

PRODUCT CATALOG

COMPLETE ENTRANCE SYSTEMS

product and technical data



Special-Lite

COLOR SELECTIONS

Standard Color Selections

PEBBLE GRAIN FRP

Special-Lite's exclusive SpecLite 3® Fiberglass Reinforced Polyester (FRP) face sheets are available in 12 standard through-molded colors. Non-SpecLite 3® pebble grain FRP face sheets are available painted to match any of our 20 established Kynar 500® colors, or any custom color. Color selections are subject to change without notice.

These color charts are intended for general reference only. Final decisions should be made from actual material samples, which can be ordered directly from our website by using our online order form at www.special-lite.com.



White #5539



Light Grey #5537



Slate Grey #5572



Blue #5533



Beige #5531



Dark Grey #5535



Sage Brown #5514



Dark Bronze #5534



Desert Sand #5571
(formerly Sandstone)



Red #5538



Black #5532



Hartford Green #5570

Kynar 500® is a registered trademark of Arkema, Inc.

Special-Lite, Inc.

P.O. Box 6, Decatur, MI 49045
Ph: 800.821.6531 • Fax: 800.423.7610 • www.special-lite.com

Item #1501-R5
15M 10/14

Standard Color Selections

SANDSTONE-TEXTURED FRP

Special-Lite's exclusive, fine-grained "Sandstone" textured Fiberglass Reinforced Polyester (FRP) exterior-grade face sheets are available in nine standard through-molded colors. Face sheets can also be painted to match any of our 20 established Kynar 500® colors, or any custom color.

Color selections are subject to change without notice.

These color charts are intended for general reference only.

Final decisions should be made from actual material samples, which can be ordered directly from our website by using our online order form at www.special-lite.com.



White #5596



Beige #5598



Hartford Green #5523



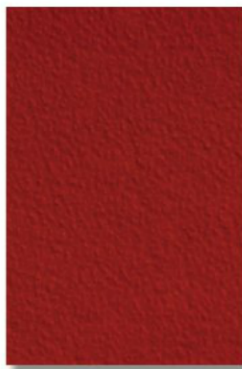
Light Grey #5597



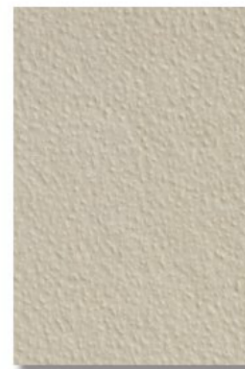
Dark Bronze #5599



Military Blue #5524



Brick Red #5522



Seawolf #5525



Sage Brown #5516

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Item #1507
15M 10/14

Aluminum Color Selections

ALUMINUM COLORS AND TEXTURES

Anodized aluminum face sheets, door extrusions and framing are available in three standard colors; clear, dark bronze and black, as well as three optional colors; light bronze, medium bronze, and champagne. Three face sheet surface textures are available; smooth, fluted, and embossed. Textured face sheets are available in any standard or optional anodized color. Aluminum face sheets can also be painted.

All Special-Lite anodized finishes are architectural grade class 1 (0.7MIL). Clear anodizing conforms to AA-M10C12C22A41. All other anodized colors conform to AA-M10C12C22A44.

Color selections are subject to change without notice.

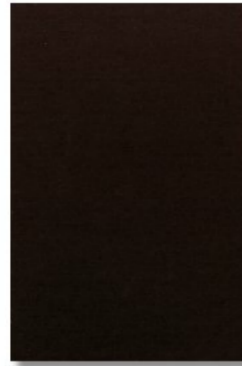
These color charts are intended for general reference only.

Every effort has been made to accurately reproduce finish colors and textures. Due to the limitations of photography and lithography processes, slight variations may occur. Final decisions should be made from actual material samples, which can be ordered directly from our website by using our online order form at www.special-lite.com.

Standard Colors



Clear



Dark Bronze



Black

Optional Colors



Champagne



Light Bronze



Medium Bronze

Standard Textures



Smooth



Fluted



Embossed

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Item 1503-R2
15M 10/08 IW

SL-18, 19

AMP Color Selections

WOOD GRAIN AMP

AMP face sheets are available in six natural wood stain finishes providing the warmth of wood without the work. All of these natural wood stain finishes are available with flush or 6-panel colonial-style face sheets.

AMP facesheets can also be painted to match our 20 established Kynar® paint colors, or any custom color.

Matching Aluminum Finishes Option

Our vision lite kits, stiles, and rails can be specified in Kynar® paint colors that match any of our six natural wood stain finishes for an inviting, color-matched entrance.

These color charts are intended for general reference only.

Every effort has been made to accurately reproduce finish colors and textures. Due to the limitations of photography and lithography processes, slight variations may occur. Final decisions should be made from actual material samples, which can be ordered from our website by using our online order form at www.special-lite.com.

Standard Stain Colors



Dark Maple



Oak



Chestnut



Teak



Mahogany



Walnut

Kynar® is a registered trademark of ATOFINA Chemicals, Inc.





Kynar® Paint Colors Match Our AMP Wood Stains

Every AMP Wood Stain Has a Complementary Kynar® Paint Color

Special-Lite AMP Colonial (SL-18) and Rustic Wood Grain (SL-19) Flush Doors achieve the rich look of real stained wood without all the disadvantages of real wood. Specify an anodized aluminum finish to faithfully harmonize with any of our wood stain colors to complete the effect.

In addition to the six anodized aluminum finishes we traditionally offer, vision lite kits, stiles and rails are available in Kynar colors to complement our standard AMP wood stain colors. These finishes are also available on all of our framing and panel products for an inviting, color-matched entrance.



Special-Lite, Inc.

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Item #1303

05/16 PDF

Standard Color Selections

FRP WOOD GRAIN (CONTEMPORARY) COLORS

Special-Lite's SL-19-1 face sheets are available in four standard stain colors, painted to match our 20 established Kynar® paint colors or any custom color.* Color selections are subject to change without notice.



American Cherry #5527



Dark Cherry #5526



Dark Walnut #5529



Light Maple #5528

These color charts are intended for general reference only. Final decisions should be made from actual material samples, which can be ordered directly from our website by using our online order form at www.special-lite.com.

*Painting the SL-19-1 face sheet is not advised if you want to retain a wood grain appeal. The grain pattern is shallow and painting may cause the face sheet to appear smooth.

Special-Lite, Inc.

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Item #1509
12/15 PDF

Standard Color Selections

WOOD GRAIN DECORATIVE FINISH ON ALUMINUM

Special-Lite's Wood Expressions is available in four standard colors. Other wood grain and color options may be available in non-stock pricing and lead time. Color selections are subject to change without notice.



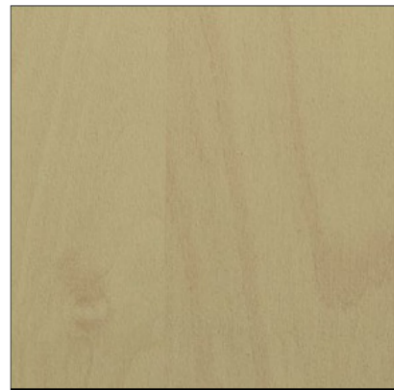
American Cherry #5542



Dark Cherry #5541



Dark Walnut #5543



Light Maple #5544

These color charts are intended for general reference only. Final decisions should be made from actual material samples, which can be ordered directly from our website by using our online order form at www.special-lite.com.

Standard Color Selections

Ten standard color choices are available in a high-gloss polyurethane finish on any of the All Fiberglass products, as listed below. Matches to any of our SpecLite3® and Sandstone Texture FRP face sheet colors, as well as custom color matching is also available. Contact Special-Lite for details. **Note:** All finishes are two-part aliphatic polyurethane industrial coatings containing lead-free pigments, meeting USDA qualifications for incidental food contact, and the NFPA Class A standard.



WH-1 White



YE-3 Yellow



FS-26270 Grey



OR-2 Orange



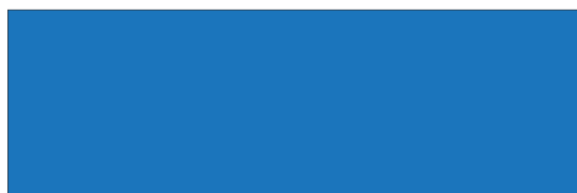
1600 Clay Tan



RD-2 Red



RT-1405 Brown



BL-6 Blue



BK-1 Black



GN-6 Green

20 ESTABLISHED KYNAR 500® COLORS

Special-Lite Inc. offers twenty established Kynar 500®* two-coat finish colors to meet the architectural needs of our customers. Custom-matched colors are available. Mica and 3-coat colors are also available at an additional charge. Contact Special-Lite for details.

NOTE: All colors represented herein are formulated with ceramic/inorganic, unleaded pigments. This reproduction approximates actual colors and is for reference only. Make actual approvals from physical samples, which may be ordered directly online by selecting the Online Literature/Samples Order Form at <http://www.special-lite.com/techdata/orderform.php>.



Sandstone



Pueblo Tan



Sage Brown



Dark Bronze



Patina Green



Teal



Ivy Wall



Hartford Green



Bone White



Black



Military Blue



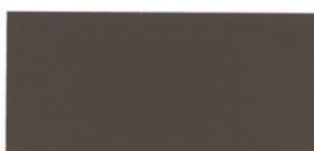
Blue



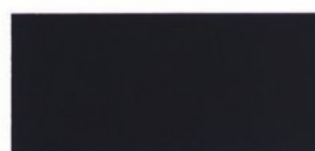
Light Grey



Seawolf



Slate Grey



Charcoal



Coral



Brick Red



River Rouge Red



Boysenberry

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Item #1504-R2
10M 05/10 DC

Special-Lite

TEST RESULTS

Product Testing

To ensure that your Special-Lite® Entrance meets or exceeds applicable codes, your specifications and our own performance criteria, independent laboratories have been utilized to conduct standardized testing of our most popular products; the SL-17 FRP Flush Door, and our standard Tube and Storefront Framing. Detailed results are available from your sales representative, or directly from Special-Lite. Product validation testing is an on-going priority at Special-Lite, so therefore the following list is subject to change without notification.

Tests performed on SL-17 FRP Flush Doors

ASTM E 84	Surface Burning Characteristics of Building Materials
ASTM E 283-91	Air Infiltration
SFBC P.A. 201	Large Missile Impact Test
ASTM E 331	Water Resistance
SFBC P.A. 203	Criteria for Testing Products Subject to Cyclic Wind Pressure Loading
SFBC 3603.2 (b) (5)	Forced Entry Resistance Test
ANSI A250.4 - 1994	American National Standard Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors and Hardware Reinforcings
ASTM E 330	Uniform Static Load
ASTM F 476	Swinging Security Door Assembly
ASTM F 1642-04	Blast Test

Test performed on Storefront Framing and standard Tube Framing (2" x 4.5" and 2" x 6")

ASTM E 283-91	Air Infiltration
ASTM E 331	Water Resistance
ASTM E 330-97	Uniform Load Deflection
NFRC 100-97	Procedure for Determining Fenestration Product Thermal Properties
AAMA 1503-98	Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections

Contact Special-Lite for more test result information

SpecLite3® FRP Door Test Results

A series of tests were conducted by an independent laboratory to define and measure the cleanability and stain resistance, chemical resistance and abrasion resistance of SpecLite3® FRP (Fiberglass Reinforced Polyester) face sheets. These are the three main problems confronted by institutional doors. The results prove the superiority of Special-Lite SpecLite3® FRP.

Taber Abrasion Resistance Testing

TEST PARAMETERS	SpecLite3® FRP
Nominal panel thickness:	.120
Abrasive wheel type:	CS-17
Load weight:	1,000 Grams Total
Number of cycles:	25
Vacuum:	100%
% Weight Loss:	.029

Cleanability & Stain Resistance

(Duration of panel surface exposure to test agents: 24 hours)

TEST AGENT	SpecLite3® FRP
Beef Blood	Unaffected (a)
Butter	Unaffected (a)
Fresh Egg	Unaffected (a)
Tomato	Unaffected (a)
Mustard	Unaffected (a)
Permanent Marker (Sharpie)	Slight Effect (b)
Shoe Polish (White)	Slight Effect (b)
Spray Paint (White)	Slight Effect (b)

(a) Removed stain with only detergent solution and cloth or soft brush.

(b) Removed stain with standard FRP cleaner (solvents) and cloth or soft brush.

Chemical Resistance

(Duration of panel surface exposure to chemicals: 4 hours)

TEST AGENT	SpecLite3® FRP
Acetic Acid (Concentrated)	No Effect
Hydrochloric Acid (10% Solution)	No Effect
Sodium Hypochlorite (4-6% Solution)	No Effect
Citric Acid (10% Solution)	No Effect

All the above chemicals are common cleaning agents, solvents and disinfectants.

IMPACT STRENGTH

Test: ASTM D 256

Izod impact strength, expressed in foot-pounds per inch of notch.

Nominal value for SL-17: 15

Comments: The SL-17's ability to withstand impact is nearly as great as polycarbonate, comparable to stainless steel, and significantly greater than aluminum of the same thickness.

WEATHERABILITY — HUMIDITY RESISTANCE

Test: ASTM D 570

Water absorption from 24-hour immersion at 77°F, expressed in percent weight gain.

Nominal values for SL-17: .20%

Comments: The SL-17 has a proven ability to withstand high humidity and exposure to sunlight with no significant effect on strength.

HARDNESS

Test: ASTM D 2583 Barcol Meter

Hardness Test

Nominal value for SL-17: 55

Comparable value for soda lime glass: 65

Comments: The outer surface of the SL-17 has a scratch resistance nearly equivalent to window glass.

FLAME/SMOKE RATING OF FACE SHEETS

Test: ASTM E84

Standard face sheet: Flame

spread – less than 200

Smoke developed – less than 450

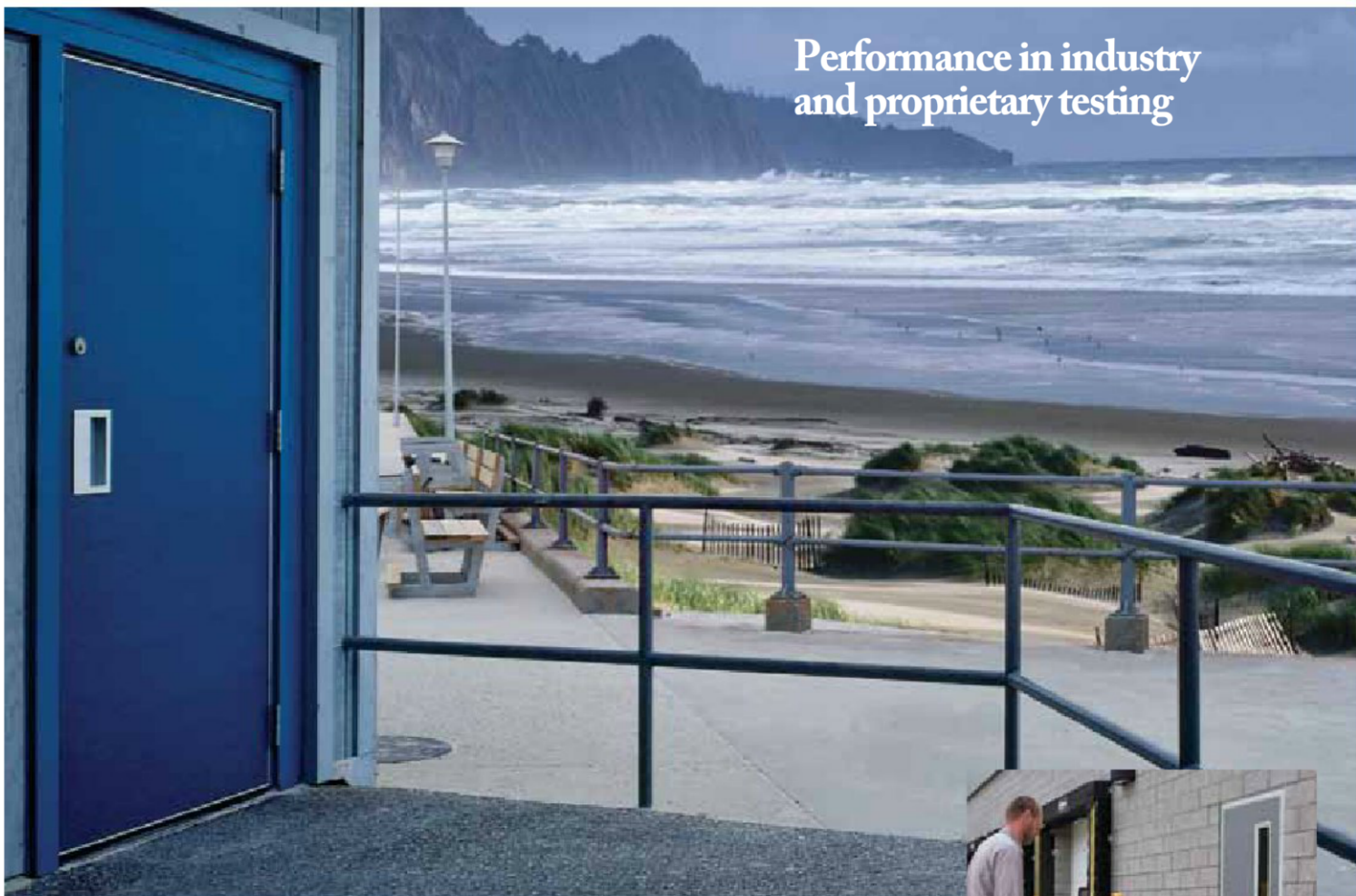
Class A Option – for interior side of exterior doors and either side of internal doors: Flame spread less than 25

Smoke developed less than 450

FLEXURAL STRENGTH

Test: ASTM D790

Nominal Panel Value: 21,000 PSI



Performance in industry
and proprietary testing

We've been making entrance systems for the most challenging applications since the early 1970s. Along the way, we've learned a few things on how to manufacture the longest lasting entrances to provide the lowest life cycle cost.

Start with a better design to build a better door. Instead of making our heavy-duty doors heavy and rigid, we make them lightweight and flexible to better withstand the rigors of real life, while minimizing wear and tear on the entire entrance system.

Utilize modern materials and durable construction to provide the longest possible service life. High quality, corrosion-resistant materials and durable finishes ensure lasting beauty with minimal maintenance.

Test, test and retest! As they say, you can't improve what you don't measure.

- Validate performance with the most abusive industry standardized tests
- Keep testing against our own criteria
- Monitor real world test results—product life at customer installations



Third Party Testing

Assurance our FRP doors can stand up to life's toughest challenges

Our doors undergo all relevant standardized testing to ensure they will perform at the highest level. Below are the results of a few of the most demanding tests performed on the Special-Lite® SL-17 FRP Flush Door:

Looks and performs like new after 25 million cycle swing test

Our SL-17 was opened and closed according to ANSI A250.4 standard every 13½ seconds every hour of every day for more than four years. After completing 25 million cycles, the door was still performing beautifully...and looked like new...although the closer and exit device push pad had to be replaced multiple times.

Exceptional durability proven with 5 million cycles of slamming

Our SL-17 was pulled open and slammed shut every four seconds to the NWWDA T.M. 7-90 test method to determine the ability of the door and the associated hardware connections to perform under accelerated opening conditions. After a total of 5 million cycles, there was no hinge separation or operational damage to the door.

Hurricane-rated and Florida approved

Tested to Florida Building Protocols TAS 201 (impact test), 202 (uniform static air pressure test) and 203 (cyclic wind pressure loading test), all of our flush doors have achieved Florida Product Approval. These tests show that our flush doors, including the SL-17, will withstand high-velocity winds and flying debris common to hurricanes and tropical storms.

Provides blast resistance protection

To test our SL-17 doors to the ASTM F1642-04 standard, the SL-17 was attached to a large shock tube—a test device that simulates the effects of an actual explosion. When subjected to force in the 5.5 to 6.5 psi range, the SL-17 was slightly damaged but remained operational and was found to pose a minimal hazard to building occupants in the event of an explosion.

Achieves highest rating for security

The ASTM F476 standard measures a door assembly's ability to resist, delay, and frustrate certain kinds of burglaries. Special-Lite SL-17 FRP Flush Door assemblies conform to Classification Grade 40—the highest rating available under this ASTM test method! As a result, you can be assured that the SL-17 is suitable for use in commercial buildings in high risk areas.





A 215-pound sand bag is winched back to measured height.



The sand bag is released to slam against the door.



The sand bag impacts a door with bottom edge blocked.

Proprietary Testing

Our doors can take whatever life—or we—throw at them

To evaluate the performance of our doors, we've developed our own proprietary test protocols. Here are a couple of extreme examples:

Extreme Impact Test

To test just how much torture our doors can take compared to competitive doors, we devised our own extreme impact test. A bag with 215 pounds of sand was suspended in front of the door, pulled back a measured distance, and allowed to slam into the door. We continued to increase the distance incrementally until the impact force reached as much as 750 ft-lb.

We tested all doors to the point of failure. The competing doors we tested were able to resist the impacts for awhile, and then they completely blew apart at a level of force that left our doors still fully functional. This test, and similar abuses in the real world, continues to validate our unique design approach of building heavy-duty doors that are lightweight and flexible.

Sun Exposure Test

Daily exposure to extreme heat and intense direct sunlight can damage entrances just as easily as intentional abuse. To test our existing doors and latest product developments, we chose one of the most extreme North American locations we could find...the Arizona desert...with over 80% sunshine annually and average high temperatures above 100° Fahrenheit all summer long.

We subject our products to these extreme conditions for years to test their performance. In the hottest part of the summer, we've measured door skin temperatures of over 180 ° Fahrenheit. This test validates our doors' fade-resistance and ability to withstand thermal extremes.



Special-Lite doors and door components weathering the intense heat and direct sunlight of the Arizona desert.

Sustainability Testing

Meeting the demands of green construction

Long life cycle minimizes environmental footprint

Our FRP doors have passed over 25 AAMA, ANSI, ASTM and SFBC tests that show they are built to stand up to day-to-day use as well as corrosive environments, water penetration, heavy use, impacts, forced entry and even hurricanes—proving they are long lasting in their intended use. That's why we have the confidence to offer a limited lifetime warranty on our FRP doors. In addition, we provide an uncomplicated 10-year parts and labor warranty on the entire entrance.

