

## Product Evaluation

WIN1319 | 0322

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-1319

**Effective Date:** March 1, 2022

**Re-evaluation Date:** March 2026

**Product Name:** Series 8100/1100/3100/10/1000/200 Vinyl Single 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	Individual Vinyl Single Hung Tilt Window; O/X	LC-PG50 (36 x 74)-H	+50 / -50 psf
2	Individual Vinyl Single Hung Tilt Window; O/X	LC-PG30 (48 x 78)-H	+30 / -30 psf
3	Triple Mulled Vinyl Single Hung Tilt Windows; O/X.O/X.O/X	LC-PG50 (109 x 74)-H	+50 / -50 psf

**Product Dimensions:**

System	Overall Size	Operable Sash Daylight Opening Size	Fixed Sash Daylight Opening Size
1	36" x 74"	30" x 33-1/4"	30-7/16" x 33-1/4"
2	48" x 78"	42-1/16" x 35-3/16"	42-1/2" x 35-5/16"
3	109" x 74"	36" x 74"	30-9/16" x 33-1/4"

**Product Identification (Certification Label on Window):**

System		
1-2	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Atrium Companies
	Product Name	8100/1100/3100/10/1000/200 Vinyl Single Hung Window N54
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08/11
3	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Atrium Companies
	Product Name	8100/1100/3100/10/1000/200 Vinyl Muller Triple Single Hung Window (O/XO/XO/X)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08/11

**Impact Resistance:**

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

**Installation:**

System		
1-2	Type of Installation	Frame Installation
	Wall Framing	Spruce-Pine-Fir Dimension lumber
	Fasteners	Minimum No. 10 x 2-1/2" wood screws
	Fastener Location/Spacing	Head: one screw at the midpoint Jamb: 6" from each corner and 16" (max.) on center thereafter
	Fastener Penetration	Minimum 1-1/2" into the wall framing

**Installation:**

System		
3	Type of Installation	Frame Installation
	Wall Framing	Spruce-Pine-Fir Dimension lumber
	Fasteners (individual windows into wood framing)	Minimum No. 10 x 2-1/2" wood screws
	Fasteners (individual windows into mullions)	Minimum No. 8 x 2-1/2" wood screws
	Fastener Location/Spacing	<ul style="list-style-type: none"> <li>• Single-Hung Window Head: Drive #10 x 2-1/2" wood screws through each single-hung window head at the midpoint.</li> <li>• Single-Hung Window Jambs: Drive #10 x 2-1/2" wood screws through the single-hung window jambs into the wood framing at 6" from each corner and at 16" (maximum) thereafter.</li> <li>• Single-Hung Window Jambs: Drive #8 x 2-1/2" screws through the single-hung window jambs into the extruded vinyl, aluminum-reinforced vertical mullion at 4" from each end and at 27" (maximum) thereafter.</li> <li>• Vertical Mullion: Secure the vertical mullion into the wood framing with two aluminum clips (one clip at each end of the mullion). Fasten each clip with two #10 x 2-1/2" wood screws (minimum).</li> </ul>
	Fastener Penetration	Minimum 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.