

Product Evaluation

DR995 | 0519

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-995

Effective Date: May 1, 2019

Re-evaluation Date: December 2019

Product Name: FeelSafe Aluminum Clad Wood Glazed Outswing Side Hinged Patio Doors, Mullled Combinations, Fin and Frame Installation, Impact Resistant

Manufacturer: Sierra Pacific Windows
575 South Whelen Ave
Medford, WI 54451
(715) 748-2011

General Description:

System	Description	Label Rating	Design Pressure Rating
1	FeelSafe Aluminum Clad Wood Glazed Outswing Side Hinged Door with Transom	LC-PG65 Span (75.5) x TW (57)-MA Missile Level D	+65 / -70 psf
2	FeelSafe Aluminum Clad Wood Glazed Arch Outswing Side Hinged Door with ADA Sill	LC-PG65 76 x 99-SHD Missile Level D	+65 / -70 psf
3	FeelSafe Aluminum Clad Wood Glazed Outswing Side Hinged Door; Through Frame Installation	LC-PG65 76 x 99-SHD Missile Level D	+65 / -70 psf

General Description (continued):

System	Description	Label Rating	Design Pressure Rating
4	FeelSafe Aluminum Clad Wood Glazed Outswing Side Hinged Door; Dual/Single Mullered Sidelites	LC-PG65 Span (98.5") x TW (57.25") MA-Vertical Mull Missile Level D	+65 / -70 psf

Product Dimensions:

System	Overall Size	Door Panel Size	Door Panel Glass Daylight Opening Size	Transom Glass Daylight Opening Size
1	75-1/2" x 136-3/4"	36" x 95-7/8"	27" x 84-1/4"	69-5/16" x 31-13/16"
2	75-1/2" x 98-1/2"	36" x 95-7/8"	27" x 84-1/4"	N/A
3	75-1/2" x 98-1/2"	36" x 95-7/8"	27" x 84-1/4"	N/A
4	153-1/8" x 98-1/2"	36" x 95-7/8"	27" x 84-1/4"	N/A

Hardware:

- **2-point Lock:** Hoppe (manual lever) or Truth (handle activated); shoot bolts at head and sill; Located on the passive door panel stile.
- **5-point Lock;** Hoppe or Truth; three (3) locking points and shoot bolts at the head and sill; Located on the active door panel stile
- **Handle set:** Hoppe or Truth; Located on the active and passive door panel.
- **Latch Strike Plate:** One (1) required; locate on passive door stile or door jamb; secured with three (3) No. 8 x 3/4" PFH screws.
- **Tongue Strike Plate:** Two (2) required; located on the passive door stile or door jamb; secured with two (2) No. 8 x 3/4" PFH screws.
- **Head Strike Plate:** One (1) required; locate at the frame head; secured with three (3) No. 10 x 2-1/2" PFH screws and two (2) No. 10 x 1" PFH screws.
- **Sill Strike Plate:** One (1) required; locate at the frame sill; secured with three (3) No. 10 x 2-1/2" PFH screws.
- **Hinges:** Butt hinges; Four (4) required per door panel; secured to the door panel with four (4) No. 12 x 1-1/4" PFH screws; secured to the door jamb with three (3) No. 12 x 3/4" PFH screws and one (1) No. 12 x 2-1/2" PFH screw (long enough to penetrate a minimum of 1/1/2" into the wall framing).

Sill:

System 1, 3, 4: Sloped sill; Extruded aluminum sill with a wood sill base and threshold; 1.625" height

System 2: ADA sloped sill; Extruded aluminum sill; 0.50" height

Product Identification (Certification Label on Door):

