

Product Evaluation

WIN2517 | 1220

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-2517

Effective Date: December 1, 2020

Re-evaluation Date: December 2024

Product Name: Pinnacle Select Series Aluminum Clad Wood Push-Out Casement Windows, Impact Resistant

Manufacturer: Windsor Windows and Doors
900 South 19th Street
West Des Moines, IA 50265
(515) 223-6660

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Pinnacle Select Clad Wood Push-Out Casement Windows	LC-PG50 (36 x 84)-C Missile Level D	+50 / -50 psf
2	Pinnacle Select Clad Wood Push-Out Casement Windows	CW-PG65 (36 x 84)-C Missile Level D	+65 / -65 psf
3	Pinnacle Select Clad Wood Push-Out Casement Windows; Triple	LC-PG65 (110 x 72)-C Missile Level D	+65 / -65 psf
4	Pinnacle Select Clad Wood Crank-Out Casement Windows	CW-PG65-C (110 x 84) Missile Level D	+65 / -65 psf

Product Dimensions:

System	Overall Size	Operable Sash Size
1	36" x 84"	34-1/8" x 82-1/8"
2	36" x 84"	34-1/4" x 82-1/4"
3	110" x 72"	34-1/8" x 70-1/8" (3)
4	110" x 84"	34-1/8" x 82-1/8" (3)

Product Identification (Certification Label on Window):

System		
1-4	Certification Agency	WMDA
	Manufacturer's Name	Windsor Windows & Doors
	Product Name	Pinnacle Series Select Casement
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11 ASTM E1886-13a/ E1996-14 Missile Level D

Impact Resistance:

System	Impact Resistant	Requirement
1-4	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:**Nail Fin Installation (System 1):**

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using a rigid fin. The fin was secured to the wall framing using No. 8 screws. The side and sill fins were mounted with No. 8 screws spaced approximately 12" on center and the head fin was secured with VHB tape. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

Screw Through Frame (System 1):

The wood wall framing must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using No. 8 screws. Space the screws approximately 12" on center along the side jambs and one 6" from each corner along the head and sill. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

Screw Through Frame (System 2):

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using No. 8 screws located approximately 6" from each corner and 12" on center. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

Clip Installation (System 2):

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using galvanized steel clips (7-13/16" long, 1-1/2" wide, and 0.036" thick). Locate the screws approximately 6" from each corner and 12" on center. Clips are secured to the window frame using two (2) No. 8 x 5/8" screws and to the wall framing using No. 8 screws, one (1) to the exterior and one (1) to the interior. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

Nail Fin Installation (System 3-4):

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

Screw through Frame (System 3):

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to on center the wall framing using minimum No. 8 x 3" screws. Locate the screws approximately 4" from each corner and 12" on center along the perimeter. In addition, place two (2) screws approximately 6" from each corner along the head and sill. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

Clip Installation (System 1, 3):

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using galvanized steel clips (7-13/16" long, 1-1/2" wide, and 0.036" thick). Along the head and sill, place two (2) clips evenly spaced. Along the side jambs, place six (6) clips evenly spaced. Clips are secured to the window frame using two (2) No. 8 x 5/8" screws and to the wall framing using No. 8 screws, one (1) to the exterior and one (1) to the interior. 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.