

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION
WIN-1017

January 1, 2009

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 March 2010.

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.

Series 01 Clad Wood One-Piece Casement Fixed Window, Non-impact Resistant, manufactured by:

Eagle Window and Door
2045 Kerper Blvd
Dubuque, IA 52001
563-556-2270
www.eaglewindow.com

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 Series 01 Clad Wood One-piece Casement Fixed Window is an extruded aluminum clad wood fixed casement window. The aluminum clad wood fixed casement windows evaluated in this report are individual, non-impact resistant windows based on the following tested constructions.

General Description:

System	Description	Label Rating
1	Series 01 Clad Wood One-Piece Casement Fixed Window; (O)	F-C70 (60 x 96)
2	Series 01 Clad Wood One-Piece Casement Fixed Window; (O)	F-C80 (72 x 72)

Product Dimensions:

System	Overall Size	Fixed Daylight Opening Size
1	60" x 96"	54" x 90"
2	72" x 72"	70 1/2" x 70 1/2"

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1	IG-1	GM-1 or GM-2
2	IG-2	GM-2 or GM-2

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 two $\frac{3}{16}$ " heat strengthened glass sheets separated by a desiccant-filled aluminum 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.

IG-2: The window contains a sealed insulating glass unit. The sealed insulating glass unit is comprised of two $\frac{1}{4}$ " heat strengthened glass sheets separated by a desiccant-filled aluminum box 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 butyl rubber mastic and silicone. 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 2 inches from each corner and 6 to 8 inches on center.

GM-2: The insulating glass unit is set from the interior against hot melt silicone glazing sealant. Wood glazing stops secure the insulating glass units in place from the interior. The wood glazing stops are secured to the frame with staples spaced 2 inches from each corner and 6 to 8 inches on center.

Frame Construction: The wood frame is comprised of laminated veneer lumber with corners square cut, butted, sealed with silicone and secured with staples and corrugated fasteners.

Aluminum Cladding: The extruded aluminum cladding is slip-fit over the wood frame members with the corners miter cut, silicone sealed, nylon corner keyed, and secured with three screws per corner.

Sash Construction: The wood sash is composed of lap joint construction and is fastened with glue and a staple at each corner. The sash assembly is set into the frame assembly and held in place by wood frame stops secured with staples located 1 to 2 inches from each end of the stop and 6 to 8 inches on center.

Product Identification:

System 1: A certification program label (WDMA) will be affixed to the window. The certification program label includes the manufacturer's name, product name: **Clad Casement one-piece Aluminum Clad Frame**; performance characteristics; the approved inspection agency (WDMA); and the applicable standards: ANSI/AAMA/WDMA 101/I.S.2-97 and AAMA/WDMA/CSA I.S.2/A440-05.

System 2: A certification program label (WDMA) will be affixed to the window. The certification program label includes the manufacturer's name, product name: **Clad Casement one-piece Aluminum Clad Frame**; performance characteristics; the approved inspection agency (WDMA); and the applicable standards: AAMA/WDMA/CSA I.S.2/A440-05.

LIMITATIONS

Design pressures (DP):

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	60	96	± 70
2	72	72	± 80

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.

Acceptance of Different Geometric Shapes: Radius and geometric shapes are acceptable provided that they fit within the inscribed dimensions specified in the table above and are 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:

System 1: The wall framing shall be minimum Southern Yellow Pine dimension lumber. The window is secured to the wall framing with the nailing fin of the window and with the window frame. The nailing fin is secured to the wall framing with minimum 12 gauge smooth shank roofing nails spaced approximately 3 ½ inches from each corner and approximately 6 inches on center. The window frame is secured to the wall framing with minimum No. 10 x 3" screws. Along each side jamb, the fasteners are located approximately 6 inches from each end and one at the mid-span. Along the head and the sill, the fasteners are located approximately 6 inches from each end. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing.

System 2: The wall framing shall be minimum Southern Yellow Pine dimension lumber. The window is secured to the wall framing using installation straps and with the nailing flange. The installation straps are made of galvanized steel and are approximately 12" x 1 ½" x 0.04". The installation straps are secured to the interior side of the wall framing with two No. 8 x 1 ½" screws. The straps are attached to the window using two No. 8 x ½" wood screws. The installation straps were additionally secured on the exterior side of the wall framing through the flange, then through the installation strap with two No. 8 x 1 ½" screws. The installation straps are located 6 inches from each corner and at the midspan of each side. In addition, the nail flange is secured to the wall framing with minimum 12 gauge smooth shank roofing nails spaced approximately 2 inches from each corner and approximately 8 inches on center. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing.

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.