

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION WIN-1179

Effective September 1, 2009  
Revised January 1, 2010

*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 **September 2011**.*

*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.*

**Brickmould Vinyl Tilt Single Hung Windows, Triple Mulled, Non-impact Resistant, manufactured by:**

**JELD-WEN Windows and 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 brickmould vinyl windows are vinyl tilt single hung windows. The vinyl tilt single hung windows evaluated in this report are triple mulled, non-impact resistant windows. This product evaluation report is for vinyl tilt single hung windows based on the following tested construction:

### General Description:

System	Description	Label Rating
1	Brickmould Vinyl Tilt Single Hung Window; Triple; (O/X.O/X.O/X)	H-R50 111 x 74 (MULL)

### Product Dimensions:

System	Overall Size	Operable Sash Size	Fixed Daylight Opening Size
1	111" x 74"	Three: 33 $\frac{7}{8}$ " x 36 $\frac{3}{8}$ "	Three: 31 $\frac{7}{8}$ " x 32 $\frac{7}{8}$ "

### Glazing Description:

System	Glass Construction <sup>1</sup>	Glazing Method <sup>2</sup>
1	IG-1	GM-1

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

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

**Glass Construction Key:**

IG-1: The window contains a sealed insulating glass unit. The sealed insulating glass unit is comprised of two sheets of single strength ( $\frac{3}{32}$ " ) annealed glass separated by a U-shaped spacer system. The glass thickness and type used in the insulating glass unit of the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

**Glazing Method Description Key:**

GM-1: The insulating glass unit in the operable sash is exterior glazed. The insulating glass unit in the fixed sash is interior glazed. All are glazed against a bead of silicone glazing. The insulating glass units are secured in place with a vinyl snap-in glazing bead.

**Frame Construction:** The frame members are constructed of polyvinyl chloride (PVC). The frame corners are mitered and welded. The head and the sill are continuous. An aluminum clip is utilized at the meeting rail and secured to the jamb with screws. The fixed meeting rail is secured to the frame with screws through the jamb and aluminum clip. The intermediate frame jamb is coped, butted, sealed with silicone and secured to the head and the sill with screws.

**Sash Construction:** The sash members are manufactured from extruded vinyl (PVC). The sash corners are mitered and thermally welded construction. A sash stop is snap-fit into each frame jamb channel at the head.

**Sill Extender:** A vinyl sill extender is snap-fit onto the inner leg of the frame sill and sealed at the bottom and ends with silicone.

**Reinforcement:** Custom shaped galvanized steel reinforcement is utilized in the fixed meeting rail, the sash meeting rail, the sash bottom rail, and the sash stiles. The reinforcement shall be of sufficient length to support each member.

**Hardware (per window):**

- Metal locks with metal keepers; Two (2) required; Located on the lock rail; 8 inches from each end.
- Block and tackle balance; Two (2) required; Located in each frame side jamb.
- Metal tilt pins; Two (2) required; Located on the sash bottom rail, one at each end.
- Tilt latch; Two (2) required; Located on the sash meeting rail top face at each end.

**Product Identification:** A certification program label (AAMA) will be affixed to the window. The certification program label includes the manufacturer's code name (**JW-18**); product name: **Brickmould Vinyl Tilt Triple SH**; performance characteristics; the approved inspection agency (AAMA); and the applicable standards: AAMA/WDMA/CSA 101/I.S.2/A440-05.

**LIMITATIONS**

**Design pressures (DP):**

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	111	74	± 50

**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.

**Acceptance of Smaller Assemblies:** Windows 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 prepared and installed in accordance with the manufacturers recommended installation instructions. Detailed installation instructions and drawings are available from the manufacturer.

**Installation:** The window shall be fastened to minimum Southern Yellow Pine dimension lumber using the nailing fin of the window. The nailing fin is secured to the wall framing with minimum 11 gauge galvanized smooth shank roofing nails. The fasteners shall be spaced approximately 4 inches from each corner and 4 inches on center along the perimeter of the window. At each intermediate frame jamb, a roofing nail shall be replaced with a minimum No. 8 screw at the head and at the sill. The fasteners shall be long enough to penetrate a minimum of 1 ½ 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.