

Product Evaluation

DR1163 | 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-1163

Effective Date: May 1, 2021

Re-evaluation Date: May 2025

Product Name: Ultimate Clad and Wood Inswing Hinged French Doors, Impact Resistant

Manufacturer: Marvin
P.O. Box 100
Highway 11 West
Warroad, MN 56763
(218) 386-4021

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Ultimate Clad Wood Inswing Hinged French Doors; OX	LC-PG55 (72.63 x 95.5) Missile Level D	+55 / -65 psf
2	Ultimate Clad Wood Inswing Hinged French Doors; XX	LC-PG55 (72.63 x 95.5) Missile Level D	+55 / -65 psf
3	Ultimate Prime Wood Inswing Hinged French Doors; OX	LC-PG55 (72.6 x 95.5) Missile Level D	+55 / -65 psf
4	Ultimate Prime Wood Inswing Hinged French Doors; XX	LC-PG55 (72.63 x 95.5) Missile Level D	+55 / -65 psf

Product Dimensions:

System	Overall Size	Operable Panel Size	Panel Daylight Opening Size
1-4	72-5/8" x 95-1/2"	35-1/16" x 92-1/2"	25-5/8" x 79-5/8"

Components and Hardware:

- **Hinges:** six required, three per door panel; secure to the door panel with four No. 10 x 1-1/2" screws and to the door jamb with five No. 10 x 1" screws.
- **Multipoint Lock with deadbolt (3-point):** one required; located on the active panel; center latch and deadbolt into astragal strikes; shoot bolts at the head and sill
- **Multipoint lock (2-point):** one required; located on the passive panel; shoot bolts at the head and sill.
- **Latch and deadbolt strike plates:** one each required; secure with two No. 8 x 1" screws
- **Shoot bolt strike plate at the head:** one required; secure to the door frame with two No. 8 x 5/8" PFH screws
- **Shoot bolt strike plate at the sill:** one required; secure to the door frame with two No. 8 x 1" PFH screws.
- **Stile end plate:** four required, one at each end of the locking stiles; secured with one No. 8 x 3" FH screws.
- **Sill strike reinforcement:** Located at the sill at each locking stile
- **Sill backer plate:** Located inside the sill hollow at each locking stile.
- **Header reinforcement:** Located at the head at each locking stile; secured with two No. 8 x 1" PFH screws.

Product Identification (Certification Label on Door):

System		
1-2	Certification agency	WDMA
	Manufacturer's name or code name	Marvin
	Product name	UL INS FRDR IZ3
	Test standards	AAMA/WDMA/CSA 101/I.S.2/A440-11,17 ASTM E1886-13a/E1996-14a Missile Level D
3-4	Certification agency	WDMA
	Manufacturer's name or code name	Marvin
	Product name	UL WD INS FRDR IZ3
	Test standards	AAMA/WDMA/CSA 101/I.S.2/A440-11,17 ASTM E1886-13a/E1996-14a Missile Level D

Impact Resistance:

System	Impact Resistant	Requirement
1-4	Yes	These products satisfy TDI's criteria for protection from windborne debris. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

Installation:

Option 1: The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The door assembly is secured to the wall framing with No. 8 x 3" screws. Along the head and side jambs, locate the screws approximately 6" from each corner and spaced 12" on center. Along the sill, three No. 10 x 3" screws were placed through the oak liner and into the wall framing at the center spaced 3-1/8" apart. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

Option 2: The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The door assembly is secured to the wall framing with galvanized steel structural brackets (1-1/16" x 6-1/2" x 0.050"). Locate the brackets approximately 6" from each corner and 15" on center. Secure each bracket to the door frame with two No. 8 x 5/8" screws and to the wall framing with four No. 8 x 1-1/2" screws (two on the interior and two on the exterior). Along the sill, three No. 10 x 3" screws were placed through the oak liner and into the wall framing at the center spaced 3-1/8" apart. 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.