



# Product Evaluation

WIN1964 | 0816

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-1964 **Effective Date:** August 1, 2016  
**Re-evaluation Date:** June 2017

**Product Name:** Series 120/130 Vinyl Single-Hung Windows, New and Replacement Construction, Singles and Triples, with and without Transom, 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 120/130 SH (FIN) Vinyl, Single-Hung; New Construction; (O/X)	LC PG50 (53 X 77)-H	+50 / -50 psf
2	Series 120/130 SH (FINLESS) Vinyl, Single-Hung; Replacement Construction; (O/X)	LC PG50 (53 X 77)-H	+50 / -50 psf
3	Series 120/130 SH (FIN) Vinyl, , Single-Hung, Double-Mulled with Transom; New Construction; (O/O/X.O/X)	LC PG50 (73 X 109)-H (MULL)	+50 / -50 psf
4	Series 120/130 SH (FINLESS) Vinyl, Single-Hung; Double-Mulled with Transom, Replacement Construction; (O/O/X.O/X)	LC PG50 (73 X 109)-H (MULL)	+50 / -50 psf
5	Series 120/130 SH (FIN) Vinyl, Single-Hung; Triple-Mulled, New Construction; (O/X. O/X. O/X)	LC PG50 (109 X 77)-H (MULL)	+50 / -50 psf

**General Description (continued):**

System	Description	Label Rating	Design Pressure Rating
6	Series 120/130 SH (FINLESS) Vinyl, Single-Hung; Triple-Mulled, Replacement Construction; (O/X.O/X.O/X)	LC PG50 (109 X 77)-H (MULL)	+50 / -50 psf
7	Series 120/130 SH (FIN) Vinyl, , Single-Hung, Double-Mulled with Transom; New Construction; (O/O/X)	LC PG50 (48 X 109)-H (MULL)	+50 / -50 psf
8	Series 120/130 SH (FINLESS) Vinyl, Single-Hung; Double-Mulled with Transom, Replacement Construction; (O/O/X)	LC PG50 (48 X 109)-H (MULL)	+50 / -50 psf
9	Series 120/130 SH (FIN) Vinyl, Twin Single-Hung, Double-Mulled; New Construction; (O/X.O/X)	R-PG40 (97 X 84)-H (MULL)	+40 / -40 psf
10	Series 120/130 SH (FINLESS) Vinyl, Twin Single-Hung, Double-Mulled; Replacement Construction; (O/X.O/X)	R-PG40 (97 X 84)-H (MULL)	+40 / -40 psf

**Product Dimensions:**

System	Overall Size	Operable Sash Daylight Opening Size	Fixed Daylight Opening Size	Transom Daylight Opening Size
1	53" x 77"	48-1/4" x 34-3/4"	48-5/16" x 34-3/4"	N.A.
2	53" x 77"	48-1/4" x 34-3/4"	48-5/16" x 34-3/4"	N.A.
3	72-1/2" x 108-1/2"	31-3/16" x 32-1/4"	31-5/16" x 32-5/16"	67-1/4" x 31-5/16"
4	72-1/2" x 108-1/2"	31-3/16" x 32-1/4"	31-5/16" x 32-5/16"	67-1/4" x 31-5/16"
5	109" x 77"	31-1/8" x 34-11/16"	31-5/16" x 34-3/4"	N.A.
6	109" x 77"	31-1/8" x 34-11/16"	31-5/16" x 34-3/4"	N.A.
7	48" x 109"	43-1/4 x 32-5/16	43-5/16" x32-5/16"	43-1/4" x 31-5/16"
8	48" x 109"	43-1/4" x 32-5/16"	43-5/16" x32-5/16"	43-1/4" x 31-5/16"
9	97" x 84"	43-5/16" x38-5/16"	43-5/16" x38-5/16"	N.A.
10	97" x 84"	43-5/16" x38-5/16"	43-5/16" x38-5/16"	N.A.

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

System		
1- 10	Certification Agency	AAMA
	Manufacturer's Name or Code Name	ADW-8
	Product Name	Series 130 PW (FH1, FHX)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08

**Impact Resistance:**

System	Impact Resistant	Requirement
1-10	No	Provide an impact protective system when installing the product in areas that require windborne debris protection.

**Acceptance of Smaller Assemblies:** Window assemblies with dimensions equal to, or smaller than those specified are acceptable with the limitations specified in this report.

**Installation:**

System		
1 (FIN)	Type of Installation	New Construction – Wood Frame
	Wall Framing	Spruce-Pine-Fir Dimension lumber
	Fasteners	Minimum No. 8 x 1-5/8" pan head screws
	Fastener Location/Spacing	Drive fasteners around the entire window perimeter through the nail fin at 2" from each corner centerline and at 8" on center thereafter.
	Fastener Penetration	Minimum 1-1/2" into the wall framing
2 (FINLESS)	Type of Installation	Replacement Construction – Wood Frame
	Wall Framing	Spruce-Pine-Fir Dimension lumber
	Fasteners	Minimum No. 10 x 2-1/2" pan head screws
	Fastener Location/Spacing	Drive fasteners through the head, sill, and jambs at 6" from each corner centerline and at 20" on center thereafter.
	Fastener Penetration	Minimum 1-1/2" into the wall framing
3 (FIN)	Type of Installation	New Construction – Wood Frame
	Wall Framing	Spruce-Pine-Fir Dimension lumber
	Window Perimeter Fasteners	Minimum No. 8 x 1-5/8" drywall screws
	Window Perimeter Fastener Location/Spacing	Drive fasteners around the entire window perimeter through the nail fin at 2" from each corner centerline and at 8" on center thereafter.
	Mullion Clip Installation	<u>Horizontal Mullion:</u> Anchor the mullion at the top and bottom with mullion clips. Fasten each clip with two, No. 10 x 2-1/2" (minimum) wood screws. <u>Vertical Mullion:</u> Anchor the mullion at the bottom with the mullion clips. Fasten the clip with two, No. 10 x 2-1/2" (minimum) wood screws.
	Fastener Penetration	Minimum 1-1/2" into the wall framing

