

Product Evaluation

WIN1776 | 0324

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 1-800-248-6032.

Evaluation ID: WIN-1776

Effective Date: March 1, 2024

Re-evaluation Date: August 2027

Product Name: Essential Direct Glaze Fiberglass Round Top Fixed Window, Fin and Frame Installation, Non-Impact Resistant

Manufacturer: Marvin
1320 9th Street NE
West Fargo, ND 58078
(800) 587-2712

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Essential Direct Glaze; Round Top	LC-PG50 (65 x 65)-FW	+60 / -60 psf
2	Essential Direct Glaze; Round Top	LC-PG50 (87 x 50)-FW	+55 / -55 psf

Product Dimensions:

System	Overall Size	Fixed Glass Daylight Opening Size
1	65" x 65"	61-9/16" x 61-9/16"
2	87" x 50"	83-5/8" x 46-5/8"

Product Identification (Certification Label on Window):

System		
1-2	Certification agency	WDMA
	Manufacturer's name or code name	Marvin
	Product name	Essential Round Top
	Test standards	AAMA/WDMA/CSA 101/I.S.2/A440-11,17

Impact Resistance:

System	Impact Resistant	Requirement
1-2	No	Provide an impact protective system when installing the product in areas that require windborne debris protection.

Installation:**Nail Fin Installation (System 1):**

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 flange. The nailing flange is secured to the wall framing with minimum 2" long smooth shank roofing nails with a 0.12" (11-gauge) shaft diameter and a 0.39" head. The fasteners must be spaced approximately 6" from each corner and 7" on center along the perimeter of the window. The fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

Frame-Bracket Installation (System 2):

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. Brackets must be secured to the window frame using two (2) minimum No. 7 x 5/8" screws. The window assembly must be secured to the wall framing using minimum No. 8 x 3" screws. The brackets must be made of galvanized steel and must be minimum 2.315" long, 1.563" wide, 0.050" thick. Locate the brackets approximately 4" from each corner and two (2) at the mid-point of the head spaced approximately 4" apart. The 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.