Meets stringent indoor air quality criteria

GREENGUARD Certification is your independent assurance of low-emission performance. Our entire product line* was the first commercial entrance product line to earn GREENGUARD Certification, including the Children & Schools Standard™. The certification involves tests for formaldehyde, VOCs, phthalates and hundreds of other pollutant emissions, using scientific environmental chamber protocols. To view our GREENGUARD Certification online, visit www.greenguard.org.



Thermal performance leaves hollow metal doors in the cold

Our SL-17 Door can help reduce heating and cooling loads by providing superior thermal performance versus hollow metal doors. Compare our independent lab results with those for hollow metal doors...if you can find any.

Learn more about Special-Lite

We manufacture complete entrance systems for new construction and replacement installation in commercial, institutional, industrial and municipal applications. For more information, including detailed independent lab test results, contact your sales representative or Special-Lite.

*Excludes fire-rated doors.

The GREENGUARD INDOOR AIR QUALITY CERTIFIED Mark is a registered certification mark used under license through the GREENGUARD Environmental Institute.



Air Quality Sciences chamber testing verifies that Special-Lite products meet GREENGUARD Certification criteria.

Thermal Properties: Special-Lite FRP Door Components, Panels, and Doors

	U-value	R-value	CRF
Special-Lite FRP Door Components			
1½" thick urethane foam	.11	9.1	88
1" FRP and urethane foam panel	.23	4.3	81
1¾" FRP and urethane foam panel	.10	10.0	87
Special-Lite FRP Door Assembly	.29	3.4	55

Tests conducted by Architectural Testing, Inc. Contact Special-Lite for detailed test results.



Special-Lite, Inc.

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Item #1123-R2
5M 11/11 IW

Special-Lite

MISCELLANEOUS INFORMATION



Special-Lite Limited Warranty

Special-Lite, Inc. warrants the Special-Lite® Doors (certain product exclusions apply*), Frames, Panels, Hardware, and Toilet Partitions that it manufactures to be free of defective materials and faulty workmanship, and as conforming to our customers' written purchase order guidance, for a period of ten years from the date of shipment. This warranty covers repair or replacement of product at our discretion and payment of approved labor charges as necessary to effect such repairs or replacement.

Claims relating to the conformance of doors, frames, panels and toilet partitions, to purchase order, must be submitted in writing to Special-Lite, Inc. within 30 days after receipt by buyer.

In addition to the above limited warranty, Special-Lite also provides a limited lifetime (while the door is in its specified application in its original installation) warranty covering the following:

- A. Failure of corner joinery.
- B. Core deterioration.
- C. Delamination or bubbling of door skin.
- D. Corrosion of all-fiberglass products.

Warp and Telegraphing: Special-Lite defines warp as any distortion in the door itself, and does not refer to the door in relation to the frame or jamb in which it is installed. Warp is not considered a defect unless it exceeds 1/4" in the plane of the door itself. Placing a straightedge on the concave face and determining the maximum distance from the straightedge to the door face will be the method by which warp shall be measured.

Special-Lite doors will not be deemed defective due to "telegraphing" or stile, rail and core show-through unless the faces of the doors vary from a true plane in excess of 1/100" in any three inch span.

Factory Installed Hardware: Special-Lite also warrants for a period of 10 years that:

- A. Hardware is installed in accordance with the hardware manufacturer's specifications and instructions
- B. Hardware is securely mounted and, in normal usage, will not separate from the door

Field Installed Hardware: Special-Lite makes no warranties of any kind as to hardware which is installed in the field by non-Special-Lite personnel.

Glazing: Special-Lite does not manufacture the glazing material integrated into its products. All glass, including tempered, insulated, laminated and specialty glass is covered by the manufacturer's glass warranty.

Field Alterations: AF-100 Doors with standard (mortised) door bottoms may be trimmed in the field at the bottom of the door up to a maximum of 1.875 inch. Vision lites or louvers to be added to doors in the field must be reviewed and approved in writing by Special-Lite Engineering to preserve warranty coverage on the door. Any unapproved field alterations will void this warranty.

Finishes: Special-Lite makes the following finish warranties:

- A. In the case of SpecLite3® face sheets and anodized aluminum finishes, Special-Lite warrants the finish for 10 years from the date of shipment.
- B. Other surface finishes are covered by the finish manufacturer's warranty and Special-Lite warrants that the finish has been applied in accordance with the finish manufacturer's application specifications. This warranty is made for and runs concurrently with the same period as the finish manufacturer's warranty.
- C. The warranties on finish in this section do not cover normal wear and aging of the finish.

The following will void this limited warranty:

- 1. Failure to follow installation instructions;
- 2. Field alterations except as outlined above;
- 3. The application of hardware other than the hardware which the product was manufactured to receive; or
- 4. Abuse, mistreatment or improper usage of the product.

This limited warranty is in lieu of and replaces all other express or implied warranties, including but not limited to an implied warranty of fitness for a particular purpose and an implied warranty of merchantability.

Upon receipt of a warranty claim, Special-Lite will determine whether the warranty applies and if so, Special-Lite will determine, in its sole discretion, whether repairs or replacements will be done at the factory or in the field. Special-Lite's liability under this limited warranty is in all events limited to repair or replacement of the defective product and in no event shall Special-Lite be liable for lost profits, or consequential, incidental or punitive damages of any sort, whether based on tort, breach of contract, or breach of warranty.

*The BasiXTM Door and Interior Architectural Products each carry a separate warranty. Contact Special-Lite, Inc. for details.

Special-Lite, Inc.

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Item #1206-R4

01/16 PDF



Product Training at Special-Lite

Strategies for successfully growing your business

Even though the Special-Lite website contains valuable product information, one of the best ways to maximize your knowledge is to participate in one of our factory-based or on-site training sessions.

Special-Lite tailors its training sessions to your needs. The following pages give you an overview of what each class offers. Class sizes are kept small so you can see first-hand the engineering that goes into every Special-Lite product, meet the people who put more life in every door we make, and learn how Special-Lite can help you grow your business.

For more information or to make reservations, call Craig Hartsell at 1-800-821-6531 or by email at craig_hartsell@special-lite.com.

Customers and Sales Reps

2 days; at the Special-Lite Training Center, Decatur, MI

SESSION AGENDA

- Special-Lite Factory Tour
- Product Preview
- How to make ordering more efficient
- How to track jobs
- The advantages of Special-Lite Customer Service
- How to correctly install Special-Lite entrances

HOW IT WILL HELP YOUR BUSINESS

- Meet Special-Lite employees and your regional Special-Lite team; learn how we put more *life* in every entrance we make, ship and service
- See what differentiates each product and how to select the right one for specific applications
- Improve customer satisfaction with more accurate order placement and competitive pricing
- Meet the people who can answer your questions and concerns
- Learn the advantages of using factory-trained installers

End Users Groups

1 day; at the Special-Lite Training Center, Decatur, MI

SESSION AGENDA

- Special-Lite Factory Tour
- Manufacturing/Product/Warranty Overview
- Best installation practices for Special-Lite products

HOW IT WILL HELP YOUR BUSINESS

- Learn about Special-Lite's innovative manufacturing processes and services
- Review product features and benefits so you get the exact entrance you need
- See how factory-trained installers ensure correctly operating entrances

YOUR COSTS: Transportation to and from Kalamazoo, MI (all meals, lodging and transportation between your hotel and Special-Lite are included).

Product Training On-Site (your location)

Customers and Sales Reps

1 day; at your location

SESSION AGENDA

- Product Preview
- Advantages of working with your inside, regional Special-Lite team
- How to correctly install Special-Lite entrances

HOW IT WILL HELP YOUR BUSINESS

- Learn about Special-Lite's innovative manufacturing processes and services
- See what differentiates each product and how to select the right one for specific applications
- Learn how to avoid price wars, streamline orders and increase customer satisfaction

End Users Groups

3-4 hours; at your location

SESSION AGENDA

- Manufacturing/Product/Warranty Overview
- Best installation practices for Special-Lite products

HOW IT WILL HELP YOUR BUSINESS

- Learn about Special-Lite's innovative manufacturing processes and services
- Review product features and benefits so you get the exact entrance/product solution you need
- See how factory-trained installers ensure correctly operating entrances

YOUR COSTS: None.

Installation Training at Special-Lite

Installers and End Users

1 day; at the Special-Lite Training Center, Decatur, MI

SESSION AGENDA

- Arrive preceding evening
- Special-Lite Factory Tour
- See best-practice installation techniques and get hands-on experience using them
- Learn troubleshooting tips; correct solutions to entrance problems
- Earn certificate that recognizes that you have been factory trained to install Special-Lite products

HOW IT WILL HELP YOUR BUSINESS

- Ensure complete satisfaction with properly operating entrances
- Meet Special-Lite employees; learn how we put more *life* in every entrance we make, ship and service
- Troubleshoot installation problems quickly
- Increase customer confidence in your installation services

YOUR COSTS: Transportation to and from Kalamazoo, MI (Lunch, lodging and transportation between your hotel and Special-Lite are included).

Door Handing Chart

Follow this chart to determine hand of door and frame. Hand all doors by standing outside on the key side, facing the door.

SINGLE DOORS:

When a door swings to outside and hinges are on the right side of the door: Door is R.H.R.

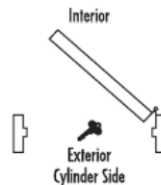
When a door swings to inside and hinges are on the right side of the door: Door is R.H.

PAIRS OF DOORS:

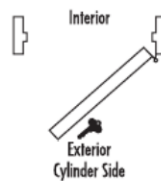
When a door swings to outside and hinges are on the right side of active leaf: Door is R.H.R. Active.

When a door swings to inside and hinges are on the right side of active leaf: Door is R.H. Active.

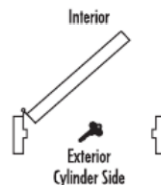
R.H. Right hand door (swing in)



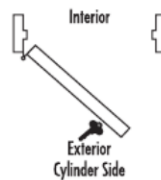
R.H.R. Right hand reverse door (swing out)



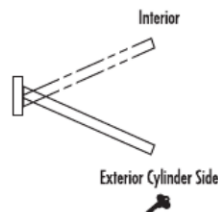
L.H. Left hand door (swing in)



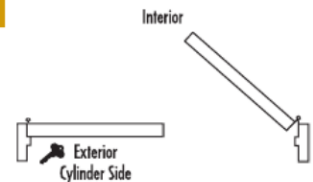
L.H.R. Left hand reverse door (swing out)



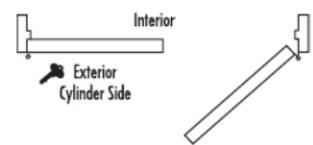
Single Double Acting Single door - Center hung



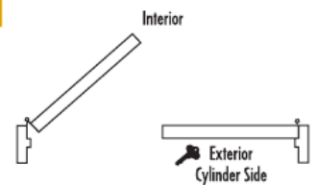
R.H. Active Pair of doors (swing in)



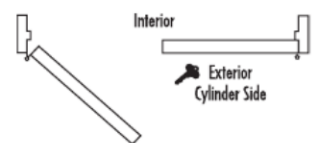
R.H.R. Active Pair of doors (swing out)



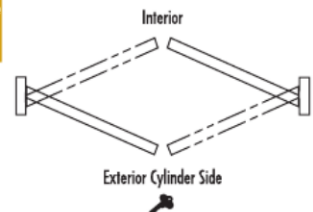
L.H. Active Pair of doors (swing in)



L.H.R. Active Pair of doors (swing out)



Pair Double Acting Pair of doors - Center hung



Consult factory for special applications.

Special-Lite, Inc.

P.O. Box 6, Decatur, MI 49045

Ph: 800.821.6531 • Fx: 800.423.7610 • www.special-lite.com

Item #7403-R1

3M 11/13 JBP

Cleaning Recommendations

Special-Lite entrance products are manufactured with the most durable factory finishes available to provide many years of trouble-free use with only occasional cleaning required. Special-Lite does not endorse any specific cleaning products, but does recommend that products be selected and used following the general guidelines below:

GENERAL RECOMMENDATIONS

Clean entrance products frequently to avoid dirt build-up that can prematurely age entrance finishes, and remove stains such as graffiti immediately.

Start with a forceful cold-water rinse from top to bottom of the entrance, rubbing with a soft brush, sponge or cloth while rinsing. If a simple water rinse does not remove soil, a mild cleaner may be required.

For routine cleaning and stain removal, always use the mildest cleaner that yields satisfactory results, using repeat applications if necessary before switching to a stronger cleaner.

Use a mild soap or general-purpose cleaner, preferably one that is biodegradable, non-toxic, and water-soluble. A neutral cleaner (pH range 6.5 to 7.5) is recommended.

Always follow the manufacturer's instructions for dilution and application of cleaning products. Test cleaners and graffiti removers on a small, inconspicuous area of the door before applying to the entire door surface.

Wash the entrance from top to bottom, rinsing often. Apply cleaner with a sponge, soft brush or cloth, working across the door surface in a circular scrubbing motion. A soft bristle brush is recommended to remove stains from wood grain textured door surfaces.

After cleaning, rinse thoroughly with cold water to remove all cleaner residues, especially from joints and crevices, and wipe dry to avoid spotting, or allow to air dry.

Clean only when weather is moderate and doors are not exposed to direct sunlight.

If cleaning with a mild soap fails to remove soil or stains, contact your cleaning supply vendor for assistance.

PRECAUTIONS

Avoid the use of cleaning products with petroleum-based active ingredients.

Do not use abrasive cleaners or abrasive cleaning pads.

Do not use aggressive alkaline or acid cleaners.

Do not use hot water (over 130°F / 55°C) to dilute cleaners or rinse entrances.

Do not wash entrance when exposed to intense direct sunlight sufficient to make doors hot to the touch.

Avoid power washers.

Special-Lite

ALL-ALUMINUM DOORS



Durability and design versatility in a full-vision door

Special-Lite® Monumental Doors are proof that you don't have to sacrifice design flexibility when selecting a heavy-duty stile and rail door. Our monumental doors allow you to create the open and inviting full-vision entrance you want to welcome the public, while providing the functionality, security and long service life you require. They're ideally suited for educational, institutional, commercial, or religious facility entrances subjected to high traffic.

Our monumental doors are custom fabricated with a combination of hands-on craftsmanship and advanced manufacturing technology, so you can be assured that every door will deliver precise fit, perfect function, and long life. Whether you choose the SL-14 Medium Stile or SL-15 Wide Stile, the best value in a durable full-vision door is the Special-Lite Monumental Door.

More durable than welded doors

We've engineered our monumental doors to stand up to the rigors of high-traffic entrances while avoiding unnecessary weight that would compromise entrance longevity. Our exclusive design provides durability and long life that you won't get from other stile and rail doors with welded corner construction.

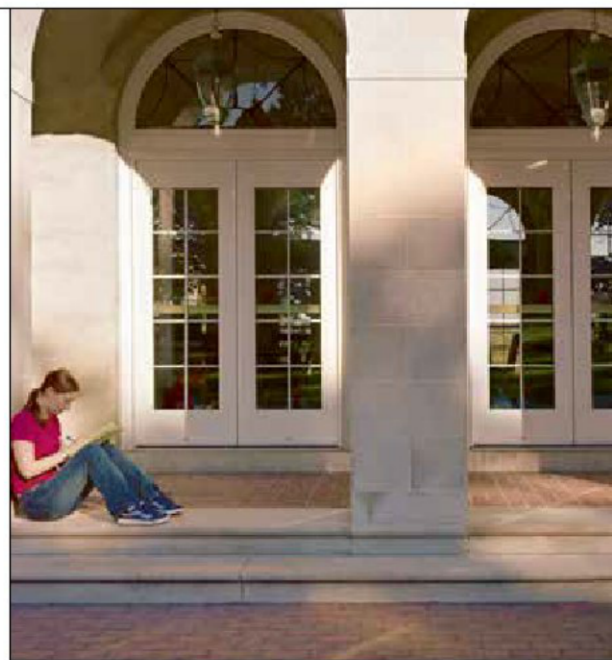
One-piece aluminum alloy stiles and rails in 1 3/4" standard thickness

Minimum 1/8" wall thickness

Full-width galvanized 3/8" steel tie rods

True mortise and tenon joinery

Extruded integral exterior glass stops



Monumental Door features and benefits

- Stiles and rails are rugged one-piece 6063-T6 aluminum alloy extrusions with a minimum 1/8" wall thickness to resist denting and provide secure attachment for hardware.
- SL-14 Medium Stile features 3 1/2" stiles; SL-15 Wide Stile has 4 3/4" stiles.
- True mortise and tenon joinery provides exceptional strength and transfers the weight of the glass and door directly to the hinge stile.
- Full-width top and bottom tie rods secured with hex nuts are superior to inflexible welds.
- Integral exterior glass stops in stiles and rails provide added security and strength. Glazing can be specified in 1/4" or 1" thickness.
- Standard top and bottom rails are 6 1/2"; an ADA-compliant 10" bottom rail is also available.
- Consult factory for maximum door size.

Complement any architecture with our customizing options

Mid-Rail

Our Mid-Rail is a one-piece extrusion with integral exterior glass stops that is secured to the vertical stiles with mortise and tenon joints and a full-width tie rod, further strengthening the door for even greater durability. A mid-rail also separates the glass area into two sections for less cost, and can conceal touch bar exit devices from exterior view. We offer 2½", 4", 6½" and 8" wide mid-rails, which can be positioned horizontally or vertically and specified in contrasting finishes to create just the look you want to enhance your overall design theme.

SL-484 Mid-Panel

The SL-484 Mid-Panel is a Special-Lite exclusive that adds a nice design accent while protecting the center portion of the door in locations prone to heavy traffic. Our mid-panel is 12" tall and features an aluminum frame, poured-in-place urethane core for thermal performance, and two ¾" galvanized steel tie rods at top and bottom which add considerable strength and durability to the door. Our mid-panel can be fabricated with any of our available door face sheet material, finish and texture options.

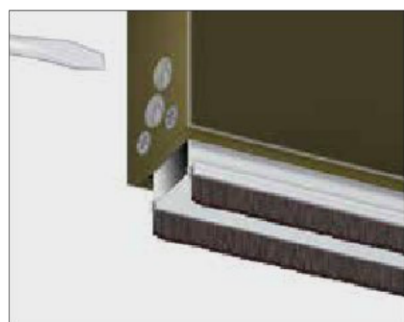
The SL-484 Mid-Panel can be prepped to allow for installation of low-profile proximity card readers inside the mid-panel. Internal mounting keeps the reader out of sight, out of the weather, and out of the reach of vandals.

Recessed pulls

To complement our mid-panels we recommend the SL-84 or SL-88 Recessed Pull. The SL-84 and SL-88 are constructed as an integral part of the mid-panel, so they can't come loose. There are no projections above the door surface, which improves entrance safety. There's also nothing to wrap a chain around, for added entrance security.

Panels

In severe traffic applications we recommend insulated 1" panels for the lower section of mid-rail and mid-panel monumental doors. These panels can be constructed with any of the face sheet materials and finishes available for our door products, and feature a urethane core for insulation and durability.



The SL-301 Adjustable Bottom Brush closes gaps under doors and is available either installed on new doors or as an easy-to-install retrofit kit.

Muntins

Aluminum surface-applied muntins can be used with ¼" glass to create a classic look. They're available in ½" and 1¼" widths and can be used together to create just the right design enhancement. 1" insulated glass is also available with internal muntins.

Maintenance-free surfaces keep doors looking new

Special-Lite Monumental Doors are available in Class 1 (0.7 mil) anodized aluminum finishes, including our standard clear, dark bronze, and black, as well as optional champagne, light bronze, and medium bronze. This attractive and durable surface never needs painting, cannot rust, and will keep its new-like appearance for years with only routine cleaning. We also offer a selection of popular Kynar® painted colors, or you can specify the custom painted color of your choice.

Simplify field installation with factory-applied hardware

Special-Lite will apply hardware at no additional charge beyond hardware prep charges. Factory-installed hardware not only fits better, but the installation is warranted not to come loose under normal usage for a full 10 years. If you prefer, we can simply prep for field installation of hardware. We can supply thresholds shipped loose for field installation. Surface-applied door closers and surface-applied sweeps must be installed in the field.

Simplify your life with entrance solutions from Special-Lite

A complete entrance from a single source

Special-Lite can supply a complete entrance solution — doors, frames, hardware and panels. Enjoy the convenience, reliability and performance advantages of having a complete, ready-to-install entrance supplied by a single source, delivered to the job site in a single, on-time shipment. Single-sourcing ensures proper door and frame fit, correct hardware operation, exact finish match, and longer entrance life. We can even ship doors with hardware and glazing installed, significantly reducing expensive job site labor and installation time, and preventing last-minute problems.

A simple warranty that works

To help simplify your life, we stand behind our products with an uncomplicated, 10-year, 100% parts and labor warranty. Ask your sales representative for a copy of our warranty statement, and compare it to what other supplier warranties actually cover after all of their exclusions and limitations. You'll see that when you specify Special-Lite, you're really covered.



GREENGUARD™ Certified for Indoor Air Quality

Special-Lite's full line of exterior entrance products*, including our Monumental Doors, were the first to be GREENGUARD Indoor Air Quality Certified®, including earning the stringent new GREENGUARD Gold Certification (formerly known as GREENGUARD Children and Schools Certification).

*Excludes fire-rated doors.

The GREENGUARD INDOOR AIR QUALITY CERTIFIED Mark is a registered certification mark used under license through the GREENGUARD Environmental Institute.



Discover entrance systems with more *life*. Contact your sales representative or Special-Lite for more information.

Special-Lite, Inc.

