

Product Evaluation

DR897 | 1221

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-897

Effective Date: December 1, 2021

Re-evaluation Date: September 2024

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

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

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Clad Wood Inswing Door; Structural Only; Manual Activated Shoot Bolts; XX	(74 x 98.5)-SHD	+50 / -50 psf
2	Clad Wood Inswing Door; Manual Activated Shoot Bolts; XXO	LC-PG25 (112 x 99)-SHD	+25 / -25 psf
3	Clad Wood Inswing Arch Top Door; Handle Activated Shoot Bolts; XX	LC-PG35 (75 x 99)-SHD	+35 / -35 psf
4	Clad Wood Inswing Door; Manual Activated Shoot Bolts; XX	LC-PG35 (71 x 120)-SHD	+35 / -40 psf

General Description:

System	Description	Label Rating	Design Pressure Rating
5	Clad Wood Inswing Door; Handle Activated Shoot Bolts; XX	LC-PG30 (71 x 120)-SHD	+30 / -30 psf
6	Clad Wood Inswing Door; Manual Activated Shoot Bolts; XX	LC-PG35 (75 x 99)-SHD	+35 / -35 psf

Product Dimensions:

System	Overall Size	Panel Size	Panel Daylight Opening Size
1, 3	75" x 98-1/2"	35-7/8" x 96"	27" x 84-1/4"
2	112" x 98-1/2"	36" x 96"	27" x 84"
4-5	70-7/8" x 119-1/2"	33-7/8" x 117"	25" x 103-1/4"
6	75" x 98-1/2"	36-7/8" x 96"	27" x 84-1/8"

Components and Hardware:**System 1:**

- Hinges: Four required per panel; secured to the door panel with four No. 9 x 1-1/2" PFH screws, and to the door jamb with three No. 8 x 3/4" and one No. 8 x 3" PFH screws
- Shoot bolt strike plate-head: one required; secured with two No. 10 x 2-1/2" PFH screws
- Shoot bolt strike plate-sill: one required; secured with three No. 10 x 2-1/2" PFH screws
- Latch and deadbolt strike plates: one each required; located on the passive panel; secured with two No. 8 x 3/4" PFH screws
- 5-point lock system: one required; located on the active door panel lock stile, center latch and deadbolt and 2 locks on the stile (1 at the head and 1 at the sill)
- 2-point lock system: one required; located on the passive panel; manual activated shoot bolt lock

System 2:

- Hinges: Four required: secure to the door panel with four No. 12 x 3/4" PFH screws, and to the door jamb with three No. 12 x 1-1/4" and one No. 10 x 2-1/2" PFH screws
- 3-point locking system: one required; located on the active door panel
- 2-point locking system: one required; located on the passive door panel; manual activated shoot bolt lock.
- Shoot bolt strike plate-head: one required; secured with two No. 10 x 2-1/2" PFH screws
- Shoot bolt strike plate-sill: one required; secured with three No. 10 x 2-1/2" PFH screws

System 3:

- Hinges: Four required per panel; secure to the door panel with four No. 12 x 3/4" PFH screws, and to the door jamb with three No. 12 x 1-1/4" PFH screws and one No. 9 x 3" PFH screw.

- GU handle activated 3-point lock with deadbolt: one required; located on the active panel
- Hoppe 2-point handle activated shoot bolt lock system with strike at the head and sill frame: one required; located on the inactive panel
- Shoot bolt strike plate-head: one required; secured with two No. 10 x 2-1/2" PFH screws
- Shoot bolt strike plate-sill: one required: secured with three No. 10 x 2-1/2" PFH screws

Systems 4-5:

- Hinges: Five required per panel; secure to the door panel with four No. 12 x 3/4" PFH screws, and to the door jamb with three No. 12 x 1-1/4" PFH screws and one No. 9 x 2-1/2" PFH screw.
- GU handle activated 3-point lock with independent deadbolt: one required; located on the active panel
- Hoppe 2-point manual activated shoot bolt lock system with strike at the head and sill frame: one required; located on the inactive panel (System 4)
- Hoppe 2-point handle activated shoot bolt lock system with strike at the head and sill frame: one required; located on the inactive panel (System 5)
- Shoot bolt strike plate-head: one required; secured with two No. 10 x 2-1/2" PFH screws
- Shoot bolt strike plate-sill: one required: secured with three No. 10 x 2-1/2" PFH screws

System 6:

- Hinges: Four required; secured to the door panel with four No. 12 x 3/4" PFH screws, and to the door jamb with three No. 12 x 1-1/4" and one No. 8 x 3" PFH screws
- GU handle activated 3-point lock with deadbolt: one required; located on the active panel
- Hoppe 2-point manual activated shoot bolt lock system with strike at the head and sill frame: one required; located on the inactive panel
- Shoot bolt strike plate-head: one required; secured with two No. 10 x 2-1/2" PFH screws
- Shoot bolt strike plate-sill: one required: secured with three No. 10 x 2-1/2" PFH screws

Product Identification (Certification Label on Door):

System		
1	Certification agency	WDMA
	Manufacturer's name	Sierra Pacific Windows
	Product name	Clad Inswing Patio Door
	Test standards	ASTM E330-02
2, 4-6	Certification agency	WDMA
	Manufacturer's name	Sierra Pacific Windows
	Product name	Clad Inswing Patio Door
	Test standards	AAMA/WDMA/CSA 101/I.S.2/A440-11

Product Identification (Certification Label on Door):

System		
3	Certification agency	WDMA
	Manufacturer's name	Sierra Pacific Windows
	Product name	Clad Inswing Arch Patio Door
	Test standards	AAMA/WDMA/CSA 101/I.S.2/A440-11

Impact Resistance:

System	Impact Resistant	Requirement
1-6	No	Provide an impact protective system when installing the product in areas that require windborne debris.

Installation:

Systems 1, 6: The wood wall framing members must be minimum Southern Yellow Pine dimension lumber. The door assembly is secured to the wall framing with a vinyl nailing fin at the head and side jambs. The nailing fin is secured to the wall framing with No. 8 PPH screws. Locate the screws approximately 2" 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 2: The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The door assembly is secured to the wall framing with a vinyl nailing fin at the head and side jambs. Secure the nailing fin to the wall framing with No. 8 screws. Locate the screws approximately 1"-3" from each corner and 7" on center. At the sill, locate one No. 10 x 2-1/2" PFH screw approximately 2" on the stationary panel side of the mull post. On the stationary panel side jamb, secure one 6" x 1-1/2" x 20-gauge galvanized steel clip, 6" up from the sill. Secure the clip with three No. 6 x 1/2" PFH screws into the door frame and two No. 8 PFH screws into the wall framing. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

System 3: The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The door assembly is secured to the wall framing with an applied vinyl nailing fin at the side jambs and an aluminum structural nailing fin at the head. The nailing fin is secured to the wall framing with 2" long, minimum 12-gauge, smooth shank roofing nails. Locate the nails 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.

Systems 4-5: The wood wall framing members must be minimum Southern Yellow Pine dimension lumber. The door assembly is secured to the wall framing with an applied vinyl nailing fin at the head and side jambs. The nail fin is secured to the wall framing with 2" long, minimum 12-gauge, smooth shank roofing nails. Locate the nails 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.

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.