

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION

Effective October 1, 2011

WIN-1451

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 **February 2012**.

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.

Mira Premium Series Aluminum Clad Wood Awning Windows, Non-impact Resistant, manufactured by

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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 Mira aluminum clad awning window is a wood window. The aluminum clad wood awning windows evaluated in this report are individual, non-impact resistant windows. This product evaluation report is for aluminum clad wood awning windows based on the following tested constructions:

General Description:

System	Description	Label Rating
1	Mira Premium Series Aluminum Clad Wood Awning Window; (X)	AP-LC50 50 x 50
2	Mira Premium Series Aluminum Clad Wood Awning Window; (X)	AP-LC70 42 x 50
3	Mira Premium Series Aluminum Clad Wood Awning Window; (X)	AP-LC75 50 x 28

Product Dimensions:

System	Overall Size	Sash Size	Daylight Opening Size
1	49 1/2" x 49 1/2"	47 3/4" x 47 3/4"	43 13/16" x 43 13/16"
2	41 1/2" x 49 1/2"	39 3/4" x 47 3/4"	35 13/16" x 43 13/16"
3	49 1/2" x 28 1/2"	47 3/4" x 26 1/2"	43 13/16" x 22 9/16"

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1-3	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 sash contains a sealed insulating glass unit. The sealed insulating glass unit is comprised of two double strength ($\frac{1}{8}$ ") annealed glass lites separated by a desiccant-filled U-shaped steel 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 units are wet glazed on the interior and the exterior. The insulating glass units are held in place with a wood glazing bead.

Frame Construction: The frame head, sill, and side jambs consist of wood members.

Aluminum Cladding: The exterior extruded aluminum cladding corners are miter cut and secured to each other with an injection molded corner key and screws. The aluminum cladding is secured to the wood profiles with a locking leg into a kerf on the interior of the wood and with staples.

Sash Construction: The sash stiles and rails consist of wood members. The wood members are mortise and tenon construction and secured with staples at the corners.

Aluminum Cladding: The exterior extruded aluminum cladding corners are mitered and secured together with steel corner keys at each corner.

Hardware:

- Continuous lock bar; Located on the frame side jamb with two locking points. Metal keepers are located on the sash rail.
- Roto operator with dual arm hinge system; Located on the sill.

Reinforcement: None.

Product Identification: A certification program label (NAMI) will be affixed to the window. The certification program label includes the manufacturer's code name (**PWG-M-91**); product name: **Mira Awning**; performance characteristics; the approved inspection agency (NAMI); 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	49 ½	49 ½ "	± 50
2	41 ½	49 ½ "	± 70
3	49 ½	28 ½ "	± 75

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 manufacturer's 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. The window is secured to the wall framing using the integral nailing fin at the head, sill, and side jambs of the window frame. The nailing fin shall be secured to the wall framing with minimum No. 8 screws. The fasteners shall be spaced approximately 2 inches from each corner and approximately 12 inches on center. The fasteners shall be long enough to penetrate a minimum of $1\frac{1}{2}$ 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.