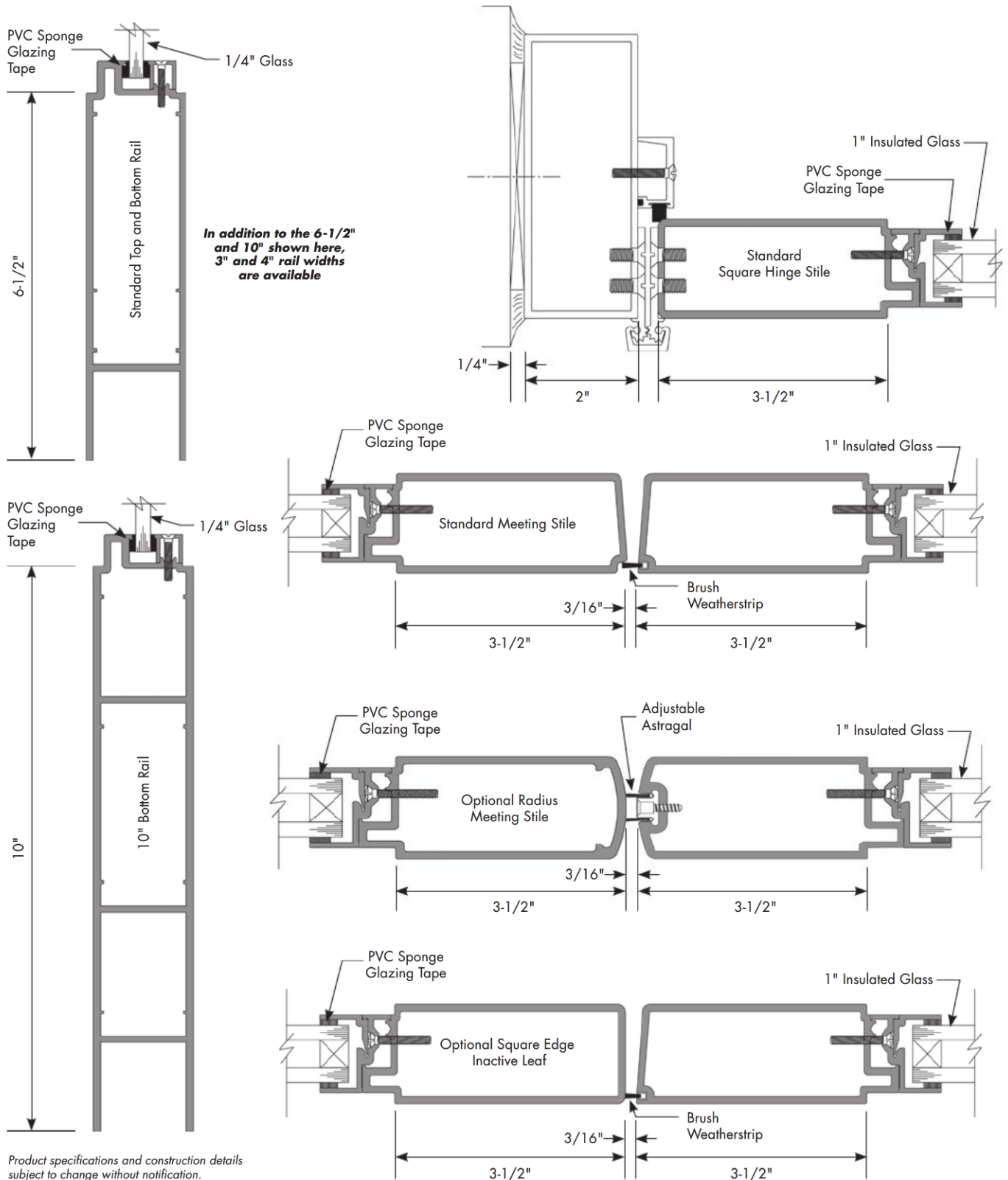
P. O. Box 6, Decatur, Michigan 49045

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Monumental Medium Stile Door Detail

NOT TO SCALE

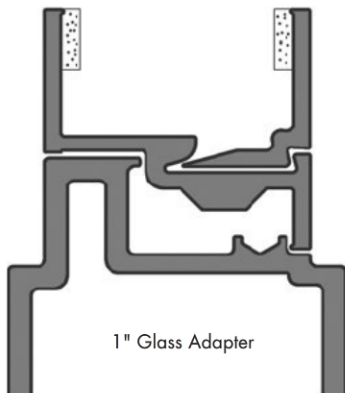
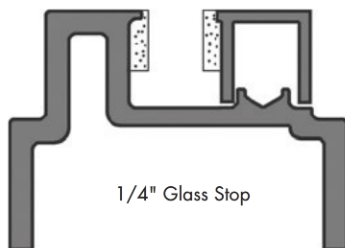
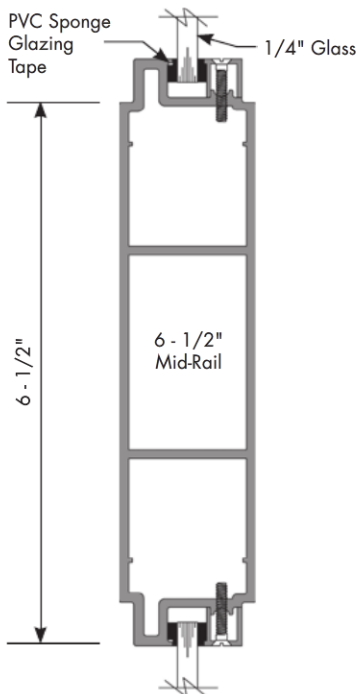
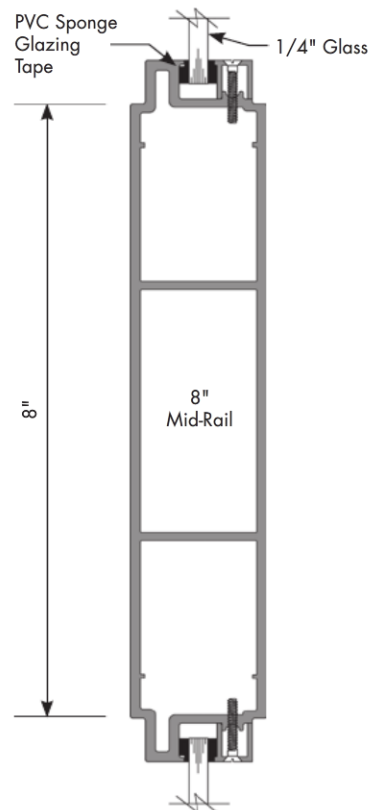
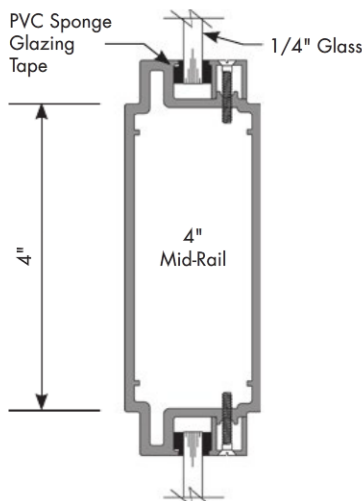
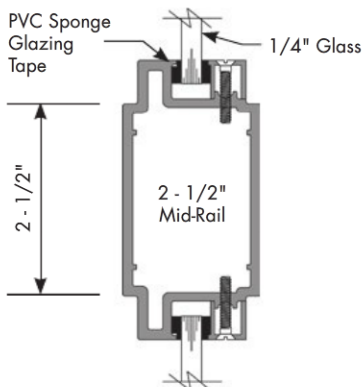
Glazing can be specified in either 1/4" or 1" thickness



Monumental Medium Stile Door Detail

NOT TO SCALE

Glazing can be specified in either 1/4" or 1" thickness



Product specifications and construction details
subject to change without notification.

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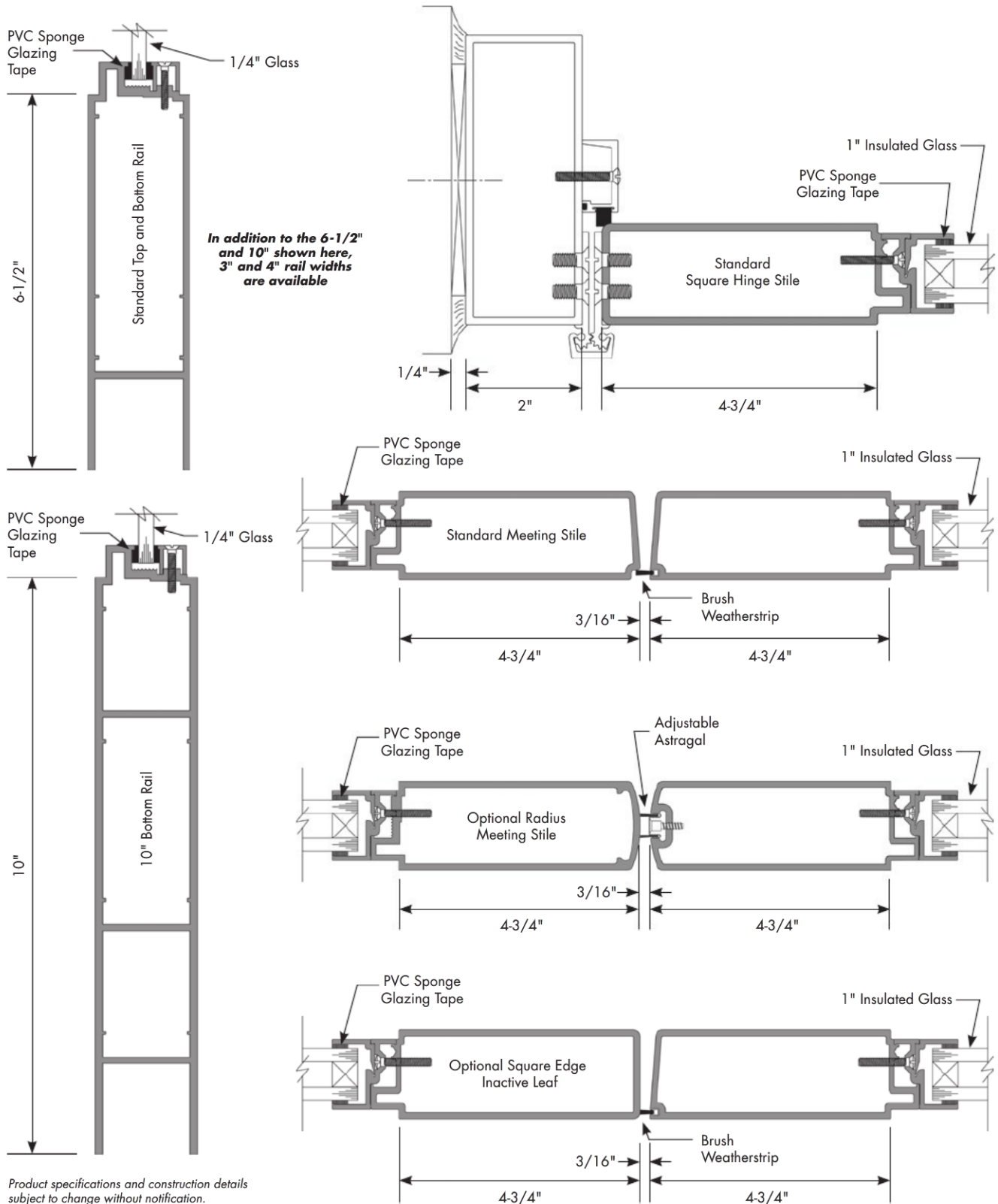
Item 7201-R2

10M 11/12 JBP

Monumental Wide Stile Door Detail

NOT TO SCALE

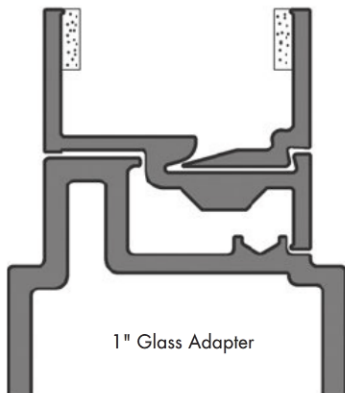
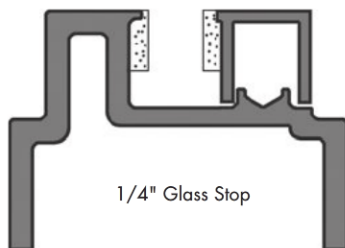
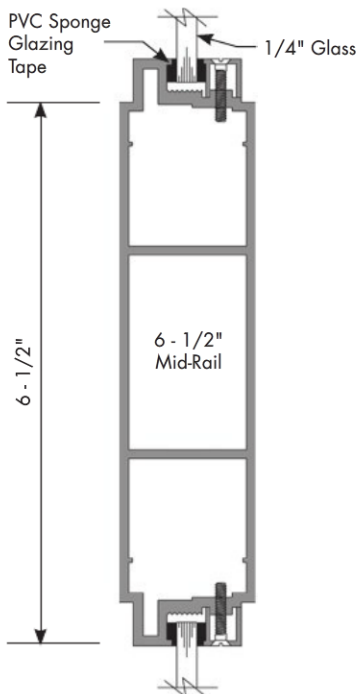
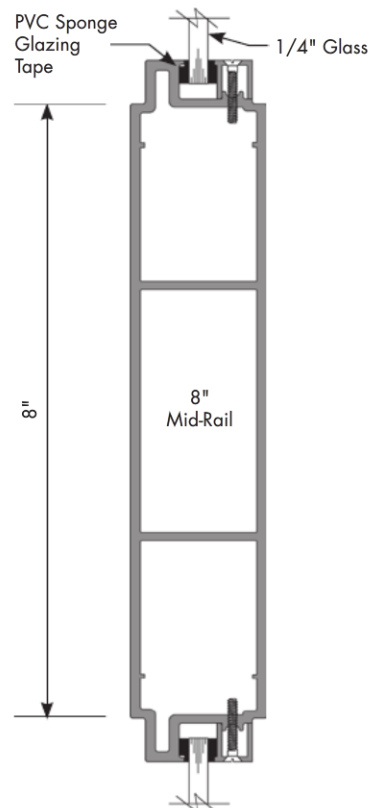
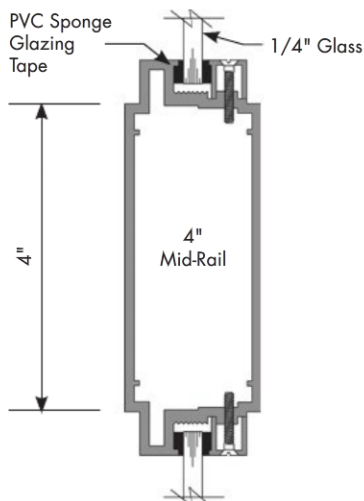
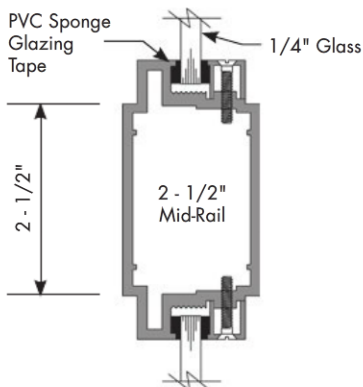
Glazing can be specified in either 1/4" or 1" thickness



Monumental Wide Stile Door Detail

NOT TO SCALE

Glazing can be specified in either 1/4" or 1" thickness



Product specifications and construction details
subject to change without notification.

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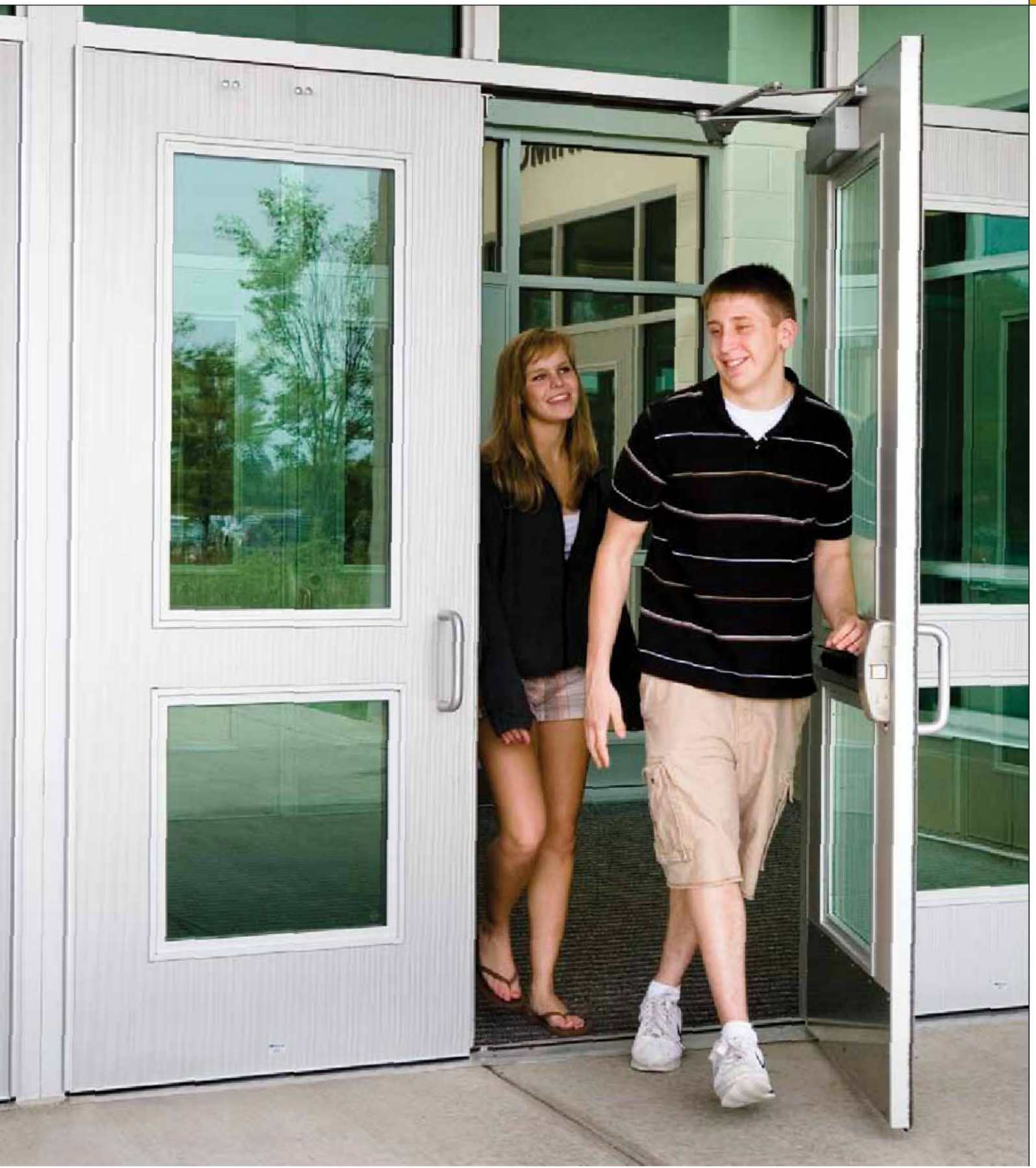
800.821.6531

Item 7202-R2

10M 11/12 JBP



Aluminum Flush Doors



Special-Lite® Aluminum Flush Doors: lightweight beauty, but not light-duty

When aesthetic considerations are as important as ease of maintenance and long life, Special-Lite® SL-16 Aluminum Flush Doors are the perfect answer. They provide an attractive, easy-care option for applications where reduced glass area is desired, but only moderate abuse tolerance is required. They offer excellent design flexibility and feature an elegant, contemporary look that's particularly well-suited for commercial and educational facility applications subjected to moderate to heavy traffic.

SL-16 Aluminum Flush Door

Challenging environmental conditions such as high humidity or corrosive chemicals that quickly destroy hollow metal doors are not a problem for the SL-16. This makes them the ideal choice for water and wastewater treatment plants and industrial facilities. In addition, our SL-16 has been tested to Florida Building Protocols TAS 201, 202 and 203 making it hurricane-rated and Florida approved so you can specify for coastal areas.

SL-16SS Stainless Steel Aluminum Flush Door

The SL-16 is also available with stainless steel face sheets as the SL-16SS model for sanitary environments such as hospitals, laboratories and kitchens.



Why a heavier, more rigid door isn't a more durable door

Conventional wisdom says that a heavier, more rigid door is a stronger door. We say that employing sound engineering principles results in a lighter door that's actually a better door.

Heavy, rigid doors place high loads on hardware and framing. Installing heavier hardware isn't the solution, though, because it simply increases the weight of the door, stressing hardware and framing all the more. The result is eventual entrance failure.

In contrast to the Heavier is Better philosophy, we make Special-Lite® doors as light as possible. We give them a high degree of flexibility and fatigue endurance to absorb the forces involved and prevent structural degradation over time. Less door mass not only means reduced wear and tear on hardware and framing for longer entrance system life, but reduced opening effort as well. But don't confuse lightweight with light-duty. All Special-Lite doors are heavy-duty doors, and should only be compared to other heavy-duty doors.



Each Special-Lite® Door is made to order

Every door and frame we make is a custom solution, made to order. We can do what it takes to bring your design ideas to life with the right entrance system to suit your application. We can even provide you with submittal drawings or computer-generated design renderings to help with the specification and design process. Unique configurations such as arched doors and transoms, odd sizes, unequal pairs, monorail cut-outs or dutch doors are no problem for our experienced craftsmen. We can make SL-16 Doors as large as 48" wide x 120" high, and can fabricate panels with matching face sheet materials for coordinated entrance designs.

Better materials and designs for better doors

The first doors made by Special-Lite—way back in 1971—were aluminum flush doors. Of course, a lot has changed since then, but our uncompromising approach to handcrafted quality has remained the same. Our aluminum flush doors are manufactured with stiles and rails of extruded 6063-T6 aluminum alloy, sized and configured for maximum strength without unnecessary, non-functional bulk. All anodized finishes are Class I (.7 mil) to ensure long-lasting beauty with only routine cleaning using mild soap and water.

Stiles and rails are joined with mitered corners secured by angle blocks and $\frac{3}{8}$ " diameter full-width galvanized steel tie rods. The tie rods run through integral splines in the top and bottom rails, effectively making the tie rod a part of the rail. This method of construction provides the necessary flexibility to withstand abuses that would cause a mechanically-joined or welded corner to fail.

