

Product Evaluation

WIN2243 | 0122

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-2243

Effective Date: January 1, 2022

Re-evaluation Date: August 2024

Product Name: H3 2.0 Aluminum Clad Vinyl Wood Main Frame, Aluminum Clad Wood Sash, Casement Windows, Combinations, Fin Installation, Non-Impact Resistant

Manufacturer: Sierra Pacific Windows
575 South Whelen Ave.
Medford, WI 54451
(715) 748-2011

General Description:

System	Description	Label Rating	Design Pressure Rating
1	H3 2.0 Casement/Picture/Casement w/ Transom	LC-PG50 (120 x 108)-C LC-PG50-MA Span (120) x TW (54)	+50 / -50 psf
2	H3 2.0 3-wide Casements w/ Transoms	LC-PG25 (106 x 95)-C LC-PG25-MA Span (105.5) x TW (47.5)	+25 / -25 psf
3	H3 2.0 2-wide Casements w/ Transoms	LC-PG35 (71 x 95)-C LC-PG35-MA Span (70.5) x TW (47.5)	+35 / -35 psf

General Description:

System	Description	Label Rating	Design Pressure Rating
4	H3 2.0 2-wide Casements w/ Transoms, HP	LC-PG45 (71 x 95)-C LC-PG45-MA Span (70.5) x TW (47.5)	+45 / -45 psf
5	H3 2.0 Casement/Picture/Casement	LC-PG35 (118 x 72)-C	+35 / -35 psf
6	H3 2.0 Casement/Picture/Casement, HP	LC-PG50 (118 x 72)-C	+50 / -55 psf
7	H3 2.0 Casement/Picture/Casement w/ Transoms	LC-PG35 (106 x 95)-C LC-PG35-MA Span (105.5) x TW (47.5)	+35 / -35 psf
8	H3 2.0 2-wide Casements w/ Transoms	LC-PG50 (71 x 95)-C LC-PG50-MA Span (70.5) x TW (47.75)	+50 / -50 psf
9	H3 2.0 Casement/Picture/Casement w/ Transoms, HP	LC-PG45 (106 x 95)-C LC-PG45-MA Span (105.5) x TW (47.50)	+45 / -45 psf
10	H3 2.0 3-wide Casements, HP	R-PG50 (106 x 84)-C	+50 / -55 psf
11	H3 2.0 3-wide Casements	R-PG35 (106 x 84)-C	+35 / -35 psf
12	H3 2.0 Casement/Picture/Casement w/ Transoms, Steel Mull	LC-PG50 (106 x 99)-C LC-PG50-MA Span (105.5) x TW (49.75)	+50 / -50 psf

Product Dimensions:

System	Overall Size	Operable Sash Size	Picture (P)/Transom (T) Sash Size
1	120" x 107-3/4"	38-5/8" x 69-3/4" (2)	P: 38-5/8" x 69-3/4" T DLO: 116-5/16" x 32-5/16"
2	105-1/2" x 95"	33-3/4" x 69-3/4" (3)	T: 33-3/4" x 21-3/4" (3)
3-4	70-1/2" x 95"	33-13/16" x 69-3/4" (2)	T: 33-13/16" x 21-3/4" (2)
5-6	117-1/2" x 71-1/2"	27-3/4" x 69-3/4"	P: 57-3/4" x 69-3/4"
7, 9	105-1/2" x 95-1/4"	33-3/4" x 69-3/4" (2)	P: 33-3/4" x 69-3/4" T: 33-3/4" x 21-3/4" (3)
8	70-1/2" x 95-1/4"	33-3/4" x 69-3/4" (2)	T: 33-3/4" x 21-3/4" (2)
10-11	105-1/2" x 83-1/2"	34" x 81-3/4" (3)	N/A
12	105-1/2" x 99-1/4"	33-3/4" x 69-3/4" (2)	P: 33-3/4" x 69-3/4" T: 33-3/4" x 25-3/4" (3)

Product Identification (Certification Label on Window):

