

Product Evaluation

WIN1398 | 0922

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-1398

Effective Date: September 1, 2022

Re-evaluation Date: August 2026

Product Name: Builder Series 4812F Thermally Broken Aluminum Single Hung Windows, Fin Installation, Non-Impact Resistant

Manufacturer: Ply Gem Windows & Doors
433 North Main Street
Rocky Mount, VA 24151
(800) 542-9118 ext. 413596

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Builder Series 4812F TB Aluminum Single Hung Windows	H-LC50 (48 x 84)	+50 / -60 psf
2	Builder Series 4812F TB Aluminum Single Hung Windows	H-LC30 (48 x 96)	+30 / -30 psf

Product Dimensions:

System	Overall Size	Operable Sash Size	Fixed Sash Daylight Opening Size
1	48" x 84"	46-1/4" x 35-7/8"	44-5/16" x 45-9/16"
2	48" x 96"	46-1/8" x 29-3/8"	44-3/8" x 63-9/16"

Product Identification (Certification Label on Window):

System		
1-2	Certification Agency	NAMI
	Manufacturer's Name or Code Name	PWG-M-160 (BTX)
	Product Name	4812F Single Hung
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05

Compliance: The products comply with AAMA/WDMA/CSA 101/I.S.2/A440-17 as referenced in the 2018 IRC and 2018 IBC.

Impact Resistance:

System	Impact Resistant	Requirement
1-2	No	These products have not been tested for windborne debris resistance. An impact protection system is required when installing this product in areas where windborne debris protection is required.

Installation:

System		
1	Type of Installation	Nail Fin Installation
	Wall Framing	Southern Yellow Pine dimension lumber
	Fasteners	No. 8 modified truss head screws
	Fastener Location/Spacing	4" from each corner and 9" on center along the side jamba; 4" from each corner and 12" on center along the head and sill
	Fastener Penetration	Minimum of 1-1/2" into the wall framing
2	Type of Installation	Nail Fin Installation
	Wall Framing	Southern Yellow Pine dimension lumber
	Fasteners	No. 8 modified truss head screws
	Fastener Location/Spacing	6" from each corner and 12" 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.