

Product Evaluation

WIN2249 | 0423

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-2249

Effective Date: April 1, 2023

Re-evaluation Date: September 2026

Product Name: Essential Double Hung Fiberglass Windows, Nail Fin Installation, Non-Impact Resistant

Manufacturer: Marvin
P.O. Box 100
Highway 11 West
Warroad, MN 56763
(800) 346-5044

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Essential Double Hung Window; X/X	LC-PG50 29.5 x 59.5	±50 psf
2		LC-PG40 29.5 x 77.7	±40 psf
3		LC-PG50 35.5 x 59.5	±50 psf
4		LC-PG40 35.5 x 77.7	±40 psf
5		LC-PG40 41.5 x 65.5	±40 psf
6		LC-PG50 47.5 x 47.5	±50 psf
7		LC-PG40 47.5 x 59.5	±40 psf
8		LC-PG30 47.5 x 77.7	±30 psf

Product Dimensions:

System	Overall Size	Exterior Sash Size	Interior Sash Size
1	29-1/2" x 59-1/2"	27-1/4" x 29"	27-1/4" x 29"
2	29-1/2" x 77-11/16"	27-1/4" x 38-1/16"	27-1/4" x 38-1/16"
3	35-1/2" x 59-1/2"	33-1/4" x 29"	33-1/4" x 29"
4	35-1/2" x 77-11/16"	33-1/4" x 38-1/16"	33-1/4" x 38-1/16"
5	41-1/2" x 65-1/2"	39-1/4" x 32"	39-1/4" x 32"
6	47-1/2" x 47-1/2"	45-1/4" x 23"	45-1/4" x 23"
7	47-1/2" x 59-1/2"	45-1/4" x 29"	45-1/4" x 29"
8	47-1/2" x 77-11/16"	45-1/4" x 38-1/16"	45-1/4" x 38-1/16"

Product Identification (Certification Label on Window):

System		
1-8	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Marvin
	Product Name	Essential Double Hung
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA/WDMA/CSA 101/I.S.2/A440-11

Impact Resistance:

System	Impact Resistant	Requirement
1-8	No	Provide an impact protective system when installing the product in areas that require windborne debris protection.

Installation:

System		
1-8	Type of Installation	Nailing Fin
	Wall Framing	Spruce-Pine-Fir dimension lumber
	Fasteners	11-gauge galvanized smooth shank roofing nail, 2" long
	Fastener Location/Spacing	Locate the fasteners approximately 6" from each corner and approximately 7" on center along perimeter of the window
	Fastener Penetration	Use fasteners 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.