SL-20®
Sandstone Texture Hybrid FRP Door

Special-Lite®

Forced Entry Resistant | Impact Rated | Thermally Efficient



The SL-20® Hybrid FRP Door is constructed as tough as the SL-17® Hybrid FRP Door but with a softer, smoother appearance. Strong yet aesthetically pleasing with its exclusive, exterior-grade sandstone-textured FRP (fiber reinforced polymer) face sheet, the SL-20 delivers exceptional durability and long-lasting performance. Available in a wide range of prominent architectural through colors, it's tough enough for your high-traffic exterior entrances, yet stylish enough to enhance interior spaces.

The SL-20 Hybrid FRP Door features a 0.120" thick sandstone texture door face that is locked into an aluminum perimeter without separate screw-applied capping. A waterproof, closed-cell, thermal-performing, poured-in-place polyurethane foam core bonds every component together to provide incredible strength and thermal insulation.

Key Benefits

- Low maintenance
- Easy to clean and sanitize
- Secure and durable
- Thermal performance
- Moisture resistance
- Customizable

Applications

- Schools and universities
- Restaurants and retail
- Commercial and office
- Parks and recreation
- Healthcare and assisted living
- Car washes and coastal buildings
- WTP/WWTP
- Multifamily and condo buildings

Door Panel Construction

1. Strong yet lightweight aluminum chassis and edge for extreme durability.
2. Mitered corner joints secured by angle blocks, for security and durability.
3. Steel tie rods span the width of the door to secure the door perimeter, adding resilient strength to the door's structure.
4. Structural, high-density polyurethane foam-injected core binds door panel components together, insulates the door, and won't retain moisture.
5. Door face sheets are secured by integral channels on the door edge for a truly flush door face.
6. Premium through-color Sandstone Texture FRP door face is .120" thick.



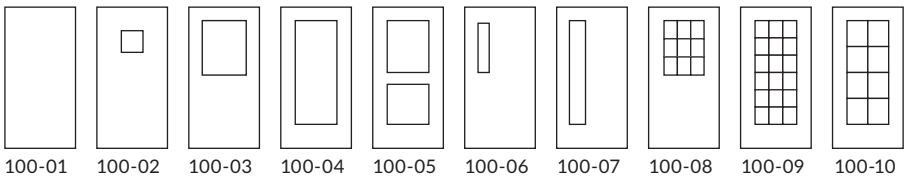
CONSTRUCTION		
DOOR PANEL THICKNESS		1-3/4"
FACE SHEET		0.120" Sandstone Texture FRP
	Split Finish	Select from any Hybrid FRP Door face sheet.
DOOR SIZE (W X H)	Minimum	12" x 12"
	Maximum	Single door without a seam: 48" x 96" Single door painted: 48" x 144" Pairs without a seam: 96" x 96" Pairs painted: 96" x 144"
	Custom	Taller sizes may be available. Contact Special-Lite for availability and details.
STILES & RAILS		6063 aluminum alloy with a minimum temper of T5. Minimum 2-5/8" deep one-piece extrusion with integral channels to secure face sheet on both sides of the door for a flush appearance.
CORNER		Mitered corners, aluminum angle reinforcements, and full-width steel tie rods top and bottom.
CORE MATERIAL		Poured-in-place closed-cell polyurethane foam, 5-lb./cubic foot density.
REINFORCEMENTS		Aluminum extrusions are made from 6061 or 6063 aluminum alloys. Sheet and plate conform to ASTM-B209. Bars and tubes meet ASTM-B221.
FINISHES FOR FACE SHEETS		
STOCK FINISHES	Sandstone Texture Through-color FRP	5516 Sage Brown, 5522 Brick Red, 5523 Hartford Green, 5524 Military Blue, 5525 Seawolf, 5596 White, 5597 Light Grey, 5598 Beige, 5599 Dark Bronze, 5588 Slate Grey
FINISHES FOR DOOR EDGES		
STOCK FINISHES	Anodized	5555 Clear, 5556 Dark Bronze
SPECIALTY FINISHES	Anodized	5557 Black, 5558 Light Bronze, 5559 Medium Bronze, 5560 Champagne
	Painted Aluminum	5503 Bone White, 5504 Boysenberry, 5505 Brick Red, 5509 Hartford Green, 5515 Sage Brown, 5517 Seawolf, 5577 Slate Grey, 5578 Light Grey, 5579 Blue, 5580 Black, 5581 Desert Sand, 5583 Military Blue, 5647 Beige, 5649 Red, 5655 Dark Grey, 5656 Crystal, 5657 Champagne, 5658 Light Bronze, 5659 Medium Bronze, 5576 Dark Bronze, 5708 Red Oak, 5709 White Oak, 5710 White Maple, 5712 Redwood
	Custom	Custom color matching is available. Adds additional lead time.
CONFIGURATION OPTIONS NOTE: Dependent on hardware compatibility.		
HINGE STILE	Standard	Square (Continuous Hinges), Bevel (Butt Hinges)
	Optional	Bevel, Radius for Double-Acting Doors
LOCK STILE	Standard	Standard Bevel Stile, Standard Meeting Stiles Bevel, Bevel with Integral Brush Weatherstrip
	Optional	Meeting Stiles Radius with Adjustable Astragal Meeting Stiles Bevel and Square Stile for Active and Inactive Leaf Pairs
DOOR BOTTOM	Open Rail	Standard weather bar with nylon brush SL-301 Adjustable Bottom Brush
	Closed Rail	Sliding Doors, Dutch Doors, Applied Sweep
DOOR TOP	Open Rail	Standard Weather Bar Flush Rail Cap 70-53
	Closed Rail	Sliding Doors, Dutch Doors
VISION LITES	Standard	Aluminum Aluminum with Surface Muntins (1/2" or 1-1/4" width)
	Optional	EPDM Gasket Low Profile Beveled Aluminum Securelite Forced-Entry Resistant Aluminum (1/2" or 1" bite) No Vision Lite Kit, cut out only
VISION LITE KIT SIZE OPTIONS (Compatible with 1/4" up to 1-1/2" glass)	Standard	Square, Double Lite, Half Lite, Surface Muntins, Full Lite, or Narrow Lite
	Custom	Custom shapes are available, provide a drawing or select from the chart on page 4.
VISION LITE KIT RESTRICTIONS		Minimum spacing from day lite opening: 7" from side, 8" from top, and 12" from bottom Doors must contain at least 50% foam.

