Product Evaluation

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-654

Effective Date: July 1, 2015
Re-evaluation Date: August 2018

Product Name: Series 30/230 Vinyl Single Hung Windows, Individual and Mulled, Frame and Fin Installation, 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 30/230 Vinyl Single Hung Window; O/X	H-LC55 52 x 84 Missile Level D	+55 / -55 psf
2	Series 30/230 Vinyl Single Hung Window; Triple; O/X.O/X.O/X	H-LC50 52 x 84 (Individual) Max. Mulled Size: 134 x 77 Missile Level D	+50 / -50 psf
3	Series 30/230 Vinyl Twin Single Hung Window w/Transom; O/O/X.O/X	H-LC50 52 x 84 (Individual) FW-C55 72x84 (Individual) Max. Mulled Size: 72 x 108 Missile Level D	+50 / -50 psf

Product Dimensions:

System	Overall Size	Operable Sash Size	Fixed Glass Daylight Opening Size	Transom Daylight Opening Size
1	52" x 84"	50" x 36"	48-5/8" x 44-3/4"	N/A
2	134" x 77"	42" x 36"	40-5/8" x 37-3/4"	N/A
3	72-3/4" x 108-3/8"	34" x 36"	32-5/8" x 32-5/8"	72-3/4" x 36"

Product Identification (Certification Label on Window):

System		
1	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Atrium Companies
	Product Name	30/230 Impact Vinyl Single Hung Window
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 AAMA 506-08; ASTM E 1886-05/ASTM E 1996-05 Missile Level D
2	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Atrium Companies
	Product Name	30/230 Vinyl Triple Single Hung w/ or w/o Fin
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 AAMA 450-06, AAMA 506-08, ASTM E 1886-05, ASTM E 1996-05, Missile Level D
3	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Atrium Companies
	Product Name	30/230 Vinyl Twin Single Hung w/Transom w/ or w/o Fin
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 AAMA 450-06, AAMA 506-08, ASTM E 1886-05, ASTM E 1996-05, Missile Level D

Impact Resistance:

System	Impact Resistant	Requirement
1, 2, 3	Yes	These products satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone. Install the assemblies at a height on the structure that does not exceed the assemblies' design pressure rating.

Installation (One of the following):

System 1 (Fin): Use minimum Spruce-Pine-Fir dimension lumber for the wall-framing members. Secure windows to the wall framing using the nail fin with minimum No. 8 screws. Locate fasteners approximately 2" from each corner and 8" on center along the perimeter of the window. The fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

System 1 (Frame): Use minimum Spruce-Pine-Fir dimension lumber for the wall-framing members. Secure windows to the wall framing using the window frame with minimum No. 10 x 2-1/2" screws. Along each side jamb, the fasteners are located approximately 6" from each corner and 18" on center.

Along the head, locate one fastener at the mid span. The fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

System 2 (Fin): Use minimum Spruce-Pine-Fir dimension lumber for the wall-framing members. Secure windows to the wall framing using the nail fin with minimum No. 8 screws. Locate fasteners approximately 2" from each corner and 8" on center along the perimeter of the window. Each vertical mullion is secured to the wall framing with an aluminum mullion clip (2.50" wide x 2.50" high x 0.125" thick) at the head and the sill. The mullion clip slips into the cavity of the mullion and is secured to the wall framing with two No. 8 screws. The fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

System 2 (Frame): Use minimum Spruce-Pine-Fir dimension lumber for the wall-framing members. Secure windows to the wall framing using the window frame with minimum No. 10 x 2-1/2" screws. Along each side jamb, the fasteners are located approximately 6" from each corner and 18" on center. Along the head and sill, locate one fastener approximately 6" from each corner and 6" on either side of each mullion. Each vertical mullion is secured to the wall framing with an aluminum mullion clip (2.50" wide x 2.50" high x 0.125" thick) at the head and the sill. The mullion clip slips into the cavity of the mullion and is secured to the wall framing with two No. 10 x 2" screws fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

System 3 (Fin): Use minimum Spruce-Pine-Fir dimension lumber for the wall-framing members. Secure windows to the wall framing using the nail fin with minimum No. 8 screws. Locate fasteners approximately 2" from each corner and 8" on center along the perimeter of the window. Each vertical and horizontal mullion is secured to the wall framing with an aluminum mullion clip (3.50" wide x 2.50" high x 0.125" thick) at the sill and at the side jambs. The mullion clip slips into the cavity of the mullion and is secured to the wall framing with two No. 8 screws. The fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

System 3 (Frame): Use minimum Spruce-Pine-Fir dimension lumber for the wall-framing members. Secure windows to the wall framing using the window frame with minimum No. 10 x 2-1/2" screws. Along each side jamb of the single hung windows, the fasteners are located approximately 6" and 24" from each corner and one at the interlock. The transom is secured at the head with fasteners approximately 6" and 24" from each corner and at the side jambs 6" from each end and at the midpoint. Each vertical and horizontal mullion is secured to the wall framing with an aluminum mullion clip (3.50" wide x 2.50" high x 0.125" thick) at the sill and at the side jambs. The mullion clip slips into the cavity of the mullion and is secured to the wall framing with two No. 8 screws. The fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

Note: Keep the manufacturer's installation instructions at the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.