

## Product Evaluation

WIN2448 | 1021

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-2448**Effective Date:** October 1, 2021**Re-evaluation Date:** October 2025**Product Name:** Premium Vinyl (V-4500) Fixed Direct Set Casement Windows, Impact Resistant**Manufacturer:** JELD-WEN Windows & Doors

3737 Lakeport Blvd.

Klamath Falls, OR 97601

(541) 882-3451

**General Description:**

System	Description	Label Rating	Design Pressure Rating
1	Premium Vinyl (V-4500) Fixed Direct Set Casement Windows; O	LC-PG50 (36 x 72)-FW Missile Level C	+50 / -55 psf
2	Premium Vinyl (V-4500) Triple Fixed Direct Set Casement Windows; OOO	LC-PG50 (108 x 72)-FW Missile Level C	+50 / -55 psf

**Product Dimensions:**

System	Overall Size	Fixed Sash Daylight Opening Size
1	36.02" x 72.05"	30.87" x 66.73"
2	107.91" x 71.93"	Three: 30.87" x 67.09"

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

System		
1-2	Certification Agency	AAMA
	Manufacturer's Name or Code Name	JW-6, JW-12, or JW-18
	Product Name	Premium VYL (V-4500) DS Casement
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 AAMA 506; Missile Level C

**Impact Resistance:**

System	Impact Resistant	Requirement
1-2	Yes	These products satisfy TDI's criteria for protection from windborne debris. Install in areas where the basic ultimate windspeed is less than 150 mph and greater than one mile from the coastline. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

**Installation:****System 1:**

**Nail Fin Installation:** The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using a nailing fin. The nailing fin is secured to the wall framing using minimum No. 8 PH screws. Locate the screws approximately 4" from each corner and 9.5" on center along the head and sill. Along the side jambs, locate the screws approximately 4" from each corner and 4" on center. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

**Masonry Strap Installation:** The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using metal masonry straps. Straps must be minimum 6" long, 1-1/2" wide, and made of 20-gauge galvanized steel. Secure the straps to the window frame using four (4) minimum No. 8 x 4" PH screws and to the wall framing using two (2) minimum No. 8 PH screws. Locate the straps approximately 4" from each corner and at the midspan of the head and sill. Along the side jambs, locate the straps approximately 4" 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.

**System 2:****Nail Fin Installation:**

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using a nailing fin. The nailing fin is secured to the wall framing using minimum No. 8 PH screws. Locate the screws approximately 4", 16-1/2", 29", 31", 40-1/2", and 42-1/2" along the head and sill. Along the side jambs, locate the screws approximately 4" from each corner and 12-1/2" on center. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

**Masonry Strap Installation:**

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using metal masonry straps. Straps must be minimum 6" long, 1-1/2" wide, and made of 20-gauge galvanized steel. Secure the straps to the window frame using four (4) minimum No. 8 PH screws and to the wall framing using two (2) minimum No. 8 PH screws. Locate the straps approximately 4", 18", 32", 34", 38", and 40" from each end of the head and sill. Along the side jambs, locate the straps approximately 4" from each corner and 12-1/2" 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.