System		
1, 7	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Sierra Pacific Windows
	Product Name	H3 2.0 Casement/Picture/Casement w/ Transom
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11
2-3, 8	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Sierra Pacific Windows
	Product Name	H3 2.0 Casements w/ Transoms
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11
4	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Sierra Pacific Windows
	Product Name	H3 2.0 Casements w/ Transoms (HP)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11
5	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Sierra Pacific Windows
	Product Name	H3 2.0 Casement/Picture/Casement
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11
6	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Sierra Pacific Windows
	Product Name	H3 2.0 Casement/Picture/Casement (HP)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11
9	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Sierra Pacific Windows
	Product Name	H3 2.0 Casement/Picture/Casement w/ Transom (HP)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11
10	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Sierra Pacific Windows
	Product Name	H3 2.0 Casements (HP)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11
11	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Sierra Pacific Windows
	Product Name	H3 2.0 Casements
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11
12	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Sierra Pacific Windows
	Product Name	H3 2.0 Casement/Picture/Casement w/ Transoms (Steel Mull)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11

Impact Resistance:

System	Impact Resistant	Requirement
1-12	No	Provide an impact protective system when installing the product in areas that require windborne debris protection.

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 through the integral aluminum nailing fin of the transom, and through the integral vinyl nailing fin of the casements. The nailing fins are secured to the wall framing with No. 8 PPH screws. Locate the screws approximately 2"-4" from each corner and 4"-8" on center along the perimeter. Locate one steel masonry clip (20-gauge x 1-1/2" x 5"-8") 3" on each side of the mull at each end, at the head of the transom in line with the casement mull post/jamb locations, and at the sill of the casement at the mull post/jamb locations. Secure the clips to the window frame with three No. 6 x 1/2" PFH screws and to the wall framing with two No. 8 PPH screws.

System 2: The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing through the nailing fin. The nailing fin is secured to the wall framing with No. 8 PPH screws. Locate the screws approximately 1"-2" from each corner and 6" on center along the perimeter. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

System 3: The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing through the nailing fin. The nailing fin is secured to the wall framing with No. 8 PPH screws. Locate the screws approximately 2"-4" from each corner and 5"-6" on center along the perimeter. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

System 4: The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing through the nailing fin. The nailing fin is secured to the wall framing with No. 8 PPH screws. Locate the screws approximately 2"-4" from each corner and 5"-6" on center along the perimeter. In addition, locate one steel masonry clip (20-gauge x 1-1/2" x 5"-8") at the sill vertical mull post end location and 3" on each side of the horizontal mull location at each end. Secure the clip to window frame with one No. 8 x 2-1/2" PH screw, and to the wall framing with two No. 8 PPH screws. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

Systems 5, 11: The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing through the nailing fin. The nailing fin is secured to the wall framing with No. 8 PPH screws. Locate the screws approximately 1"-2" from each corner and 6"-8" on center along the perimeter. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

Systems 6, 10: The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing through the nailing fin. The nailing fin is secured to the wall framing with No. 8 PPH screws. Locate the screws approximately 1"-2" from each corner and 6"-8" on center along the perimeter. In addition, locate one steel masonry clip (20-gauge x 1-1/2" x 5"-8") at the head and sill of each mull post. Secure the clip to window frame with one No. 8 x 2-1/2" PH screw, and to the wall framing with two No. 8 PPH screws. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

System 7: The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing through the nailing fin. The nailing fin is secured to the wall framing with No. 8 PPH screws. Locate the screws approximately 1"-2" from each corner and 3-1/2" on center along the perimeter. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

System 8: The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing through the nailing fin. The nailing fin is secured to the wall framing with No. 8 PPH screws. Locate the screws approximately 1"-2" from each corner and 7"-8" on center along the perimeter. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

System 9: The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing through the nailing fin. The nailing fin is secured to the wall framing with No. 8 PPH screws. Locate the screws approximately 1"-2" from each corner and 3-1/2" on center along the perimeter. In addition, locate one steel masonry clip (20-gauge x 1-1/2" x 5"-8") at the vertical head mull post locations of the transom, sill mull post end locations of the casements, and 3" on each side of the horizontal mull location at each end. Secure the clip to window frame with one No. 8 x 2-1/2" PH screw, and to the wall framing with two No. 8 PPH screws. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

System 12: The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing through the nailing fin. The nailing fin is secured to the wall framing with No. 8 PPH screws. Locate the screws approximately 1"-3" from each corner and 5"-7" on center along the perimeter. In addition, locate one steel masonry clip (20-gauge x 1-1/2" x 5"-8") at the vertical head mull post locations of the transom, sill mull post end locations of the casements, and 3" on each side of the horizontal mull location at each end. Secure the clip to window frame with one No. 8 x 2-1/2" PH screw, and to the wall framing with two No. 8 PPH 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.