Aluminum face sheets resist fading and corrosion—and look good doing it

Our aluminum face sheets are .062" thick architectural-quality 5005 alloy, and are available in smooth, fluted, or embossed textures in any of our standard or optional anodized colors. We can also paint aluminum face sheets in any of our available finishes, or your own custom color.

Face sheets are secured on all four sides by full-length integral reglets on the edges of the stiles and rails. Securing the face sheet continuously on four sides without troublesome screw-applied capping is only possible with mitered corner joinery. Of course, it's definitely more difficult to manufacture doors this way, so other door makers don't do it. But the fact that it results in a more durable door is all the reason we need.

Standard and optional internal reinforcements provide secure attachment for the exact hardware specified. We can supply doors with hardware installed, or prepped for field installation of hardware.





At the core of our door's durability is our door's core

The poured-in-place urethane core of our SL-16 Aluminum Flush Door is not just a passive filler—it's a functional component that contributes significantly to the durability of Special-Lite doors. After the door has been completely assembled, the core material is injected using our proprietary foam injection technology, ensuring a complete fill with a minimum five pounds per cubic foot density. This strong, lightweight, structural urethane foam bonds firmly to the rails, stiles, reinforcements and face sheets to transform the door into a solid, completely sealed unit with incredible flexural strength. Our urethane foam won't absorb or be damaged by water.

- Mitered corner joints secured by angle blocks
- Full-width $\frac{3}{8}$ " galvanized steel tie rods
- Poured-in-place urethane core
- Face sheets secured by integral reglets on stiles and rails
- .062" thick 5005 aluminum alloy face sheets
- Aluminum alloy stiles and rails



Sustainable by design— for better quality of life

GREENGUARD Certified for better indoor air quality

Exterior doors may not be the first thing you think of with respect to indoor air quality (IAQ), but the fact is that one side of every exterior door is inside, and can impact IAQ. In addition, the corrosion resistance and durability of our doors make them ideal in pool areas, locker rooms, and showers, which are clearly interior locations.

Special-Lite's Flush Doors were the first doors of any kind to be GREENGUARD Indoor Air Quality Certified®, including the stringent GREENGUARD Children & Schools standard. GREENGUARD Certification provides independent assurance of IAQ performance.

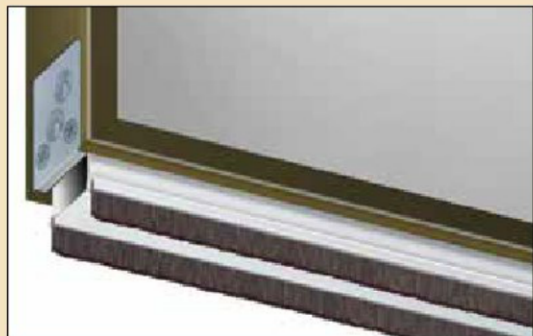


Excellent corrosion resistance makes doors last longer

Special-Lite Aluminum Flush Doors provide corrosion resistance that's superior to hollow stainless or galvanized steel. Not only do the aluminum face sheets and 6063-T6 aluminum alloy stiles and rails offer excellent corrosion resistance on the exterior of the door, the foam core locks out water and all corrosive materials so corrosion cannot start from inside the door either.

All extrusions are 100% reprocessed aluminum

We source aluminum extrusions made from prime-equivalent billet produced from 100% reprocessed 6063-T6 alloy recovered from industrial processes. These extrusions are equal in all respects to those made from virgin material while using only 5% of the energy necessary to produce virgin aluminum.



Adjustable bottom brush reduces energy usage

Our patent-pending SL-301 Adjustable Bottom Brush can be specified to compensate for out-of-level or out-of-position floors in new construction as well as normal settling of older buildings to reduce air infiltration and energy loss under the door bottom.

Add your own finishing touches

We offer a wide variety of color choices for our entrance products. Choose from our standard clear, dark bronze, or black anodized colors, or optional champagne, light bronze, and medium bronze. We also offer 20 established Kynar® 500 paint colors, or we can match any custom color. All of the same finish choices are available in our framing and panel products so you can design a perfectly color-matched entrance.

Add flair and functionality

Our vision lites, aluminum panels, pulls, push bars, louvers, screens, grates and removable mullions are specifically designed to complement the performance and good looks of our door and framing products. Manufactured to the same high quality standards as all of our products, they enhance the functionality, security, safety and appearance of your Special-Lite entrance.

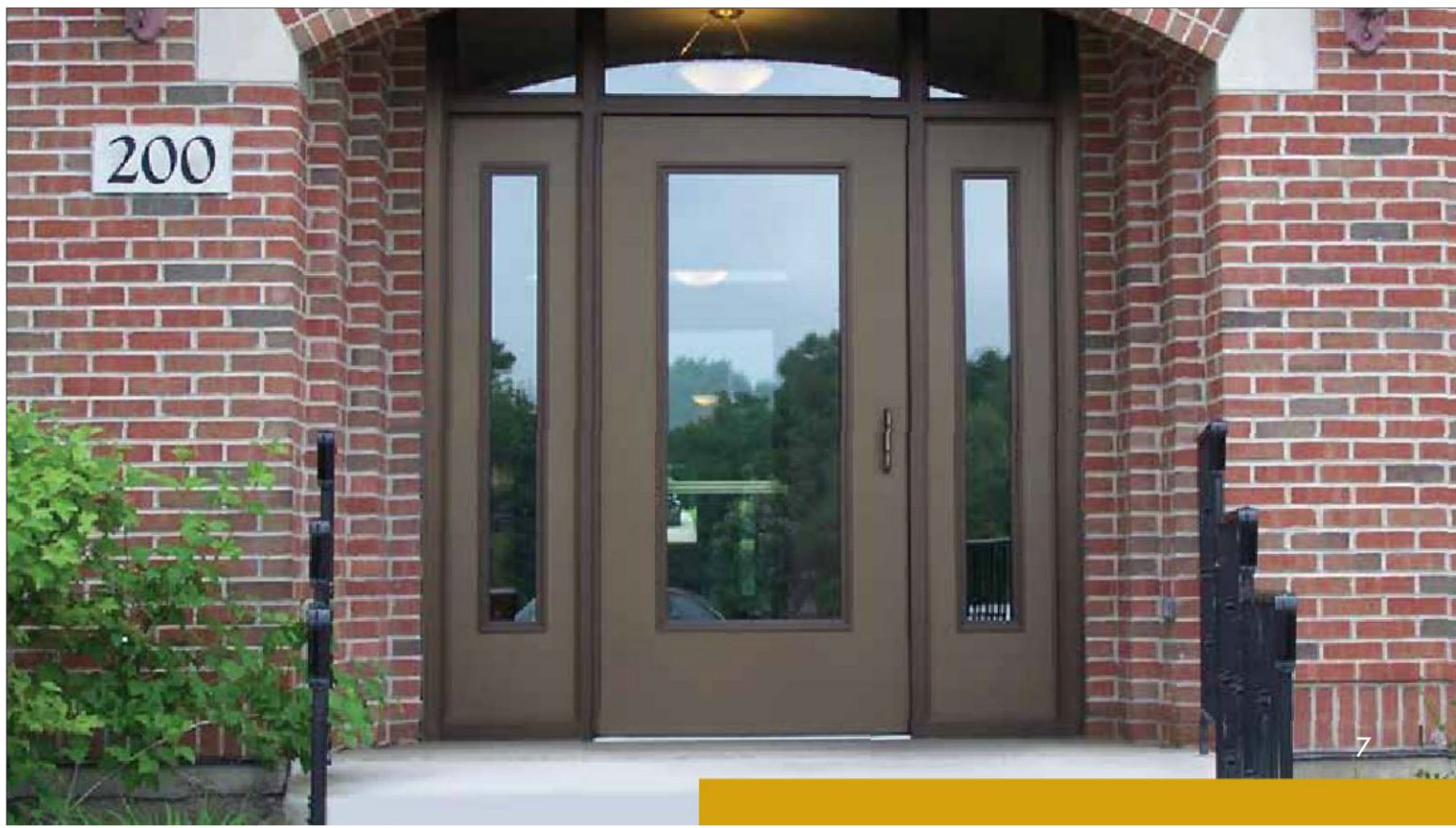


Special-Lite® Vision Lites may be specified with ¼", ½", or 1" glazing. Aluminum surface-applied muntins in ½" and 1¼" widths are also available, allowing you to create just the look you want. Custom vision lites may be specified in any size or configuration, subject to the following guidelines:

- Consult the factory when total vision lite area exceeds 50% of the foam area.
- To avoid hardware conflicts, vision lites should be located at least 8" from the top, 12" from the bottom and 7" from the sides of the door.

Louvers installed in doors are subject to the size and position guidelines that apply to vision lites. Insect screens are an available option and must be specified. Louvers are also available for transom and side lite applications. Special-Lite manufactures a selection of removable mullions, push bars and pulls, designed to improve entrance safety and security. Security grates can protect lites in extreme environments, while our vandal screens protect against casual abuse. Additional information can be found in our Hardware & Lites brochure.

Kynar 500® is a registered trademark of Arkema Inc.



Simplify your life

with entrance solutions from Special-Lite

A complete entrance from a single source

Special-Lite can supply a complete entrance solution — doors, frames, hardware, and panels. Enjoy the convenience, reliability and performance advantages of having a complete, ready-to-install entrance supplied by a single source, delivered to the job site in a single, on-time shipment. Single-sourcing ensures proper door and frame fit, correct hardware operation, exact finish match, and longer entrance life. We can even ship doors with hardware and glazing installed, significantly reducing expensive job site labor and installation time, and preventing last-minute problems.



Simplify field installation with factory-applied hardware

Glass can be factory-installed or installed in the field. Rectangular vision lites are furnished with aluminum glass stops. Curved lites are typically glazed with black EPDM gasket, but may be available with aluminum glass stops. Consult the factory for details.

A warranty that really works

We stand behind all of our products with a 10-year, 100% parts and labor warranty. Plus, we offer an additional limited lifetime warranty on our flush door models. Ask your sales representative for a copy of our warranty statement, and compare it to what other supplier warranties actually cover after all of their exclusions and limitations. You'll see that when you specify Special-Lite, you're really covered.



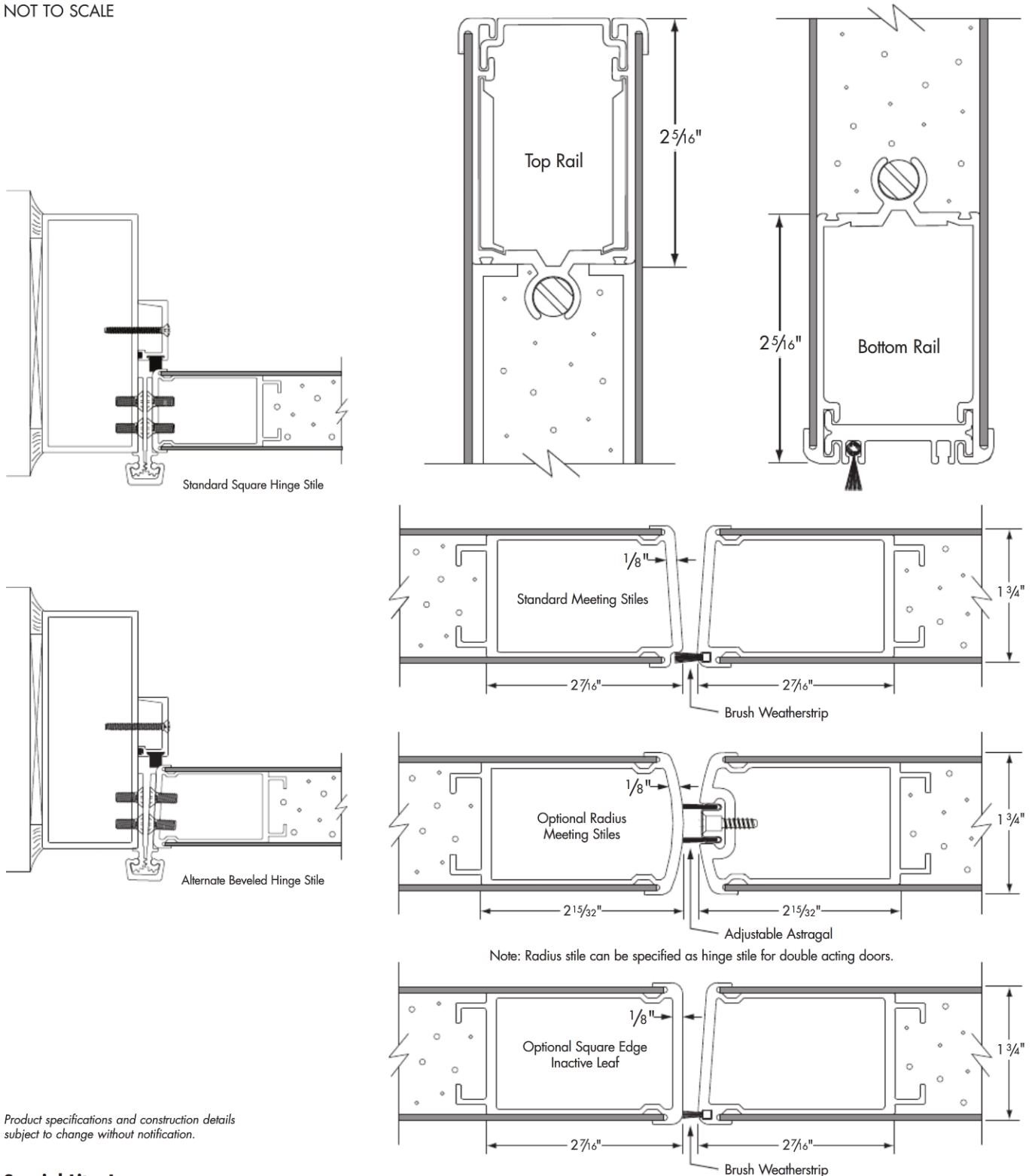
Special-Lite, Inc.

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Ph: 800.821.6531 • Fx: 800.423.7610 • www.speciallite.com

Item #1111-R2
15M 12/11 IW

Aluminum Flush Door Detail

NOT TO SCALE



Product specifications and construction details
subject to change without notification.

Special-Lite, Inc.

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Item #7203-R3

10M 11/12 JBP

Introducing
NuPLANK® Doors



A new approach to plank door construction combining the aesthetics of an aluminum plank door with the benefits of efficient design

NuPLANK® Aluminum Plank Doors

Better By Design

NuPlank® Doors take plank door aesthetics and performance to a whole new level. With an updated and simplified design, the NuPlank door offers reduced weight, improved appearance, robust construction, and the promise of greater durability even in hard-use applications.

Starting with a “blank page” approach, the aluminum plank-type door was re-envisioned and revamped both in its design and construction. Everything was re-examined. Material was added where it was needed, and removed where it was not. The result is a simpler design that requires less material, but still provides improved structural integrity. In fact, a 3' x 7' NuPlank Door weighs twenty percent less than the most popular plank door of the same size.





Traditional Plank Door Aesthetics

For those who prefer the aesthetics of an all-aluminum plank-style door, **NuPlank®** Doors are an ideal choice. Every door is custom fabricated to order and can be specified in anodized finishes or any Kynar® paint color. Any hardware suitable for a 1 3/4" thick door can be factory applied on the **NuPlank** Door.

NuPlank Door Features:

- Constructed of 1 3/4" thick x 5" wide tubular aluminum stile extrusions with fluted face texture
- All extrusions are 6063-T5 aluminum alloy
- Lock stile tube is deep enough to accept mortise hardware
- Anodized finishes are Class I (0.7 mil) as standard
- Kynar® paint colors available to match any color preference
- Matching vision lite kits for 1/4" or 1" glazing
- Available in singles or pairs with a maximum door size of 80" x 240"

Enhanced Structural Features

- Simplified and optimized aluminum extrusion profiles to conserve material and reduce total door weight
- A minimum of three full-width 3/8" (9.5mm) diameter galvanized steel tie rods per door for durability
- Tighter clearances on tie rod through-holes in all tubes to increase resistance to door sagging
- Center tie rod secured in lock stile with rivet nut to eliminate access holes and unsightly, troublesome cover caps
- .125" thick top and bottom trim caps are secured by screws into splines inside the tubes to maintain plank alignment
- Lock stiles are .125" typical wall thickness
- Hinge stiles are .125" web wall thickness with .105" face wall thickness
- Intermediate tube face wall thickness is .105"
- Additional .125" thick closer reinforcement on both sides of door

Specify NuPlank Doors for these applications:

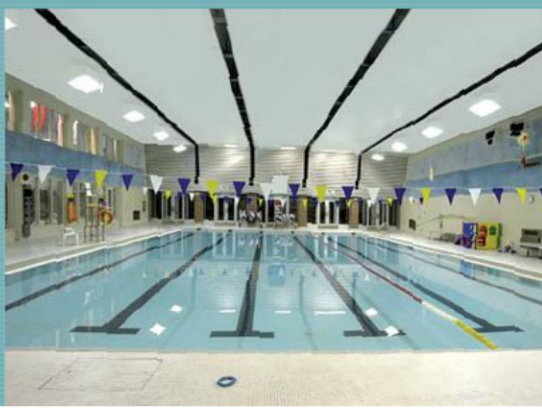
Corrosive environments

- Aquatic centers
- Chemical plants
- Industrial facilities
- Water and wastewater treatment plants

Heavy traffic

- Schools and universities
- Commercial buildings
- Churches

Kynar® is a registered trademark of ATOFINA Chemicals Inc.





NuPLANK® Aluminum Plank Doors

Vision Lite and Louver Options

Vision Lites and Louvers are available to complement the NuPlank® Door, and can be specified in any anodized or painted finish.

Vision Lites

Rectangular vision lites are available in 5" width increments only and must be at least 8" from top edge and 4" from bottom door edge. Vision lite kits are screw-applied and may be specified with either 1/4" tempered or 1" insulated glass.

Louvers

Louver units utilize an inverted "Y"-type fixed vane. For added security and aesthetics, vanes are secured by rivets around the outside of the frame, inaccessible and hidden from view. Louvers installed in doors are subject to the size and position guidelines that apply to vision lites. Insect screens are also available.

10-Year Warranty

NuPlank Doors are warranted for a full 10 years. Contact a sales representative for full warranty details.

Manufactured and Supported by Special-Lite, Inc.

After many requests from architects, end users, and customers to produce an all-aluminum plank-style door manufactured and supported by Special-Lite, we created NuPlank Doors. By taking a fresh approach to plank door design, we can offer an engineered solution with the level of support our customers expect.

Represented in your area by:

NuPLANK®

Aluminum Plank Doors

Special-Lite, Inc.

P.O. Box 6, Decatur, Michigan 49045

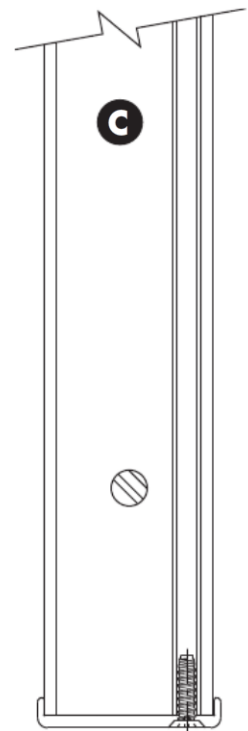
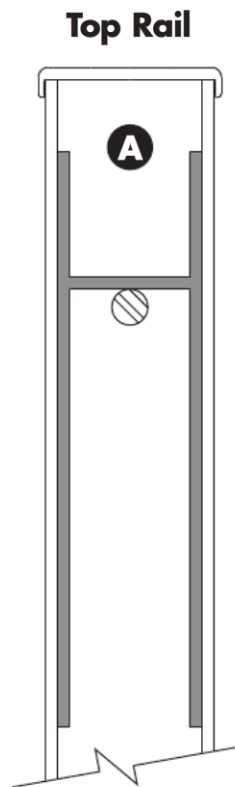
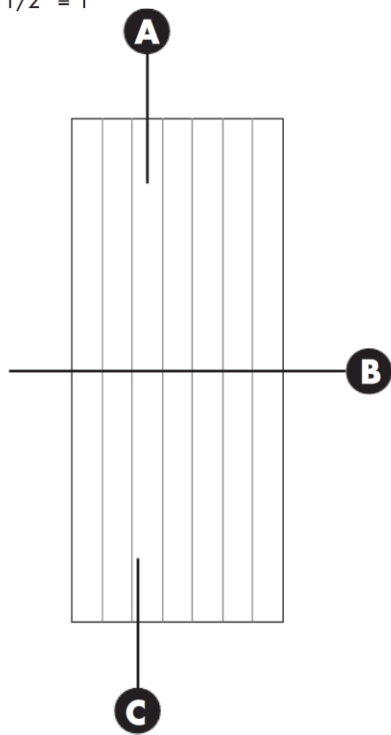
Ph: 800.821.6531 • Fax: 800.423.7610

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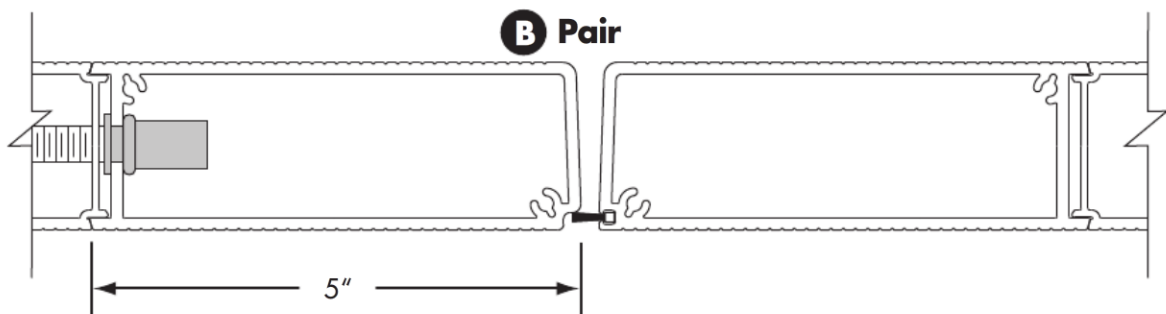
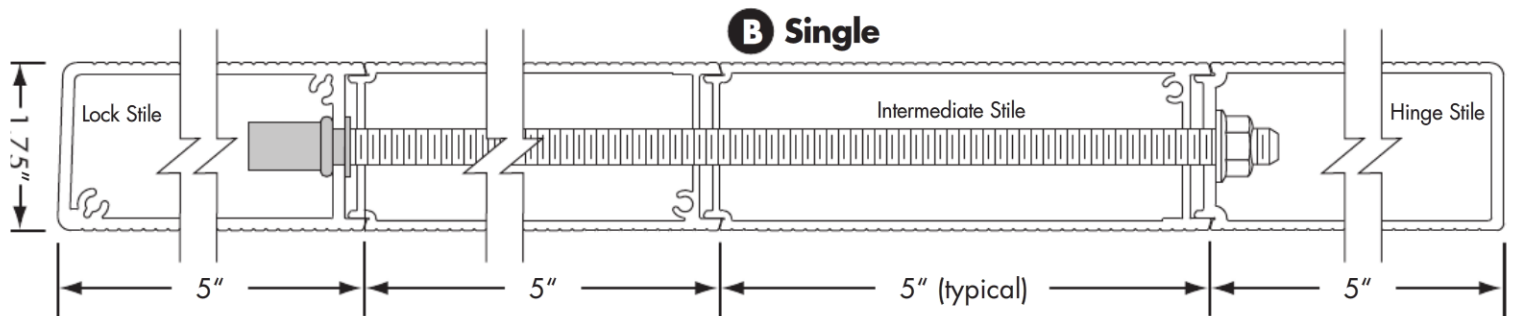
NuPLANK® Aluminum Plank Doors

Architectural Details

Scale: 1/2" = 1"



Bottom Rail



NuPlank Aluminum Doors*

Special-Lite

FRP/ALUMINUM HYBRID DOORS

FRP/Aluminum Hybrid Door

Special-Lite was the first to introduce the FRP/Aluminum Flush Door in 1981 – our SL-17

Special-Lite® SL-17 pebble grain doors were first designed to offer a solution to the school market by offering a door product that would have a long, maintenance-free life and dent/graffiti resistance for tough applications. It didn't take long for the SL-17 to be synonymous with School Door. Over the next 30+ years, with advancements in materials and technology, this door moved from schools to many other high abuse and heavy traffic locations.

