



Product Evaluation

DR311 | 0615

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-311

Effective Date: June 1, 2015

Re-evaluation Date: November 2018

Product Name: Clad Ultimate Wood Glazed Hinged Inswing French Doors, Non-Impact Resistant

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

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Clad Ultimate Wood Glazed Hinged Inswing French Doors; OXXO	LC-PG40 143 x 95.5 SHD-LC40 143 x 95.5	+40 / -40 psf
2	Clad Ultimate Wood Glazed Hinged Inswing French Doors	LC-PG30 167 x 95.5 SHD-LC30 167 x 95.5	+30 / -30 psf

Product Dimensions:

System	Overall Size	Operating/Stationary Panel Size	Panel Glass Daylight Opening Size
1	143" x 95-1/2"	35-1/16" x 92-1/2"	25-9/16" x 79-5/8"
2	167" x 95-1/2"	41-1/16" x 92-1/2"	31-9/16" x 79-5/8"

Hardware:

- **3-point Lock:** Located on the active door panel lock stile. Center latch and deadbolt into astragal strikes, 2 end shoot bolts into a strike at the head and the sill.

Hardware (continued):

- **2-point Lock:** Located on the passive door panel stile. 2 hand activated shoot bolts into a strike at the head and the sill.
- **Latch and Deadbolt Strike Plates:** One (1) required; locate on passive door panel astragal; secured with two (2) No. 8 x 1" screws.
- **Shoot Bolt Strike Plate – Head (for 3-point and 2-point locks);** one (1) required; secured with two (2), No. 8 x 1" screws.
- **Shoot Bolt Strike Plate – Sill (for 5-point and 3-point locks);** one (1) required; secured with two (2), No. 8 x 1" screws.
- **Hinges:** Six (6) required (three (3) per door panel); secured to the door panel with four (4), No. 9 x 1" screws; secured to the door jamb with four (4), No. 9 x 1" screws.
- **Sill Bolts:** Two (2) required; engage the bottom of the mull post to the sill, one on each mull post; secured with two (2), No. 8 x 3" screws.

Sill: Fiberglass reinforce plastic with an oak liner to the interior; Ultrex; 4-9/16" height

Product Identification (Certification Label on Door):

System		
1, 2	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Marvin Windows and Doors
	Product Name	Clad Ultimate Inswing French Door
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA/WDMA/CSA 101/I.S.2/A440-05

Impact Resistance:

System	Impact Resistant	Requirement
1, 2	No	Provide an impact protective system when installing the product in areas that require windborne debris protection.

Installation:

System 1: Secure the door to minimum Southern Yellow Pine dimension lumber wall framing. At the head and jambs, use minimum No. 8 x 3" screws. Space the fasteners approximately 6" from each corner and 12" on center through the frame. At the sill, use minimum No. 8 screws through the frame at each mull post location and at the mid span of the sill. The fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members. Use construction adhesive at the sill.

System 2: Secure the door to minimum Southern Yellow Pine dimension lumber wall framing. At the head and side jambs use clips (0.050" x 1.56" x 6-8" galvanized steel). Each clip is secured to the door frame with two (2) No. 7 x 5/8" screws and to the wall framing with two (2) No. 8 screws. Space the clips approximately 6" from each corner and 12" on center. At the sill, use minimum No. 8 screws through the frame at each mull post location and at the mid span of the sill. The fasteners must be

long enough to penetrate a minimum of 1-1/2" into the wall framing members. Use construction adhesive at the sill.

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