## Installation (continued):

System		
4 (FINLESS)	Type of Installation	Replacement Construction – Wood Frame
	Wall Framing	Spruce-Pine-Fir Dimension lumber
	Window Perimeter Fasteners	Minimum No. 10 x 2-1/2" wood screws
	Window Perimeter Fastener Location/Spacing	<u>Transom</u> : Drive 2 fasteners through the head at 6" from the corners of the transom at 20" on center thereafter.  <u>Transom and SH Windows</u> : Drive fasteners through the jambs at 6" from each end and at 20" on center thereafter.
	Mullion Clip Installation	<u>Horizontal Mullion</u> : Anchor the mullion at the top and bottom with mullion clips. Fasten each clip with two; No. 10 x 2-1/2" (minimum) wood screws. <u>Vertical Mullion</u> : Anchor the mullion at the bottom with the mullion clips. Fasten the clip with two; No. 10 x 2-1/2" (minimum) wood screws.
	Fastener Penetration	Minimum 1-1/2" into the wall framing
5 (FIN)	Type of Installation	New Construction – Wood Frame
	Wall Framing	Spruce-Pine-Fir Dimension lumber
	Window Perimeter Fasteners	Minimum No. 8 x 1-5/8" drywall screws
	Window Perimeter Fastener Location/Spacing	Drive fasteners around the entire window perimeter through the nail fin at 2" from each corner centerline and at 8" on center thereafter.
	Mullion Clip Installation	Anchor the mullion at the top and bottom with mullion clips. Fasten each clip with two; No. 10 x 2-1/2" (minimum) wood screws.
	Fastener Penetration	Minimum 1-1/2" into the wall framing
6 (FINLESS)	Type of Installation	Replacement Construction – Wood Frame
	Wall Framing	Spruce-Pine-Fir Dimension lumber
	Window Perimeter Fasteners	Minimum No. 10 x 2-1/2" wood screws
	Window Perimeter Fastener Location/Spacing	Drive fasteners through the head and sill at 6" from the corners of each single-hung window (12 total). Drive fasteners through the jambs at 6" from each end and at 20" on center thereafter.
	Mullion Clip Installation	Anchor the mullion at the top and bottom with mullion clips. Fasten each clip with two; No. 10 x 2-1/2" (minimum) wood screws.
	Fastener Penetration	Minimum 1-1/2" into the wall framing

## Installation (continued):

System		
7 (FIN)	Type of Installation	New Construction – Wood Frame
	Wall Framing	Spruce-Pine-Fir Dimension lumber
	Window Perimeter Fasteners	Minimum No. 8 x 1-5/8" drywall screws
	Window Perimeter Fastener Location/Spacing	Drive fasteners around the entire window perimeter through the nail fin at 2" from each corner centerline and at 8" on center thereafter.
	Mullion Clip Installation	<u>Horizontal Mullion</u> : Anchor the mullion at the top and bottom with mullion clips. Fasten each clip with two; No. 10 x 2-1/2" (minimum) wood screws. <u>Vertical Mullion</u> : Anchor the mullion at the bottom with the mullion clips. Fasten the clip with two; No. 10 x 2-1/2" (minimum) wood screws.
8 (FINLESS)	Type of Installation	Replacement Construction – Wood Frame
	Wall Framing	Spruce-Pine-Fir Dimension lumber
	Window Perimeter Fasteners	Minimum No. 10 x 2-1/2" wood screws
	Window Perimeter Fastener Location/Spacing	<u>Transom</u> : Drive 2 fasteners through the head at 6" from the corners of the transom at 20" on center thereafter. <u>Transom and SH Windows</u> : Drive fasteners through the jambs at 6" from each end and at 20" on center thereafter.
	Mullion Clip Installation	<u>Horizontal Mullion</u> : Anchor the mullion at the top and bottom with mullion clips. Fasten each clip with two; No. 10 x 2-1/2" (minimum) wood screws. <u>Vertical Mullion</u> : Anchor the mullion at the bottom with the mullion clips. Fasten the clip with two; No. 10 x 2-1/2" (minimum) wood screws.
9 (FIN)	Type of Installation	New Construction – Wood Frame
	Wall Framing	Spruce-Pine-Fir Dimension lumber
	Window Perimeter Fasteners	Minimum No. 8 x 1-5/8" drywall screws
	Window Perimeter Fastener Location/Spacing	Drive fasteners around the entire window perimeter through the nail fin at 2" from each corner centerline and at 8" on center thereafter.
	Mullion Clip Installation	Anchor the mullion at the top and bottom with mullion clips. Fasten each clip with two; No. 10 x 2-1/2" (minimum) wood screws.
	Fastener Penetration	Minimum 1-1/2" into the wall framing

**Installation (continued):**

System		
10 (FINLESS)	Type of Installation	Replacement Construction – Wood Frame
	Wall Framing	Spruce-Pine-Fir Dimension lumber
	Window Perimeter Fasteners	Minimum No. 10 x 2-1/2" wood screws
	Window Perimeter Fastener Location/Spacing	Drive fasteners through the head and sill at 6" from the corners of each single-hung window (12 total). Drive fasteners through the jambs at 6" from each end and at 20" on center thereafter.
	Mullion Clip Installation	Anchor the mullion at the top and bottom with mullion clips. Fasten each clip with two; No. 10 x 2-1/2" (minimum) wood screws.
	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.