

Product Evaluation

WIN1415 | 1022

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-1415

Effective Date: October 1, 2022

Re-evaluation Date: November 2026

Product Name: Series 4712FIR/4712FLFIR/4812FIR Aluminum Single Hung Windows, Fin or Frame Installation, 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	Series 4712FIR/4712FLFIR/4812FIR Aluminum Single Hung Windows	H-LC50 (48 x 84) Missile Level D	+50 / -57 psf
2	Series 4712FIR/4712FLFIR/4812FIR Aluminum Single Hung Windows	H-R50 (53 x 72) Missile Level D	+50 / -57 psf

Product Dimensions:

System	Overall Size	Operable Sash Size	Fixed Sash Daylight Opening Size
1	48" x 84"	44-3/8" x 45-5/8"	46-1/8" x 35-3/8"
2	53" x 72"	51-1/8" x 35-3/4"	49-7/16" x 33-1/4"

Product Identification (Certification Label on Window):

System		
1	Certification Agency	NAMI
	Code Name	PWG-M-159 (BTX)
	Product Name	4712FIR/4712FLIR/4812FIR Impact Single Hung
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05,08,11,17 ASTM E1886-05,13a/E1996-05b,09,14a Missile Level D
2	Certification Agency	NAMI
	Code Name	PWG-M-159 (BTX)
	Product Name	4712FIR/4812FIR/4712FLIR Impact Single Hung
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05,08,11,17 ASTM E1886-05,13a/E1996-05b,09,14a Missile Level D

Impact Resistance:

System	Impact Resistant	Requirement
1-2	Yes	These products have been tested for windborne debris resistance. They satisfy Missile Level D requirements specified in ASTM E 1996-14a.

Installation (One of the Following):

System		
1-2	Type of Installation	Screw Through Frame
	Wall Framing	Southern Yellow Pine dimension lumber
	Fasteners	No. 10 x 2" bugle head screws
	Fastener Location/Spacing	4" from each corner and at the center along the head; 4" from each corner and 20" on center along the side jambs
	Fastener Penetration	Minimum of 1-1/2" into the wall framing
1-2	Type of Installation	Nail Fin Installation
	Wall Framing	Southern Yellow Pine dimension lumber
	Fasteners	No. 8 screws
	Fastener Location/Spacing	Head/Sill: 4" from each corner and 12" on center Side Jambs: 4" from each corner and 9" on center
	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.