

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION WIN-1306

Effective August 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 **August 2013**.*

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.

Monument Aluminum Clad Wood Double Hung 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 Monument double hung windows are aluminum clad wood double hung windows. The aluminum clad wood double hung windows evaluated in this report are non-impact resistant windows. This product evaluation report is for aluminum clad wood double hung windows based on the following tested constructions:

General Description:

System	Description	Label Rating
1	Monument Clad Double Hung Window; (X/X)	H-LC65 45 x 97

Product Dimensions:

System	Overall Size	Top Sash Size	Bottom Sash
1	44 1/2" x 96 5/8"	42 3/16" x 46 3/4"	42 3/16" x 48 9/16"

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 top and the bottom sash contain a sealed insulating glass unit. The sealed insulating glass units are comprised of two double strength ($\frac{1}{8}$ ") annealed glass lites separated by a steel Intercept 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 set from the interior against a bed of silicone sealant. Interior glazing stops secure the insulating glass units in place.

Frame Construction: The frame members at the head and the side jambs consist of veneer wrapped finger jointed pine. The frame corners at the head and side jambs are rabbeted, butted, sealed, and secured with screws. Wood parting stops at the head and upper side jambs are secured to the frame members with screws. An aluminum parting stop is utilized at the sill to the interlock rail. The interior wood liner is secured with screws.

Aluminum Cladding: The exterior extruded aluminum cladding at the head and side jambs is mitered, gasket applied, silicone sealed, corner keyed, and secured with screws. The cladding is secured to the frame with staples.

Sash Construction: The sash stiles and rails consist of molded pine with mortise and tenon construction.

Aluminum Cladding: The exterior extruded aluminum cladding is square cut, sealed, and snap-fit to the wood sash members.

Reinforcement: None.

Hardware:

- Metal sweep locks with keeper; Two (2) required; Located at the bottom and the top sash at the interlock meeting rails, 16 inches from each end.
- Amesbury BSI balances; Two (2) required; Located in the frame side jambs.
- Sash take-out clips; Two (2) required; Located at the upper side jambs.

Product Identification: A certification program label (WDMA) will be affixed to the window. The certification program label includes the manufacturer's name; product name: **Monument DH/SH Operator**; performance characteristics; the approved inspection agency (WDMA); 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	44 $\frac{1}{2}$	96 $\frac{5}{8}$	+65/-70

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 WDMA 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: 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 Spruce-Pine-Fir dimension lumber. The window is secured to the wall framing using the applied vinyl 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 2 inch long roofing nails (minimum 11 gauge smooth shank diameter). 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.