, self-latching or automatic as codes allow.	Not allowed
<b>Maximum trim:</b> 3/4" (19mm) at bottom with standard rail. <b>Undercut:</b> Maximum undercut, 3/4" (19mm).	<b>Door Bottoms:</b> Max size 1"x1 15/16" listed surface or concealed. <b>Viewers:</b> ITS/WHI up to 1" (25mm); UL up to 1" (25mm).	<b>Edges:</b> Polymer edges allowed where edge damage is likely. <b>Astragals and edge guards:</b> Must be supplied and cut for hardware under label service.	<b>Wood Frames:</b> FD ⅓ Hour doors can be installed with ⅓ hour wood frames. <b>Electric Raceway:</b> Available with label on all doors.

# SCLC-5 Structural Composite Lumber Core

## FD ⅓ Hour Door (Neutral or Positive Pressure)

See text below  
for Stile dimensions



Algoma's Architectural Structural Composite Lumber Core door utilizes an engineered hardwood strand board that is oriented and resin bonded to provide physical properties that equal or exceed solid lumber.

Stiles are securely bonded to the core. This construction provides strength, rigidity, and screw-holding power for surface mounted hardware to satisfy the most demanding applications.

Algoma uses only face veneers at least .020" (.5mm) thick at 12% moisture content.

**Positive Pressure Note:** Algoma recommends using Category B 1/3 hour single swing doors. Please refer to Positive Pressure in Product Features Detail Section below. The selection of Category B 1/3 hour doors will offer cost savings and no aesthetic compromise.

### Product Features

<b>Thickness</b>	1¼" (44mm) available FD ⅓ hour labeled, 1⅝" (35mm) available non-labeled.
<b>Maximum size</b>	Available profit up to 4'0" x 10'0" (1219 x 3048mm). In FD ⅓ hour, 4'0" x 9'0" (1219 x 2743mm) is maximum for singles and 8'0" x 9'0" (2438 x 2743mm) for pairs. Also available in double egress pairs up to 8'0" x 9'0" (2438 x 2743mm).
<b>Stiles (Edge bands)</b>	⅞" (22mm) prior to factory trimming, glued to core. Alternates: ME—same species or CE—compatible edges.
<b>Special edge treatments</b>	To reduce edge damage, polymer edges with ⅓ hour label available.
<b>Top &amp; bottom rails</b>	Structural composite lumber (industry standard does not require separate rails on this construction).
<b>Core</b>	Structural composite lumber core.
<b>Crossbands</b>	⅛" (1.6mm) minimum wood-based composite.
<b>Faces</b>	All foreign and domestic species, medium density overlay (MDO) and most low sheen .050 thickness High Pressure Decorative Laminates. Faces are a minimum of ⅓" (0.5mm) at 12% moisture content. All faces to be per WDMA I.S.1-A face grades unless otherwise specified.
<b>Adhesive</b>	Doors constructed using water-resistant adhesives (Type 2).
<b>Veneer matching</b>	Available in pairs, sets or matching transoms.
<b>Details</b>	Standard lites and louvers available not to exceed 40% of door area or 54" (1372mm) in length. Maximum glass opening on FD ⅓ hour doors is 1,296 sq. in. (0.836m²) with wood beads or metal vision panels. Applied mouldings and quirks also available. Contact Algoma for positive pressure approvals. See Details 11 and 12.
<b>Machining</b>	Available with hinge and lock machining as well as rabbets, holders, drop seals, pivots, etc.
<b>Finishing</b>	Available in finishes with performance characteristics equivalent to WDMA System TR-6, standard or custom colors. Also available primed, sealed, or sealed top and bottom edges only. Opaque finish (OP-6) on medium density overlay only.
<b>Warranty</b>	For interior, full warranty for life of original installation.
<b>Standards met or exceeded</b>	WDMA I.S.1-A Series, ARCHITECTURAL WOOD FLUSH DOORS. Architectural Woodwork Quality Standards Section 1300, Architectural Flush Doors and Section 1500, Factory Finish.
<b>Special services</b>	Provides detention security rating of Grade #40 with ASTM Impact Test F 476.
<b>Positive Pressure</b>	<p><b>Category A:</b> Singles and pairs have intumescent built into the door, and no additional fire seals are required. If smoke and draft control doors are also required, then a category H seal must be applied to the frame.</p> <p><b>Category B:</b> Singles and pairs require a category G edge seal applied to the frame. Pairs also require a category G edge seal applied to one of the meeting edges.</p>

# SCLC-5 Structural Composite Lumber Core

## FD ⅓ Hour Door

FEATURE	LABEL		
	ITS/WHI	UL	UL or ITS/WHI AHI FD ⅓ Hour Door/Transom
<b>MAXIMUM OPENING SIZE</b>	<b>Singles:</b> 4'0" x 9'0" (1219 x 2743mm). <b>Pairs:</b> 8'0" x 9'0" (2438 x 2743mm), including double egress. Pairs over 8'0" (2438mm) in height need metal edge guards. Positive pressure 4'0" x 8'0" and 8'0" x 8'0" double egress.	<b>Singles:</b> 4'0" x 9'0" (1219 x 2743mm). <b>Pairs:</b> 8'0" x 9'0" (2438 x 2743mm), neutral and positive pressure, including double egress. <b>With listed concealed rods:</b> 8'0" x 9'3" (2438 x 2819mm).	<b>UL Opening:</b> 4'0" x 11'0" (1219 x 3353mm). <b>ITS/WHI Opening:</b> 4'0" x 10'0" (1219 x 3048mm). <b>Door:</b> 4'0" x 8'0" (1219 x 2438mm). <b>Transom:</b> 4'0" x 4'0" (1219 x 1219mm).
<b>FACES</b>	All foreign and domestic species, medium density overlay (MDO) and most low sheen .050 thickness High Pressure Decorative Laminates. Faces are a minimum of 1/50" (0.5mm) at 12% moisture content. All faces to be per WDMA I.S.1-A face grades unless otherwise specified		
<b>STILES (VERTICAL EDGES) AND RAILS</b>	All doors have either same species or compatible outers. Up to 1 1/2" (343mm) bottom rails allowed. Plastic laminate edges after faces.		Door/transom rabbeted 1/2" x 7/8" (13 x 22mm).
<b>MAXIMUM WOOD BEADED LITE</b>	1296 sq. inches (0.836m²). Maximums: 30" (762mm) width, 54" (1372mm) length. Larger lites available with special glazing. Contact Algoma for positive pressure approvals.		
<b>MAXIMUM METAL VISION PANEL (Visible glass)</b>	1296 sq. inches (0.836m²). Maximums: 30" (762mm) width, 54" (1372mm) length. Larger lites available with special glazing. Contact Algoma for positive pressure approvals.		
<b>MAXIMUM LOUVER SIZE (Not allowed with vision panel, exit devices, or smoke control doors)</b>	Not allowed.	24" x 24" (610 x 610mm). Minimum 5" (127mm) from edge and 10" (203mm) from bottom. Neutral pressure only.	Not allowed.
<b>HINGES</b> <b>Note: Per NFPA 80 some specialty hinges allowed. Contact Algoma for information.</b>	Ball bearing steel mortised, half or full surfaced 4 1/2" x 4 1/2" x .134" (114.3 x 114.3 x 3.4mm) to 10'0" (3048mm). UL listed spring hinges 4 1/2" x 4 1/2" x .134".	Ball bearing steel mortised, half or full surfaced 4 1/2" x 4 1/2" x .134" (114.3 x 114.3 x 3.4mm) to 10'0" (3048mm). UL listed spring hinges 4 1/2" x 4 1/2" x .134". Anchor hinges allowed.	Ball bearing steel mortised, half or full surfaced 4 1/2" x 4 1/2" x .134" (114.3 x 114.3 x 3.4mm) to 10'0" (3048mm). UL listed spring hinges 4 1/2" x 4 1/2" x .134".
<b>LOCKSETS</b>	All listed cylindrical, mortise, unit, card, electric lock, and hospital push/pull to 5" (127mm) backset.		
<b>PIVOTS</b>	Top, intermediate & bottom must be listed offset. Rixon's #180, 280, 380, 480, FM19, 219, T117, T117 1/4, Unichocks 65 thru 68, or equal. Others as approved, including pocket pivots.		Half or full mortised; top pivots not allowed unless frame is equipped with a fixed transom bar.
<b>CLOSERS</b>	Listed surface type or LCN using #420 Fireshield or Norton with Fire Block Liner #790, or Yale with Fire Block Liner #450.	Listed surface type. Concealed closer arms and stops can be mortised in the top rail as long as the dimensions do not exceed 1 3/8" wide x 1 3/4" deep x 25" long.	Listed surface type.
<b>FIRE EXIT HARDWARE (Allowed with vision panel if non-interfering)</b>	<b>Singles:</b> Listed mortise, rim or surface vertical rods. <b>Pairs:</b> Listed rim (with mullion), surface vertical rods, or concealed vertical rods (5" metal channel/8'0" x 8'0"). Double egress allowed.	<b>Singles:</b> Listed mortise, rim, or surface vertical rods. <b>Pairs:</b> Listed rim (with mullion), surface vertical rods, or concealed vertical rods (5" metal channel/8'0" x 8'0"). Double egress allowed.	<b>Singles:</b> Listed mortise, rim or surface vertical rods. <b>Pairs:</b> Not available.
<b>OTHER PAIR HARDWARE</b>	Listed surface or mortised door bolts. Manual, self-latching or automatic as codes allow.	Listed surface or mortised door bolts. Manual, self-latching or automatic as codes allow.	Not allowed
<b>Maximum trim:</b> 3/4" (19mm) at bottom. <b>Undercut:</b> Maximum undercut, 3/4" (19mm) per NFPA 80.	<b>Door Bottoms:</b> Max size 1"x1 1/2" listed surface or concealed. <b>Viewers:</b> ITS/WHI up to 1" (25mm); UL up to 1" (25mm).	<b>Edges:</b> Polymer edges allowed where edge damage is likely. <b>Astragals and edge guards:</b> Must be supplied and cut for hardware under label service.	<b>Wood Frames:</b> FD ⅓ Hour doors can be installed with ⅓ hour wood frames. <b>Electric Raceway:</b> Available with label on all doors.

## Radiation Shielded Doors - 45 - 60 Minute

*Neutral Pressure, Positive Pressure, Environmental*

Standard Models: LEAD

Environmental Models: NAUF & FSC Options Available

### Product Features and Specifications Mineral Core

**Thickness** 1-3/4"

**Lead Thickness** 1/32", 1/16", 1/8"

**Lead Location** One sheet, narrow side. (Review hardware applications when ordering)

**Label Agency** ITS-WH

**Fire Rating** 45-60 minute

**Maximum Size** ITS-WH: Single: 4/0x8/0 Standard Pairs: 8/0x8/0 Contact Algoma for larger size requests.

**Minimum Size** 1-7 1/2 x 4/0

**Astragal at Pairs** Lead Lined Metal Edge & Astragal

**Surface Materials** Wood Veneers, Medium Density Overlay, High Pressure Decorative Laminate

**Crossbands** One Piece High Density Fiberboard (HDF)

**Vertical Edges** Manufacturer's standard construction with Veneer edge band per label service listing  
Options: Impact resistant edges, Laminate edge band (Laminate doors)

**Horizontal Edges** Manufacturer's standard construction per label service listing

**Face & Core Assembly Adhesive** Type 1

**Core** Fire-Resistant Composite per label service listing

**Lite Openings** Refer to Appendix N

**Factory Finish** Wood Veneers: Clear, Standard or Custom Stain  
Paint Grade Birch/Medium Density Overlay: Prime or Opaque

**Environmental Options & LEED Credit Contribution**  
(Not all credits may be available with some constructions)

- Recycled Content- all models
- Regional Materials- all models
- Certified Wood - contact sales
- Rapidly Renewable Materials (all models with Bamboo)
- Carb Phase II Compliant
- Low-Emitting Materials- all UF models (No Added Urea Formaldehyde Resins)

**Quality Standards (Quality Assurance/ Industry Standards)** Aesthetic: WDMA I.S.1A Architectural Wood Flush Doors (Standard construction)  
\*Other association aesthetic standards upon request

**Door Weight** 1/32" lead = 5.8 lbs per sq ft.  
1/16" lead = 7.8 lbs per sq ft.  
1/8" lead = 13.8 lbs per sq ft.

**Warranty** Full; life of original installation. No exterior warranty

Note: Algoma doors are manufactured per the standards listed on this page. Specifications are subject to change without notice.  
Fire-Rated doors will be constructed per label service listing and may deviate from above.

