

Product Evaluation

DR715 | 0521

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at 800-248-6032.

Evaluation ID: DR-715

Effective Date: May 1, 2021

Re-evaluation Date: May 2025

Product Name: AF-100 Fiberglass Single Outswing Flush Opaque Side Hinged Door, Frame Installation, Impact Resistant

Manufacturer: Special-Lite
860 S. Williams St
Decatur, MI 49045
(800) 821-6531

General Description:

System	Description	Label Rating
1	AF-100 Fiberglass Single Outswing Flush Opaque Side Hinged Door	+100 / -100 psf

Component Dimensions:

System	Overall Size	Panel Size	Maximum Daylight Opening Size
1	40" x 86"	35-3/4" x 83-3/8"	N/A

Components and Hardware:

System	Component	Quantity	Attachment Method
1	Hinges	3	#12-11 x 1-1/2" x SS wood screw; 5 screws per hinge
	Schlage L9453P-03A-626 Mortise Lock	1	Two (2) #12 x 12-24 x 3/4" screws
	Lock Strike Plate	1	Two (2) #12x 1-1/2" SS wood screws
	Handle	1	Two (2) #8-32 x 5/8" screws
	Schlage B660P-626 Cylindrical Deadbolt	1	Face Plate: Two (2) #8-32 x 5/8" screws Lock Body: Two (2) 1/4-28 x #10 x 1- 15/32"
	Deadbolt Strike Plate	1	Two (2) #12x 1-1/2" SS wood screws

Product Identification (Manufacturer Label on Door):

System		
1	Manufacturer's Name or Code Name	Special-Lite Inc.
	Product Name	Model AF-100 Door
	Test Standards	ASTM E330-14; ASTM E1886-13a; ASTM E1996-14a; Missile Level D

Impact Resistance:

System	Impact Resistant	Requirement
1	Yes	These products satisfy TDI's criteria for protection from windborne debris. The door passed the equivalent of Missile Level D as specified in ASTM E 1996-14a. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assembly.

Installation:

System		
1	Type of Installation	Frame Installation
	Wall Framing	Spruce-Pine-Fir dimension lumber, Concrete, or Minimum 18-gauge Steel
	Fasteners	Wood: 3/8" x 5" long lag bolts Concrete: 3/16" x 1-3/4" long diameter Powers Tapper screws Steel: #12 Teks screws
	Fastener Embedment	Wood: Minimum 3" into framing Concrete: Minimum 1-3/4" Steel: Full penetration
	Fastener Location/Spacing	Along each side jamb, place the fasteners a maximum of 12" from the threshold and a maximum of 32" on center with a minimum of three (3) fasteners per side jamb. No fasteners are required in the threshold or the head.

Note: Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.