

## Product Evaluation

WIN2649 | 0823

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-2649

**Effective Date:** August 1, 2023

**Re-evaluation Date:** August 2027

**Product Name:** Ultimate Prime Wood and Aluminum Clad Wood Casement Picture Windows, Fin and 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 Casement Picture Window; O	CW-PG65 (36 x 84.06) FW-C65 (36 x 84.06) Missile Level D	+65 / -65 psf
2	Ultimate Clad Wood Casement Picture Window; O	CW-PG65 (104.68 x 60) FW-C65 (104.68 x 60) Missile Level D	+60 / -60 psf
3	Ultimate Clad Wood Push-Out Casement Picture Window; O	CW-PG65 (104.68 x 60) FW-C65 (104.68 x 60) Missile Level D	+60 / -60 psf

**General Description (continued):**

<b>System</b>	<b>Description</b>	<b>Label Rating</b>	<b>Design Pressure Rating</b>
4	Ultimate Prime Wood Casement Picture Window; O	CW-PG65 (105.62 x 60) FW-C65 (105.62 x 60) Missile Level D	+60 / -60 psf
5	Ultimate Prime Wood Push-Out Casement Picture Window; O	CW-PG65 (105.62 x 60) FW-C65 (105.62 x 60) Missile Level D	+60 / -60 psf
6	Ultimate Clad Wood Casement Picture Window; O	CW-PG65 (72 x 76.5) FW-C65 (72 x 76.5) Missile Level D	+65 / -65 psf
7	Ultimate Clad Wood Push-Out Casement Picture Window; O	CW-PG65 (72 x 76.5) FW-C65 (72 x 76.5) Missile Level D	+65 / -65 psf
8	Ultimate Prime Wood Casement Picture Window; O	CW-PG65 (72 x 77.43) FW-C65 (72 x 77.43) Missile Level D	+65 / -65 psf
9	Ultimate Prime Wood Push-Out Casement Picture Window; O	CW-PG65 (72 x 77.43) FW-C65 (72 x 77.43) Missile Level D	+65 / -65 psf
10	Ultimate Clad Wood Casement Picture Window; O	CW-PG65 (36 x 83.12) FW-C65 (36 x 83.12) Missile Level D	+65 / -65 psf

**Product Dimensions:**

<b>System</b>	<b>Overall Size</b>	<b>Fixed Sash Daylight Opening Size</b>
1	36" x 84-1/16"	30-3/16" x 77-5/16"
2-3	104-11/16" x 60"	98-7/8" x 54-3/16"
4-5	105-5/8" x 60"	54-3/16" x 98-7/8"
6-7	72" x 76-1/2"	66-3/16" x 70-11/16"
8-9	72" x 77-7/16"	66-3/16" x 70-11/16"
10	36" x 83-1/8"	30-3/16" x 77-3/16"

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

System		
1	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Marvin
	Product Name	UL WD CSMNT STAT IZ3
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11,17 ASTM E1886-13a/E1996-14a Missile Level D
2, 6	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Marvin
	Product Name	UL CSMNT P IZ3
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11,17 ASTM E1886-13a/E1996-14a Missile Level D
3, 7	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Marvin
	Product Name	UL CSMNT PO P IZ3
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11,17 ASTM E1886-13a/E1996-14a Missile Level D
4, 8	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Marvin
	Product Name	UL WD CSMNT P IZ3
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11,17 ASTM E1886-13a/E1996-14a Missile Level D
5, 9	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Marvin
	Product Name	UL WD CSMNT PO P IZ3
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11,17 ASTM E1886-13a/E1996-14a Missile Level D
10	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Marvin
	Product Name	UL CSMNT STAT 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
1-10	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		
1-10	Type of Installation	Screw Thru Frame Installation
	Wall Framing	Spruce-Pine-Fir dimension lumber
	Fasteners	No. 8 x 3" screws
	Fastener Location/Spacing	6" from each corner and 15" (max.) on center
	Fastener Penetration	Minimum of 1-1/2" into the wall framing
10	Type of Installation	Frame Installation Structural Brackets: (0.698" x 1.50" x 0.031")
	Wall Framing	Screw Through Frame
	Fasteners	No. 8 x 3" screws
	Fastener Location/Spacing	6" from each corner and 13" (max.) on center
	Fastener Penetration	Minimum of 1-1/2" into the wall framing
10	Type of Installation	Nail Fin Installation
	Wall Framing	Spruce-Pine-Fir dimension lumber
	Fasteners	2" long smooth shank galvanized roofing nails
	Fastener Location/Spacing	6" from each corner and 8" (max.) on center
	Fastener Penetration	Minimum of 1-1/2" into the wall framing

**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.