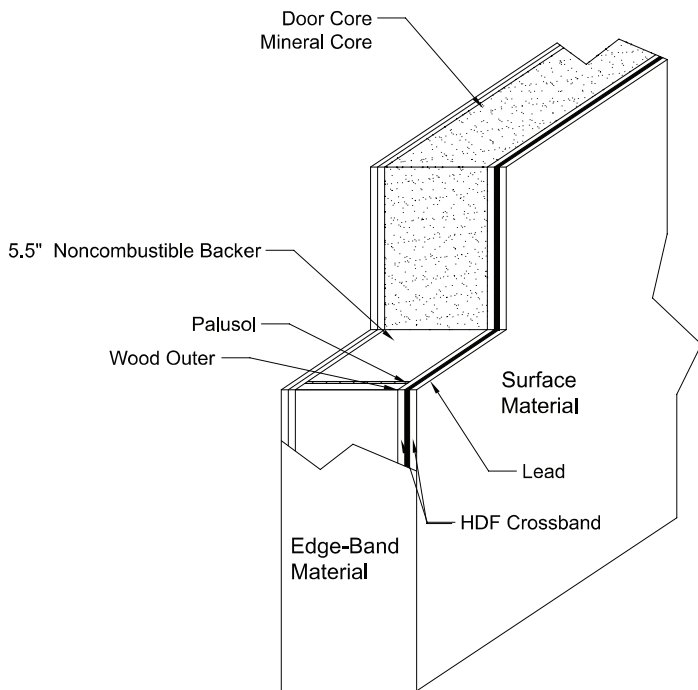


### Radiation Shielded Doors - 45 - 60 Minute

*Neutral Pressure, Positive Pressure, Environmental*

Standard Models: LEAD

Environmental Models: NAUF & FSC Options Available



Stile: 3-ply Stile - 1.18125" (after trim)

Hardwood Lumber Outer, Palusol, Non-Combustible Backer

Note: Algoma doors are manufactured per the standards listed on this page. Specifications are subject to change without notice.  
Fire-Rated doors will be constructed per label service listing and may deviate from above.

## Radiation Shielded Doors - Non-Rated & 20 Minute

Neutral Pressure, Positive Pressure, Environmental

Standard Models: LEAD PC, LEAD SCL

Environmental Models: NAUF & FSC Options Available

Product Features and Specifications	Particleboard Core	Structural Composite Lumber Core
<b>Thickness</b>	1-3/4"	Same
<b>Lead Thickness</b>	1/32", 1/16", 1/8" (Contact Sales for other thickness)	Same
<b>Lead Location</b>	Once sheet, narrow side. (Review hardware applications when ordering)	Same
<b>Fire Rating</b>	20 minute	Same
<b>Maximum Size</b>	ITS-WH: Single 4/0 x 8/0 Standard Pairs 8/0x80 Contact Algoma for larger size requests.	Same
<b>Minimum Size</b>	0-11 3/8 x 4/0	Same
<b>Astragal at Pairs</b>	Lead-lined Metal Edge & Astragal	Same
<b>Surface Material</b>	Wood Veneers, Medium Density Overlay, High Pressure Decorative Laminate (HPDL)	Same
<b>Crossbands</b>	One Piece High Density Fiberboard (HDF)	Same
<b>Vertical Edges</b>	1 3/8" SCL stiles with veneer edge band (default construction-Veneer doors) 1 3/8" 2 ply with 3/4" hardwood outer (optional) Impact resistant edge band (optional) Laminate edge band (default construction-Laminate doors)	Same
<b>Horizontal Edges</b>	Structural Composite Lumber - particleboard core	None Required
<b>Face &amp; Core Assembly Adhesive</b>	Type 1	Same
<b>Core</b>	Particleboard Core	Structural Composite Lumber
<b>Lite Openings</b>	Refer to Appendix N	Same
<b>Factory Finish</b>	Wood Veneers: Clear, Standard or Custom Stain Paint Grade Birch/Medium Density Overlay: Prime or Opaque	Same
<b>Environmental Options &amp; LEED Credit Contribution</b>	•Regional Materials- all models •Certified Wood - contact sales •Rapidly Renewable Materials (all models with Bamboo) •Carb Phase II Compliant •Low-Emitting Materials- all UF models (No Added Urea Formaldehyde Resins)	Same
<b>Quality Standards (Quality Assurance/ Industry Standards)</b>	Aesthetic: WDMA I.S.1A Architectural Wood Flush Doors (Standard) *Other association aesthetic standards upon request	Same
<b>Door Weight</b>	1/32" lead = 7.7 lbs per sq ft. 1/16" lead = 9.2 lbs per sq ft. 1/8" lead = 13 lbs per sq ft.	Same
<b>Warranty</b>	Full; life of original installation. No exterior warranty	Same

Note: Algoma doors are manufactured per the standards listed on this page. Specifications are subject to change without notice.

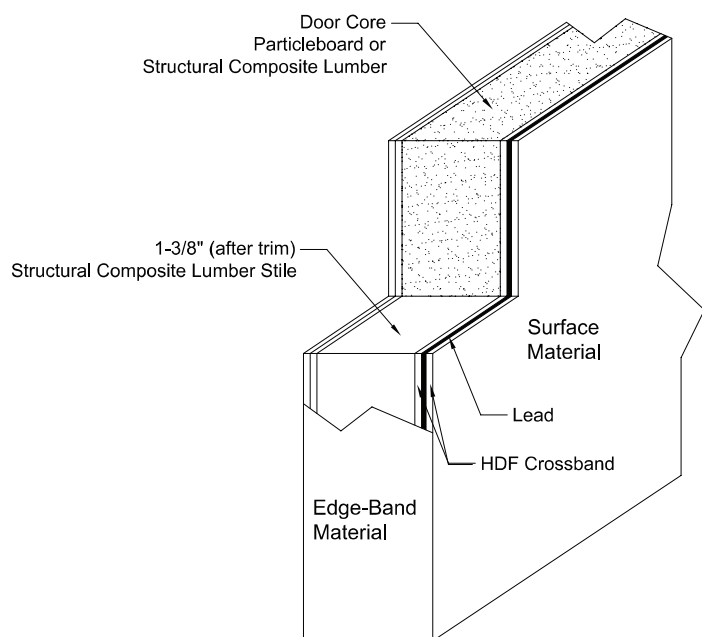
Fire-Rated doors will be constructed per label service listing and may deviate from above.

### Radiation Shielded Doors - Non-Rated & 20 Minute

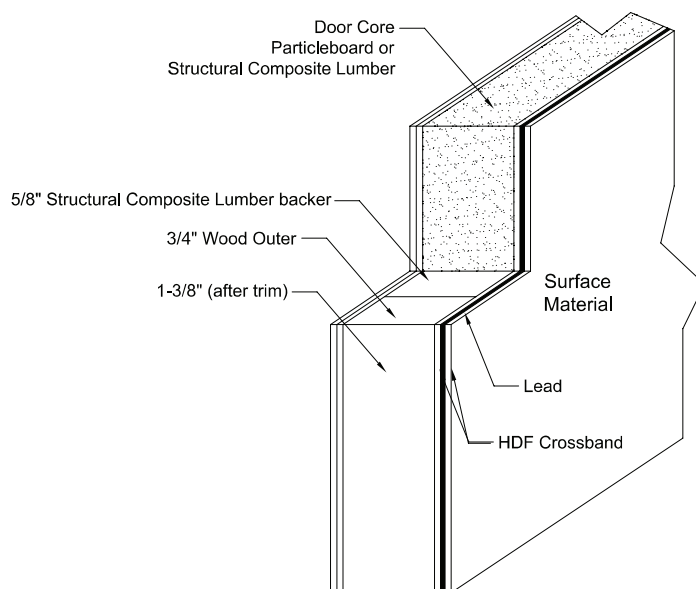
*Neutral Pressure, Positive Pressure, Environmental*

Standard Models: LEAD PC, LEAD SCL

Environmental Models: NAUF & FSC Options Available



Stile: 1 3/8" (after trim) SCL (Structural Composite Lumber)



2-ply Stile: 1 3/8" (after trim) Hardwood Lumber Outer/  
SCL (Structural Composite Lumber) Backer

Note: Algoma doors are manufactured per the standards listed on this page. Specifications are subject to change without notice.  
Fire-Rated doors will be constructed per label service listing and may deviate from above.

## APPENDIX N: Lite Openings for Fire-Rated Lead-lined Doors

### 20 Minute Particleboard or Structural Composite Lumber Core Lead Doors

115-L1 double glazed metal vision frame with lead strip installed around cutout

- 1/32" and 1/16" lead (1/16" Laminated & 1/2" Leaded)
- 1/8" lead (1/8" Laminated & 3/4" Leaded)

**Maximum visible glass size for 20 minute doors using ceramic glass is 576 sq. in.,** Max width 24", Max length 36".

Ceramic glass=Pyroedge 20, Pyroswiss, Keralite FR-F, Firelite NT (Unpolished or polished), Firelite Plus

**Maximum visible glass size for 20 minute doors using wire glass is 100 sq. in.,** Max width 12", Max length 33". Wired glass=Wired, Safti SuperLite 1-W, and Wirelite NT

Must maintain minimum distance of 5" from edge of door to edge of cutout for warranty.

Must maintain minimum distance of 5 1/2" from edge of door to edge of cutout for fire rating.

Must maintain minimum distance of 3 1/4" from edge of cutout to adjacent hardware cutouts for 20 minute LL Particleboard Core fire rating.

Must maintain minimum distance of 1 1/4" from edge of cutout to adjacent hardware cutouts for 20 minute LL Structural Composite Lumber Core fire rating.

### 45-60 Minute Fire-Rated Mineral Core Lead Doors

115-L1 double-glazed metal vision frame with lead strip installed around cutout

- 1/32" and 1/16" lead (1/16" Laminated & 1/2" Leaded)
- 1/8" lead (1/8" Laminated & 3/4" Leaded)

**Maximum visible glass size for 45 & 60 minute doors is 100 sq. in.,** Max width 12", Max length 33" using wired glass. Wired glass=Wired, Safti SuperLite 1-W, and Wirelite NT

**Maximum visible glass size for 45 minute doors is 576 sq. in.,** Max width 24", Max length 36" using ceramic glass. Ceramic glass=Keralite FR-F, Firelite NT (Unpolished or polished), Firelite Plus.

Must maintain minimum distance of 5" from edge of door to edge of cutout for warranty.

Must maintain minimum distance of 5 1/2" from edge of door to edge of cutout for fire rating.

Must maintain minimum distance of 3 1/4" from edge of cutout to adjacent hardware cutouts for 45-60 minute LL fire rating.

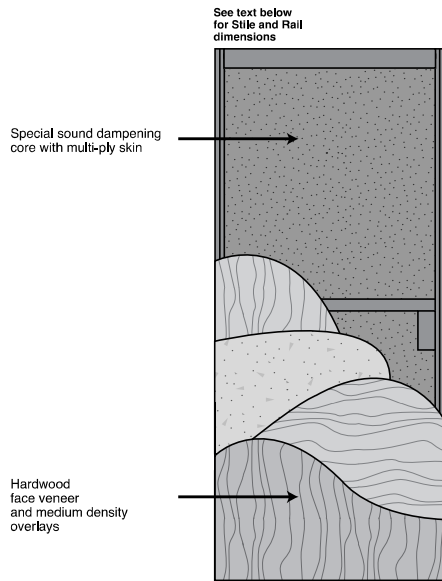
Note: Algoma doors are manufactured per the standards listed on this page.

Specifications are subject to change without notice.

\*Note: Fire-Rated doors will be constructed per label service listing and may deviate from above.

# SR Acoustical & Acoustical FD ⅓ Hour Door

## (Neutral or Positive Pressure)



**STC 40/STC 45**  
**STC 43 with 1/3 Hour Label**  
**STC 39 with Lite Opening**

Algoma's Acoustical doors were tested as operating units in a complete system with hollow metal framing back-filled with mortar, gasketing, drop seal and threshold, where applicable — the same as supplied to the jobsite — thus ensuring that the specified STC ratings are achieved.