System		
1	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Sierra Pacific Windows
	Product Name	FeelSafe Clad Outswing Patio Door w/Transom
	Test Standards	AAMA/WDAA/CSA 101/I.S.2/A440-17 AAMA/WDAA/CSA 101/I.S.2/A440-11 ASTM E 1886-13a; ASTM E 1996-14; Missile Level D
2	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Sierra Pacific Windows
	Product Name	FeelSafe Clad Arch Outswing Patio Door ADA Sill
	Test Standards	AAMA/WDAA/CSA 101/I.S.2/A440-17 AAMA/WDAA/CSA 101/I.S.2/A440-11 ASTM E 1886-13a; ASTM E 1996-14; Missile Level D
3	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Sierra Pacific Windows
	Product Name	FeelSafe Clad Outswing Patio Door-Thru Frame Installation
	Test Standards	AAMA/WDAA/CSA 101/I.S.2/A440-17 AAMA/WDAA/CSA 101/I.S.2/A440-11 ASTM E 1886-13a; ASTM E 1996-14; Missile Level D
4	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Sierra Pacific Windows
	Product Name	FeelSafe Clad Outswing Patio Door
	Test Standards	AAMA/WDAA/CSA 101/I.S.2/A440-17 AAMA/WDAA/CSA 101/I.S.2/A440-11 ASTM E 1886-13a; ASTM E 1996-14; Missile Level D

Assembly Labelling (Systems 1, 4): The assembly will bear the WDMA label noted in the Product Identification section of this evaluation report. In addition, the individual products in the mulled assembly will bear a WDMA label. Refer to the appropriate TDI evaluation report for the individual products in the mulled assembly for the information specified on the WDMA label.

Impact Resistance:

System	Impact Resistant	Requirement
1, 2, 3, 4	Yes	These products satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

Installation:

System 1: The wall framing must be minimum Southern Yellow Pine dimension lumber. The assembly must be secured to the wall framing using the aluminum nailing flange at the head and side jambs and the vinyl nailing flange at the sill. Secure the nail flange to the wall framing with minimum No. 8 PPH screws. The fasteners are located approximately 2" from each corner and 8" on center. Secure the head strike plate, sill strike plate and hinges as noted in the hardware section. All fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

System 2: The wall framing must be minimum Southern Yellow Pine dimension lumber. The assembly must be secured to the wall framing using the aluminum nailing flange at the head and side jambs and the vinyl nailing flange at the sill. Secure the nail flange to the wall framing with minimum No. 8 PPH screws. The fasteners are located approximately 2" from each corner and 8" on center. Secure the sill to the wall framing with minimum No. 10 x 3" PFH screws located approximately 3" from each corner and 15-1/2" on center. Secure the head strike plate, sill strike plate and hinges as noted in the hardware section. All fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

System 3: The wall framing must be minimum Southern Yellow Pine dimension lumber. The assembly must be secured to the wall framing using the frame at the head and side jambs. Secure the frame to the wall framing with minimum No. 10 x 2-1/2 PPH screws. The fasteners are located approximately 6" from each corner and 15" on center. Secure the sill to the wall framing with minimum No. 10 x 3" PFH screws located approximately 3" from each corner and 15-1/2" on center. Secure the head strike plate, sill strike plate and hinges as noted in the hardware section. All fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

System 4 (One of the following):

Fin Installation: The wall framing must be minimum Southern Yellow Pine dimension lumber. The assembly must be secured to the wall framing using the aluminum nailing flange at the head and side jambs and the vinyl nailing flange at the sill. Secure the nail flange to the wall framing with minimum No. 8 PPH screws. The fasteners are located approximately 2" from each corner and 8" on center. One (1) No. 10 x 3" PFH screw is located approximately 3" on either side of the vertical mull at the head and the sill. Secure the sill to the wall framing with minimum No. 10 x 3" PFH screws located approximately 3" from each corner and 15-1/2" on center. Secure the head strike plate, sill strike plate and

hinges as noted in the hardware section. All fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

Frame Installation: The wall framing must be minimum Southern Yellow Pine dimension lumber. The assembly must be secured to the wall framing using the frame at the head and side jambs. Secure the frame to the wall framing with minimum No. 10 x 2-1/2 PPH screws. The fasteners are located approximately 6" from each corner and 15" on center. One (1) No. 10 x 3" PFH screw is located approximately 3" on either side of the vertical mull at the head and the sill. Secure the sill to the wall framing with minimum No. 10 x 3" PFH screws located approximately 3" from each corner and 15-1/2" on center. Secure the head strike plate, sill strike plate and hinges as noted in the hardware section. All fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

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