



# Product Evaluation

DR320 | 0816

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-320

**Effective Date:** August 1, 2016

**Re-evaluation Date:** September 2020

**Product Name:** 2-1/4" Clad and Wood Glazed Hinged Outswing French Doors, 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	2-1/4" Clad Glazed Hinged Outswing French Doors	LC-PG55 73.62 x 119.5 Missile Level D	+55 / -65 psf
2	2-1/4" Wood Glazed Hinged Outswing French Doors	LC-PG55 73.62 x 119.5 Missile Level D	+55 / -65 psf

### Product Dimensions:

System	Overall Size	Operating/Stationary Panel Size	Panel Glass Daylight Opening Size
1	72-5/8" x 119-1/2"	35-1/16" x 116-1/2"	23-3/32" x 102-3/8"
2	72-5/8" x 119-1/2"	35-1/16" x 116-1/2"	23-3/32" x 102-3/8"

**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.
- **2-point Lock:** Located on the passive door panel stile. 2 end shoot bolts into a strike at the head and the sill.
- **Latch and Deadbolt Strike Plates:** One required; locate on passive door panel astragal; secured with two No. 8 x 1" screws.
- **Stile End Plate:** One at each end of the locking stiles (shoot bolt locations); each secured with one No. 8 x 3" FH screw.
- **Sill Strike Reinforcement:** Located inside the sill hollow at each lock stile
- **IZ3 Sill Strike Backer Plate;** Located at the sill at each locking stile.
- **Header Reinforcement Brackets:** Located at the head at each locking stile; secured with two No. 8 x 1" PFH screws.
- **Shoot Bolt Strike Plate – Head (for 3-point and 2-point locks);** one required at each location; secured to the door frame head with two, No. 8 x 1" PFH screws.
- **Shoot Bolt Strike Plate – Sill (for 3-point and 2-point locks);** one required at each location; secured to the sill with two, No. 8 x 5/8" PFH screws.
- **Hinges:** Three per door panel; secured to the door panel with four, No. 10 x 1-1/2" screws; secured to the door jamb with five, No. 10 x 1" 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	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Marvin Windows and Doors
	Product Name	2-1/4" C Outswing French Door IZ3
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886-02/05, ASTM E 1996-02/05 Missile Level D
2	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Marvin Windows and Doors
	Product Name	2-1/4" W Outswing French Door IZ3
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886-02/05, ASTM E 1996-02/05 Missile Level D

**Impact Resistance:**

System	Impact Resistant	Requirement
1, 2	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 and 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 No. 7 x 5/8" screws and to the wall framing with two No. 8 screws. Space the clips approximately 6" from each corner and 15" on center. At the sill, use minimum No. 8 screws through the oak liner at the center of the sill approximately 3-1/8" apart. 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.