Sound Transmission Class (STC) 40 Acoustical doors should be used wherever the degree of sound insulation desired is higher than an ordinary solid core door can provide.

If a still higher degree of sound reduction is required, such as in hospitals, doctors' offices or conference rooms, the STC 45 Acoustical door may be specified. STC 43 Acoustical doors are available for openings which require both sound control and 1/3-hour fire ratings.

When job requirements include doors with glass openings, STC 39 Acoustical doors are available, non-labeled.

And for communicating doors, a STC-54 rating is achieved when two STC-40 Acoustical doors are installed back-to-back in the same opening.

Testing was conducted by Riverbank Acoustical Laboratories in accordance with ASTM E90-90 and E413-87.

**Algoma uses only face veneers at least .020" (0.5mm) thick at 12% moisture content.**

### Product Features

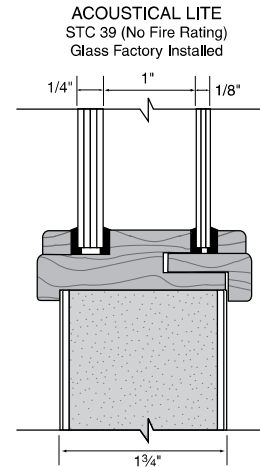
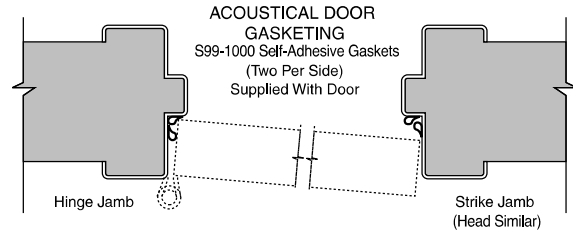
<b>Thickness</b>	1¾" (44mm)
<b>Maximum size</b>	Non-labeled singles up to 4'0" x 10'0" (1220 x 3050mm) and pairs up to 8'0" x 10'0". In FD ⅓ hour, 4'0" x 8'0" (1220 x 2440mm) singles and 8'0" x 8'0" in STC-28 and STC-43. STC ratings not verifiable in pairs. STC-43 available in 1/3 hour Category B.
<b>Stiles (Edge bands)</b>	4⅞" (124mm) prior to factory trimming, veneer banded.
<b>Special edge treatments</b>	Polymer edges for better impact resistance available.
<b>Top &amp; bottom rails</b>	4⅞" (124mm) prior to factory trimming. Structural composite lumber.
<b>Core</b>	Special core construction with acoustical dampening materials.
<b>Hardware Reinforcement</b>	None required.
<b>Faces</b>	All foreign and domestic species and medium density overlay. Face veneers are a minimum of .020" (0.5mm) thick at 12% moisture content. All faces to be per WDMA I.S.1-A face grades unless otherwise specified.
<b>Adhesives</b>	Doors constructed using water-resistant adhesives (Type 2).
<b>Veneer matching</b>	Pairs or matching transoms non-labeled. Note: Pairs and door/transom units have not been tested and may not maintain STC ratings.
<b>Details</b>	STC 39 doors with acoustical lites not to exceed 400 sq. in. (0.258m <sup>2</sup> ) visible glass with an acoustical lite kit, gasketing and double-glazed glass. Factory glazing required. Applied molding not available. Lites not allowed in fire rated STC-43.
<b>Machining</b>	Available with hinge and lock machining as well as other hardware. Factory machined for drop seal.
<b>Finishing</b>	Available in finishes with performance characteristics equivalent to WDMA System TR-6, standard or custom colors. Also available primed, sealed, or sealed top and bottom edges only. Opaque finish (OP-6) on medium density overlay only.
<b>Warranty</b>	For interior, full warranty for life of original installation.
<b>Standards met or exceeded</b>	WDMA I.S.1-A Series, ARCHITECTURAL WOOD FLUSH DOORS. Architectural Woodwork Quality Standards Section 1300, Architectural Flush Doors and Section 1500, Factory Finish. Tested by Riverbanks Acoustical Laboratories in accordance with ASTM E90-90 and E413-87 as operating units rather than "sealed in place." STC ratings are verifiable only on single doors.
<b>Special services</b>	Gasketing and drop seal are supplied with doors. Threshold supplied with STC 45, STC 43 and STC 39 doors.
<b>Positive Pressure</b>	<b>Category B:</b> Singles and pairs require a category G edge seal applied to the frame. Pairs also require a category G edge seal applied to one of the meeting edges.

# SR Acoustical & Acoustical FD 1/3 Hour Door

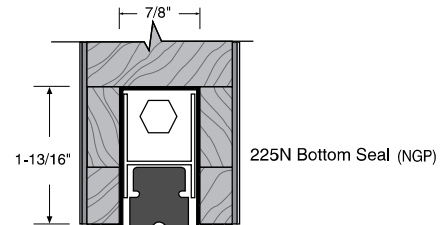
## UNDERWRITERS LABORATORIES, INC. FD 1/3 HOUR FIRE DOOR APPROVAL (STC 28 and STC 43)

<b>MAXIMUM OPENING SIZE</b>	<b>Singles:</b> 4'0" x 8'0" (1220 x 2440mm). <b>Pairs:</b> 8'0" x 8'0" (2440 x 2440mm).
<b>FACES</b>	All domestic and imported wood species.
<b>STILES (VERTICAL EDGES)</b>	4 1/4" (124 mm) hardwood stiles veneer banded to match face species.
<b>MAXIMUM WOOD BEADED LITE</b>	Not allowed.
<b>MAXIMUM METAL VISION PANEL</b>	Not allowed.
<b>HINGES*</b> Note: Per NFPA 80 some specialty hinges allowed. Contact Algoma for information.	Ball bearing steel, full mortise, half surface, or full surface. Minimum size 4 1/2" x .134" (114 x 3.4mm).
<b>LOCKSETS*</b>	Listed mortise locks, unit locks, and cylindrical locks or hospital push-pull latches to 3 3/4" (95mm) backset.
<b>CLOSERS*</b>	Listed surface mounted closures.
<b>FIRE EXIT HARDWARE*</b>	Mortise or rim type devices
<b>Door Bottoms:</b>	Doors are supplied with concealed type automatic drop seal.
<b>Maximum trim:</b>	Doors should be ordered factory prefit for height since the bottom is grooved for drop seal.
<b>Prefit:</b>	Standard undercut on STC 39, 43, and 45 will receive a 7/16" undercut to accommodate the 1/4" high threshold. Undercut can be adjusted if floor conditions warrant.

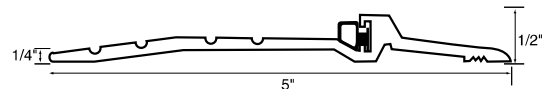
## ACOUSTICAL DOOR ACCESSORIES



**ACOUSTICAL DOOR AUTOMATIC DOOR BOTTOM**  
(supplied with door)  
Aluminum with neoprene insert  
3/4" (19mm) maximum drop



**896S THRESHOLD (NGP)**  
(Supplied with STC 39, STC 43 and STC 45 Doors-ADA Approved)



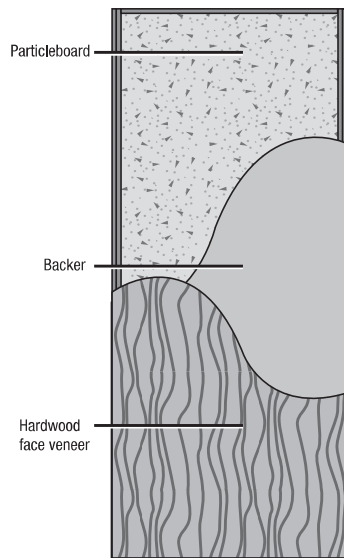
## Sound Transmission Loss Ratings and Door Weight\*

Type of installation	Sound Transmission Class (STC)	Transmission loss at various frequencies (Hertz)						Door weight*	
		125	250	500	1000	2000	4000	lbs/sq ft	kg/M <sup>2</sup>
Single door (with lite opening)	39	26	31	38	41	40	44	6.5	31.7
Single door	40	24	38	40	43	40	41	6.4	31.3
Single door 20 minute label	43	24	35	42	44	45	50	7.1	34.7
Single door with threshold	45	26	39	42	44	48	51	6.4	31.3
Two STC 40 as communicating doors	54	36	47	50	55	57	59	6.4	31.3

\* Door size and weight should be considered when determining hardware requirements.

The maximum benefit of acoustical doors is obtained from openings with uniform door/frame edge clearance, correct positioning of gasketing, and proper adjustment of the automatic bottom seal.

# Commercial Cold Press FD ⅓ Hour Door



Algoma Hardwoods, Inc. CCP is a commercial door made with particleboard core and hardwood skins.

**Solid lumber outer stiles along with Structural Composite Lumber (SCL) rails and inner stiles, are glued to the core** prior to cold pressing a hardwood skin each side of the core at ambient air temperature.

**Algoma Hardwoods, Inc uses only the better of two grades of door core particleboard** conforming to ANSI Standard A208.1-1989, Grade LD-1.

**Algoma Hardwoods, Inc. uses only skins with face veneers at least .020" (0.5mm) thick at 12% moisture content.**

## Product Features

<b>Thickness</b>	1¾" (44mm) available FD ⅓ hour labeled.
<b>Maximum size</b>	Available prefit up to 4'0" x 8'0" (1219 x 2743mm), 8'0" x 8'0" pairs.
<b>Stiles (Edge bands)</b>	1⅝" (35mm) prior to factory trimming, glued to core. Alternates: ME—matching edges or CE—compatible edges.
<b>Top &amp; bottom rails</b>	1⅝" (35mm) prior to factory trimming, glued to core; Structural Composite Lumber (SCL).
<b>Core</b>	Conforms to ANSI A208.1-1989, GRADE LD-1 covering mat-formed particleboard.
<b>Faces</b>	Skins 0.10" (2.5mm) of several veneer species. Faces shall be a minimum of .020" (0.5mm) at 12% moisture content.
<b>Adhesives</b>	Type II (interior).
<b>Veneer matching</b>	Available in pairs.
<b>Details</b>	Standard lites and louvers available not to exceed 40% of door area or 54" (1372mm) in length. Maximum glass opening on FD ⅓ hour doors is 1,296 sq. in. (0836m²) with wood beads and clips or metal vision panels. Applied mouldings also available.
<b>Machining</b>	Available with hinge and lock machining as well as other hardware.
<b>Finishing</b>	Available in finishes with performance characteristics equivalent to AWI System TR-6, standard or custom colors. Also available primed four sides, or sealed top and bottom.
<b>Warranty</b>	For interior, limited lifetime warranty. Exterior not warranted.
<b>Standards met or exceeded</b>	WDMA I.S. 1-A Series, WOOD FLUSH DOORS, AWS Section 9.



# FSC™ SLC-5 Stave Lumber Core

## (Neutral or Positive Pressure)

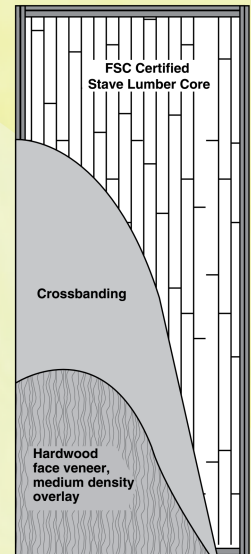
## FD 1/3 Hour

Algoma's architectural FSC Certified Stave Lumber Core door features a kiln dried, low density wood block core which is bonded together under side pressure using the high frequency cure method.

**Solid lumber stiles and rails are securely bonded to this core.** To ensure strength, rigidity and freedom from telegraphing of core parts, this unitized core is then sanded before hot pressing a crossband and face on each side of the core assembly. This makes a high quality base for fine hardwood veneers and composite overlays for solid color finishes.

**Algoma uses only face veneers at least .020" (0.5mm) thick at 12% moisture content.**

**Positive Pressure Note:** Algoma recommends using Category B 1/3 hour single swing doors. Please refer to Positive Pressure in Product Features Detail Section below. The selection of Category B 1/3 hour doors will offer cost savings and no aesthetic compromise.