Features & Benefits

- Manufactured with stiles and rails of extruded 6063-T6 aluminum alloy.
- Stiles and rails are joined with mitered corners and angle blocks secured by 3/8" diameter full-width galvanized steel tie rods.
- Standard and optional internal reinforcements provide secure attachment for the exact hardware specified.
- Face sheets are rabbeted and secured on all four sides by full-length integral reglets on the edges of the stiles and rails to form a truly flush door.
- SpecLite3® face sheets are .120" thick and provide scratch, scuff and fade resistance and will never rust, corrode, crack, split, peel or rot.
- Face sheets available in standard through-molded colors so scratches will not be obvious.
- Color match available in painted pebble grain sheet.
- Poured-in-place closed cell urethane core that is a minimum of 5 lb./cubic foot density.
- Doors can be supplied with hardware installed, reinforced only, or prepped for field installation of hardware.
- All anodized finishes are Class I (.7 mil).
- Unique configurations such as arched doors, odd sizes, unequal pairs, monorail cut-outs, dutch or bi-fold doors and custom lites are no problem.
- Thermal performance — minimum U-value/R-value = .29U/3.45R



At the Core of our Door's Strength is our Door's Core

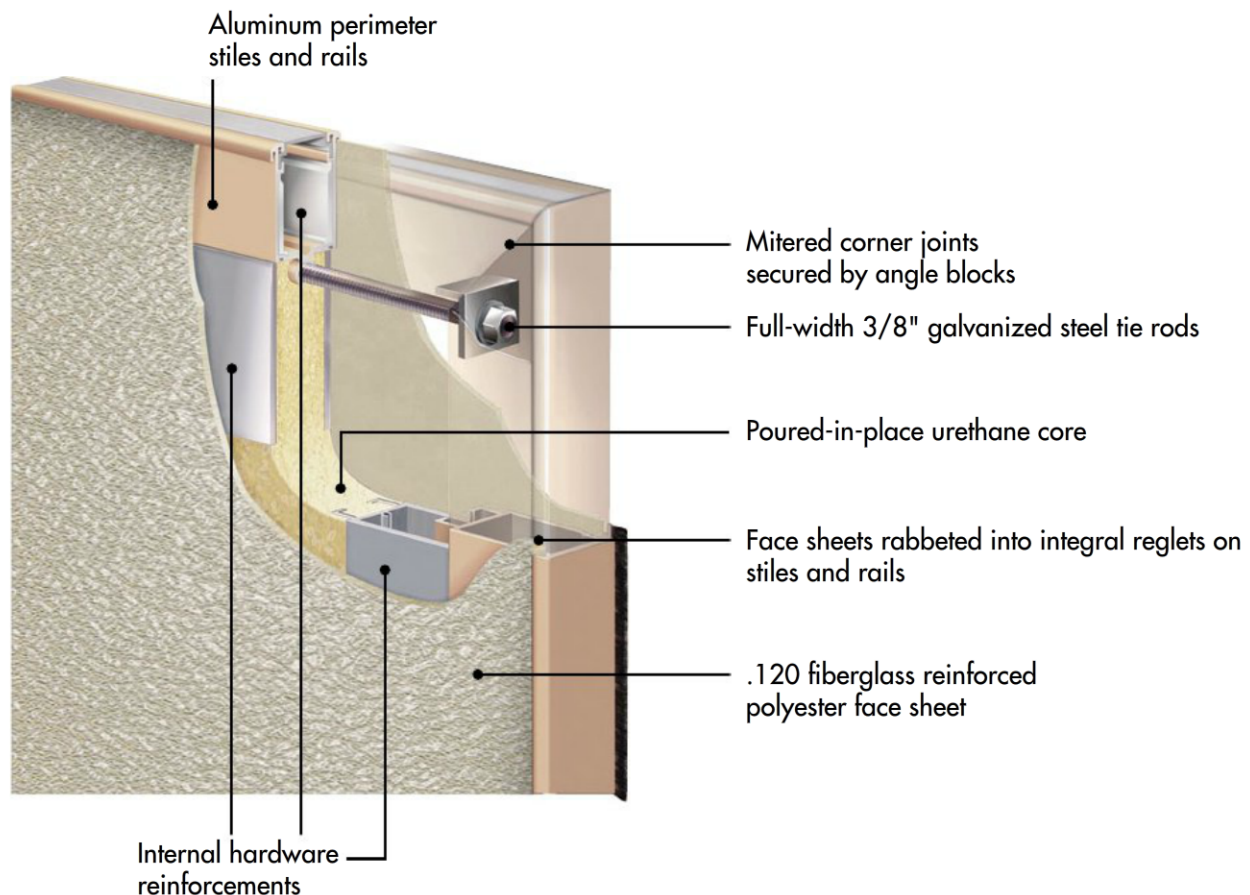
The poured-in-place urethane core of our SL-17 is not just a passive filler — it's a functional component that contributes significantly to the durability of Special-Lite® Doors. After the door has been completely assembled, the core material is injected using our proprietary foam injection technology, ensuring a complete fill with a minimum five pounds per cubic foot density.

This strong, lightweight, structural urethane foam bonds firmly to the rails, stiles, reinforcements and face sheets to transform the door into a solid, completely sealed unit with incredible impact resistance and flexural strength. Our urethane foam won't absorb or be damaged by water.

Building Applications

For problem entrances or challenging environments, you can't beat the super tough SL-17. It is the informed choice for K-12 schools, public buildings, sports complexes, water and wastewater treatment facilities, and other applications that quickly damage or even destroy lesser doors.

SL-17 Door Construction



FRP/Aluminum Hybrid Door

Classic 6-Panel Doors Designed to Meet the Aesthetic Considerations of Georgian & Colonial Style Architecture

Special-Lite® SL-18 Colonial Wood Grain Doors combine traditional styling with the advantages of modern engineering and materials to deliver high performance and long life. They feature a remarkable fiberglass face sheet material that offers the attractive appearance of wood, with all the advantages of fiberglass.

Features & Benefits

Aluminum chassis with proven flexural strength

- Manufactured with stiles and rails of extruded 6063-T6 aluminum alloy.
- Stiles and rails are joined with mitered corners and angle blocks secured by 3/8" diameter full-width galvanized steel tie rods.
- All anodized finishes are Class I (.7 mil).
- Standard and optional internal reinforcements provide secure attachment for the exact hardware specified.

Fiberglass wood grain face sheet

- Face sheets are rabbeted and secured on all four sides by full-length integral reglets on the edges of the stiles and rails to form a truly flush door.
- SL-18 AMP (acrylic modified polyester) face sheets are .120" thick, authentic ***oak species*** wood grain replication, similar to our SL-19 door. Unlike wood doors, the fiberglass will never warp, split, peel or rot.
- You can achieve the rich look of real stained wood with our selection of six natural wood stain colors, painted to match any of our available Kynar 500®, or any painted color*.
- Any size up to 48" wide x 96" tall.

Core has great thermal performance

- Poured-in-place closed cell urethane core that is a minimum of 5 lb./cubic foot density.

Unlimited customization

- Doors can be supplied with hardware installed, reinforced only, or prepped for field installation of hardware.
- Unique configurations such as arched doors, odd sizes, unequal pairs and custom lites are no problem.



**See website product pages for color selections available. Colors are subject to change without notice.*



Wood Grain FRP Accurately Captures the Natural Grain Characteristics

Beautiful look of natural oak wood manufactured into a long lasting, low maintenance fiberglass door. The fiberglass surface offers a degree of resistance to stains, scuffs and impacts that would easily damage wood. It's also resistant to the elements and corrosive environments – even coastal salt spray – and offers excellent cleanability.

At the Core of our Door's Strength is our Door's Core

The poured-in-place urethane core of our SL-18 is not just a passive filler — it's a functional component that contributes significantly to the durability of Special-Lite® Doors. After the door has been completely assembled, the core material is injected using our proprietary foam injection technology, ensuring a complete fill with a minimum five pounds per cubic foot density. This strong, lightweight, structural urethane foam bonds firmly to the rails, stiles, reinforcements and face sheets to transform the door into a solid, completely sealed unit with incredible impact resistance and flexural strength. Our urethane foam won't absorb or be damaged by water, and offers great thermal properties.

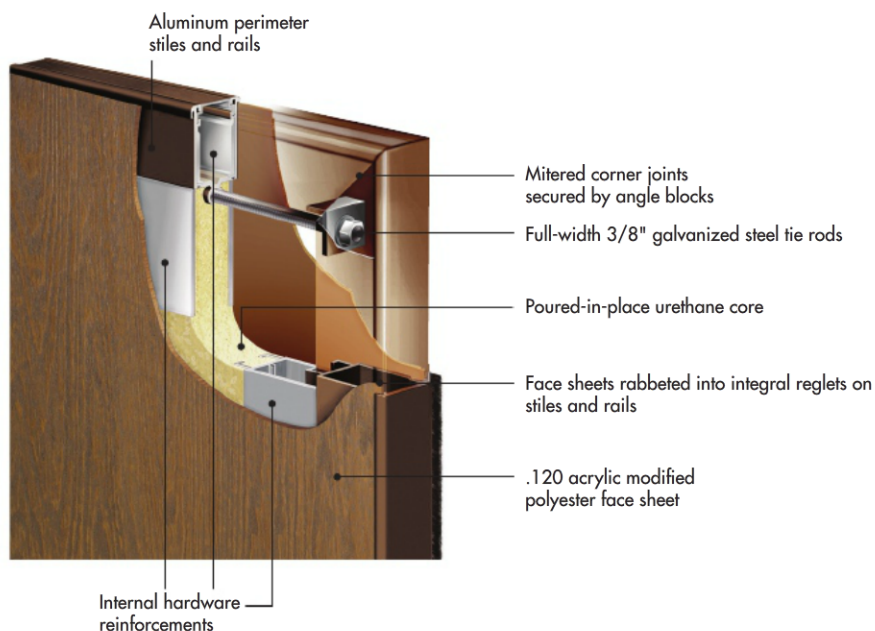
Building Applications

Whether for new construction or historic preservation projects, an investment in AMP colonial doors will pay dividends in attractiveness and durability for years to come. They are durable enough for even high traffic entrances in education, religious, retail and municipal facilities that call for the classic appearance of a wood door.

Color Selections

The FRP/Aluminum Hybrid Doors have two color decisions that must be made: aluminum chassis and face sheet. Aluminum chassis can be anodized or painted. Face sheets can be stained in a natural wood look, or they can be painted. See color chips, available from the online shopping cart, for final color decision.

SL-18 Door Construction



FRP/Aluminum Hybrid Door

Choose between a rustic or contemporary style fiberglass wood grain flush door

Both the Special-Lite® SL-19 Rustic Wood Grain Door and the SL-19-1 Contemporary Wood Grain Door offer the attractive appearance of wood, with all the advantages of fiberglass. Unlike wood doors, the fiberglass will never warp, split, peel or rot.

Features & Benefits

Aluminum chassis with proven flexural strength

- Manufactured with stiles and rails of extruded 6063-T6 aluminum alloy.
- Stiles and rails are joined with mitered corners and angle blocks secured by 3/8" diameter full-width galvanized steel tie rods.
- All anodized finishes are Class I (.7 mil).
- Standard and optional internal reinforcements provide secure attachment for the exact hardware specified.

Fiberglass wood grain face sheet

- Face sheets are rabbeted and secured on all four sides by full-length integral reglets on the edges of the stiles and rails to form a truly flush door.
- SL-19 AMP (acrylic modified polyester) face sheets are .120" thick, authentic **oak species** wood grain replication. Achieve the rich look of real stained wood with our selection of six natural wood stain colors, or painted any color*. The max door size is 48" wide x 96" tall.
- SL19-1 face sheets are .120" thick Class A, authentic **cherry species** wood grain replication. Available in four standard stain colors, or painted any color. The max door size is 42" wide x 100" tall.

Core has great thermal performance

- Poured-in-place closed cell urethane core that is a minimum of 5 lb./cubic foot density.

Unlimited customization

- Doors can be supplied with hardware installed, reinforced only, or prepped for field installation of hardware.
- Unique configurations such as arched doors, odd sizes, unequal pairs and custom lites are no problem.



*See website product pages for color selections available. Colors are subject to change without notice.



SL-19 face sheet*
(rustic)



SL-19-1 face sheet*
(contemporary)



Wood Grain FRP Accurately Captures the Natural Grain Characteristics

Beautiful look of natural wood manufactured into a long lasting, low maintenance fiberglass door. It can be specified with custom vision lites to create just the functionality and style desired. The fiberglass surface offers a degree of resistance to stains, scuffs and impacts that would easily damage wood. It's also resistant to the elements and corrosive environments – even coastal salt spray – and offers excellent cleanability.

At the Core of our Door's Strength is our Door's Core

The poured-in-place urethane core of our fiberglass wood grain doors is not just a passive filler — it's a functional component that contributes significantly to the durability of Special-Lite® Doors. After the door has been completely assembled, the core material is injected using our proprietary foam injection technology, ensuring a complete fill with a minimum five pounds per cubic foot density. This strong, lightweight, structural urethane foam bonds firmly to the rails, stiles, reinforcements and face sheets to transform the door into a solid, completely sealed unit with incredible impact resistance and flexural strength. Our urethane foam won't absorb or be damaged by water, and offers great thermal properties.

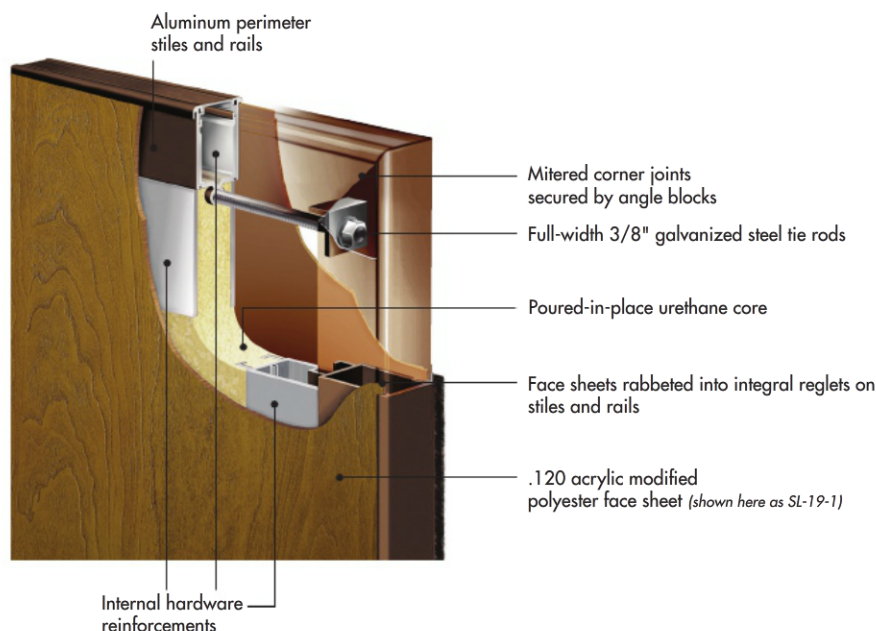
Building Applications

Durable enough for high traffic entrances in education, religious, restaurants, retail, health and municipal facilities that call for the classic appearance of a wood door.

Color Selections

The FRP/Aluminum Hybrid Doors have two color decisions that must be made: aluminum chassis and face sheet. Aluminum chassis can be anodized or painted. Face sheets can be stained in a natural wood look (SL-19 and SL-19-1 have different standard stain colors), or they can be painted. If a painted wood door is desired, the SL-19 has a deeper, more pronounced grain; the SL-19-1 has a smoother, wood grain appearance. See color chips, available from the online shopping cart, for final color decision.

SL-19 & SL-19-1 Door Construction



FRP/Aluminum Hybrid Door

The SL-20 is constructed as tough as the SL-17, but with a softer, smoother appearance

The Special-Lite® SL-20 FRP/Aluminum Hybrid Door is strong, yet aesthetically-pleasing with its exclusive, exterior-grade sandstone-textured FRP surface finish. Tough enough for all your high traffic exterior entrance locations, but also attractive enough to complement indoor spaces. The SL-20 has the same durable construction as the SL-17 for long life and low maintenance and is available in many prominent architectural through-colors.

Features & Benefits

- Manufactured with stiles and rails of extruded 6063-T6 aluminum alloy.
- Stiles and rails are joined with mitered corners and angle blocks secured by 3/8" diameter full-width galvanized steel tie rods.
- Standard and optional internal reinforcements provide secure attachment for the exact hardware specified.
- Face sheets are rabbeted and secured on all four sides by full-length integral reglets on the edges of the stiles and rails to form a truly flush door.
- Face sheets are .120" thick sandstone-textured FRP and will never rust, corrode, crack, split, peel or rot.
- Face sheets available in standard through-molded colors so scratches will not be obvious (max size = 4' x 8').
- Color match available in painted sandstone-texture sheet.
- Poured-in-place closed cell urethane core that is a minimum of 5 lb./cubic foot density.
- Doors can be supplied with hardware installed, reinforced only, or prepped for field installation of hardware.
- All anodized finishes are Class I (.7 mil).
- Unique configurations such as arched doors, odd sizes, unequal pairs, dutch or bi-fold doors and custom lites are no problem.
- Thermal performance — minimum U-value/R-value = .29U/3.45Rp



At the Core of our Door's Strength is our Door's Core

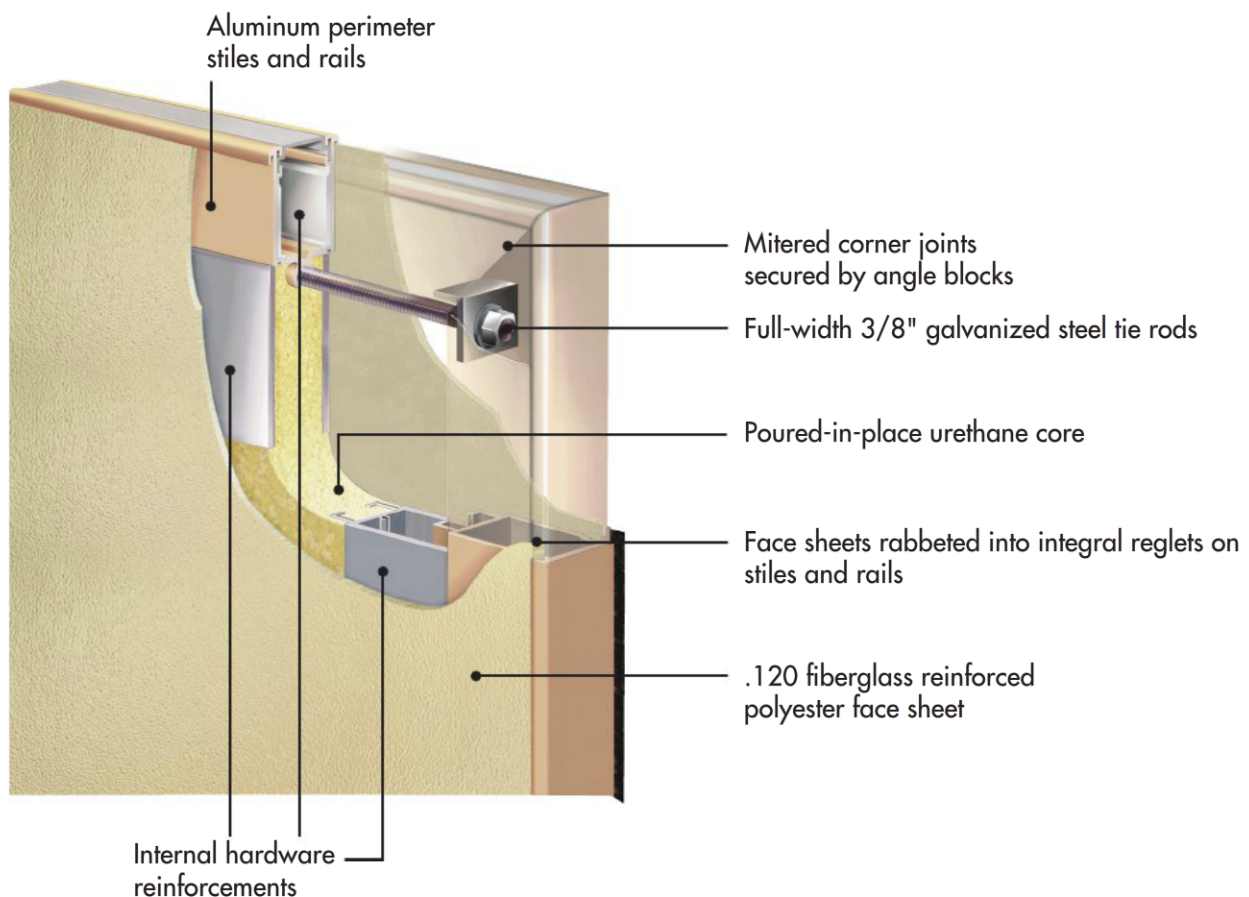
The poured-in-place urethane core of our SL-20 is not just a passive filler — it's a functional component that contributes significantly to the durability of Special-Lite® Doors. After the door has been completely assembled, the core material is injected using our proprietary foam injection technology, ensuring a complete fill with a minimum five pounds per cubic foot density.

