

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION WIN-1285

Effective June 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 **April 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.

Premium Clad Wood Double Hung Windows, Individual and Muller, 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 aluminum clad double hung windows are wood windows. The aluminum clad wood double hung windows evaluated in this report are individual and muller 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	Premium Clad Wood Double Hung Window; (X/X)	H-LC50 38 x 81
2	Premium Clad Wood Double Hung Window; (X/X)	H-LC50 42 x 73
3	Premium Clad Wood Double Hung Window; (X/X)	H-LC50 46 x 65
4	Premium Clad Wood Double Hung Window; (X/X)	H-LC35 46 x 93
5	Premium Clad Wood Double Hung Window; (X/X)	H-LC50 38 x 77
6	Premium Clad Wood Double Hung Window; Twin Muller; (X/X X/X)	H-LC50 75 x 77

Product Dimensions:

System	Overall Size	Bottom Sash Size	Top Sash Size
1	37 1/2" x 80 5/8"	34 3/8" x 40"	34 3/8" x 38 5/8"
2	41 1/2" x 72 5/8"	38 3/8" x 36"	38 3/8" x 34 5/8"
3	45 1/2" x 64 5/8"	42 3/8" x 32"	42 3/8" x 30 5/8"
4	45 1/2" x 92 5/8"	42 3/8" x 46"	42 3/8" x 44 5/8"
5	37 1/2" x 76 5/8"	34 3/8" x 38"	34 3/8" x 36 5/8"
6	75" x 76 5/8"	Two: 34 3/8" x 38"	Two: 34 3/8" x 36 5/8"

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1	IG-1	GM-1
2	IG-1	GM-1
3	IG-1	GM-1
4	IG-1	GM-1
5	IG-1	GM-1
6	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: Both sashes contain a sealed insulating glass unit. The sealed insulating glass units are comprised of two double strength (1/8") annealed glass lites separated by a U-shaped steel spacer system embedded in sealant. 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 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 T-nails.

Frame Construction: The frame head and sill consists of molded pine. The frame side jambs consist of finger jointed molded pine. The frame corners are dadoed, sealed, and secured with staples. The sill ends are square cut, sealed, and secured to the frame with staples. Vinyl jamb liners are secured to the frame jambs with screws. Interior wood stops at the head, side jambs, and sill are secured to the wood frame members with staples. The wood high performance sill liner is sealed to the frame with sealant.

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

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

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

Mullion Construction (System 6): The two windows are butted together at the side jambs and held with silicone. They are fastened together with corrugated nails. There is a galvanized gusset strip that is stapled together at both the head and sill of the mull joint.

Reinforcement (Systems 1 thru 5): Structural wood support blocks, located at the center and the side jambs, secured to the frame with screws.

Hardware (each window):

- Metal DECO premium locks w/ keeper; Two (2) required; Located at the bottom sash at the interlock rail with adjacent keepers.
- Clutch pin; Four (4) required; Located on the top and bottom sash stiles, at the bottom rail.
- Tilt latch; Four (4) required; Located at the top rail of each sash.
- Block and tackle balance; Two (2) required; Located on the frame 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: **Premium Clad Double Hung 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	37 ½	80 ⅝	± 50
2	41 ½	72 ⅝	± 50
3	45 ½	64 ⅝	± 50
4	45 ½	92 ⅝	± 35
5	37 ½	76 ⅝	± 50
6	75	76 ⅝	± 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 Spruce-Pine-Fir dimension lumber. The window is secured to the wall framing using the applied vinyl 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 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.