

Product Evaluation

DR896 | 1019

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-896

Effective Date: October 1, 2019

Re-evaluation Date: October 2023

Product Name: Aluminum Clad Wood Glazed, Outswing Side Hinged Patio Doors, Fin Installation, Non-Impact Resistant

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

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Clad Wood Outswing Door w/ Panel Insert; X	LC-PG35 (39 x 99)-SHD	+35 / -50 psf
2	Clad Wood Outswing Arched Door; X	LC-PG55 (38 x 99)-SHD	+55 / -55 psf
3	Clad Wood Outswing Arched Door; Vinyl Sill Strike; XX	LC-PG25 (76 x 98)-SHD	+25 / -25 psf
4	Clad Wood Outswing Arched Door; Metal Sill Strike; XX	LC-PG40 (76 x 98)-SHD	+40 / -40 psf
5	Clad Wood Outswing Door; Dual Handle Activated; Vinyl Sill Strike; XX	LC-PG25 (76 x 99)-SHD	+25 / -25 psf

General Description (Continued):

System	Description	Label Rating	Design Pressure Rating
6	Clad Wood Outswing Door; Dual Handle Activated; Metal Sill Strike; XX	LC-PG35 (76 x 99)-SHD	+35 / -35 psf
7	Clad Wood Outswing Door; Vinyl Sill Strike XX	LC-PG35 (76 x 99)-SHD	+35 / -35 psf
8	Clad Wood Outswing Door; Metal Sill Strike; XX	LC-PG40 (76 x 99)-SHD	+40 / -40 psf
9	Clad Wood Outswing Door; Handle Activated Shoot Bolt; XX	LC-PG25 (76 x 120)-SHD	+25 / -25 psf
10	Clad Wood Outswing Door; Manual Activated Shoot Bolt; XX	LC-PG30 (76 x 120)-SHD	+30 / -30 psf
11	Clad Wood Outswing Door; 5-pt Manual Activated Shoot Bolt; XX	LC-PG60 (88 x 99)-SHD	+60 / -60 psf
12	Clad Wood Outswing Door; 3-Wide; Vinyl Sill Strike; XXO	LC-PG25 (113 x 99)-SHD	+25 / -25 psf
13	Clad Wood Outswing Door; 3-Wide; Metal Sill Strike; XXO	LC-PG40 (113 x 99)-SHD	+40 / -40 psf

Component Dimensions:

System	Overall size	Panel size	Maximum daylight opening size
1	38-1/2" x 98-1/2"	35-7/8" x 95-7/8"	27" x 54-7/8"
2	38-1/2" x 98-1/2"	35-3/4" x 96"	27" x 84"
3-4	75-1/2" x 98-3/8"	35-7/8" x 96" (2)	27" x 83-7/8"
5-6	75-1/2" x 98-1/2"	35-7/8" x 96" (2)	27" x 84-1/4"
7-8	75-1/2" x 98-1/2"	36" x 96" (2)	27" x 84"
9-10	75-1/2" x 119-1/2"	35-7/8" x 117" (2)	27" x 103-1/4"
11	87-3/4" x 98-1/2"	42-1/8" x 96" (2)	33-1/8" x 84-1/4"
12-13	112-1/2" x 98-1/2"	36" x 96" (3)	27" x 84"

Components and Hardware:

System 1

- FPL 4" Butt Hinges: 4 required; secured to the door panel with four minimum No. 12 x 3/4" PFH screws; to the jamb with three minimum No. 12 X 1-1/4" PFH screws and one minimum No. 10 x 2-1/2" PFH screw.
- GU 3-point lock w/ deadbolt: 1 required
- Truth Handle Set: 1 required
- AMS Stainless Steel strike plates: 3 required

System 2

- Hinges: 4 required per panel; secured to the door panel with four minimum No. 12 x 3/4" PFH screws; to the jamb with three minimum No. 12 X 1-1/4" PFH screws and one minimum No. 10 x 2-1/2" PFH screw.
- 3-point Locking System: 1 required on the active door panel lock stile
- Lock and Deadbolt Strike Plate: 1 required on passive door; secure with three minimum No. 8 PFH screws
- Multi-point Strike Plates: 2 required on the frame side jamb; secure with two minimum No. 8 PFH screws

Systems 3-13

- Hinges (Systems 3-8, 12-13): 4 required per panel; secure to the door panel with four minimum No. 12 x 3/4" PFH screws; to the jamb with three minimum No. 12 x 1-1/4" PFH screws and one minimum No. 10 x 2-1/2" PFH screw.
- Hinges (Systems 9-11): 5 required per panel; secure to the door panel with four minimum No. 12 x 3/4" PFH screws; to the jamb with three minimum No. 12 x 1-1/4" PFH screws and one minimum No. 10 x 2-1/2" PFH screw.
- 3-point Locking System: 1 required
- 2-point Locking System: 1 required
- 5-point Locking System (System 11): 1 required
- Vinyl Shoot Bolt Strike Plates-Sill (System 3, 5, 7, 9-10, 12): 1 required; secure with two minimum No. 6 x 2-3/4" PFH screws.
- Metal Shoot Bolt Strike Plate-Sill (System 4, 6, 8, 11, 13): 1 required; secure with three minimum No. 10 x 2-1/2" PFH screws.
- Shoot Bolt Strike Plates-Head: 1 required; secure with two minimum No. 10 x 2-1/2" PFH screws
- Multi-point Strike Plate: 2 required; secure with two minimum No. 8 x 3/4" PFH screws PFH screws

Product Identification (Certification Agency Label on Door):

System		
1	Certification agency	WMDA
	Manufacturer's name or code name	Sierra Pacific Windows
	Product name	Clad Outswing Patio Door
	Test standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11
2-4	Certification agency	WMDA
	Manufacturer's name or code name	Sierra Pacific Windows
	Product name	Clad Arched Outswing Patio Door
	Test standards	AAMA/WDMA/CSA 101/I.S.2/A440-11
5-6	Certification agency	WMDA
	Manufacturer's name or code name	Sierra Pacific Windows
	Product name	Clad Outswing Patio Door
	Test standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11,17
7-13	Certification agency	WMDA
	Manufacturer's name or code name	Sierra Pacific Windows
	Product name	Clad Outswing Patio Door
	Test standards	AAMA/WDMA/CSA 101/I.S.2/A440-11

Impact Resistance:

System	Impact Resistant	Requirement
1-13	No	Provide an impact protective system when installing the product in areas that require windborne debris.

Installation:

Systems 1, 5-12: The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The door assembly is secured to the wall framing using a vinyl nailing fin. The nailing fin is secured to the wall framing using minimum No. 8 PPH screws. Located the screws approximately 2"-4" from the corners and 6"-8" on center along the perimeter. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

Systems 2-4: The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The door assembly is secured to the wall framing using an aluminum nailing fin at the head and a vinyl nailing fin at the side jambs and sill. Secure the nailing fin to the wall framing using minimum No. 8 PH screws spaced approximately 1"-3" from each corner and 7" on center. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

System 13: The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The door assembly is secured to the wall framing using a vinyl nailing fin. The nailing fin is secured to the wall framing using minimum No. 8 PPH screws. Located the screws approximately 2"-4" from the corners and 6"-8" on center along the perimeter. At the head and sill, place one

minimum No. 10 x 2-1/2" PFH screw spaced 2" from each side of the mull post. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

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.