

Product Evaluation

WIN2473 | 0520

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-2473

Effective Date: May 1, 2020

Re-evaluation Date: April 2023

Product Name: Premium Coastal Model 1109 Aluminum Clad Wood Double Hung Tilt Fixed Windows, Impact Resistant

Manufacturer: Weather Shield Mfg., Inc.
One Weather Shield Plaza
Medford, WI 54451
(715) 748-2100

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Premium Coastal Model 1109 Twin Double Hung Tilt Fixed Windows	CW-PG55 (59.5 x 83.5)-FW CW-PG55 Span (83.5) x TW (59.5)-MA Missile Level D	+55 / -70 psf

Product Dimensions:

System	Overall Size	Fixed Sash Size
1	119" x 83.50"	57.53" x 81.23"

Product Identification (Certification Label on Window):

System		
1	Certification Agency	WDMA
	Manufacturer's Name	Weather Shield
	Product Name	Model 1109 Premium Coastal Double Hung Picture Clad Wood (Fixed Window) Model 1109 Premium Coastal Twin Double Hung Picture Clad Wood (Mullion)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 AAMA 450-10 ASTM E1886-05/E1996-12; Missile Level D

Impact Resistance:

System	Impact Resistant	Requirement
1	Yes	These products satisfy TDI's criteria for protection from windborne debris. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

Installation (One of the Following):**Nail Fin Installation**

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using a nailing fin. The nailing fin is secured to the wall framing using minimum No. 6 x 1-5/8" screws spaced approximately 2"-4" from each corner and 8"-10" on center along the perimeter. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

Screw Through Frame Installation

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using minimum No. 10 x 2-1/2" screws spaced approximately 2"-4" from each corner and 12-16" on center along the head and side jambs. Two (2) 20-gauge x 1-1/2" x 5-1/2" galvanized steel masonry clips were used at the mull locations spaced approximately 3" on each side of the mull center and two (2) clips evenly spaced at the sill. Clips were attached to the wall framing using four (4) minimum No. 8 screws and to the wall framing using four (4) minimum No. 6 x 1-5/8" screws. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

Frame-Clip Installation

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using 20-gauge x 1-1/2" x 5-1/2" galvanized steel masonry clips spaced approximately 2"-4" from each corner and 10-12" on center along the head and side jambs. Two (2) clips were used at the mull locations spaced approximately 3" on each side of the mull center and two (2) evenly spaced at the sill. Clips were attached to the wall

framing using four (4) minimum No. 8 screws and to the wall framing using four (4) minimum No. 6 x 1-5/8" screws. Fasteners must be 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.