

# TEXAS DEPARTMENT OF INSURANCE

Engineering Services / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104  
Phone No. (512) 322-2212 Fax No. (512) 463-6693

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## PRODUCT EVALUATION WIN-1442

Effective September 1, 2011

*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 shall be subject to reevaluation **October 2014**.*

*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.*

**Premium Atlantic Aluminum 6100 Single Hung Window, Individual, Non-impact Resistant,**  
manufactured by:

**JELD-WEN Windows & Doors**  
**3737 Lakeport Blvd.**  
**Klamath Falls, Oregon 97601**  
**(541) 882-3451**

will be acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

## PRODUCT DESCRIPTION

The Premium Atlantic 6100 window is an aluminum single hung window. The aluminum single hung windows evaluated in this report are individual, non-impact resistant windows. This product evaluation report is for aluminum single hung windows based on the following tested constructions:

### General Description:

System	Description	Label Rating
1	Premium Atlantic Aluminum 6100 Single Hung Windows; FIN; (O/X)	H-R60 52 x 75 Negative Design Pressure = -65 psf
2	Premium Atlantic Aluminum 6100 Double Hung Windows; FINLESS; (O/X)	H-R60 52 x 75 Negative Design Pressure = -65 psf
3	Premium Atlantic Aluminum 6100 Single Hung Windows; TEMP GL; FIN; (O/X)	H-R60 52 x 75 Negative Design Pressure = -65 psf
4	Premium Atlantic Aluminum 6100 Single Hung Windows; TEMP GL; FINLESS; (O/X)	H-R60 52 x 75 Negative Design Pressure = -65 psf
5	Premium Atlantic Aluminum 6100 Single Hung Windows; FIN; (O/X)	H-R60 36 x 72 Negative Design Pressure = -65 psf
6	Premium Atlantic Aluminum 6100 Double Hung Windows; FINLESS; (O/X)	H-R60 36 x 72 Negative Design Pressure = -65 psf

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**Product Dimensions:**

System	Overall Size	Operable Sash Size	Fixed Daylight Opening Size
1-4	52.125" x 75"	50.58" x 37.41"	47.50" x 33.56"
5-6	36" x 72"	34.45" x 35.91"	31.37" x 32.06"

**Glazing Description:**

System	Glass Construction <sup>1</sup>	Glazing Method <sup>2</sup>
1-2	IG-1	GM-1
3-4	SG-1	GM-1
5	SG-2	GM-1
6	IG-2	GM-1

Note: <sup>1</sup> See the "Glass Construction Key" for the glazing construction.

<sup>2</sup> See the "Glazing Method Key" for the glazing method description.

**Glass Construction Key:**

SG-1: The sashes contain a double strength ( $\frac{1}{8}$ " ) fully tempered glass lite. The glass thickness used in the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

SG-2: The sashes contain a  $\frac{3}{16}$ " annealed glass lite. The glass thickness used in the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

IG-1: The sashes contain sealed insulating glass units. The sealed insulating glass unit is comprised of two  $\frac{3}{16}$ " annealed glass lites separated by an aluminum spacer system. The glass thickness and type used in the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

IG-2: The sashes contain sealed insulating glass units. The sealed insulating glass unit is comprised of two double strength ( $\frac{1}{8}$ " ) annealed glass lites separated by a foam spacer system. The glass thickness and type used in the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

**Glazing Method Key:**

GM-1: The insulating glass units are exterior wet glazed with Dow Corning 995 silicone sealant. The insulating glass units are secured in place with extruded aluminum glazing stops.

**Frame Construction:** The frame members are manufactured from extruded aluminum. The frame corners are secured with screws.

**Sash Construction:** The sash members are manufactured from extruded aluminum. The sash corners are secured with screws. The top sash is secured to the frame with screws.

**Reinforcement:** Extruded aluminum reinforcement is utilized in the sash meeting rails. The reinforcement extends the length of the members.

**Hardware:**

- Block and tackle balances; Two (2) required; One (1) in each side jamb.
- Balance take out clips; Two (2) required; One (1) in each side jamb.
- Vinyl sash stops; Two (2) required; One (1) in each side jamb.
- Metallic cam lock; Two (2) required; Located on the bottom sash top rail.
- Spring loaded aluminum sash cam lock; Two (2) required; One (1) each end of the top sash top rail.

**Product Identification:**

**Systems 1, 3, and 5:** A certification program label (AAMA) will be affixed to the window. The certification program label includes the manufacturer's code name (**JW-19**); product name: **PAA SH (FIN)**; performance characteristics; the approved inspection agency (AAMA); and the applicable standard: AAMA/WDMA/CSA 101/I.S.2/A440-05.

**Product Identification:**

**System 2, 4, and 6:** A certification program label (AAMA) will be affixed to the window. The certification program label includes the manufacturer's code name (**JW-19**); product name: **PAA SH (FINLESS)**; performance characteristics; the approved inspection agency (AAMA); and the applicable standard: AAMA/WDMA/CSA 101/I.S.2/A440-05.