This strong, lightweight, structural urethane foam bonds firmly to the rails, stiles, reinforcements and face sheets to transform the door into a solid, completely sealed unit with incredible impact resistance and flexural strength. Our urethane foam won't absorb or be damaged by water.

Building Applications

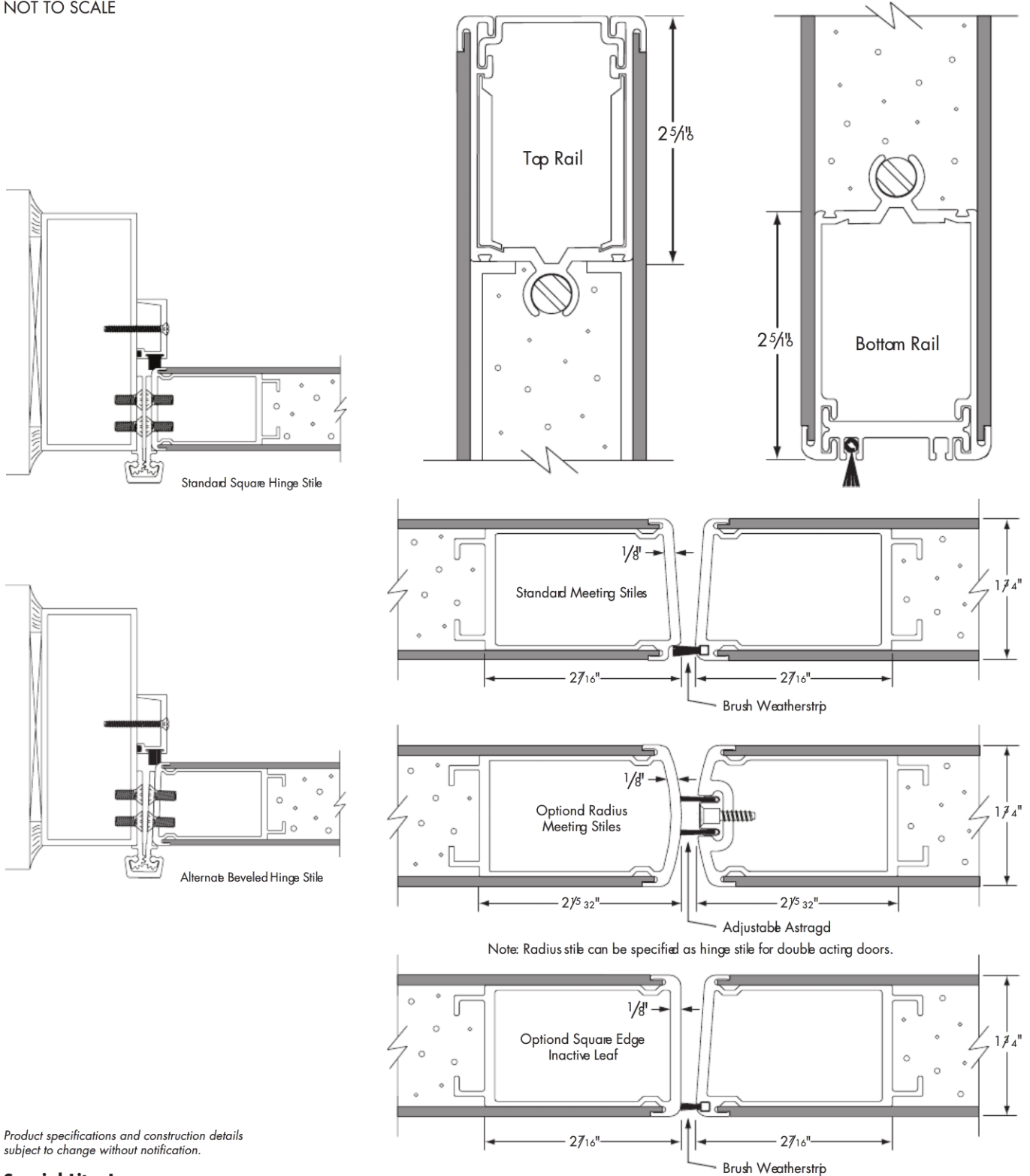
The SL-20 features an aesthetically-pleasing, fine-grained surface finish. This door withstands high traffic, improves security and increases energy savings. Building types include: public buildings, schools, universities, dorm rooms, government, restaurants, hotels, healthcare, fitness and sports buildings.

SL-20 Door Construction



FRP/Aluminum Hybrid Door Detail

NOT TO SCALE



Product specifications and construction details
subject to change without notification.

Special-Lite, Inc.

P.O. Box 6, Decatur, MI 49045

Ph: 800.821.6531 • Fx: 800.423.7610 • special-lite.com

Item #7204-R4

11/16 PDF

Special-Lite

ALL-FIBERGLASS DOORS

All-Fiberglass Flush Doors

All-Fiberglass Pultruded Flush Doors and Frames Provide the Ultimate in Performance

The AF-100 Door is the only door manufactured using the pultrusion process in an industry-exclusive technique originally pioneered by Universal Pultrusions, LLC. This process produces an all-fiberglass, corrosion resistant, smooth-faced door with incredible strength and is fully sealed for easy cleaning.

Features & Benefits

- 6 lb./cubic foot closed-cell polyurethane core wrapped in 4 layers of glass fiber reinforcements and resin encapsulated to 1/8" thickness at door face for excellent impact resistance.
- Stile edges are 9/16" thick solid FRP to provide maximum screw holding ability.
- Top rail is 6" deep with 1/4" wall thickness to provide ample reinforcement for closer attachments.
- Standard mortise bottom rail allows for field trimming of door; optional flush bottom rail facilitates cleaning and sterilization.
- Standard door opening widths are 32", 36", 42" and 48"; custom widths up to 5' are also available. Doors in standard widths are available up to 22' tall.
- Completely sealed door panel is easy to clean and sterilize.
- Choice of 10 standard high-gloss colors, or custom colors, or primer only. Finish is two-part aliphatic polyurethane coating that is FDA and USDA-compliant.
- Doors and frames are dimensionally and aesthetically equivalent to hollow metal products, but offer superior performance, durability and longevity.



Hardware Compatibility:

Compatible with most standard industry hardware, with exceptions noted below.
Pultruded fiberglass centerposts, mullions and thresholds are also available.

Hardware Limitations:

- SL-301 Adjustable Bottom Brush not compatible (contact Special-Lite for other options)

Standard Fiberglass Lite Kit Sizes

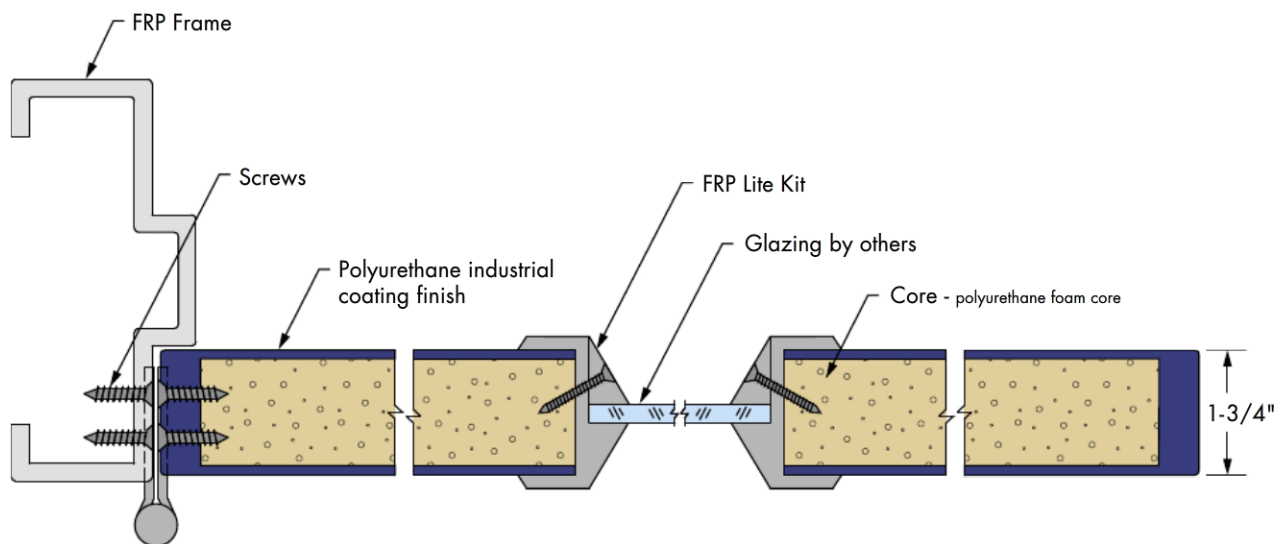
- Narrow Lite
- Half Lite
- Full Lite
- Available in custom sizes

All-Fiberglass FRP Door & Frame Models

Door Model	Face Sheet
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AF-100	Smooth
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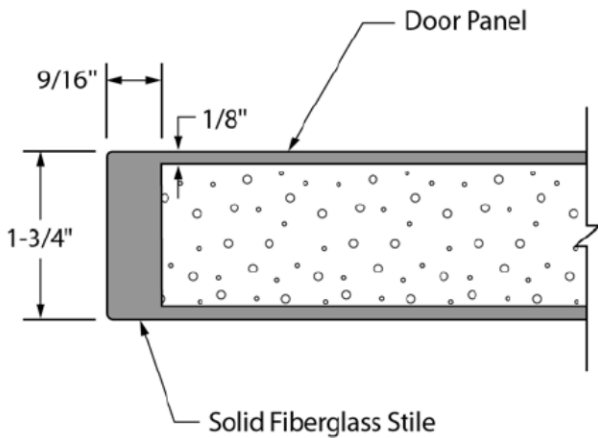
Frame Model	Depth	Face	Head
AF-150 Pultruded Framing	5-3/4", 6-3/4", 7-3/4", 8-3/4", 4-1/2" - 12" (adjustable)	2"	2" or 4"
AF-250 Pultruded Framing	5-3/4" (K.D. immediate door frame only)	2"	2" or 4"



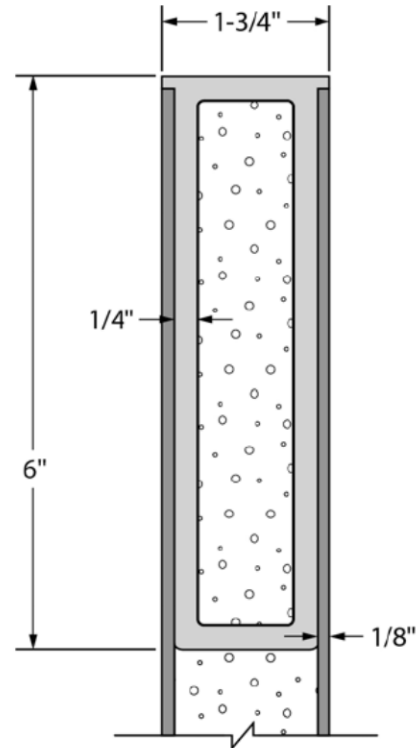
AF-100 Door & AF-150 Frame

All-Fiberglass Pultruded Door Detail

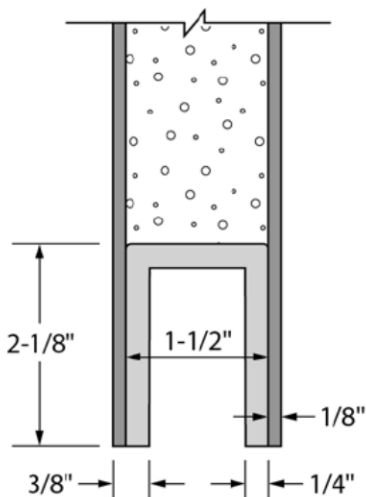
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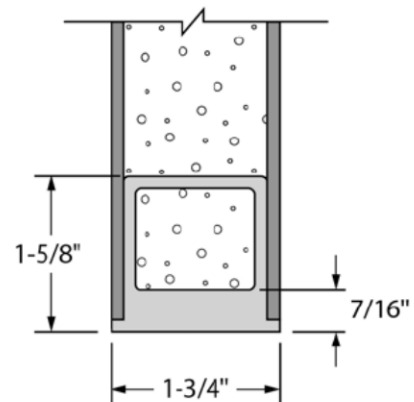
Door Stile Edges



Top Rail



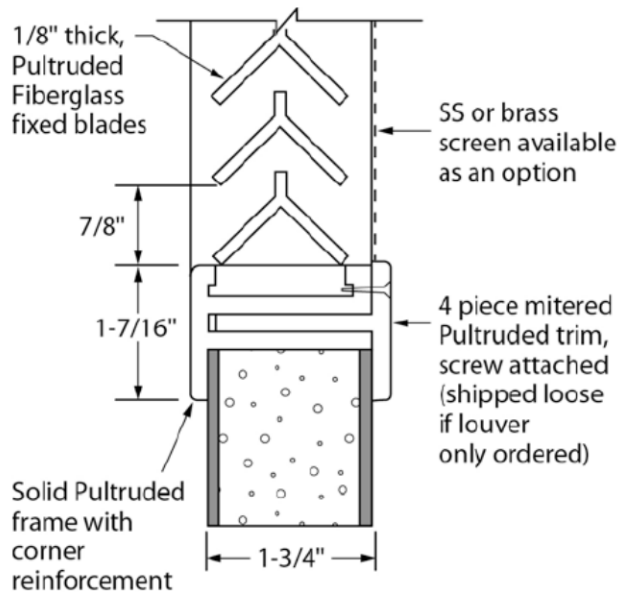
Standard Bottom Rail



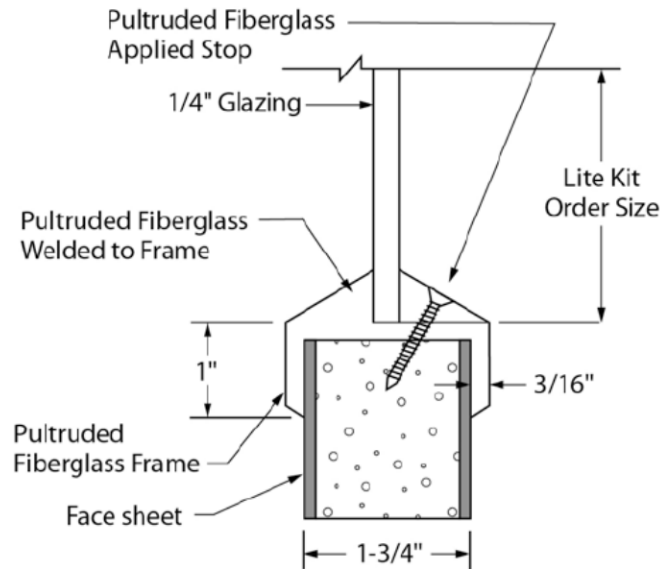
Optional Flush Bottom Rail

All-Fiberglass Pultruded Door Detail

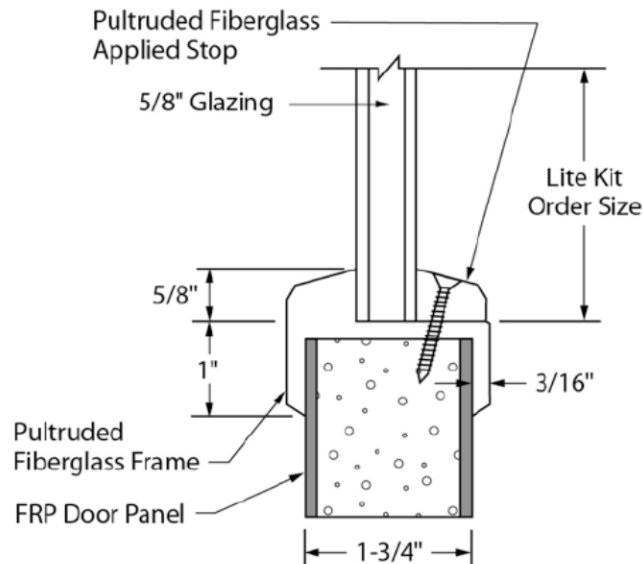
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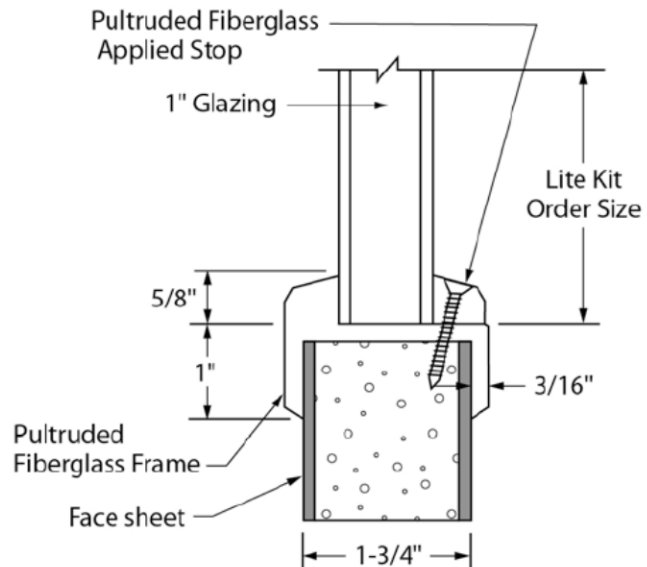
AF Fixed Louver Kit



1/4" AF Vision Lite Kit



5/8" AF Vision Lite Kit



1" AF Vision Lite Kit

All-Fiberglass Flush Doors

All-Fiberglass Composite Doors offer a lightweight, economical solution for demanding environments

Special-Lite® All-Fiberglass Composite Flush Doors include four models that are constructed with pultruded FRP stiles and rails, and factory bonded face sheets for durability. All models are identical with the exception of the FRP face sheet texture: AF-200 smooth, AF-217 pebble grain, AF-220 sandstone-textured, and coming soon - a wood grain option.

Install this door in a Special-Lite FRP Frame for a long lasting, easy to clean interior or exterior entrance. Our all-fiberglass constructed doors and frames cannot corrode, rust or rot, even in the most demanding environments.

Features & Benefits

- Pultruded FRP stile and rail construction with mitered, bracketed corners and factory bonded face sheets for durability.
- Choice of smooth, pebble grain and sandstone-textured. A wood grain FRP face sheet is coming soon. Door edges and FRP lite kits are painted to match face sheet color. Class A face sheets are available. Contact Special-Lite for details.
- Choice of three core materials: 6 lb./cu.ft. urethane, 2 lb./cu.ft. EPS (expanded polystyrene), or polypropylene honeycomb.
- Solid polymer blocking at lock and closer locations provides secure hardware attachment.
- Pultruded fiberglass lite kits in custom sizes for 1/4", 5/8", or 1" glazing provide functionality and design flexibility. Fiberglass kits may be one-piece or clam shell design depending on paint application. Aluminum or EPDM lite kits are an option.
- Fiberglass louvers for use in doors or walls available. Aluminum louver is an option.
- Variety of colors available in AF-217 & AF-220 UV-stabilized through-colored FRP face sheets. All models available in custom finishes. Contact Special-Lite for details.
- Available in singles or pairs up to 4' x 8' maximum net size per leaf to suit a majority of openings.
- Florida Building Code approved for use outside HVHZ.



Hardware Compatibility:

Compatible with most standard industry hardware, with exceptions noted below. Pultruded fiberglass centerposts, mullions and thresholds are also available.