GLASS			1/4" Polycarbonate, Tempered, Laminated 1" Tempered, Tempered with Internal Muntins, Privacy Vision Panel 1-3/4" Flush Vision Panel, Privacy Flush Vision Panel
LOUVER MODELS			Aluminum Louvers, Aluminum Louvers with Screen
LOUVER OPTIONS			12" x 12", Double Lite, Half Lite, Full Lite, Custom (provide drawing)
INFILL ARCHITECTURAL PANELS (In lieu of glass)			1/4" SL-30 Sandstone Texture FRP Panel 1" SL-30 Polyurethane Closed-cell Foam Core Panel
HARDWARE NOTE: Hardware can be supplied and factory installed. See our Hardware Installation Policy, or contact Special-Lite for restrictions.			
INSTALLED/SUPPLIED HARDWARE			Recessed Pulls, Standard Pulls, Standard Push Bars, HD Continuous Gear Hinges, Butt Hinges, Pivots, Closers Stops, Hold Open, Removable Mullions, Aluminum Astragals, Fiberglass Astragals, Aluminum Thresholds, Fiberglass Thresholds, Cylindrical Locks, Mortise Locks, Exit Devices
			Custom hardware is available, consult with your Rep.
DO NOT SEND (Processing fee for returned hardware)			Mullions, Thresholds, Bottom Brushes, Sweeps, Seals, Astragals, Drip Caps, Surface Door Closers, Surface Door Stops, Seals, Power Supplies, EPT's, Wiring Harnesses, Dust Proof Strikes, Wall Stops
PERFORMANCE			
FLORIDA APPROVALS*			FL9875-R7, FL13789-R4, FL21856-R4, FL27723-R2
TDI APPROVALS			Effective May 2023, TDI accepts third-party evaluation reports. They are linked for information only, as a public service. TDI will not edit, modify, or revise any of the linked reports. TDI will not develop new or renew evaluation reports, and any existing report listings will be removed from the website at the close of 2025. For more information visit the TDI website.
INTRUSION RESISTANCE	Glazed with Makrolon AR		ASTM E2395-GRADE 30 ASTM E1886-2 Impacts (no observable damage) ASTM F1233-CLASS 1
U-VALUE (NFRC 100)	Thermally-broken aluminum framing	Opaque	U-Factor = 0.33 BTU/hr·ft²·°F
		Glazed	U-Factor = 0.62 BTU/hr·ft²·°F
	AF-150 framing	Opaque	U-Factor = 0.33 BTU/hr·ft²·°F
		Glazed	U-Factor = 0.58 BTU/hr·ft²·°F
R-VALUE	Thermally-broken aluminum framing	Opaque	R-Value = 3.03 ft²·°F·h/BTU
		Glazed	R-Value = 1.61 ft²·°F·h/BTU
	AF-150 framing	Opaque	R-Value = 3..03 ft²·°F·h/BTU
		Glazed	R-Value = 1.72 ft²·°F·h/BTU
AIR LEAKAGE (NFRC 400, ASTM-E283)	Thermally-broken aluminum framing	Opaque	0.02 cfm/sqft @ 1.57 psf infiltration 0.02 cfm/sqft @ 6.24 psf exfiltration
		Glazed	0.22 cfm/sqft @ 1.57 psf infiltration 0.42 cfm/sqft @ 6.24 psf exfiltration
	AF-150 framing	Opaque	0.11 cfm/sqft @ 1.57 psf infiltration 0.07 cfm/sqft @ 6.24 psf exfiltration
		Glazed	0.03 cfm/sqft @ 1.57 psf infiltration 0.04 cfm/sqft @ 6.24 psf exfiltration
BUY AMERICA ACT COMPLIANCE			Yes
LEED			Yes
GREENGUARD			GreenGuard Gold
SUPPORT			
WARRANTY			10-year, 100% parts and labor warranty. Limited Lifetime Warranty covers corrosion, failure of corner joinery, core deterioration, and delamination of the door face. See Warranty Guide for details.
LEAD TIME			Lead times for standard door configurations are 6-8 weeks and subject to change.† Curved lites and panels, custom finishes, and rated configurations have extended lead time. Contact your Rep or Special-Lite for up-to-date lead times.

