

## Product Evaluation

WIN2677 | 0122

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:** WIN-2677

**Effective Date:** January 1, 2022

**Re-evaluation Date:** April 2023

**Product Name:** Ultimate Prime Wood and Aluminum Clad Wood Direct Glaze Round Top Fixed Windows, Frame Installation, 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 Direct Glaze Round Top Fixed Window; O	CW-PG55 (48 x 120) Missile Level D	+55 / -65 psf
2	Ultimate Prime Wood Direct Glaze Round Top Fixed Window; O	CW-PG55 (73 x 73.94) Missile Level D	+55 / -65 psf
3	Ultimate Clad Wood Direct Glaze Round Top Fixed Window; O	CW-PG55 (73 x 73) Missile Level D	+55 / -65 psf

**Product Dimensions:**

System	Overall Size	Fixed Sash Daylight Opening Size
1	48" x 120"	44-7/8" x 116-7/8"
2	73" x 73-15/16"	69-1/16" x 69-1/16"
3	73" x 73"	69-7/8" x 69-7/8"

**Product Identification (Certification Label on Window):**

System		
1, 3	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Marvin
	Product Name	UL DIR GLZ RT IZ3
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11 ASTM E1886/E1996-02,05 Missile Level D
2	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Marvin
	Product Name	UL WD DIR GLZ RT IZ3
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11 ASTM E1886/E1996-02,05 Missile Level D

**Impact Resistance:**

System	Impact Resistant	Requirement
1-3	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:****System 1**

**Option 1:** The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window frame is secured to the wall framing with No. 8 x 2-1/2" screws. Locate the screws approximately 6" from each corner and 15" on center. 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 window frame is secured to the wall framing with structural brackets (1-9/16" x 6-1/2" x 0.050"). Locate the brackets approximately 6" from each corner and 15" on center. Each bracket is secured to the window frame with two No. 8 x 5/8" screws and to the wall framing interior and exterior with two No. 8 screws. 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 window frame is secured to the wall framing with structural brackets (1-9/16" x 6-1/2" x 0.050"). Locate the brackets approximately 6" from each corner and 15" on center. Each bracket is secured to the window frame with two No. 8 x 5/8" screws and to the wall framing interior and exterior with two No. 8 screws. 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 window frame is secured to the wall framing with No. 8 x 2-1/2" screws. Locate the screws approximately 6" from each corner and 15" on center, 4" below springline along the side jambs, 1-1/2" above springline, at 1/4 points and 1/2 points of radius along the head. 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.