



Product Evaluation

WIN1654 | 0916

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-1654

Effective Date: September 1, 2016

Re-evaluation Date: December 2019

Product Name: Series 8900/90/8000/1800/3900 Vinyl Double Hung Windows, Frame Installation, Non-Impact Resistant

Manufacturer: Atrium Windows & Doors
9001 Ambassador Row
Dallas, TX 75247
(214) 637-2696

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Series 8900/90/8000/1800/3900 Vinyl Double Hung Windows	LC-PG30 48 x 78-H H-LC30 48 x 78	+30 / -30 psf
2	Series 8900/90/8000/1800/3900 Vinyl Double Hung Windows	LC-PG35 44 x 74-H H-LC35 44 x 74	+35 / -35 psf
3	Series 8900/90/8000/1800/3900 Vinyl Double Hung Windows	LC-PG50 36 x 74-H H-LC50 36 x 74	+50 / -50 psf
4	Series 8900/90/8000/1800/3900 Vinyl Double Hung Twin w/Transom	LC-PG60 36 x 74-H R-PG50 72 x 36-FW Mulled Fenestration Rating R40 Overall Size: 72 x 108	+40 / -40 psf
5	Series 8900/90/8000/1800/3900 Vinyl Twin Double Hung Windows; Triple	LC-PG50 36 x 74-H H-LC50 36 x 74 Mulled Fenestration Rating: LC50 Overall Size: 109 x 74	+50 / -50 psf

Product Dimensions:

System	Overall Size	Exterior Sash Size	Interior Sash Size	Transom Daylight Opening Size
1	48" x 77-3/4"	43-3/8" x 37-1/2"	44-5/16" x 38-1/2"	N/A
2	44" x 73-3/4"	39-3/8" x 35-1/2"	40-1/4" x 36-1/2"	N/A
3	36" x 73-3/4"	31-1/4" x 35-7/16"	32-3/16" x 36-7/16"	N/A
4	72" x 108"	Two: 31-1/8" x 34-1/4"	Two: 32" x 35-3/16"	72" x 36"
5	109" x 74"	Three: 31-1/2" x 35-1/2"	Three: 32-1/2" x 36-1/2"	N/A

Product Identification (Certification Agency Label on Window):

System		
1	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Atrium Companies
	Product Name	8900/90/8000/1800/3900 Double Hung Window w/Finless Installation
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08/05
2, 3	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Atrium Companies
	Product Name	8900/90/8000/1800/3900 Double Hung Window
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08/05
4	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Atrium Companies
	Product Name	8900/90/8000/1800/3900 Twin Double Hung Window w/Transom & Finless Installation
	Test Standards	AAMA 450-10 AAMA/WDMA/CSA 101/I.S.2/A440-08
5	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Atrium Companies
	Product Name	8900/90/8000/1800/3900 Triple Double Hung Window w/Finless Installation
	Test Standards	AAMA 450-10 AAMA/WDMA/CSA 101/I.S.2/A440-08/05

Impact Resistance:

System	Impact Resistant	Requirement
1, 2, 3, 4, 5	No	Provide an impact protective system when installing the product in areas that require windborne debris protection.

Installation:

Systems 1-3: The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window must be secured to the wood wall framing using the frame of the window with minimum No. 10 x 2-1/2" screws. Along each side jamb, the fasteners are spaced approximately 4" from each corner and 20" on center. The 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 must be secured to the wood wall framing using the frame of the window with minimum No. 10 x 2-1/2" screws. Along the head and each side jamb, the fasteners are spaced approximately 4" from each corner and 20" on center. Each vertical mullion is secured to the sill with an aluminum mullion clip (3.50" x 2.50" x 0.125"). The clip is secured to the wall framing with two No. 10 x 2-1/2" screws. The horizontal mullion is secured to the wall framing with an aluminum mullion clip (3.50" x 2.50" x 0.125"). The clip is secured to the wall framing with two No. 10 x 2-1/2" screws. The clips slide into the vertical and horizontal mullions and are not secured with fasteners. The fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

System 5: The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window must be secured to the wood wall framing using the frame of the window with minimum No. 10 x 2-1/2" screws. Along each side jamb, the fasteners are spaced approximately 4" from each corner and 20" on center. Each mullion is secured to the head and the sill with an aluminum mullion clip (3.50" x 2.50" x 0.125"). The clip is secured to the wall framing with two No. 10 x 2-1/2" screws. The clip slides into the vertical mullions and is not secured with fasteners. The 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, IBC, and the Texas Revisions.