

## Product Evaluation

WIN2645 | 1223

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-2645

**Effective Date:** December 1, 2023

**Re-evaluation Date:** January 2025

**Product Name:** Ultimate Prime Wood and Aluminum Clad Wood Awning 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 Prime Wood Awning Window; X	LC-PG65 (48 x 53.12) Missile Level D	+65 / -65 psf
2	Ultimate Clad Wood Awning Window; X	LC-PG65 (48 x 53.12) Missile Level D	+65 / -65 psf
3	Ultimate Clad Wood Push-Out Awning Window; X	LC-PG65 (72 x 35.12) Missile Level D	+65 / -65 psf

**Product Dimensions:**

System	Overall Size	Operable Sash Size	Sash Daylight Opening Size
1-2	48" x 53-1/8"	46-5/16" x 51-7/16"	42-1/4" x 47-3/8"
3	72" x 35-1/8"	70-5/16" x 33-7/16"	66-1/4" x 29-3/8"

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

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

**Compliance:** The products comply with ASTM E 1886-13a and ASTM E 1996-14a as referenced in the 2018 IRC and 2018 IBC.

**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:**

**Systems 1-3:** The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing with No. 8 x 3" screws. Locate the screws approximately 4" from each corner and 15" on center along the perimeter of the window. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

**Systems 2-3 (Optional Method):** The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing with structural brackets (20-gauge x 7.151" x 1.477 galvanized steel). Secure the brackets to the window frame with two (2) No. 7 x 5/8" screws and to the wall framing with four (4) No. 8 screws. Locate the brackets approximately 6" from each corner and 13" 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.