### Product Features

<b>THICKNESS</b> – 1 3/4" (44mm) or 2 1/4" (57mm) available FD 1/3 hour labeled. 1 3/8" (35mm) available non-labeled. 2 1/4" (57mm) available.
<b>MAXIMUM SIZE</b> – Available prefit up to 4'0" x 10'0" (1219 x 3048mm). In FD 1/3 hour, 4'0" x 9'0" (1219 x 2743mm) is maximum for singles and 8'0" x 9'0" (2438 x 2743mm) for pairs. Also available in double egress pairs up to 8'0" x 9'0" (2438 x 2743mm). Paired construction will be SCLC core only.
<b>STILES (EDGE BANDS)</b> – 1 3/8" (35mm) prior to factory trimming, glued to core. ME-same species available, CE-compatible species standard.
<b>SPECIAL EDGE TREATMENTS</b> – To reduce edge damage, polymer edges with 1/3 hour label available.
<b>TOP RAILS</b> – 1 3/8" (35mm) prior to factory trimming, glued to core.
<b>BOTTOM RAILS</b> – 1 3/8" (35mm) Structural Composite Lumber (SCL).
<b>CORE</b> – FSC Certified low density wood blocks, kiln dried, not more than 2 1/2" wide; random lengths, joints well staggered.
<b>CROSSBANDS</b> – 1/16" (1.6mm) minimum wood-based composite.
<b>FACES</b> – Various foreign and domestic species, medium density overlay (MDO) and most low sheen .050 thickness High Pressure Decorative Laminates. Faces are a minimum of 1/50" (0.5mm) at 12% moisture content. All faces to be per WDMA I.S.1-A face grades unless otherwise specified.
<b>ADHESIVE</b> – Doors constructed using water-resistant adhesives (Type 1).
<b>VENEER MATCHING</b> – Available in pairs and sets (SCLC core only) or matching transoms.
<b>DETAILS</b> – Standard lites and louvers available not to exceed 40% of door area or 54" (1372mm) in length. Maximum glass opening on FD 1/3 hour doors is 1,296 sq. in. (0.836m <sup>2</sup> ) with wood beads and clips or metal vision panels. Applied mouldings, quirks, and divided lites also available. Specify flashing on exterior doors. Larger lites available with special glazing. Contact Algoma for positive pressure approvals.
<b>MACHINING</b> – Available with hinge and lock machining as well as rabbets, holders, drop seals, pivots, etc.
<b>FINISHING</b> – Available in finishes with performance characteristics equivalent to AWI System TR-6, standard or custom colors. Also available primed four sides, painted, or sealed top and bottom. Opaque finish (OP-6) on medium density overlay only.
<b>WARRANTY</b> – For interior, full warranty for life of original installation.
<b>STANDARDS MET OR EXCEEDED</b> – WDMA I.S.1-A Series, ARCHITECTURAL WOOD FLUSH DOORS. Architectural Woodwork Quality Standards Section 1300, Architectural Flush Doors and Section 1500, Factory Finish.
<b>SPECIAL SERVICES</b> – Provides detention security rating of Grade #40 with ASTM Impact Test F 476.
<b>POSITIVE PRESSURE – CATEGORY A:</b> Singles and pairs have intumescent built into the door, and no additional fire seals are required. If smoke and draft control doors are also required, then a category H seal must be applied to the frame.
<b>CATEGORY B:</b> Singles and pairs require a category G edge seal applied to the frame. Pairs also require a category G edge seal applied to one of the meeting edges.

# FSC™ PC-5 Novodor® FD 1/3 Hour

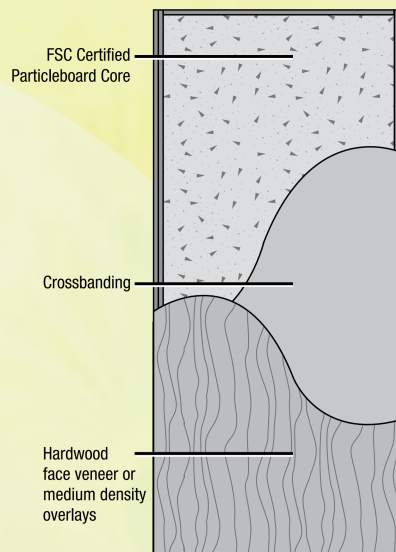
## (Neutral or Positive Pressure)

Algoma's Novodor is an architectural door made with FSC Certified particleboard core.

**Solid lumber outer stiles, along with Structural Composite Lumber (SCLC) rails and inner stiles, are securely bonded to the core under side pressure.** To ensure strength, rigidity and freedom from telegraphing of core parts, this bonded core is then sanded before **hot pressing** a crossband and face on each side of the core assembly. This makes the highest quality assembly for fine hardwood veneers and composite overlays for solid color finishes. **Algoma uses only the better of two grades of particleboard** conforming to ANSI Standard A208.1-1993, Grade LD-2 with face screw holding power of 124 pounds, modulus of rupture of 725 psi, modulus of elasticity of 148,700 psi and density of 30–32 pounds per cubic foot.

**Algoma uses only face veneers at least 1/50" (0.5mm) thick at 12% moisture content.**

**Positive Pressure Note:** Algoma recommends using Category B 1/3 hour single swing doors. Please refer to Positive Pressure in Product Features Detail Section below. The selection of Category B 1/3 hour doors will offer cost savings and no aesthetic compromise.



## Product Features

<b>THICKNESS</b> – 1 3/4" (44mm) available FD 1/3 hour labeled. 1 3/8" (35mm) available FD 1/3 hour labeled. 2 1/4 (57mm) available, neutral pressure only.
<b>MAXIMUM SIZE</b> – Available prefit up to 4'0" x 10'0" (1219 x 3048mm); Category B: 4'0" x 9'0" (1219 x 2743mm). In FD 1/3 hour, 4'0" x 10'0" is maximum for singles and 8'0" x 10'0" (2438 x 3048mm) pairs. Also available in double egress pairs up to 8'0" x 9'0".
<b>STILES (EDGE BANDS)</b> – 1 3/8" (35mm) prior to factory trimming, glued to core. CE-compatible edges standard. ME—same species available.
<b>SPECIAL EDGE TREATMENTS</b> – To reduce edge damage, polymer edges with FD 1/3 hour label available.
<b>TOP &amp; BOTTOM RAILS</b> – 7/8" (22mm) prior to factory trimming, glued to core; Structural Composite Lumber (SCL).
<b>CORE</b> – FSC Certified, Conforms to ANSI A208.1-1993, GRADE LD-2 covering mat-formed particleboard with face screw holding power of 124 pounds, modulus of rupture of 725 psi, modulus of elasticity of 148,700 psi and density of 30–32 pounds per cubic foot.
<b>REINFORCEMENT</b> – Reinforced top and/or bottom rails are available to eliminate the need for through-bolting when installing closers or holders. Note: Screws must penetrate doors a minimum of 1 1/2". Please see Hardware 5 and 13 for PC-5 reinforcement options.
<b>CROSSBANDS</b> – 1/16" (1.6mm) minimum wood-based composite.
<b>FACES</b> – Various foreign and domestic species, medium density overlay (MDO) and most low sheen .050 thickness High Pressure Decorative Laminates. Faces are a minimum of 1/50" (0.5mm) at 12% moisture content. All faces to be per WDMA I.S.1-A face grades unless otherwise specified.
<b>ADHESIVE</b> – Doors constructed using water-resistant adhesives (Type 1).
<b> veneer MATCHING</b> – Available in pairs, sets or matching transoms.
<b>DETAILS</b> – Standard lites and louvers available not to exceed 40% of door area and 54" (1372mm) in length. Maximum glass opening on FD 1/3 hour doors is 1,296 sq. in. (0.836m <sup>2</sup> ) with wood beads and clips or metal vision panels. Applied mouldings, quirks, and divided lites also available. Larger lites available with special glazing. (Contact Algoma for positive pressure approvals.)
<b>MACHINING</b> – Available with hinge and lock machining as well as rabbets, holders, drop seals, pivots, etc.
<b>FINISHING</b> – Available in finishes with performance characteristics equivalent to AWI System TR-6, standard or custom colors. Also available primed four sides, painted, or sealed top and bottom. Opaque finish (OP-6) on medium density overlay only.
<b>WARRANTY</b> – For interior, full warranty for life of original installation.
<b>STANDARDS MET OR EXCEEDED</b> – WDMA I.S.1-A Series, ARCHITECTURAL WOOD FLUSH DOORS. Architectural Woodwork Quality Standards Section 1300, Architectural Flush Doors and Section 1500, Factory Finish.
<b>SPECIAL SERVICES</b> – Provides STC rating of 28-32 when supplied with gasketing/drop seal. Provides detention security rating of Grade #40 with ASTM Impact Test F 476.
<b>POSITIVE PRESSURE – CATEGORY A:</b> Singles and pairs have intumescent built into the door, and no additional fire seals are required. If smoke and draft control doors are also required, then a category H seal must be applied to the frame.
<b>CATEGORY B:</b> Singles and pairs require a category G seal applied to the frame. Pairs also require a category G edge seal applied to one of the meeting edges.

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FSC-CO08037



# No Added Urea Formaldehyde Resin (NAUF)

## NAUF PC-5 Novodor<sup>®</sup> FD 1/3 Hour

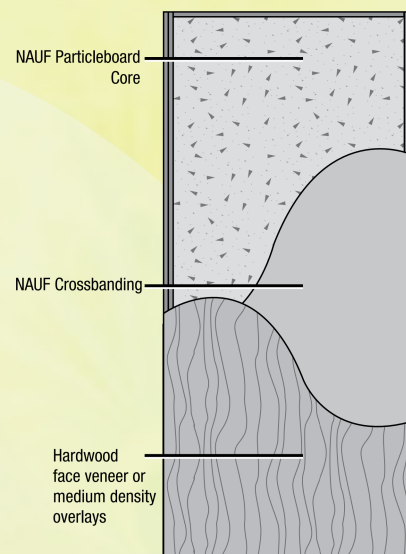
### (Neutral or Positive Pressure)

Algoma's Novodor is an architectural door made with NAUF particleboard core.

**Solid lumber outer stiles, along with Structural Composite Lumber (SCLC) rails and inner stiles, are securely bonded to the core under side pressure.** To ensure strength, rigidity and freedom from telegraphing of core parts, this bonded core is then sanded before **hot pressing** a crossband and face on each side of the core assembly. This makes the highest quality assembly for fine hardwood veneers and composite overlays for solid color finishes. **Algoma uses only the better of two grades of particleboard** conforming to ANSI Standard A208.1-1993, Grade LD-2 with face screw holding power of 124 pounds, modulus of rupture of 725 psi, modulus of elasticity of 148,700 psi and density of 30–32 pounds per cubic foot.

**Algoma uses only face veneers at least 1/50" (0.5mm) thick at 12% moisture content.**

**Positive Pressure Note:** Algoma recommends using Category B 1/3 hour single swing doors. Please refer to Positive Pressure in Product Features Detail Section below. The selection of Category B 1/3 hour doors will offer cost savings and no aesthetic compromise.



