

Product Evaluation

WIN1937 | 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 1-800-248-6032.

Evaluation ID: WIN-1937

Effective Date: December 1, 2023

Re-evaluation Date: August 2027

Product Name: Essential Casement Fiberglass Windows, Fin 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 Casement	LC-PG40 (27.4 x 71.5)-C	+40 / -40 psf
2	Essential Casement	LC-PG40 (35.5 x 34)-C	+40 / -40 psf
3	Essential Casement	LC-PG40 (35.5 x 54)-C	+40 / -40 psf
4	Essential Casement	LC-PG40 (35.5 x 71.5)-C	+40 / -40 psf

Product Dimensions:

System	Overall Size	Operable Sash Size
1	27-7/16" x 71-1/2"	25-1/2" x 69-1/2"
2	35-1/2" x 34"	33-1/2" x 32"
3	35-1/2" x 54"	33-1/2" x 51-5/8"
4	35-1/2" x 71-1/2"	33-1/2" x 69-1/2"

Product Identification (Certification Label on Window):

System		
1-4	Certification agency	WDMA
	Manufacturer's name or code name	Marvin
	Product name	Essential Casement
	Test standards	AAMA/WDMA/CSA 101/I.S.2/A440-11, -17

Impact Resistance:

System	Impact resistant	Requirement
1-4	No	Provide an impact protective system when installing the product in areas that require windborne debris protection.

Installation:

System		
1-4	Type of Installation	Nail Fin Installation
	Wall Framing	Douglas-Fir dimension lumber
	Fasteners	Minimum 2" long smooth shank roofing nails with a 0.12" (11-gauge) shaft diameter and a 0.39" head.
	Fastener Location/Spacing	Approximately 6" from each corner and 8" on center along the perimeter
	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.