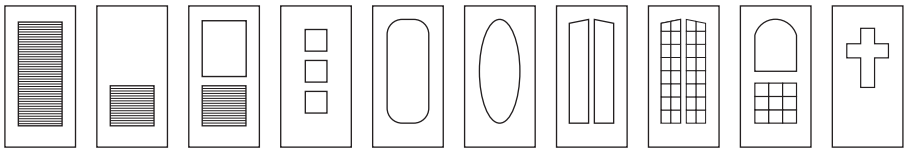
*Please see our Hurricane Approvals webpage for restrictions.
†Expedited Order Program available. See our website for details, program rules, and restrictions.

Door Configuration Examples

Choose from our standard door configurations or create your own! Need help? We will help you design a durable, high-quality custom solution to suit your needs (minimum spacing restrictions apply for Vision Lite Kit locations).



100-01 100-02 100-03 100-04 100-05 100-06 100-07 100-08 100-09 100-10

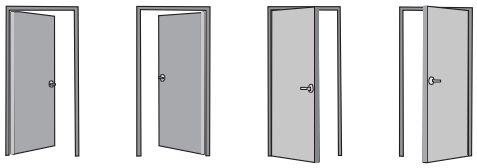


100-11 100-12 100-13 100-14* 100-15* 100-16* 100-17* 100-18* 100-19* 100-20*

*Curved, complicated, and non-standard configurations may require additional lead time and cost. Contact Special-Lite for more information.

Single Swing Door Handing Chart

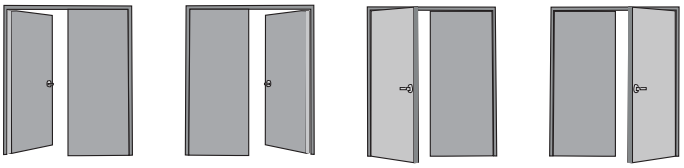
From exterior of room or building



Left hand | Right hand | Left-hand reverse | Right-hand reverse

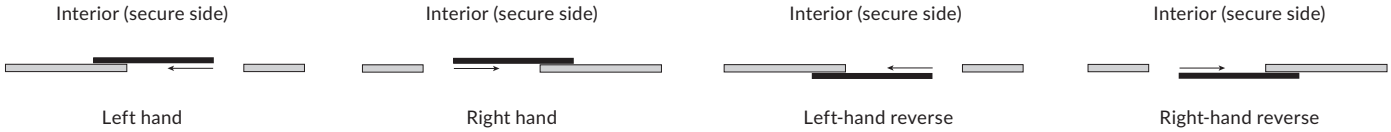
Double Swing Door Handing Chart

From exterior of room or building



Left hand | Right hand | Left-hand reverse | Right-hand reverse

Sliding Door Handing Chart



Left hand | Right hand | Left-hand reverse | Right-hand reverse

Why Choose Special-Lite?

50+ years manufacturing custom, high-performance doors & frames
We've built a reputation for doors that survive for decades in even the toughest commercial and industrial applications.

Single source simplicity
Enjoy the convenience, reliability, and performance advantages of having your doors, frames, and more supplied by a single source.

We stand behind our products
Experience peace of mind with our no-hassle warranties and exceptional customer service.

GREENGUARD GOLD
PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS
UL.COM/GG
UL 2818

© Special-Lite, Inc.
860 S. Williams St. Decatur, MI 49045
special-lite.com • 800-821-6531

Item 1267-R1
03/26 PDF