

Product Evaluation

WIN1243 | 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-1243

Effective Date: April 1, 2023

Re-evaluation Date: October 2026

Product Name: Essential Fiberglass Single Hung 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 Single Hung Windows	LC-PG50 29.5 x 59.5	±50 psf
2	Essential Single Hung Windows; Reverse Cottage	LC-PG30 29.5 x 71.5	±30 psf
3	Essential Single Hung Windows; Cottage	LC-PG30 29.5 x 71.5	±30 psf
4	Essential Single Hung Windows	LC-PG40 29.5 x 77.7	±40 psf
5	Essential Single Hung Windows; Cottage	LC-PG25 29.5 x 77.5	±25 psf
6	Essential Single Hung Windows; Reverse Cottage	LC-PG25 29.5 x 77.5	±25 psf

General Description (continued):

System	Description	Label Rating	Design Pressure Rating
7	Essential Single Hung Windows	LC-PG50 35.5 x 59.5	±50 psf
8	Essential Single Hung Windows; Cottage	LC-PG30 35.5 x 71.5	±30 psf
9	Essential Single Hung Windows; Reverse Cottage	LC-PG30 35.5 x 71.5	±30 psf
10	Essential Single Hung Windows	LC-PG40 35.5 x 77.7	±40 psf
11	Essential Single Hung Windows	LC-PG40 41.5 x 65.5	±40 psf
12	Essential Single Hung Windows	LC-PG50 47.5 x 47.5	±50 psf
13	Essential Single Hung Windows	LC-PG40 47.5 x 59.5	±40 psf
14	Essential Single Hung Windows	LC-PG30 47.5 x 77.7	±30 psf
15	Essential Single Hung Windows; Reverse Cottage	LC-PG25 47.5 x 77.5	±25 psf
16	Essential Single Hung Windows; Cottage	LC-PG25 47.5 x 77.5	±25 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 71-1/2"	27-1/4" x 41-11/16"	27-1/4" x 28-5/16"
3	29-1/2" x 71-1/2"	27-1/4" x 28-5/16"	27-1/4" x 41-11/16"
4	29-1/2" x 77-11/16"	27-1/4" x 38-1/8"	27-1/4" x 38-1/8"
5	29-1/2" x 77-1/2"	27-1/4" x 30-3/4"	27-1/4" x 45-5/16"
6	29-1/2" x 77-1/2"	27-1/4" x 45-5/16"	27-1/4" x 30-3/4"
7	35-1/2" x 59-1/2"	33-1/4" x 29"	33-1/4" x 29"
8	35-1/2" x 71-1/2"	33-1/4" x 28-5/16"	33-1/4" x 41-11/16"
9	35-1/2" x 71-1/2"	33-1/4" x 41-11/16"	33-1/4" x 28-5/16"
10	35-1/2" x 77-11/16"	33-1/4" x 38-1/8"	33-1/4" x 38-1/8"
11	41-1/2" x 65-1/2"	39-1/4" x 32"	39-1/4" x 32"
12	47-1/2" x 47-1/2"	45-1/4" x 23"	45-1/4" x 23"
13	47-1/2" x 59-1/2"	45-1/4" x 29"	45-1/4" x 29"
14	47-1/2" x 77-11/16"	45-1/4" x 38-1/16"	45-1/4" x 38-1/16"
15	47-1/2" x 77-1/2"	45-1/4" x 45-5/16"	45-1/4" x 30-3/4"
16	47-1/2" x 77-1/2"	45-1/4" x 30-3/4"	45-1/4" x 45-5/16"

Product Identification (Certification Label on Window):

System		
1-16	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Marvin
	Product Name	Essential Single 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
1-16	No	Provide an impact protective system when installing the product in areas that require windborne debris protection.

Installation:

System		
1-16	Type of Installation	Nailing Flange
	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.