## Product Features

<b>THICKNESS</b> – 1 3/4" (44mm) available FD 1/3 hour labeled. 1 3/8" (35mm) available FD 1/3 hour labeled, 2 1/4 (57mm) available, neutral pressure only.
<b>MAXIMUM SIZE</b> – Available prefit up to 4'0" x 10'0" (1219 x 3048mm); Category B: 4'0" x 9'0" (1219 x 2743mm). In FD 1/3 hour, 4'0" x 10'0" is maximum for singles and 8'0" x 10'0" (2438 x 3048mm) pairs. Also available in double egress pairs up to 8'0" x 9'0".
<b>STILES (EDGE BANDS)</b> – 1 3/8" (35mm) prior to factory trimming, glued to core. CE—compatible edges standard. ME—same species available.
<b>SPECIAL EDGE TREATMENTS</b> – To reduce edge damage, polymer edges with FD 1/3 hour label available.
<b>TOP &amp; BOTTOM RAILS</b> – 7/8" (22mm) prior to factory trimming, glued to core; Structural Composite Lumber (SCL).
<b>NAUF PARTICLEBOARD CORE</b> – Conforms to ANSI A208.1-1993, GRADE LD-2 covering mat-formed particleboard with face screw holding power of 124 pounds, modulus of rupture of 725 psi, modulus of elasticity of 148,700 psi and density of 30–32 pounds per cubic foot.
<b>REINFORCEMENT</b> – Reinforced top and/or bottom rails are available to eliminate the need for through-bolting when installing closers or holders. Note: Screws must penetrate doors a minimum of 1 1/2". Please see Hardware 5 and 13 for PC-5 reinforcement options.
<b>NAUF CROSSBANDS</b> – 1/16" (1.6mm) minimum wood-based composite.
<b>FACES</b> – All foreign and domestic species, medium density overlay (MDO) and most low sheen .050 thickness High Pressure Decorative Laminates. Faces are a minimum of 1/50" (0.5mm) at 12% moisture content. All faces to be per WDMA I.S.1-A face grades unless otherwise specified.
<b>ADHESIVE</b> – Doors constructed using water-resistant NAUF adhesives (Type 1).
<b>VENEER MATCHING</b> – Available in pairs, sets or matching transoms.
<b>DETAILS</b> – Standard lites and louvers available not to exceed 40% of door area and 54" (1372mm) in length. Maximum glass opening on FD 1/3 hour doors is 1,296 sq. in. (0.836m <sup>2</sup> ) with wood beads and clips or metal vision panels. Applied mouldings, quirks, and divided lites also available. Larger lites available with special glazing. (Contact Algoma for positive pressure approvals.)
<b>MACHINING</b> – Available with hinge and lock machining as well as rabbets, holders, drop seals, pivots, etc.
<b>FINISHING</b> – Available in finishes with performance characteristics equivalent to AWI System TR-6, standard or custom colors. Also available primed four sides, painted, or sealed top and bottom. Opaque finish (OP-6) on medium density overlay only.
<b>WARRANTY</b> – For interior, full warranty for life of original installation.
<b>STANDARDS MET OR EXCEEDED</b> – WDMA I.S.1-A Series, ARCHITECTURAL WOOD FLUSH DOORS. Architectural Woodwork Quality Standards Section 1300, Architectural Flush Doors and Section 1500, Factory Finish.
<b>SPECIAL SERVICES</b> – Provides STC rating of 28-32 when supplied with gasketing/drop seal. Provides detention security rating of Grade #40 with ASTM Impact Test F 476.
<b>POSITIVE PRESSURE – CATEGORY A:</b> Singles and pairs have intumescent built into the door, and no additional fire seals are required. If smoke and draft control doors are also required, then a category H seal must be applied to the frame.
<b>CATEGORY B:</b> Singles and pairs require a category G edge seal applied to the frame. Pairs also require a category G edge seal applied to one of the meeting edges.

# No Added Urea Formaldehyde Resin (NAUF)

## NAUF SLC-5 Stave Lumber Core

### (Neutral or Positive Pressure)

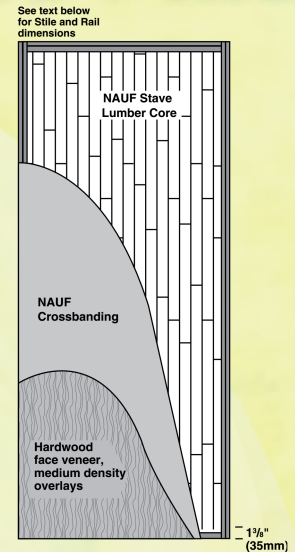
### FD 1/3 Hour

Algoma's architectural NAUF Stave Lumber Core door features a kiln dried, low density wood block core which is bonded together under side pressure using the high frequency cure method.

**Solid lumber stiles and rails are securely bonded to this core.** To ensure strength, rigidity and freedom from telegraphing of core parts, this unitized core is then sanded before hot pressing a crossband and face on each side of the core assembly. This makes a high quality base for fine hardwood veneers and composite overlays for solid color finishes.

**Algoma uses only face veneers at least .020" (0.5mm) thick at 12% moisture content.**

**Positive Pressure Note:** Algoma recommends using Category B 1/3 hour single swing doors. Please refer to Positive Pressure in Product Features Detail Section below. The selection of Category B 1/3 hour doors will offer cost savings and no aesthetic compromise.



## Product Features

<b>THICKNESS</b> – 1 3/4" (44mm) or 2 1/4" (57mm) available FD 1/3 hour labeled. 1 3/8" (35mm) available non-labeled. 2 1/4" (57mm) available.
<b>MAXIMUM SIZE</b> – Available prefit up to 4'0" x 10'0" (1219 x 3048mm). In FD 1/3 hour, 4'0" x 9'0" (1219 x 2743mm) is maximum for singles and 8'0" x 9'0" (2438 x 2743mm) for pairs. Also available in double egress pairs up to 8'0" x 9'0" (2438 x 2743mm). Paired construction will be SCLC core only.
<b>STILES (EDGE BANDS)</b> – 1 3/8" (35mm) prior to factory trimming, glued to core. ME-same species available, CE-compatible species standard.
<b>SPECIAL EDGE TREATMENTS</b> – To reduce edge damage, polymer edges with 1/3 hour label available.
<b>TOP RAILS</b> – 1 3/8" (35mm) prior to factory trimming, glued to core.
<b>BOTTOM RAILS</b> – 1 3/8" (35mm) Structural Composite Lumber (SCL).
<b>CORE</b> – NAUF low density wood blocks, kiln dried, not more than 2 1/2" wide; random lengths, joints well staggered.
<b>CROSSBANDS</b> – NAUF, 1/16" (1.6mm) minimum wood-based composite.
<b>FACES</b> – All foreign and domestic species, medium density overlay (MDO) and most low sheen .050 thickness High Pressure Decorative Laminates. Faces are a minimum of 1/5 0 " (0.5mm) at 12% moisture content. All faces to be per WDMA I.S.1-A face grades unless otherwise specified.
<b>ADHESIVE</b> – Doors constructed using water-resistant NAUF adhesives (Type 1).
<b>VENEER MATCHING</b> – Available in pairs and sets (SCLC core only) or matching transoms.
<b>DETAILS</b> – Standard lites and louvers available not to exceed 40% of door area or 54" (1372mm) in length. Maximum glass opening on FD 1/3 hour doors is 1,296 sq. in. (0.836m <sup>2</sup> ) with wood beads and clips or metal vision panels. Applied mouldings, quirks, and divided lites also available. Specify flashing on exterior doors. Larger lites available with special glazing. Contact Algoma for positive pressure approvals.
<b>MACHINING</b> – Available with hinge and lock machining as well as rabbets, holders, drop seals, pivots, etc.
<b>FINISHING</b> – Available in finishes with performance characteristics equivalent to AWI System TR-6, standard or custom colors. Also available primed four sides, painted, or sealed top and bottom. Opaque finish (OP-6) on medium density overlay only.
<b>WARRANTY</b> – For interior, full warranty for life of original installation.
<b>STANDARDS MET OR EXCEEDED</b> – WDMA I.S.1-A Series, ARCHITECTURAL WOOD FLUSH DOORS. Architectural Woodwork Quality Standards Section 1300, Architectural Flush Doors and Section 1500, Factory Finish.
<b>SPECIAL SERVICES</b> – Provides detention security rating of Grade #40 with ASTM Impact Test F 476.
<b>POSITIVE PRESSURE – CATEGORY A:</b> Singles and pairs have intumescent built into the door, and no additional fire seals are required. If smoke and draft control doors are also required, then a category H seal must be applied to the frame.
<b>CATEGORY B:</b> Singles and pairs require a category G edge seal applied to the frame. Pairs also require a category G edge seal applied to one of the meeting edges.



# No Added Urea Formaldehyde Resin (NAUF)

## SCLC-5 Structural Composite Lumber Core (Neutral or Positive Pressure)

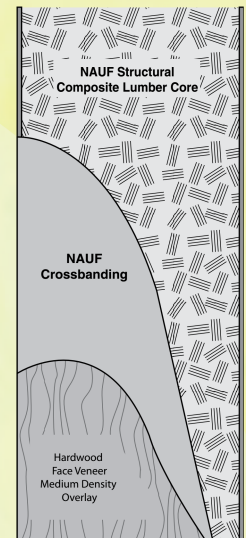
### FD 1/3 Hour

Algoma's Architectural NAUF Structural Composite Lumber Core door utilizes an engineered hardwood strand board that is oriented and NAUF resin bonded to provide physical properties that equal or exceed solid lumber.

**Stiles are securely bonded to the core.** This construction provides strength, rigidity, and screw-holding power for surface mounted hardware to satisfy the most demanding applications.

**Algoma uses only face veneers at least .020" (.5mm) thick at 12% moisture content.**

**Positive Pressure Note:** Algoma recommends using Category B 1/3 hour single swing doors. Please refer to Positive Pressure in Product Features Detail Section below. The selection of Category B 1/3 hour doors will offer cost savings and no aesthetic compromise.

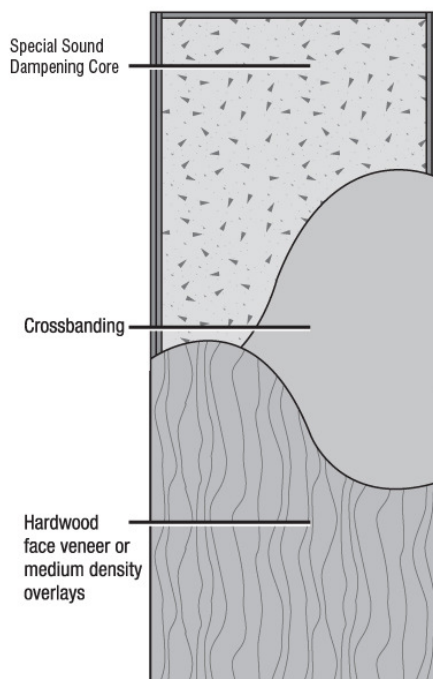


### Product Features

<b>THICKNESS</b> – 1 3/4" (44mm) available FD 1/3 hour labeled. 1 3/8" (35mm) available non-labeled, 2 1/4" (57mm) available.
<b>MAXIMUM SIZE</b> – Available prefit up to 4'0" x 10'0" (1219 x 3048mm). In FD 1/3 hour, 4'0" x 9'0" (1219 x 2743mm) is maximum for singles and 8'0" x 9'0" (2438 x 2743mm) for pairs. Also available in double egress pairs up to 8'0" x 9'0" (2438 x 2743mm).
<b>STILES (EDGE BANDS)</b> – 7/8" (22mm) prior to factory trimming, glued to core. Alternates: ME—same species or CE—compatible edges.
<b>SPECIAL EDGE TREATMENTS</b> – To reduce edge damage, polymer edges with FD 1/3 hour label available.
<b>TOP &amp; BOTTOM RAILS</b> – Structural composite lumber (industry standard does not require separate rails on this construction).
<b>NAUF CORE</b> – Structural composite lumber core.
<b>NAUF CROSSBANDS</b> – 1/16" (1.6mm) minimum wood-based composite.
<b>FACES</b> – All foreign and domestic species, medium density overlay (MDO) and most low sheen .050 thickness High Pressure Decorative Laminates. Faces are a minimum of 1/50" (0.5mm) at 12% moisture content. All faces to be per WDMA I.S.1-A face grades unless otherwise specified.
<b>ADHESIVE</b> – Doors constructed using water-resistant NAUF adhesives (Type 2).
<b>veneER MATCHING</b> – Available in pairs, sets or matching transoms.
<b>DETAILS</b> – Standard lites and louvers available not to exceed 40% of door area or 54" (1372mm) in length. Maximum glass opening on FD 1/3 hour doors is 1,296 sq. in. (0.836m <sup>2</sup> ) with wood beads or metal vision panels. Applied mouldings and quirks also available. Contact Algoma for positive pressure approvals.
<b>MACHINING</b> – Available with hinge and lock machining as well as rabbets, holders, drop seals, pivots, etc.
<b>FINISHING</b> – Available in finishes with performance characteristics equivalent to WDMA System TR-6, standard or custom colors. Also available primed, sealed, or sealed top and bottom edges only. Opaque finish (OP-6) on medium density overlay only.
<b>WARRANTY</b> – For interior, full warranty for life of original installation.
<b>STANDARDS MET OR EXCEEDED</b> – WDMA I.S.1-A Series, ARCHITECTURAL WOOD FLUSH DOORS. Architectural Woodwork Quality Standards Section 1300, Architectural Flush Doors and Section 1500, Factory Finish.
<b>SPECIAL SERVICES</b> – Provides detention security rating of Grade #40 with ASTM Impact Test F 476.
<b>POSITIVE PRESSURE – CATEGORY A:</b> Singles and pairs have intumescent built into the door, and no additional fire seals are required. If smoke and draft control doors are also required, then a category H seal must be applied to the frame.
<b>CATEGORY B:</b> Singles and pairs require a category G edge seal applied to the frame. Pairs also require a category G edge seal applied to one of the meeting edges.