### LIMITATIONS

**Design pressures:**

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1-4	52 $\frac{1}{8}$	75	+60/-65
5-6	36	72	+60/-65

**Impact Resistance:** These window assemblies do not satisfy the Texas Department of Insurance's criteria for protection from windborne debris. These window assemblies will need to be protected with an impact protective system when installed in areas where windborne debris protection is required.

**Tested to Higher Negative Design Pressure:** The AAMA label indicates that the product was tested to a higher negative design pressure rating. The higher negative design pressure rating is specified in the table above.

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

### INSTALLATION INSTRUCTIONS

**General:** The window assembly shall be installed in accordance with the manufacturer's installation instructions and this evaluation report. Detailed drawings and installation instructions are available from the manufacturer.

**Installation:**

**Systems 1 and 3:**

**Nail Fin Installation:** The window shall be fastened to wall framing using the nailing fin of the window. The following wall framing substrates and fasteners are acceptable:

- Spruce-Pine-Fir dimension lumber (No. 10 screws)
- 12 gauge steel, minimum 33 ksi (No. 10 Tek screws, minimum 3 threads into framing)

The fasteners shall be spaced approximately 4  $\frac{1}{4}$  inches from each corner and approximately 14  $\frac{9}{16}$  inches on center along the head and sill and approximately 16  $\frac{5}{8}$  inches on center along the head and sill. The fasteners shall be long enough to penetrate a minimum of 1  $\frac{1}{2}$  inches into the wall framing members.

**Systems 2 and 4:**

**Frame Installation:** The window shall be fastened to wall framing using the frame of the window.

**Systems 2 and 4 (continued):**

The following wall framing substrates and fasteners are acceptable:

- Spruce-Pine-Fir dimension lumber (No. 10 screws)
- Concrete, Minimum  $f'c = 3,000$  psi ( $\frac{1}{4}$ " diameter ITW Tapcon screws, minimum  $1\frac{3}{4}$ " embedment depth)
- Concrete block, Minimum  $f'c = 1,500$  psi ( $\frac{1}{4}$ " diameter ITW Tapcon screws, minimum  $1\frac{3}{4}$ " embedment depth)
- 12 gauge steel, minimum 33 ksi (No. 14 Tek screws, minimum 3 threads into framing)

Along the head, the fasteners shall be spaced approximately  $4\frac{1}{4}$  inches from each corner and approximately  $14\frac{5}{8}$  inches on center. Along each aside jamb, the fasteners shall be located approximately  $4\frac{1}{4}$  inches from each corner,  $1\frac{1}{2}$  inches and  $4\frac{1}{2}$  inches on either side of the meeting rail, and approximately  $14\frac{3}{8}$  inches on center. The fasteners shall be long enough to penetrate a minimum of  $1\frac{1}{2}$  inches into the wall framing members.

**System 5:**

**Nail Fin Installation:** The window shall be fastened to wall framing using the nailing fin of the window. The following wall framing substrates and fasteners are acceptable:

- Spruce-Pine-Fir dimension lumber (No. 10 screws)
- 12 gauge steel, minimum 33 ksi (No. 10 Tek screws, minimum 3 threads into framing)

The fasteners shall be spaced approximately  $4\frac{1}{4}$  inches from each corner, approximately  $13\frac{3}{4}$  inches on center along the head and sill, and approximately  $15\frac{7}{8}$  inches on center along the side jambs. The fasteners shall be long enough to penetrate a minimum of  $1\frac{1}{2}$  inches into the wall framing members.

**System 6:**

**Frame Installation:** The window shall be fastened to wall framing using the frame of the window. The following wall framing substrates and fasteners are acceptable:

- Spruce-Pine-Fir dimension lumber (No. 10 screws)
- Concrete, Minimum  $f'c = 3,000$  psi ( $\frac{1}{4}$ " diameter ITW Tapcon screws, minimum  $1\frac{3}{4}$ " embedment depth)
- Concrete block, Minimum  $f'c = 1,500$  psi ( $\frac{1}{4}$ " diameter ITW Tapcon screws, minimum  $1\frac{3}{4}$ " embedment depth)
- 12 gauge steel, minimum 33 ksi (No. 14 Tek screws, minimum 3 threads into framing)

Along the head, the fasteners shall be spaced approximately  $4\frac{1}{4}$  inches from each corner and approximately  $13\frac{3}{4}$  inches on center. Along each aside jamb, the fasteners shall be located approximately  $4\frac{1}{4}$  inches from each corner,  $1\frac{1}{2}$  inches and  $4\frac{1}{2}$  inches on either side of the meeting rail, and approximately  $13\frac{5}{8}$  inches on center. The fasteners shall be long enough to penetrate a minimum of  $1\frac{1}{2}$  inches into the wall framing members.

**Note:** The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.