

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION WIN-1379

Effective April 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 **July 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.*

### **Aluminum Clad Wood Casement Transom Window, Non-impact Resistant, manufactured by**

**Lincoln Wood Products, Inc.**  
**1400 W. Taylor Street**  
**Merrill, Wisconsin 54452**  
**(715) 536-2461**

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 aluminum clad casement transom window is a wood window. The aluminum clad wood casement transom window evaluated in this report is an individual, non-impact resistant window. This product evaluation report is for an aluminum clad wood casement transom window based on the following tested construction:

#### **General Description:**

System	Description	Label Rating
1	Aluminum Clad Wood Casement Transom Window; (O)	TR-R50 111 x 29

#### **Product Dimensions:**

System	Overall Size	Sash Size
1	110 ½" x 29"	108 ⅝" x 27 ¼"

#### **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 Key" for the glazing method description.

**Glass Construction Key:**

IG-1: The sashes contain a sealed insulating glass unit. The sealed insulating glass unit is comprised of two  $\frac{3}{16}$ " annealed glass lites separated by a metal 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 Key:**

GM-1: The insulating glass unit is set from the interior against structural silicone backbedding. Wood glazing stops secure the insulating glass units in place from the interior. The wood glazing stops are secured to the frame with brads spaced 6 inches on center.

**Frame Construction:** The frame head, sill, and jambs consist of molded pine sections. The frame corners are rabbet construction and are secured with staples. **Aluminum Cladding:** The exterior extruded aluminum cladding is miter cut, silicone sealed, snap-fit and secured with staples to the wood frame members.

**Sash Construction:** The sash head, sill, and jambs consist of molded pine members. The sash corners are mortise and tenon construction, silicone sealed, and secured with brads. The sash is secured through the frame to the sash at the top rail and the stiles with wire nails spaced 2 to 4 inches on center. **Aluminum Cladding:** The exterior extruded aluminum cladding is butt joined, sealed at the corners, snap-fit and secured to the wood members through the glazing pocket with staples.

**Hardware:** 6" vinyl snubber; Six (6) required; Located at the sill/bottom rail spaced 18 to 20 inches on center.

**Product Identification:** A certification program label (AAMA) will be affixed to the window. The certification program label includes the manufacturer's code name (LN-1); product name: **Clad Casement Transom**; performance characteristics; the approved inspection agency (AAMA); and the applicable standard: AAMA/WDMA/CSA 101/I.S.2/A440-05.

**LIMITATIONS**

**Design pressures (DP):**

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	110 $\frac{1}{2}$	29	$\pm 50$

**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 lumber using the nailing flange at the head, sill, and side jambs of the window frame. The nailing flange shall be secured to the

wall framing with minimum 11 gauge smooth shank roofing nails (minimum 2 inch long). The fasteners shall be spaced approximately 4 inches from each corner and approximately 4 inches on center. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing members. The nailing flange is silicone sealed to the window frame.

**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.