# Acoustical FD 1/3 Hour Door, STC-35

(Neutral or Positive Pressure)



Algoma's Acoustical doors were tested as operating units in a complete system with hollow metal framing back-filled with mortar, gasketing, drop seal and threshold, where applicable — the same as can be supplied to the jobsite — thus ensuring that the specified STC ratings are achieved.

Sound Transmission Class (STC) 35 Acoustical doors should be used wherever the degree of sound insulation desired is higher than an ordinary solid core door can provide.

If a still higher degree of sound reduction is required, such as in hospitals, doctors' offices or conference rooms, the STC 45 Acoustical door may be specified. STC 43 Acoustical doors are available for openings that require both sound control and 1/3-hour fire ratings.

When job requirements include doors with glass openings, STC 39 Acoustical doors are available, non-labeled.

And for communicating doors, a STC-54 rating is achieved when two STC-40 Acoustical doors are installed back-to-back in the same opening.

Testing was conducted by Riverbank Acoustical Laboratories in accordance with ASTM E90-90 and E413-87.

Algoma uses only face veneers at least .020" (0.5mm) thick at 12% moisture content.

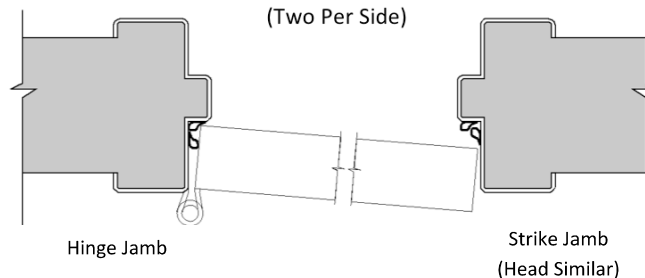
<b>Thickness</b>	1 3/4" (44mm)
<b>Maximum Size</b>	Non-labeled singles up to 4'0 x 10'0 (1220x3050mm) and pairs up to 8'0 x 10'0. In FD 1/3 hour, 4'0 x 10'0 (1220x2440mm) singles and 8'0 x 8'0 pairs. STC ratings are non-verifiable in pairs.
<b>Stiles</b>	1 3/8" prior to trimming, glued to core. CE - compatible edge standard. ME – same species available.
<b>Special Edge Treatments</b>	To reduce edge damage, polymer edges are available.
<b>Top Rail</b>	7/8" prior to factory trimming, SCL
<b>Bottom Rail</b>	1 7/16" prior to factory trimming, SCL
<b>Core</b>	Special core construction
<b>Hardware Reinforcement</b>	None required
<b>Faces</b>	All foreign and domestic faces, HPDL, medium density overlay and Ven4ma. Face veneers are a minimum of .020" (0.5mm) thick at 12% moisture content. All faces to be per WDMA I.S. 1A-11, AWS Section 9 grades unless otherwise specified.
<b>Adhesives</b>	Doors constructed using water resistant adhesives, TYPE 1 per WDMA/AWS standards.
<b>Details</b>	STC-35 doors available with lites not to exceed 1,296 square inches; wood beading and metal vision panels. Glass must be rated STC-35 or higher. Applied moulding is available.
<b>Machining</b>	Available with hinge and lock machining as well as other hardware. CVR's not available in this construction.
<b>Finishing</b>	Available in finishes with performance characteristics equivalent to AWS Section 5, standard or custom colors. Also available primed four sides, painted, or sealed top and bottom. Opaque finish on medium density overlay only.
<b>Warranty</b>	For interior, full warranty for life of original installation. No warranty for exterior applications.
<b>Standards met or exceeded</b>	WDMA I.S. 1A series, Architectural Woodwork Standards section 9, Architectural Flush Doors and section 5, Factory Finishing. Tested in accordance with ASTM E90-04 and E413-04 as operating units and not sealed in place. STC ratings are verifiable only as single swing doors.
<b>Positive Pressure</b>	Category A/B: Singles and pairs require Category G/H edge seal applied to the frame. Pairs also require a Category G edge seal applied to one of the meeting edges.

# Acoustical FD 1/3 Hour Door, STC-35

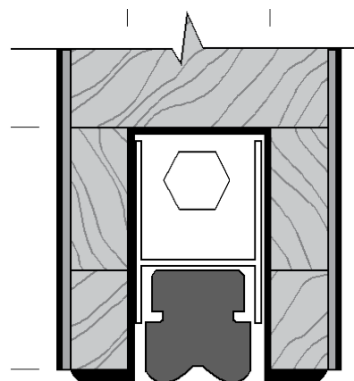
<b>Underwriters Laboratories, Inc.</b> <b>FD 1/3 Hour Fire Door Approval (STC-35)</b>	
<b>Maximum Opening Size</b>	Non-labeled singles up to 4'0 x 10'0 (1220x3050mm) and pairs up to 8'0 x 10'0.  In FD 1/3 hour, 4'0 x 10'0 (1220x2440mm) singles and 8'0 x 8'0 pairs.  STC ratings are non-verifiable in pairs.
<b>Faces</b>	All domestic and imported wood species, HPDL, MDO, Ven4Ma
<b>Stiles (Vertical Edges)</b>	1 3/8" prior to factory trimming
<b>Maximum Wood Beaded Lite</b>	1,296", visible glass
<b>Maximum Metal Vision Panel</b>	1,296", visible glass
<b>Hinges</b> Note: Per NFPA 80 some specialty hinges allowed. Contact Algoma for information.	Ball Bearing steel, full mortise, half surface or full surface. Minimum size 4 1/2" x 0.180"
<b>Locksets</b>	Listed mortise locks, unit locks, and cylindrical locks or hospital push-pull.
<b>Closers</b>	Listed surface mounted closures
<b>Fire Exit Hardware</b>	Mortise, Rim or SVR devices (Not CVR)
<b>Door Bottoms</b>	360 Zero door bottom: .924" x 1.575" long 234 Pemko door sweep
<b>Maximum trim</b>	Undercut can be adjusted if floor conditions warrant.
<b>Prefit</b>	Doors should be ordered factory prefit for height, a door sweep or drop seal is required.
<b>Door Weight</b>	6.4lbs / ft²

## Acoustical Door Accessories

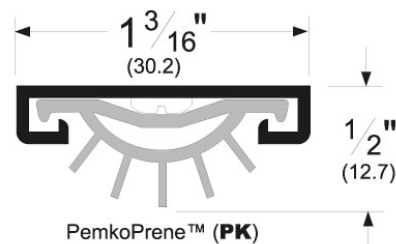
Acoustical Door Gasketing  
 S-88 Self Adhesive Gaskets  
 (Two Per Side)



Acoustical Door Automatic Door Bottom (360 Zero)  
 Aluminum with neoprene insert  
 1" maximum drop



Pemko 234 Door Sweep





## Acoustic Doors - STC 44 Pairs

Standard Models: STC 44 Pair

Environmental Models: STC 44 NAUF, FSC Pair

Product Features and Specifications	Interior Use Only
<b>Thickness</b>	1-3/4"
<b>Fire Rating</b>	N/A
<b>Maximum Opening</b>	8-0' x 9-0' Standard Swing Pairs Only, (2-0' minimum door width)
<b>Minimum Opening</b>	4-0' Minimum Width 5-0' Minimum Length
<b>Surface Material</b>	Veneer (Hardwood species only) *Contact factory for sketched face design options and other custom offerings.
<b>Crossbands</b>	One Piece High Density Fiberboard
<b>Vertical Edges</b>	2-ply laminated-Matching/Compatible Hardwood Outer Alternate stile options available: Veneer Edge Band, Impact Resistant Edge
<b>Horizontal Edges</b>	Structural Composite Lumber
<b>Face &amp; Core Assembly Adhesive</b>	Type 1
<b>Core</b>	Special Sound Core
<b>Lite Openings</b>	Maximum 216 square inches Pemko LT-B2 lite kit with 11/16" laminated glass Factory glazing required
<b>Louvers</b>	Not Available
<b>Machining</b>	Heavy Weight Hinges, Cylinder Locks, Mortise Locks, Raceways Surface Applied Vertical Rods Top Flush Bolts (mortised only) Closers: Surface Mounted-Through-bolts required Viewers: 1 viewer allowed (1/2" diameter maximum)
<b>Machining Exclusions</b>	Standard Weight Hinges, Pocket Pivots, CVR's, Radius Edges, Mortised Closers, Offset Pivots, Soss Hinges, Intermediate Pivots, Bottom Flush Bolt Preps
<b>Factory Finish</b>	Clear Standard Stain Custom Stain
<b>Warranty</b>	Full; life of original installation. No exterior warranty.
<b>Acoustic Rating</b>	STC 44-Operable
<b>Door Weight</b>	12.4 lb./psf
<b>Environmental Options &amp; LEED Credit Contribution</b>	Certified Wood-Upon Request Low-Emitting Materials- all NAUF models No Added Urea Formaldehyde Resins CARB Phase II Compliant
<b>Quality Standards (Quality Assurance/ Industry Standards)</b>	Aesthetic: WDMA I.S.1A Architectural Wood Flush Doors (Standard construction) *Other association aesthetic standards upon request

### Gasket & Seal Requirements

- 1 row S773 and S44 head and jambs
- 1 row S773 active and inactive bottom rail
- 1 row S773 on the inactive door meeting stile
- 1 row 303AS interior meeting stiles
- PDB411AE door bottom
- ACP 112 bottom jamb corners
- ACP 112 on bottom rails at each meeting stile corners
- Factory supplied

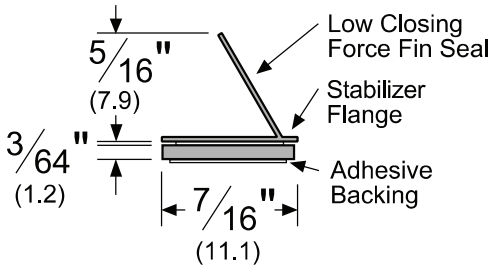
Note: Algoma doors are manufactured per the standards listed on this page.  
Specifications are subject to change without notice.

### Acoustic Doors - STC 44 Pairs

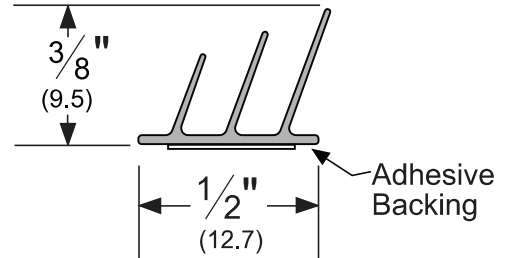
Standard Models: STC 44 Pair

Environmental Models: STC 44 NAUF, FSC Pair

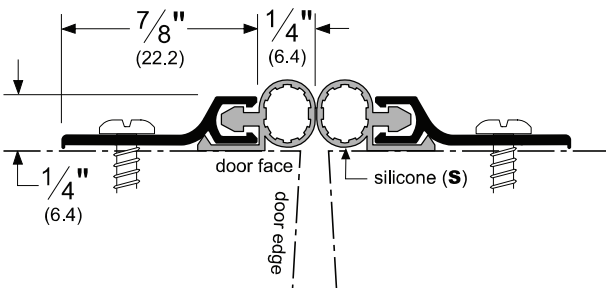
#### DRAWINGS: Gasket & Seal Requirements



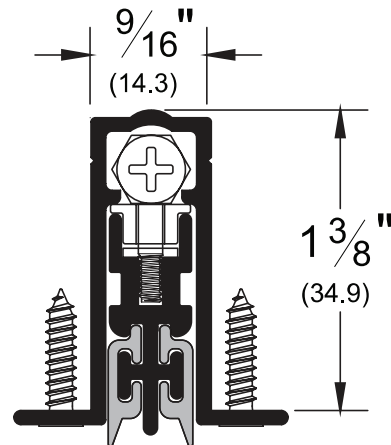
Pemko S44 Perimeter Gasketing



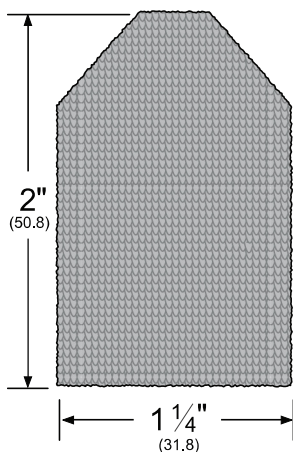
Pemko S773 Perimeter Gasketing



Pemko 303AS Astragals and Meeting Stiles



PDB 411 Door Bottom



Pemko ACP112 Bottom Jamb Corners

Note: Algoma doors are manufactured per the standards listed on this page.  
Specifications are subject to change without notice.