Hardware Limitations:

- No concealed hardware, except flush bolts
- No adjustable or automatic door bottoms
- No more than 50% of face area cutout for vision lites or louvers

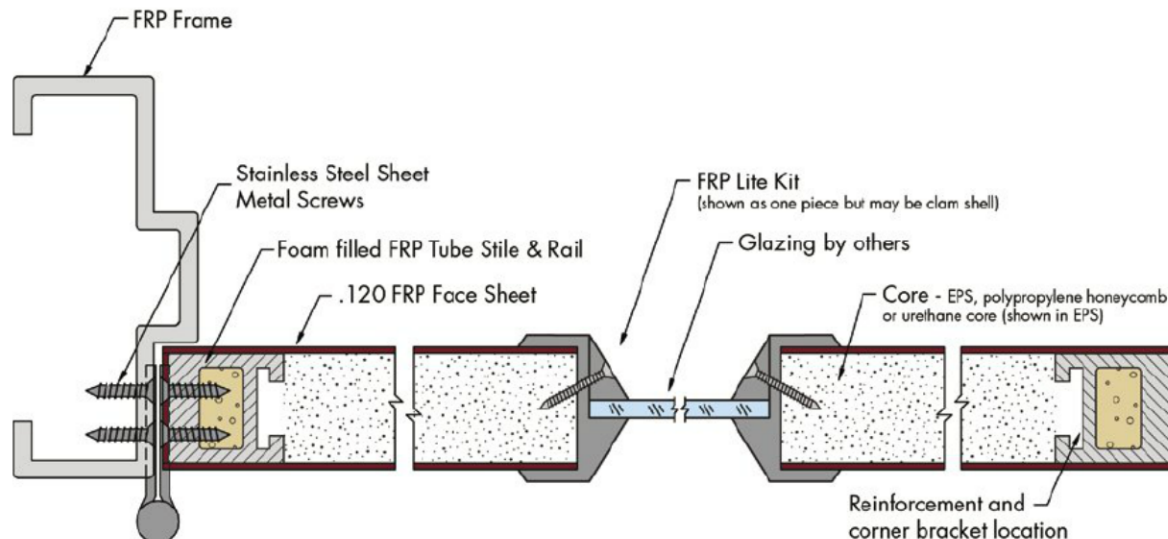


All-Fiberglass Flush Doors are FDA/USDA compliant

FRP Door & Frame Models

Door Model	Face Sheet
AF-200	Smooth FRP
AF-217	Pebble Grain FRP
AF-220	Sandstone-Textured FRP
Coming Soon!	Wood Grain FRP

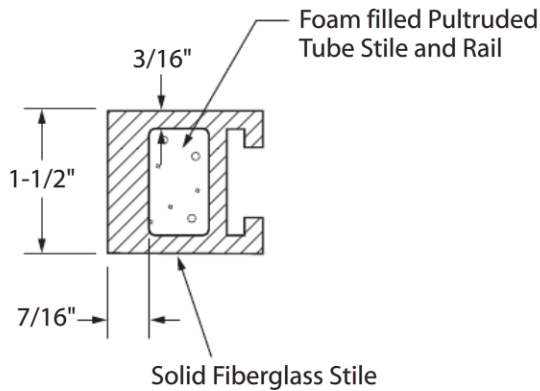
Frame Model	Depth	Face	Head
AF-250 Pultruded Framing	5-3/4" (K.D. immediate door frame only)	2"	2" or 4"
AF-150 Pultruded Framing	5-3/4", 6-3/4", 7-3/4", 8-3/4", 4-1/2" - 12" (adjustable)	2"	2" or 4"



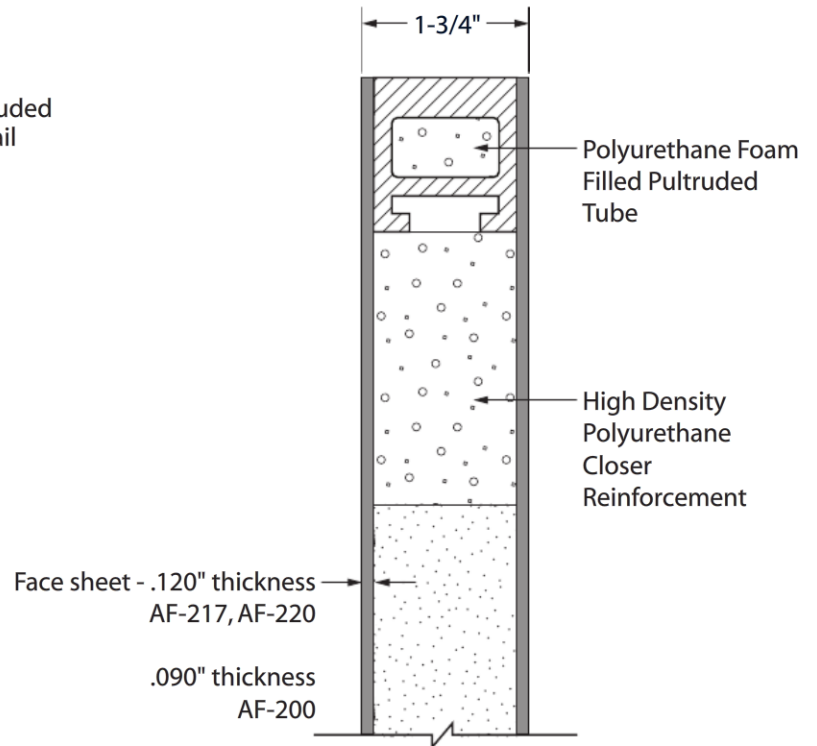
AF Composite Door & AF-250 Frame

All-Fiberglass Composite Door Detail

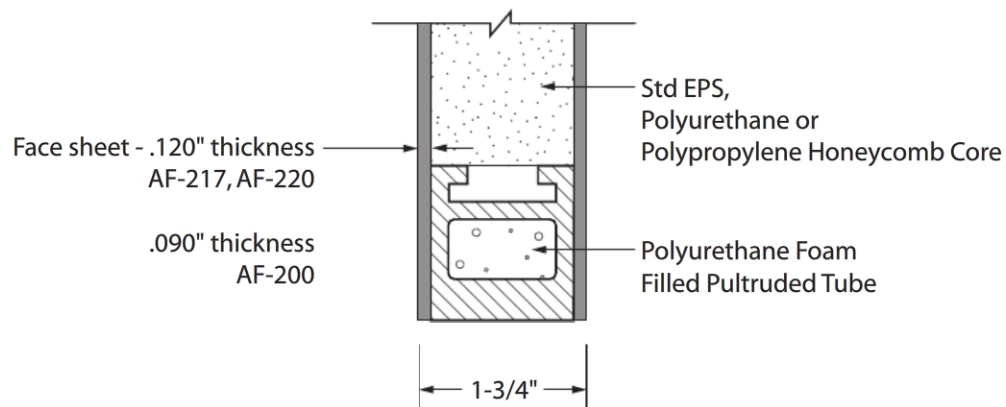
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Door Stile



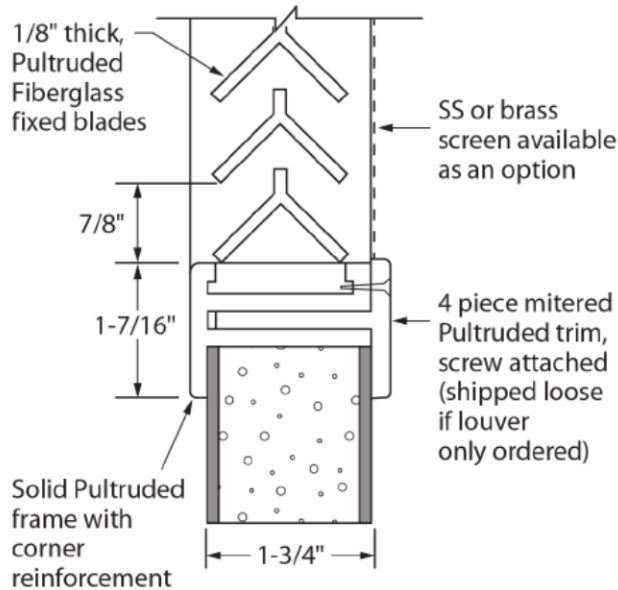
Top Rail



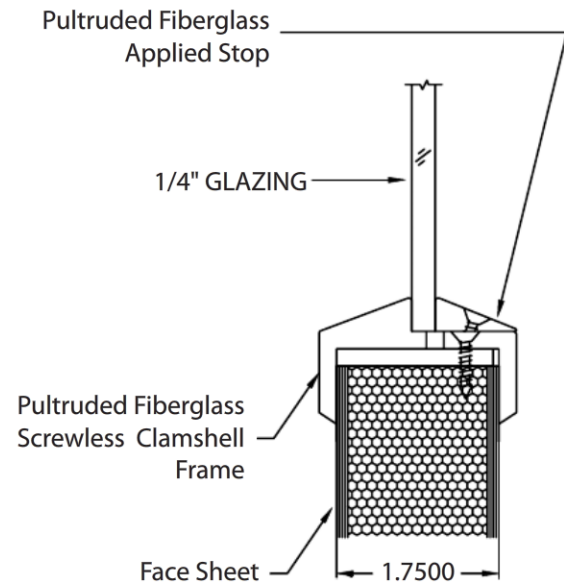
Flush Bottom Rail

All-Fiberglass Composite Door Detail

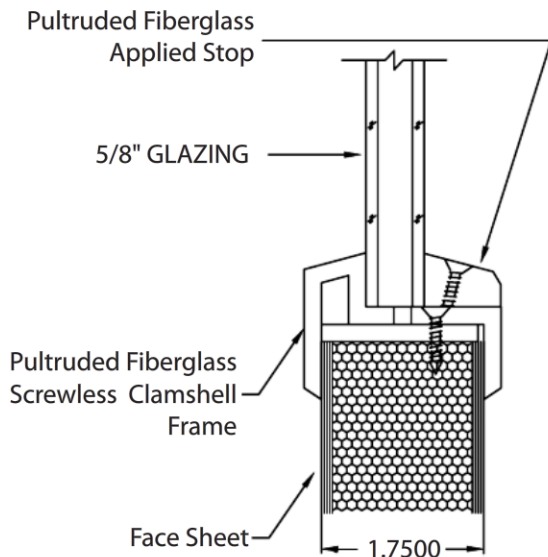
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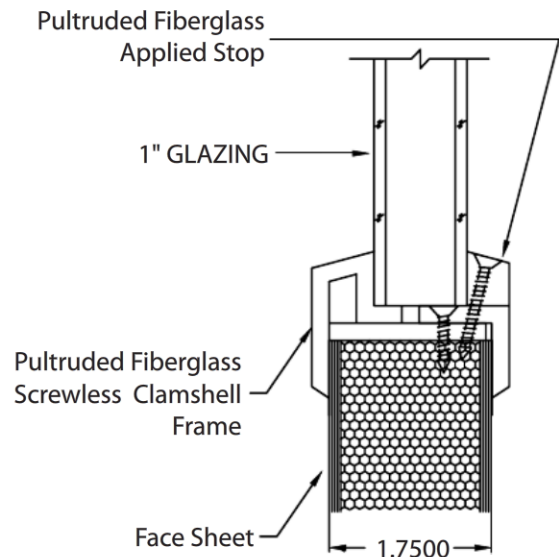
AF Fixed Louver Kit



1/4" AF Clamshell Lite Kit



5/8" AF Clamshell Lite Kit



1" AF Clamshell Lite Kit

Special-Lite

FIRE-RATED DOORS

Fire-Rated FRP-Clad Door



Match the finish of our SL-17 FRP entrance doors with the SL-21 Fire-Rated Door

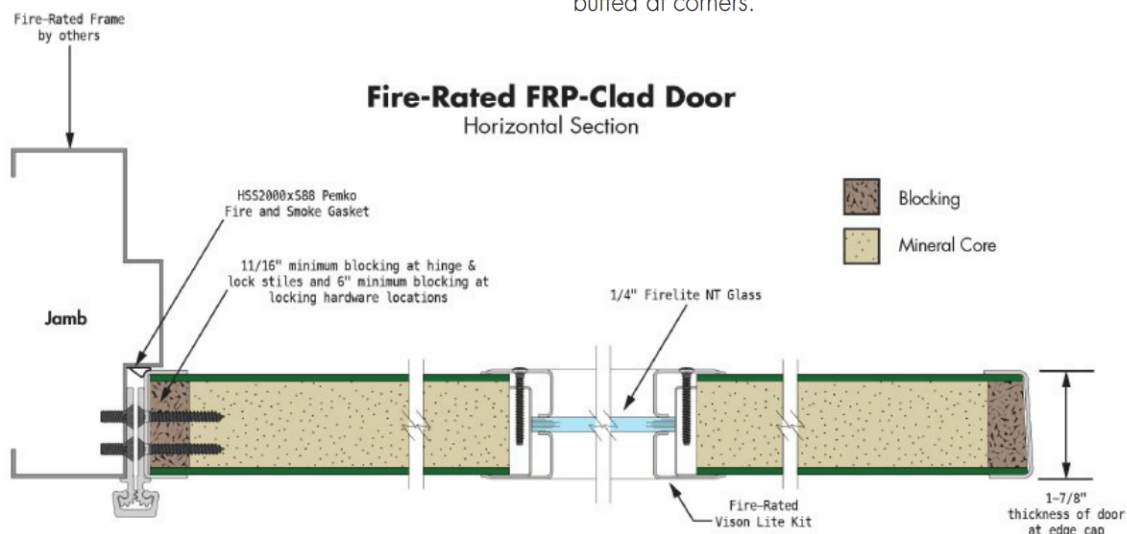
The SpecialLite® SL-21 Fire-Rated FRP-Clad Door is the perfect complement to our FRP (Fiberglass Reinforced Polyester) entrance doors for interior or exterior applications that require a 90-minute fire door. Tested in accordance with UBC 7-2, NFPA 252, and UL 10C requirements, the SL-21 has passed the 1-1/2 hour positive pressure test, hose stream test, and 250 degree temperature rise tests to achieve Warnock Hersey listing for fire-rating applications in the U.S.

The SL-21 is available in 30, 45, 60 or 90-minute rated versions, as singles or pairs up to 4' x 8' per leaf, subject to limitations. Face sheets can be specified in any of our standard FRP colors, or painted any color. Class C face sheets are standard. Class A can be specified for interior applications.

Enjoy the benefits of design flexibility, custom fabrication, fast and reliable order lead times, single-source convenience and quality workmanship, all backed by a hassle-free, 10 year, parts & labor Special-Lite warranty.

Construction

The SL-21 Fire-Rated FRP-Clad Door features the same FRP face sheets as our SL-17 Door bonded to a mineral core with a perimeter designed for secure hardware attachment. Edge capping and vision lite kits are natural finish stainless steel similar in appearance to clear anodized aluminum. Edge capping is screw-applied, welded and buffed at corners.



SL-21 Fire-Rated FRP-Clad Door

Application Guidelines

- When using mortise locks, flushbolts, surface vertical rods or surface vertical rods less bottom rods with a 90-minute rating, the maximum size is 7' x 7'4".
- Pairs with mortise lock and flush bolts, surface vertical rods, or surface vertical rods less bottom rods require a fire-rated astragal.
- Available with wire chase.
- Requires fire-rated hardware, including mullions and exit devices, supplied by Special-Lite or others. Hinges must be secured to door with fasteners supplied by Special-Lite.
- Requires fire-rated framing and field installation of smoke seal and gaskets supplied by Special-Lite.
- Vision lites must be fire-rated, and can be supplied by Special-Lite or others. Vision lite must be at least 6" from DLO to hardware. Standard vision lite kit sizes available are: 4" x 25", 6" x 28", 10" x 10", 22" x 28". 1" glass is not available.
- Fire-rated Louvers may be installed in doors up to 576 sq. inches.

Hardware Compatibility

	USE	DON'T USE
SINGLE	Rim exit device Mortise lock Cylindrical lock Surface closer Butt hinges Continuous hinge Kick plate up to 16" in height	Hold open Concealed vertical rods
PAIRS	Rim exit devices with fire-rated mullion Surface closers Butt hinges Continuous hinges Kick plates up to 16" in height Flush bolts & Mortise locks Surface vertical rods Surface vertical rods less bottom rods	Hold open Concealed vertical rods

Fire-Rated AMP-Clad Door



Match the finish of our SL-19 AMP entrance doors with the SL-22 Fire-Rated Door

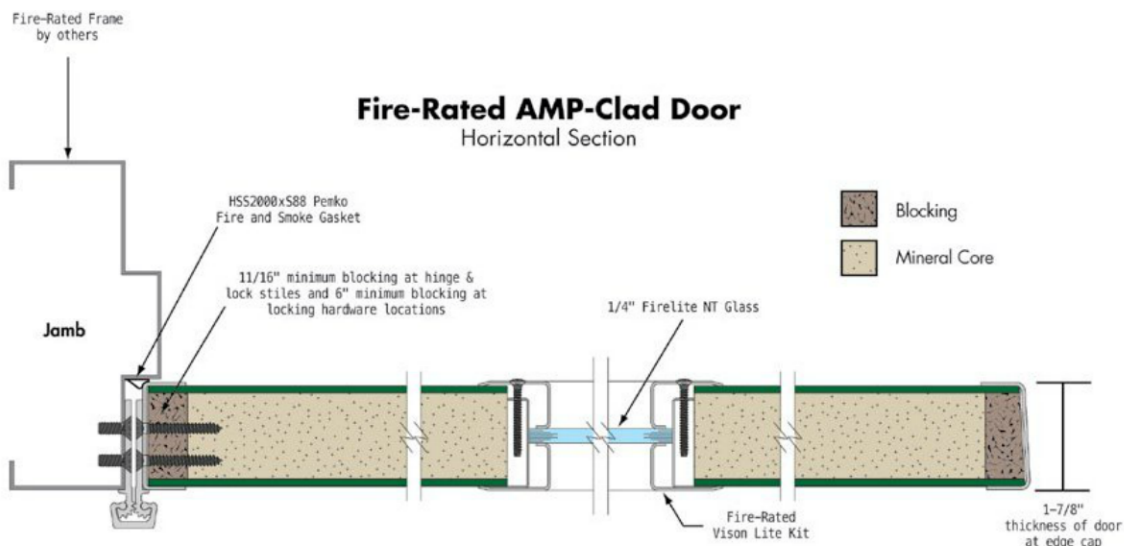
The Special-Lite® SL-22 Fire-Rated AMP-Clad Door is the perfect complement to our AMP (Acrylic Modified Polyester) entrance doors for interior or exterior applications that require a 90-minute fire door. Tested in accordance with UBC 7-2, NFPA 252, and UL 10C requirements, the SL-22 has passed the 1-1/2 hour positive pressure test, hose stream test, and 250 degree temperature rise tests to achieve Warnock Hersey listing for fire-rating applications in the U.S.

The SL-22 is available in 30, 45, 60 or 90-minute rated versions, as singles or pairs, up to 4' x 8' per leaf, subject to limitations. Face sheets can be specified in any of our painted or stained AMP colors.

Enjoy the benefits of design flexibility, custom fabrication, fast and reliable order lead times, single-source convenience and quality workmanship, all backed by a hassle-free, 10 year, parts & labor Special-Lite warranty.

Construction

The SL-22 Fire-Rated AMP-Clad Door features the same AMP face sheets as our SL-19 wood grain door bonded to a mineral core with a perimeter designed for secure hardware attachment. Edge capping and vision lite kits are natural finish stainless steel similar in appearance to clear anodized aluminum. Edge capping is screw-applied, welded and buffed at corners.



SL-22 Fire-Rated AMP-Clad Door

Application Guidelines

- When using mortise locks, flushbolts, surface vertical rods or surface vertical rods less bottom rods with a 90-minute rating, the maximum size is 7' x 7'4".
- Pairs with mortise lock and flush bolts, surface vertical rods, or surface vertical rods less bottom rods require a fire-rated astragal.
- Available with wire chase.
- Requires fire-rated hardware, including mullions and exit devices, supplied by Special-Lite or others. Hinges must be secured to door with fasteners supplied by Special-Lite.
- Requires fire-rated framing and field installation of smoke seal and gaskets supplied by Special-Lite.
- Vision lites must be fire-rated, and can be supplied by Special-Lite or others. Vision lite must be at least 6" from DLO to hardware. Standard vision lite kit sizes available are: 4" x 25", 6" x 28", 10" x 10", 22" x 28". 1" glass is not available.
- Fire-rated Louvers may be installed in doors up to 576 sq. inches.

Hardware Compatibility

USE		DON'T USE
SINGLE	Rim exit device Mortise lock Cylindrical lock Surface closer Butt hinges Continuous hinge Kick plate up to 16" in height	Hold open Concealed vertical rods
	PAIRS	
	Rim exit devices with fire-rated mullion Surface closers Butt hinges Continuous hinges Kick plates up to 16" in height Flush bolts & Mortise locks Surface vertical rods Surface vertical rods less bottom rods	Hold open Concealed vertical rods



Fire-Rated Sandstone FRP Door



Match the finish of our SL-20 FRP entrance doors with the SL-23 Fire-Rated Door

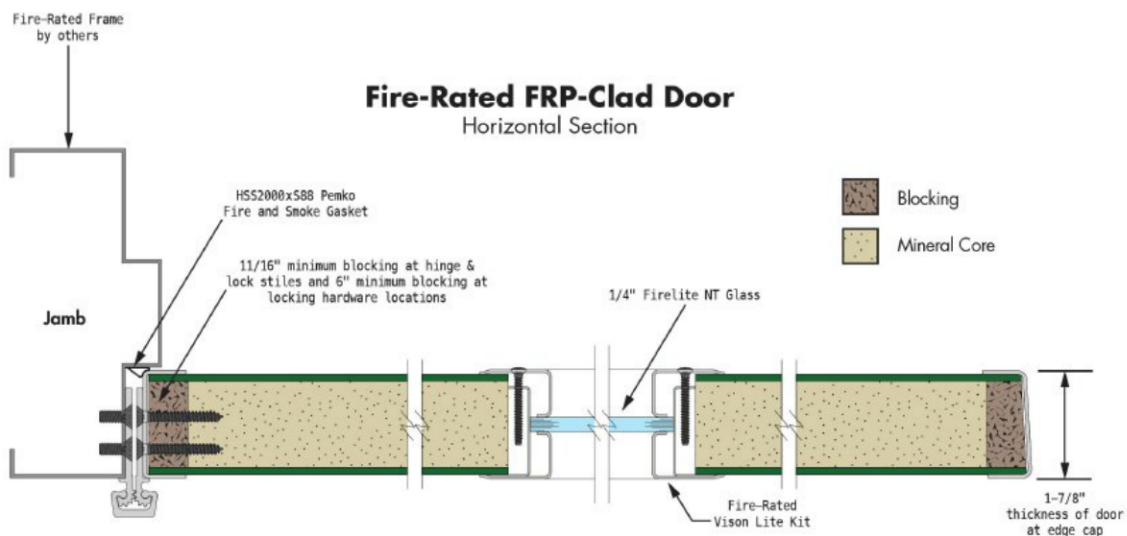
The Special-Lite® SL-23 Sandstone-Textured Fire-Rated FRP-Clad Door features the same aesthetically pleasing face sheets as our SL-20 entrance doors for interior or exterior applications that require a 90-minute fire door. Tested in accordance with UBC 7-2, NFPA 252, and UL 10C requirements, the SL-23 has passed the 1-1/2 hour positive pressure test, hose stream test, and 250 degree temperature rise tests to achieve Warnock Hersey listing for fire-rating applications in the U.S.

