



Product Evaluation

WIN1319| 0516

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:	April 1, 2016
		Revised:	May 1, 2016
		Re-evaluation Date:	July 2018

Product Name: Series 8100/1100/3100/10/1000/200 SH (Finless) Vinyl Single-Hung Tilt Windows, Replacement Construction, Individual and Field Mullled, Non-Impact Resistant

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

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Series 8100/1100/3100/10/1000/200 SH Vinyl Single-Hung Tilt Windows, Replacement Construction, (O/X)	LC-PG50 36 X 74-H	+50 / -50 psf
2	Series 8100/1100/3100/10/1000/200 SH Vinyl Single-Hung Tilt Windows, Replacement Construction, (O/X)	LC-PG30 48 X 78-H	+30 / -30 psf
3	Series 8100/1100/3100/10/1000/200 SH Vinyl Twin, Field-Mulled (<u>with Aluminum-Reinforced, High Performance Mullion Assembly</u>) Single-Hung Tilt Windows with Transom, Replacement Construction, (O O/X O/X)	LC-PG50 72 X 108-H	+50 / -50 psf

General Description (Continued):

System	Description	Label Rating	Design Pressure Rating
4	Series 8100/1100/3100/10/1000/200 SH Vinyl Triple, Field-Mulled (<u>with Aluminum-Reinforced, High Performance Mullion Assembly</u>) Single-Hung Tilt Windows, Replacement Construction, (O/X O/X O/X)	LC-PG50 109 X 74-H (MULL)	+50 / -50 psf

Product Dimensions:

System	Overall Size	Operating Sash Daylight Opening Size	Fixed Glass Daylight Opening Size
1	36" x 74"	30" x 33-1/4"	Single Hung: 30-7/16" x 33-1/4"
2	48" x 78"	42-1/16" x 35-3/16"	Single Hung: 42-1/2" x 35-5/16"
3	72" x 108"	29-3/4" x 32-3/4"	Single Hung: 30-1/8" x 32-1/4" Transom: 66-3/4" x 30-1/8"
4	109" x 74"	30" x 33-1/8"	Single Hung: 30-9/16" x 33-1/4"

Product Identification (Certification Label on Window):

System		
1, 2, 3, 4	Certification Agency	AAMA
	Manufacturer's Name or Code Name	Systems 1-4: ADW-1, ADW-8
	Product Name	Systems 1, 2: Series 8100/1100/3100/10/1000/200 SH (FINLESS) System 3: Series 8100/1100/3100/10/1000/200 TWIN SH W/TRANSOM (FINLESS) System 4: Series 8100/1100/3100/10/1000/200 SH
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08

Impact Resistance:

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

Installation:

System		
1, 2 (FINLESS)	Type of Installation	Wood Frame
	Wall Framing	Spruce-Pine-Fir Dimension lumber
	Fasteners	Minimum #10 x 2-1/2" wood screws
	Fastener Location/Spacing	<ul style="list-style-type: none"> • Head: Drive one fastener through the window frame head at the midpoint. • Jambs: Drive fasteners through the window frame jambs at 6" from each corner and at 16" (maximum) thereafter.
	Fastener Penetration	Minimum 1-1/2" into the wall framing
3 (FINLESS) (MULL)	Type of Installation	Wood Frame
	Wall Framing	Spruce-Pine-Fir Dimension lumber
	Fasteners (individual windows into wood framing)	Minimum #10 x 2-1/2" wood screws
	Fasteners (individual windows into mullions)	Minimum #8 x 2-1/2" wood screws
	Fastener Location/Spacing	<ul style="list-style-type: none"> • Picture Window Head and Jambs: Drive #10 x 2-1/2" wood screws through the picture window head and jambs into the wood framing at 6" from each corner and at 16" (maximum) thereafter. • Picture Window Sill: Drive #8 x 2-1/2" screws through the picture window sill into the extruded vinyl, aluminum-reinforced horizontal mullion at 4" from each corner and at 14" (maximum) thereafter. • 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. • 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. • Horizontal Mullion: Secure the horizontal mullion into the wood framing with two clips (one clip at each end of the mullion). Fasten each clip with two #10 x 2-1/2" wood screws (minimum). • Vertical Mullion: Secure the vertical mullion into the wood framing with one clip (at the lower end of the mullion). Fasten the clip with two #10 x 2-1/2" wood screws (minimum).
Fastener Penetration	Minimum 1-1/2" into the wall framing	

Installation (Continued):

System	Type of Installation	Wood Frame
4 (FINLESS) (MULL)	Wall Framing	Spruce-Pine-Fir Dimension lumber
	Fasteners (individual windows into wood framing)	Minimum #10 x 2-1/2" wood screws
	Fasteners (individual windows into mullions)	Minimum #8 x 2-1/2" wood screws
	Fastener Location/Spacing	<ul style="list-style-type: none"> • Single-Hung Window Head: Drive #10 x 2-1/2" wood screws through each single-hung window head at the midpoint. • 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. • 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. • Vertical Mullion: Secure the vertical mullion into the wood framing with two clips (one clip at each end of the mullion). Fasten each clip with two #10 x 2-1/2" wood screws (minimum).
	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, the IBC, and the Texas Revisions.