## Acoustic Doors - STC 44 Pairs

Standard Models: STC 44 Pair

Environmental Models: STC 44 NAUF, FSC Pair

Product Features and Specifications	Interior Use Only
<b>Thickness</b>	1-3/4"
<b>Fire Rating</b>	N/A
<b>Maximum Opening</b>	8-0' x 9-0' Standard Swing Pairs Only, (2-0' minimum door width)
<b>Minimum Opening</b>	4-0' Minimum Width 5-0' Minimum Length
<b>Surface Material</b>	High Pressure Decorative Laminate
<b>Crossbands</b>	One Piece High Density Fiberboard
<b>Vertical Edges</b>	Laminate Edges Alternate stile options available: Mill Option Hardwood Outer, Impact Resistant Edge
<b>Horizontal Edges</b>	Structural Composite Lumber
<b>Face &amp; Core Assembly Adhesive</b>	Type 1
<b>Core</b>	Special Sound Core
<b>Lite Openings</b>	Maximum 216 square inches Pemko LT-B2 lite kit with 11/16" laminated glass Factory glazing required
<b>Louvers</b>	Not Available
<b>Machining</b>	Heavy Weight Hinges, Cylinder Locks, Mortise Locks, Raceways Surface Applied Vertical Rods Top Flush Bolts (mortised only) Closers: Surface Mounted-Through-bolts required Viewers: 1 viewer allowed (1/2" diameter maximum)
<b>Machining Exclusions</b>	Standard Weight Hinges, Pocket Pivots, CVR's, Radius Edges, Mortised Closers, Offset Pivots, Soss Hinges, Intermediate Pivots, Bottom Flush Bolt Preps
<b>Finished Accessories</b>	Lite Molding, Vertical Edges available as painted or stained to be compatible with laminate surface material. Must be specified.
<b>Warranty</b>	Full; life of original installation. No exterior warranty.
<b>Acoustic Rating</b>	STC 44-Operable
<b>Door Weight</b>	12.4 lb./psf
<b>Environmental Options &amp; LEED Credit Contribution</b>	Certified Wood-Upon Request Low-Emitting Materials- all NAUF models No Added Urea Formaldehyde Resins CARB Phase II Compliant
<b>Quality Standards (Quality Assurance/ Industry Standards)</b>	Aesthetic: WDMA I.S.1A Architectural Wood Flush Doors (Standard construction) *Other association aesthetic standards upon request

### Gasket & Seal Requirements

- 1 row S773 and S44 head and jambs
- 1 row S773 active and inactive bottom rail
- 1 row S773 on the inactive door meeting stile
- 1 row 303AS interior meeting stiles
- PDB411AE door bottom
- ACP 112 bottom jamb corners
- ACP 112 on bottom rails at each meeting stile corners
- Factory supplied

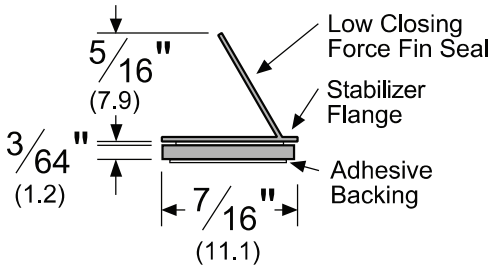
Note: Algoma doors are manufactured per the standards listed on this page.  
Specifications are subject to change without notice.

### Acoustic Doors - STC 44 Pairs

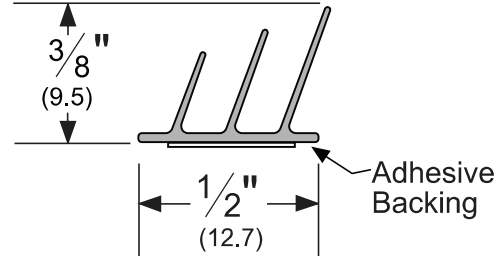
Standard Models: STC 44 Pair

Environmental Models: STC 44 NAUF, FSC Pair

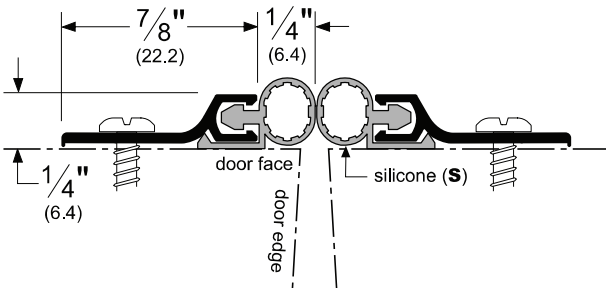
#### DRAWINGS: Gasket & Seal Requirements



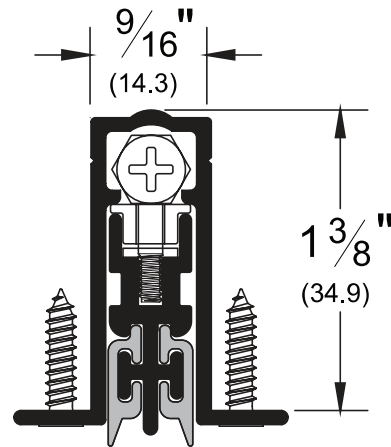
Pemko S44 Perimeter Gasketing



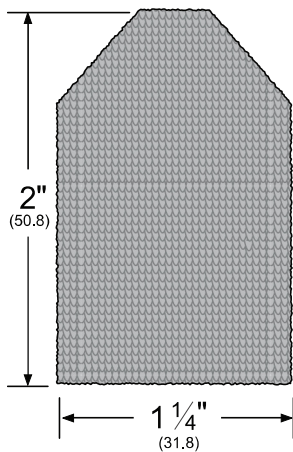
Pemko S773 Perimeter Gasketing



Pemko 303AS Astragals and Meeting Stiles



PDB 411 Door Bottom



Pemko ACP112 Bottom Jamb Corners

Note: Algoma doors are manufactured per the standards listed on this page.  
Specifications are subject to change without notice.

## Acoustic Doors - STC 44 Pairs

Standard Models: STC 44 Pair

Environmental Models: STC 44 NAUF, FSC Pair

Product Features and Specifications	Interior Use Only
<b>Thickness</b>	1-3/4"
<b>Fire Rating</b>	N/A
<b>Maximum Opening</b>	8-0' x 9-0' Standard Swing Pairs Only, (2-0' minimum door width)
<b>Minimum Opening</b>	4-0' Minimum Width 5-0' Minimum Length
<b>Surface Material</b>	Paint Grade Birch Medium Density Overlay
<b>Crossbands</b>	One Piece High Density Fiberboard
<b>Vertical Edges</b>	2-ply laminated-Mill Option Hardwood Outer Alternate stile options available: Veneer Edge Band, Impact Resistant Edge
<b>Horizontal Edges</b>	Structural Composite Lumber
<b>Face &amp; Core Assembly Adhesive</b>	Type 1
<b>Core</b>	Special Sound Core
<b>Lite Openings</b>	Maximum 216 square inches Pemko LT-B2 lite kit with 11/16" laminated glass Factory glazing required
<b>Louvers</b>	Not Available
<b>Machining</b>	Heavy Weight Hinges, Cylinder Locks, Mortise Locks, Raceways Surface Applied Vertical Rods Top Flush Bolts (mortised only) Closers: Surface Mounted-Through-bolts required Viewers: 1 viewer allowed (1/2" diameter maximum)
<b>Machining Exclusions</b>	Standard Weight Hinges, Pocket Pivots, CVR's, Radius Edges, Mortised Closers, Offset Pivots, Soss Hinges, Intermediate Pivots, Bottom Flush Bolt Preps
<b>Factory Finish</b>	Prime Opaque-MDO only
<b>Warranty</b>	Full; life of original installation. No exterior warranty.
<b>Acoustic Rating</b>	STC 44-Operable
<b>Door Weight</b>	12.4 lb./psf
<b>Environmental Options &amp; LEED Credit Contribution</b>	Certified Wood-Up on Request Low-Emitting Materials- all NAUF models No Added Urea Formaldehyde Resins CARB Phase II Compliant
<b>Quality Standards (Quality Assurance/ Industry Standards)</b>	Aesthetic: WDMA I.S.1A Architectural Wood Flush Doors (Standard construction) *Other association aesthetic standards upon request

### Gasket & Seal Requirements

- 1 row S773 and S44 head and jambs
- 1 row S773 active and inactive bottom rail
- 1 row S773 on the inactive door meeting stile
- 1 row 303AS interior meeting stiles
- PDB411AE door bottom
- ACP 112 bottom jamb corners
- ACP 112 on bottom rails at each meeting stile corners
- Factory supplied

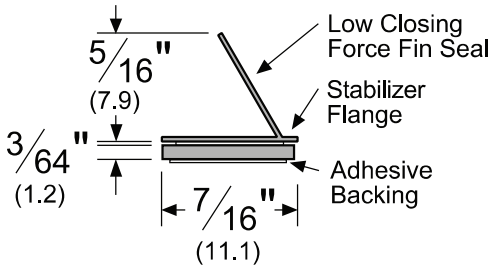
Note: Algoma doors are manufactured per the standards listed on this page.  
Specifications are subject to change without notice.

### Acoustic Doors - STC 44 Pairs

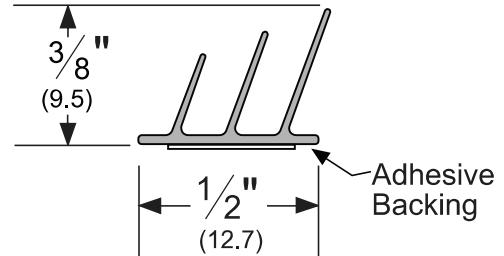
Standard Models: STC 44 Pair

Environmental Models: STC 44 NAUF, FSC Pair

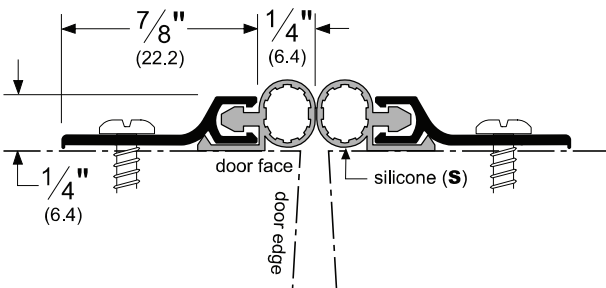
#### DRAWINGS: Gasket & Seal Requirements



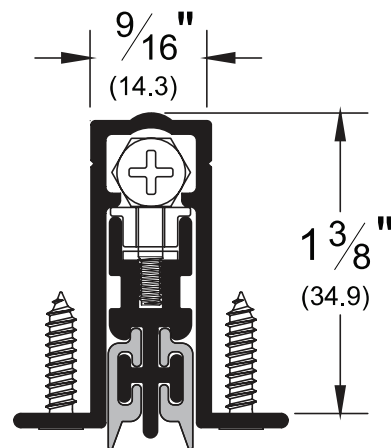
Pemko S44 Perimeter Gasketing



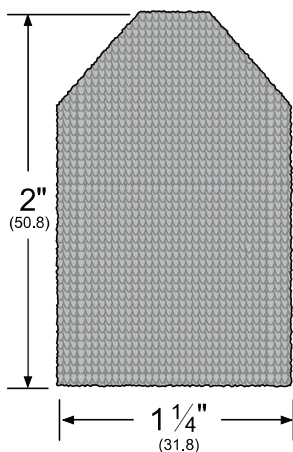
Pemko S773 Perimeter Gasketing



Pemko 303AS Astragals and Meeting Stiles



PDB 411 Door Bottom



Pemko ACP112 Bottom Jamb Corners

Note: Algoma doors are manufactured per the standards listed on this page.  
Specifications are subject to change without notice.

