TDI | Texas Department of Insurance

PO Box 12030 | Austin, TX 78711 | 800-578-4677 | tdi.texas.gov

Product Evaluation

WIN1210 | 0422

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-1210

Effective Date: April 1, 2022
Re-evaluation Date: April 2026

Product Name: Series 8700/1600/3500/80/6000 Vinyl Double Hung Windows, Frame Installation, Non-Impact Resistant

Manufacturer: Atrium Windows & Doors
300 Welcome Center Blvd.
Welcome, NC 27374
(800) 542-9118 ext. 413596

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Series 8700/1600/3500/80/6000 Vinyl Double Hung Windows	LC-PG50 (36 x 74)-H	+50 / -50 psf
2	Series 8700/1600/3500/80/6000 Vinyl Double Hung Windows	LC-PG30 (48 x 78)-H	+30 / -30 psf
3	Series 8700/1600/3500/80/6000 Vinyl Twin Double Hung Window w/ Transom	LC-PG50 (72 x 108)	+50 / -50 psf
4	Series 8700/1600/3500/80/6000 Vinyl Triple Double Hung Windows	LC-PG50 (109 x 74)-H	+50 / -50 psf

Product Dimensions:

System	Overall Size	Operable Sash Size	Transom Daylight Opening Size
1	36" x 74"	Top: 32-3/8" x 35-11/16" Bottom: 33-3/16" x 36-1/2"	N/A
2	48" x 78"	Top: 44-3/8" x 37-11/16" Bottom: 45-3/16" x 38-1/2"	N/A
3	72" x 108"	Top: 32-1/16" x 34-5/8" (2) Bottom: 32-7/8" x 35-7/16" (2)	67-5/16" x 30-3/4"
4	109" x 74"	Top: 32-3/8" x 35-11/16" (3) Bottom: 33-3/16" x 36-1/2" (3)	N/A

Product Identification (Certification Label on Window):

System		
1	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Atrium Companies
	Product Name	8700/1600/3500/80/6000 Double Hung Window C20
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11
2	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Atrium Companies
	Product Name	8700/1600/3500/80/6000 Double Hung Window C15/C20
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05,08
3	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Atrium Companies
	Product Name	8700/1600/3500/80/6000 Mulled Twin Double Hung Window w/ Transom C20
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11 AAMA450-10
4	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Atrium Companies
	Product Name	8700/1600/3500/80/6000 Mulled Triple Double Hung Window C20
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11 AAMA 450-10

Impact Resistance:

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

Installation:

Frame Installation (Systems 1-2):

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The windows must be secured to the 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 2" from the head and sill and 16" on center. The fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

Frame Installation with Mullion Clips (System 3): The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly must be secured to the wall framing using the frame of the window with minimum No. 10 x 2-1/2" screws. Along the side jambs of the double hung and the transom, the fasteners must be spaced approximately 6" from each corner and 16" on center. Along the transom head, the fasteners are spaced approximately 6" from each end and 16" on center. Aluminum mullion clips (1.98" x 3.50" x 2.50") are required at the bottom of the vertical mullion and at each end of the horizontal mullion. The clips are inserted into the ends of the mullions. Each clip is secured to the wall framing with two minimum No. 10 x 2-1/2" wood screws. All fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

Frame Installation with Mullion Clips (System 4): The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly must be secured to the wall framing using the frame of the window with minimum No. 10 x 2-1/2" screws. Along the side jambs, the fasteners are spaced approximately 6" from each corner and 16" on center. Along the head, fasteners are spaced approximately 6" off of each end of each individual window. Aluminum mullion clips (1.98" x 3.50" x 2.50") are required at each end of the vertical mullions. The clips are inserted into the ends of the mullions. Each clip is secured to the wall framing with two minimum No. 10 x 2-1/2" wood screws. All fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

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.