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

PRODUCT EVALUATION Effective May 1, 2011
WIN-1403

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 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 Direct Set Transom Window, 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 direct set transom is a wood transom window. The aluminum clad wood direct set transom windows evaluated in this report are individual, impact resistant windows. This product evaluation report is for aluminum clad wood direct set transom windows based on the following tested construction:

General Description:

System	Description	Label Rating
1	Aluminum Clad Wood Direct Set Transom Window; (O)	TR-R50 111 x 29 AAMA 506-06

Product Dimensions:

System	Overall Size	Daylight Opening Size
1	110 ½" x 29"	107 ¼" x 25 ½"

Glazing Description:

System	Glass Construction [1]	Glazing Method [2]
1	IG-1	GM-1

Note: [1] See the "Glass Construction Key" for the glazing construction.
[2] See the "Glazing Method 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 a 3/16" annealed glass lite and a laminated glass unit separated by an desiccant-filled aluminum spacer system. The laminated glass unit is comprised of two double strength (1/8") annealed glass lites with a 0.090 SGP interlayer. 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 against Bondaflex Sil 201 FC 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 approximately 3 inches on center.

Frame Construction: The frame head, sill, and jambs consist of finger jointed pine sections. The frame corners are mitered and secured with staples and screws.

Vinyl Cladding: The extruded aluminum cladding at the exterior is miter cut, foam gasket applied, corner keyed, silicone sealed, and secured to the wood frame members with stapes.

Product Identification: A certification program label (AAMA) will be affixed to the window. The certification program label includes the manufacturer's name; product name: **Clad Direct Set Transom**; performance characteristics; the approved inspection agency (AAMA); and the applicable standards: AAMA/WDMA/CSA 101/I.S.2/A440-05 and AAMA 506-06.

LIMITATIONS

Design pressures (DP):

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	110 1/2	29	± 50

Impact Resistance: These window assemblies satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the **Inland I and the Seaward zone**. The window assemblies passed Missile Level D specified in ASTM E 1996-04. The window assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded. These window assemblies will not need to be protected with an impact protective system.

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 applied nailing flange at the head, sill, and side jambs. The nailing flange shall be secured to the wall framing with minimum 2 gauge smooth shank 2" long roofing nails (minimum 12 gauge smooth shank diameter). The fasteners shall be spaced approximately 7 inches from each corner and approximately 7 inches on center. Masonry clips (1 1/2" x 6 1/2" x 0.05") are secured to the window frame with two (2) No. 6 x 3/4" screws per clip and are secured to the wall framing with two (2) 2" long roofing nails (minimum 12 gauge smooth shank). Along the head and side jambs, a masonry clip is required approximately 2 inches from

each end and approximately 16 inches on center. All 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.