

Product Evaluation

WIN2251 | 1222

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-2251

Effective Date: December 1, 2022

Re-evaluation Date: January 2026

Product Name: H3 2.0 Aluminum Clad Vinyl Wood Main Frame, Aluminum Clad Wood Sashes, Double Hung 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 Double Hung/Double Hung/Picture Windows	LC-PG35 (166.63 x 83.5)-H LC-PG35-MA Span (83.5) x TW (59.50)	+35 / -35 psf
2	H3 2.0 Double Hung/Double Hung/Picture Windows; HP	LC-PG50 (166.63 x 83.5)-H LC-PG50-MA Span (83.5) x TW (59.50)	+50 / -50 psf
3	H3 2.0 2-wide Double Hung Windows w/ Transom	LC-PG35 (71 x 101)-H LC-PG35-MA Span (70.5) x TW (50.75)	+35 / -35 psf

General Description:

System	Description	Label Rating	Design Pressure Rating
4	H3 2.0 2-wide Double Hung Windows w/ Transom	LC-PG50 (71 x 101)-H LC-PG50-MA Span (70.5) x TW (50.75)	+50 / -50 psf
5	H3 2.0 Double Hung/Picture/Double Hung Window	LC-PG35 (106 x 72)-H	+35 / -35 psf
6	H3 2.0 Double Hung/Picture/Double Hung Window; HP	LC-PG50 (106 x 72)-H	+50 / -70 psf
7	H3 2.0 2-wide Double Hung Windows w/ Transom	LC-PG35 (83 x 101)-H LC-PG35-MA Span (70.5) x TW (50.75)	+35 / -35 psf
8	H3 2.0 2-wide Double Hung Windows w/ Transom	LC-PG50 (83 x 101)-H LC-PG50-MA Span (82.5) x TW (50.75)	+50 / -60 psf
9	H3 2.0 3-wide Double Hung Windows w/ Transom	LC-PG50 (118 x 103)-H LC-PG50-MA Span (117.5) x TW (51.75)	+50 / -50 psf
10	H3 2.0 3-wide Double Hung/Picture w/ Transoms	LC-PG30 (120 x 101)-H LC-PG30-MA Span (119.5) x TW (50.5)	+30 / -30 psf
11	H3 2.0 3-wide Double Hung/Picture w/ Transoms	LC-PG50 (120 x 101)-H LC-PG50-MA Span (119.5) x TW (50.5)	+50 / -50 psf

Product Dimensions:

System	Overall Size	Double Hung Sash Size	Fixed Picture/Transom Sash Size
1-2	166-5/8" x 83-1/2"	Top/Bottom: 47-1/2" x 83-1/2"	Double Hung Picture: 71-1/2" x 83-1/2"
3-4	70-1/2" x 101"	Top/Bottom: 32-1/8" x 35-1/4"	Transom: 32-1/8" x 26-5/8"
5-6	105-1/2" x 71-1/2"	Top/Bottom: 22-1/8" x 34-9/16"	Double Hung Picture: 51-9/16" x 68-3/8"
7-8	82-1/2" x 101-1/4"	Top/Bottom: 38-1/8" x 35-1/4"	Transom: 79-1/8" x 26-3/8"
9	117-1/2" x 103-1/4"	Top/Bottom: 36-1/8" x 37-1/4"	Transom: 36-1/8" x 24-5/8"
10-11	119-1/2" x 101-1/4"	Top/Bottom: 29-1/8" x 34-13/16"	Transom: Left/Right: 29-1/8" x 26-5/8" Center: 52-1/8" x 26-5/8" Double Hung Picture: 52-1/8" x 68-5/8"

Product Identification (Certification Label on Window):

System		
1-2	Certification Agency	WDMA
	Manufacturer's Name	Sierra Pacific Windows
	Product Name	H3 2.0 Double Hung
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11
3-4	Certification Agency	WDMA
	Manufacturer's Name	Sierra Pacific Windows
	Product Name	H3 2.0 Double Hung w/ Transoms
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11,17
5-6	Certification Agency	WDMA
	Manufacturer's Name	Sierra Pacific Windows
	Product Name	H3 2.0 Double Hung/Picture/Double Hung
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11
7-9	Certification Agency	WDMA
	Manufacturer's Name	Sierra Pacific Windows
	Product Name	H3 2.0 Double Hungs w/ Transoms
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11
10-11	Certification Agency	WDMA
	Manufacturer's Name	Sierra Pacific Windows
	Product Name	H3 2.0 Double Hung/Picture w/ Transoms
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11

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
1-11	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: The wood wall framing must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing through the integral vinyl nailing fin. The nailing fin is secured to the wall framing with No. 8 PPH screws. Locate the screws approximately 1"-4" 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.

System 2: The wood wall framing must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing through the integral vinyl nailing fin. The nailing

fin is secured to the wall framing with No. 8 PPH screws. Locate the screws approximately 1"-4" from each corner and 6"-8" on center along the perimeter. In addition, secure steel installation clips (20-gauge x 1-1/2" x 5") 3" on each side of the mulls at the head and sill, one at the center of the picture window along all sides, and one at the meeting rail location of the double hung window. Secure the clips to the window frame with three (3) No. 6 x 1/2" PFH screws and to the wall framing with two (2) No. 8 PPH screws. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

System 3: The wood wall framing must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing through the integral vinyl 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 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 4: The wood wall framing must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing through the integral vinyl 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 7"-8" on center along the perimeter. In addition, locate one (1) steel anchor strap (20-gauge x 1-1/2" x 5") at each end of the vertical mull, two (2) straps at each end of the horizontal mull 6" apart, and one (1) on each side of the double hung meeting rail location. Secure the straps to the window frame with three (3) No. 7 x 5/8" PFH screws and to the wall framing with two (2) No. 8 PPD screws. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

System 5: The wood wall framing must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing through the integral vinyl 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.

System 6: The wood wall framing must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing through the integral vinyl 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, steel installation clips (20-gauge x 1-1/2" x 5") are placed at each mull post location at the head and sill. Secure the clips to the window frame with three (3) No. 6 x 1/2" PFH screws and to the wall framing with two (2) 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 must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing through the integral vinyl 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 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.

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

Systems 9, 11: The wood wall framing must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing through the integral vinyl 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 3"-4" on center along the perimeter. In addition, secure one (1) steel installation clip (20-gauge x 1-1/2" x 5") at the vertical head mull post locations of the transom and the sill mull post end locations of the double hungs, and 3" on each side of the horizontal mull location at each end. Secure the clips to the window frame with three (3) No. 6 x 1/2" PFH screws and to the wall framing with two (2) No. 8 PPH screws. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

System 10: The wood wall framing must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing through the integral vinyl 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 3"-4" on center along the perimeter. 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.