## Acoustic Doors - STC 47

Standard Models: STC 47

Environmental Models: STC 47 NAUF, FSC

Product Features and Specifications	Interior Use Only
<b>Thickness</b>	1-3/4"
<b>Fire Rating</b>	N/A
<b>Maximum Opening</b>	4-0' x 9-0' Single Doors Only
<b>Minimum Opening</b>	2-0' Width 5-0' Length
<b>Surface Material</b>	Veneer (Hardwood species only) *Contact factory for sketched face design options and other custom offerings.
<b>Crossbands</b>	One Piece High Density Fiberboard
<b>Vertical Edges</b>	2-ply laminated-Matching/Compatible Hardwood Outer Alternate stile options available: Veneer edge band, Impact Resistant Edge
<b>Horizontal Edges</b>	Structural Composite Lumber
<b>Face &amp; Core Assembly Adhesive</b>	Type 1
<b>Core</b>	Special Sound Core
<b>Lite Openings</b>	Not Available
<b>Louvers</b>	Not Available
<b>Machining</b>	Heavy Weight Hinges, Cylindrical Locks, Mortise Locks, Raceways Closers: Surface Mounted-Through-bolts required Exit Devices (No CVR's) Viewers: 1 viewer allowed ( 1/2" diameter maximum)
<b>Machining Exclusions</b>	Standard Weight Hinges, Pocket Pivots, CVR's, Radius Edges, Lite Openings, Mortised Closers, Soss Hinges, Offset and Intermediate Pivots
<b>Factory Finish</b>	Clear Standard Stain Custom Stain
<b>Warranty</b>	Full; life of original installation. No exterior warranty.
<b>Acoustic Rating</b>	STC 47-Operable
<b>Door Weight</b>	13.4 lb./psf
<b>Environmental Options &amp; LEED Credit Contribution</b>	Certified Wood-Upon Request Low-Emitting Materials- all NAUF models No Added Urea Formaldehyde Resins CARB Phase II Compliant
<b>Quality Standards (Quality Assurance/ Industry Standards)</b>	Aesthetic: WDMA I.S.1A Architectural Wood Flush Doors (Standard construction) *Other association aesthetic standards upon request

### Gasket & Seal Requirements

- 1 row Pemko S44 and two rows Pemko S773 head and jambs
- Pemko 2008 STCxQ380 threshold
- Factory supplied

Note: Algoma doors are manufactured per the standards listed on this page.  
Specifications are subject to change without notice.

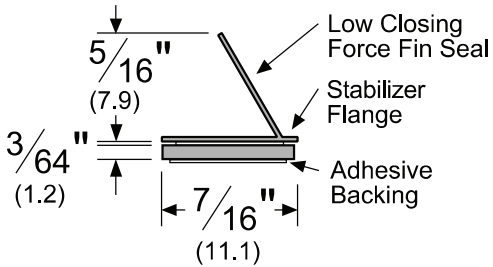


### Acoustic Doors - STC 47

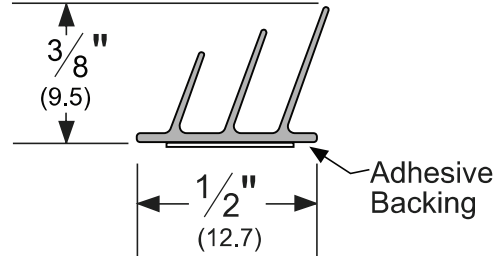
Standard Models: STC 47

Environmental Models: STC 47 NAUF, FSC

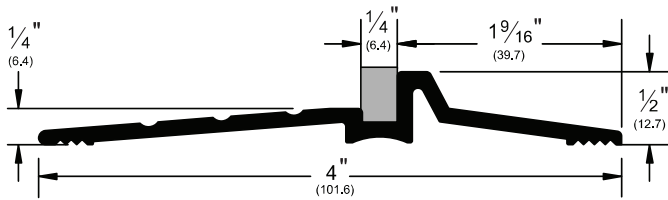
#### DRAWINGS: Gasket & Seal Requirements



Pemko S44 Perimeter Gasketing



Pemko S773 Perimeter Gasketing



Pemko 2008STCxQ380 Threshold

Note: Algoma doors are manufactured per the standards listed on this page.  
Specifications are subject to change without notice.

## Acoustic Doors - STC 47

Standard Models: STC 47

Environmental Models: STC 47 NAUF, FSC

Product Features and Specifications	Interior Use Only
<b>Thickness</b>	1-3/4"
<b>Fire Rating</b>	N/A
<b>Maximum Opening</b>	4-0' x 9-0' Single Doors Only
<b>Minimum Opening</b>	2-0' Width 5-0' Length
<b>Surface Material</b>	High Pressure Decorative Laminate
<b>Crossbands</b>	One Piece High Density Fiberboard
<b>Vertical Edges</b>	Laminate Edges Alternate stile options available: Mill Option Hardwood Outer, Impact Resistant Edge
<b>Horizontal Edges</b>	Structural Composite Lumber
<b>Face &amp; Core Assembly Adhesive</b>	Type 1
<b>Core</b>	Special Sound Core
<b>Lite Openings</b>	Not Available
<b>Louvers</b>	Not Available
<b>Machining</b>	Heavy Weight Hinges, Cylindrical Locks, Mortise Locks, Raceways Closers: Surface Mounted-Through-bolts required Exit Devices (No CVR's) Viewers: 1 viewer allowed (1/2" diameter maximum)
<b>Machining Exclusions</b>	Standard Weight Hinges, Pocket Pivots, CVR's, Radius Edges, Lite Openings, Mortised Closers, Soss Hinges, Offset and Intermediate Pivots
<b>Finished Accessories</b>	Vertical Edges available as painted or stained to be compatible with laminate surface material. Must be specified.
<b>Warranty</b>	Full; life of original installation. No exterior warranty.
<b>Acoustic Rating</b>	STC 47-Operable
<b>Door Weight</b>	13.4 lb./psf
<b>Environmental Options &amp; LEED Credit Contribution</b>	Certified Wood-Upon Request Low-Emitting Materials- all NAUF models No Added Urea Formaldehyde Resins CARB Phase II Compliant
<b>Quality Standards (Quality Assurance/ Industry Standards)</b>	Aesthetic: WDMA I.S.1A Architectural Wood Flush Doors (Standard construction) *Other association aesthetic standards upon request

### Gasket & Seal Requirements

- 1 row Pemko S44 and two rows Pemko S773 head and jambs
- Pemko 2008 STCxQ380 threshold
- Factory supplied

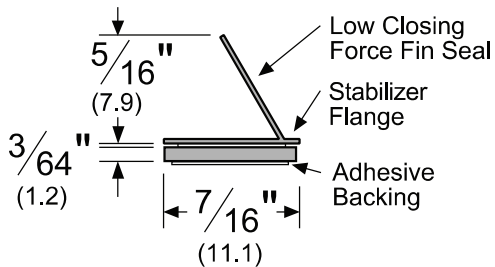
Note: Algoma doors are manufactured per the standards listed on this page.  
Specifications are subject to change without notice.

### Acoustic Rated Doors - STC 47

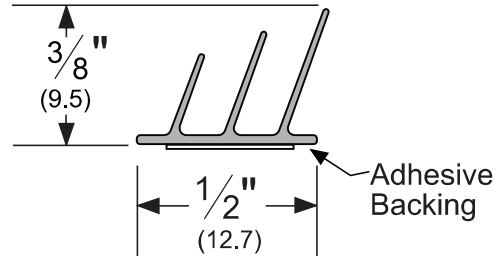
Standard Models: STC 47

Environmental Models: STC 47 NAUF, FSC

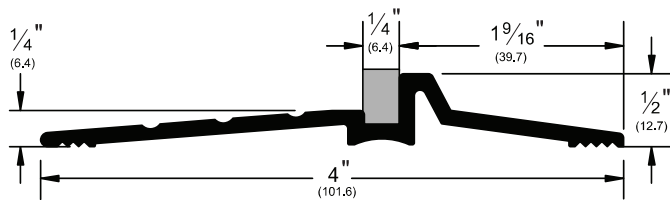
#### DRAWINGS: Gasket & Seal Requirements



Pemko S44 Perimeter Gasketing



Pemko S773 Perimeter Gasketing



Pemko 2008STCxQ380 Threshold

Note: Algoma doors are manufactured per the standards listed on this page.  
Specifications are subject to change without notice.

## Acoustic Doors - STC 47

Standard Models: STC 47

Environmental Models: STC 47 NAUF, FSC

### Product Features and Specifications Interior Use Only

<b>Thickness</b>	1-3/4"
<b>Fire Rating</b>	N/A
<b>Maximum Opening</b>	4-0' x 9-0' Single Doors Only
<b>Minimum Opening</b>	2-0' Width 5-0' Length
<b>Surface Material</b>	Paint Grade Birch Medium Density Overlay
<b>Crossbands</b>	One Piece High Density Fiberboard
<b>Vertical Edges</b>	2-ply laminated mill option hardwood outer Alternate stile options available: Veneer edge band, Impact Resistant Edge
<b>Horizontal Edges</b>	Structural Composite Lumber
<b>Face &amp; Core Assembly Adhesive</b>	Type 1
<b>Core</b>	Special Sound Core
<b>Lite Openings</b>	Not Available
<b>Louvers</b>	Not Available
<b>Machining</b>	Heavy Weight Hinges, Cylindrical Locks, Mortise Locks, Raceways Closers: Surface Mounted-Through-bolts required Exit Devices (No CVR's) Viewers: 1 viewer allowed (1/2" diameter maximum)
<b>Machining Exclusions</b>	Standard Weight Hinges, Pocket Pivots, CVR's, Radius Edges, Lite Openings, Mortised Closers, Soss Hinges, Offset and Intermediate Pivots
<b>Factory Finish</b>	Prime Opaque-MDO Only
<b>Warranty</b>	Full; life of original installation. No exterior warranty.
<b>Acoustic Rating</b>	STC 47-Operable
<b>Door Weight</b>	13.4 lb./psf
<b>Environmental Options &amp; LEED Credit Contribution</b>	Certified Wood-Upon Request Low-Emitting Materials- all NAUF models No Added Urea Formaldehyde Resins CARB Phase II Compliant
<b>Quality Standards (Quality Assurance/ Industry Standards)</b>	Aesthetic: WDMA I.S.1A Architectural Wood Flush Doors (Standard construction) *Other association aesthetic standards upon request

### Gasket & Seal Requirements

- 1 row Pemko S44 and two rows Pemko S773 head and jambs
- Pemko 2008 STCxQ380 threshold
- Factory supplied

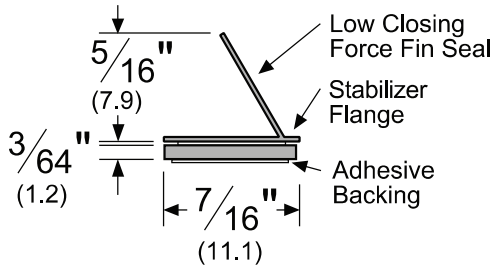
Note: Algoma doors are manufactured per the standards listed on this page.  
Specifications are subject to change without notice.

### Acoustic Doors - STC 47

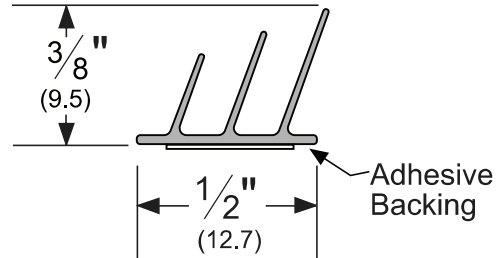
Standard Models: STC 47

Environmental Models: STC 47 NAUF, FSC

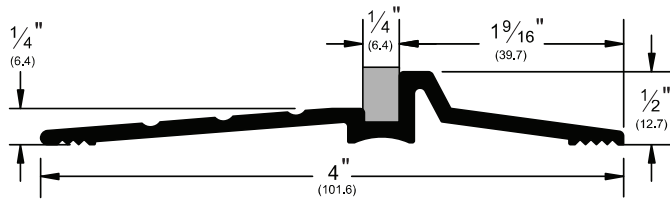
#### DRAWINGS: Gasket & Seal Requirements



Pemko S44 Perimeter Gasketing



Pemko S773 Perimeter Gasketing



Pemko 2008STCxQ380 Threshold

Note: Algoma doors are manufactured per the standards listed on this page.  
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