The SL-23 is available in 30, 45, 60 or 90-minute rated versions, as singles or pairs up to 4' x 8' per leaf, subject to limitations. Face sheets can be specified in any of our sandstone FRP through-colors, or painted any color.

Enjoy the benefits of design flexibility, custom fabrication, fast and reliable order lead times, single-source convenience and quality workmanship, all backed by a hassle-free, 10 year, parts & labor Special-Lite warranty.

Construction

The SL-23 features the same sandstone-textured FRP face sheet as our SL-20, bonded to a mineral core with a perimeter designed for secure hardware attachment. Edge capping and vision lite kits are natural finish stainless steel, similar in appearance to clear anodized aluminum. Edge capping is screw-applied, welded and buffed at corners.



SL-23 Fire-Rated Sandstone FRP Door

Application Guidelines

- When using mortise locks, flushbolts, surface vertical rods or surface vertical rods less bottom rods with a 90-minute rating, the maximum size is 7' x 7'4".
- Pairs with mortise lock and flush bolts, surface vertical rods, or surface vertical rods less bottom rods require a fire-rated astragal.
- Available with wire chase.
- Requires fire-rated hardware, including mullions and exit devices, supplied by Special-Lite or others. Hinges must be secured to door with fasteners supplied by Special-Lite.
- Requires fire-rated framing and field installation of smoke seal and gaskets supplied by Special-Lite.
- Vision lites must be fire-rated, and can be supplied by Special-Lite or others. Vision lite must be at least 6" from DLO to hardware. Standard vision lite kit sizes available are: 4" x 25", 6" x 28", 10" x 10", 22" x 28". 1" glass is not available.
- Fire-rated Louvers may be installed in doors up to 576 sq. inches.

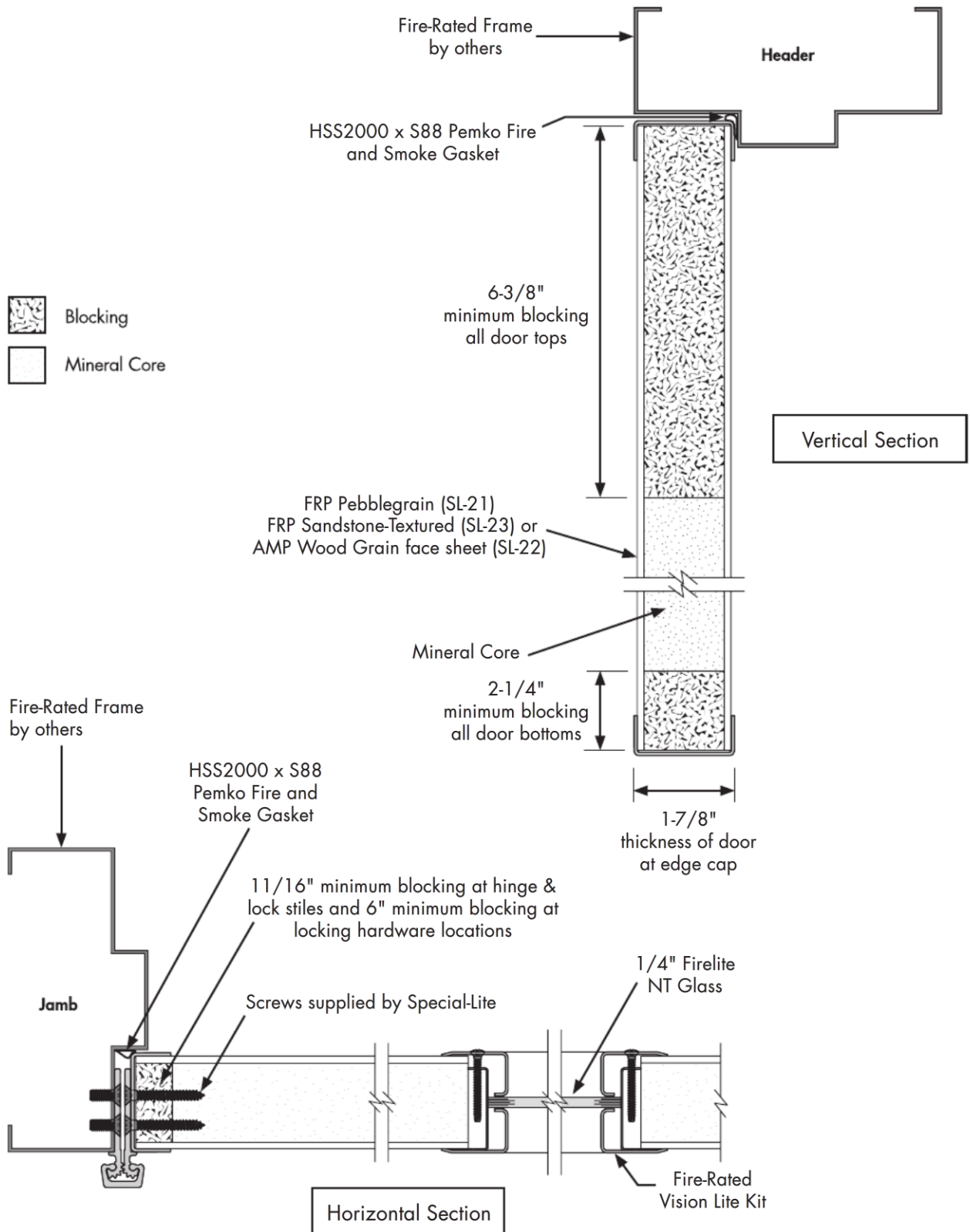
Hardware Compatibility

	USE	DON'T USE
SINGLE	Rim exit device Mortise lock Cylindrical lock Surface closer Butt hinges Continuous hinge Kick plate up to 16" in height	Hold open Concealed vertical rods
PAIRS	Rim exit devices with fire-rated mullion Surface closers Butt hinges Continuous hinges Kick plates up to 16" in height Flush bolts & Mortise locks Surface vertical rods Surface vertical rods less bottom rods	Hold open Concealed vertical rods



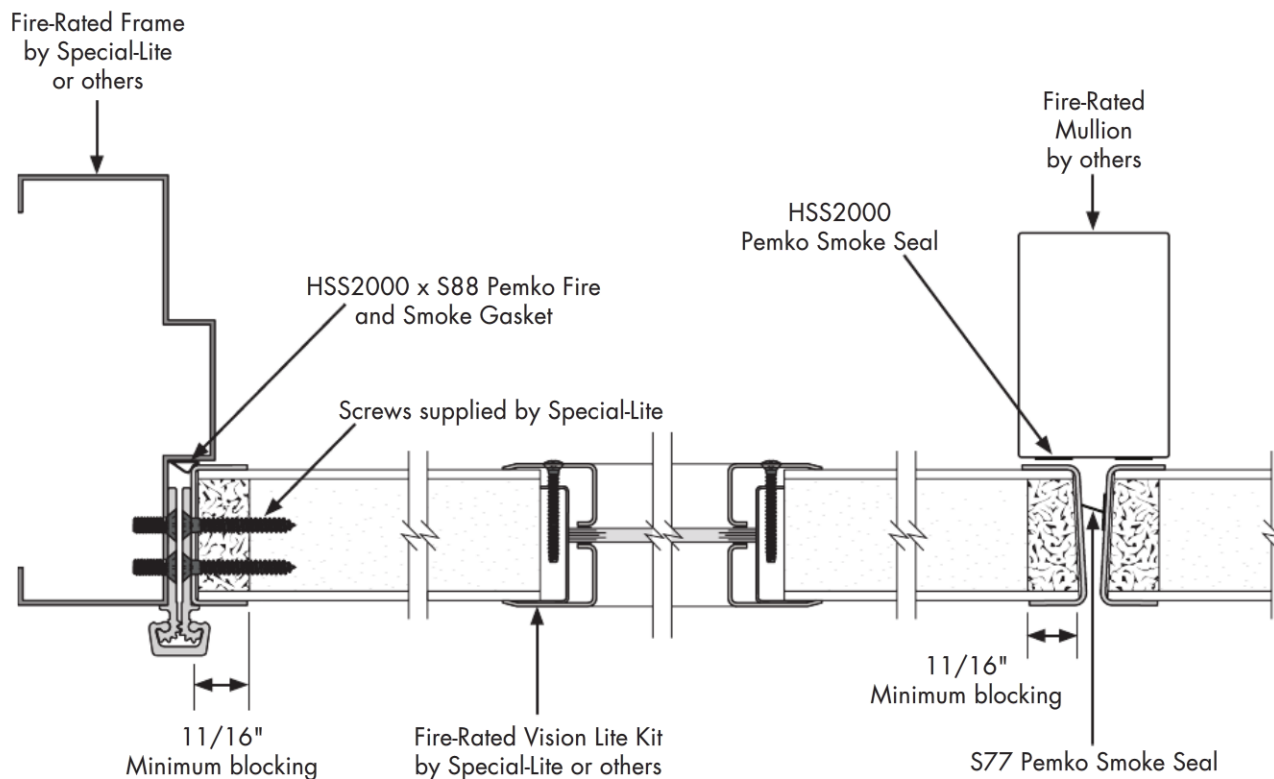
Fire-Rated Door Architectural Detail

NOT TO SCALE



Fire-Rated Door Architectural Detail

NOT TO SCALE



Horizontal Section
Pair with mullion

Product specifications and construction details
subject to change without notification.

Special-Lite, Inc.
P.O. Box 6 • Decatur, MI 49045

www.special-lite.com

800.821.6531

Item 7221-R5

15M 08/13 JBP

Fire-Rated Doors & Frames

FR Series All-Fiberglass Doors and Frames from Special-Lite

The FR Series all-fiberglass doors are available with smooth, pebble grain or sandstone-textured face sheets and fire ratings from 20 to 90 minutes. Tested in accordance with UBC 7-2, NFPA 252 and UL 10C requirements, the FR Series have passed the 1-1/2 hour positive pressure test, hose stream test, and 250 degree temperature rise tests, and are labeled by Intertek.

Features & Benefits

- Singles or pairs up to 4' x 8' maximum net size per leaf.
- Smooth, pebble grain or sandstone-textured FRP door face sheets with smooth door edges.
- Smooth face sheets contain high-gloss two-part aliphatic polyurethane finish, or acrylic primer only.
- Intumescent tape concealed under door edges for clean appearance.
- Fire-rated mineral core with edge blocking for superior screw holding.
- Stainless steel vision lites provided by Special-Lite or others.
- Smooth door is identical in appearance to AF-100 Series Doors with no metal edges. Painted finish only.
- Pebble grain and sandstone-textured face sheets are identical in appearance to AF-200 Series Doors with no metal edges and face sheets are through-colored or painted.



FR Series Fire Door & Frame Models

Door Model	Face Sheet
FR-20, 45, 60, 90	Smooth
FR-20P, 45P, 60P, 90P	Pebble grain FRP
FR-20S, 45S, 60S, 90S	Sandstone-textured FRP

Frame Model	Wall	Depth	Face	Head
FR Series Pultruded Framing	1/4"	5-3/4" and 6-3/4" (immediate door frame only)	2"	2" or 4"

Fire-Rated Framing

Pultruded fire-rated framing with a depth of 5-3/4" or 6-3/4" with 2" or 4" heads is available to provide a complete door system for industrial locations requiring fire-rated doors and frames. FR Series Doors and Frames are covered by a 10-year parts and labor warranty.

Hardware Guidelines:

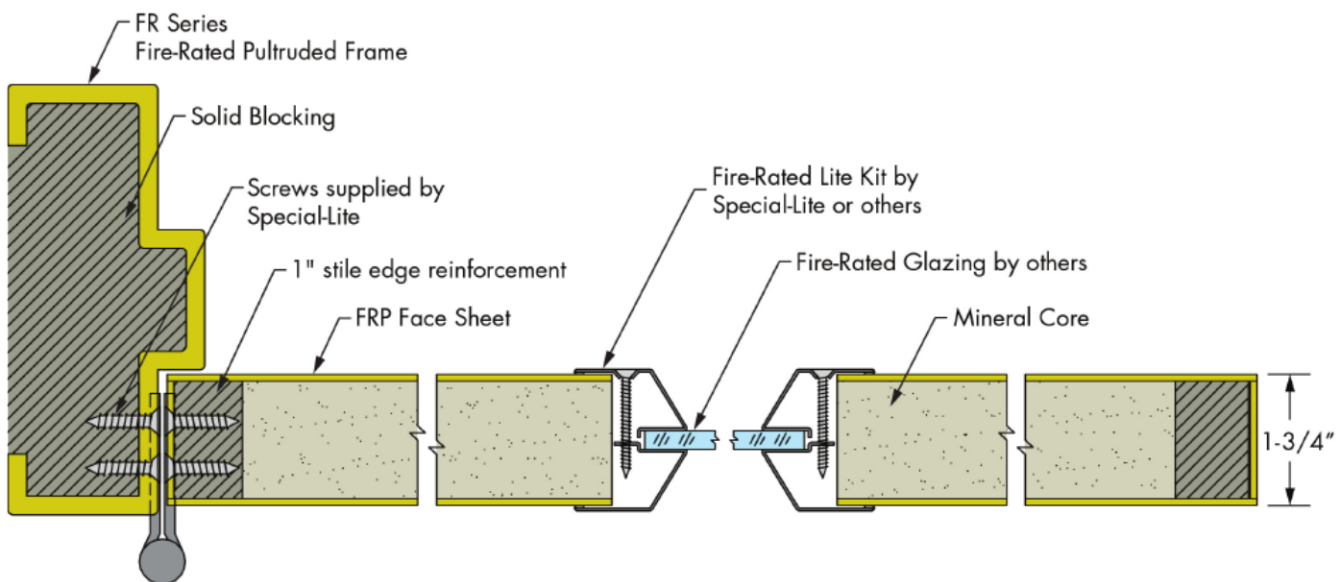
All doors must be self-latching. All hardware must be listed for use on fire-rated doors. Maximum undercut above threshold is 3/4". Wire chase of 3/8" x 3/8" provided for electrified hardware. Butt hinge preps only – rated hinges by others. All hinge fasteners are supplied and provided fasteners must be used. Vision lites can be up to 616 sq. in. DLO per lite and 1232 sq. in. per door for 60-minute doors. Vision lites must be at least 6" from DLO to hardware. Maximum vision lite size in 90-minute doors is 100 sq. in. DLO.

Hardware types that can be used:

- Flush bolts
- Surface vertical rod exit device
- Rim exit device
- Mortise lock
- Cylindrical lock
- Surface closer
- Butt hinges
- Fire-rated stainless steel vision lite kits
- Fire-rated glazing of any type in 1/4" thickness
- Fire-rated louvers up to 524 sq. in.
- Kick plates up to 16" in height
- Fire-rated mullions

Hardware types that cannot be used:

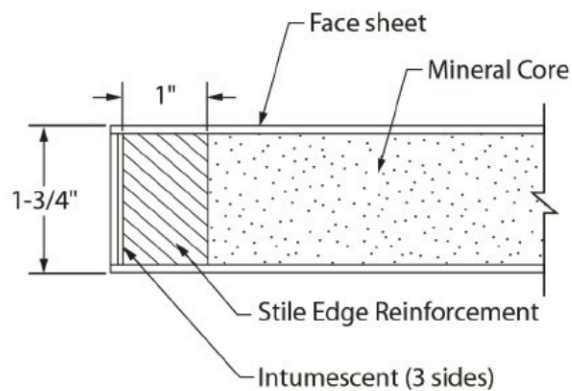
- Hold opens
- Concealed vertical rods
- Continuous hinges



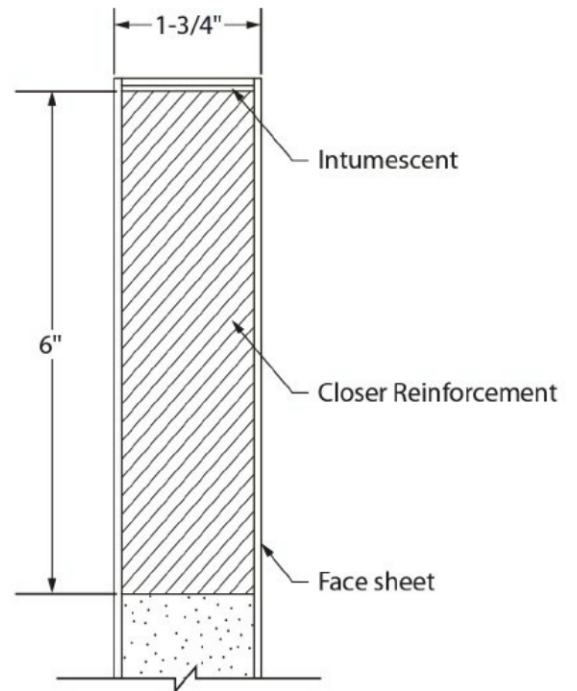
Fire-Rated FRP Door & Frame

All-Fiberglass Door Sections

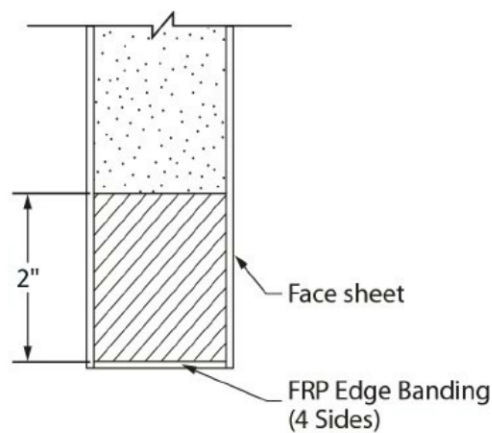
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Door Stile Edges



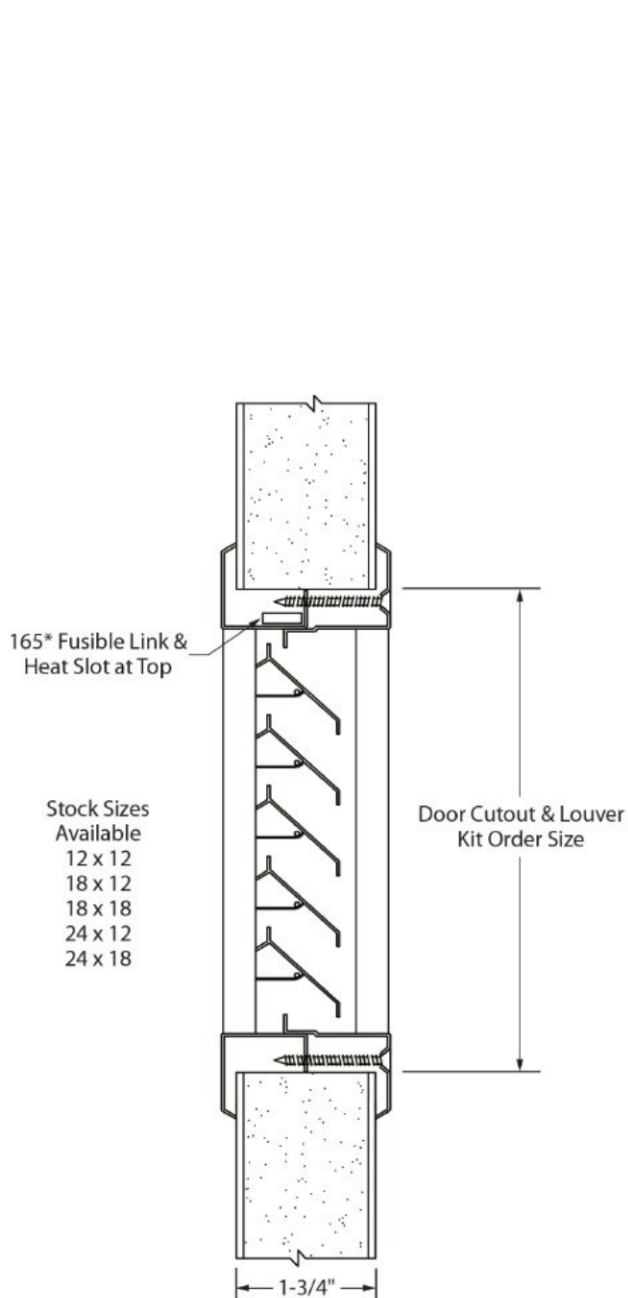
Top Rail



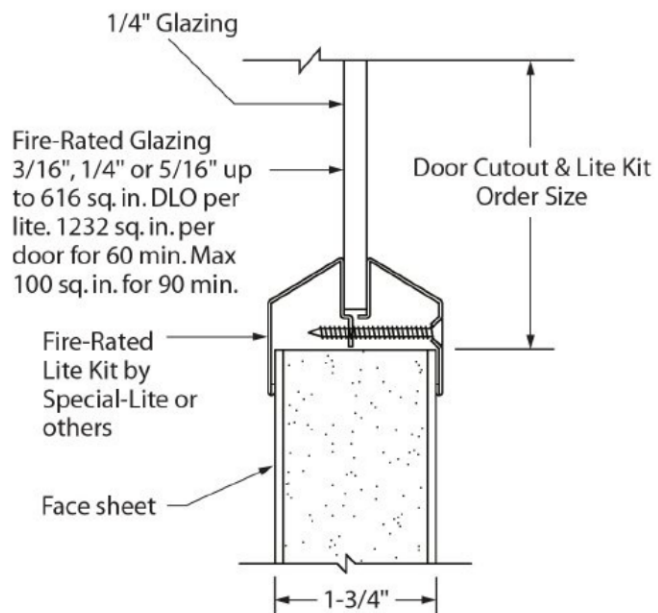
Standard Bottom Rail

All-Fiberglass Door Sections

Not to scale



Fixed Louver Kit



Vision Lite Kit

Special-Lite

ALL-ALUMINUM HARDWARE & LITES

