

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION WIN-1029

Effective February 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 **May 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.

Series 07 Aluminum Clad Wood Double Hung Fixed Picture Windows, 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 Aluminum Clad Double Hung Fixed Picture Windows are extruded aluminum clad wood double hung fixed picture windows. The aluminum clad wood double hung picture windows evaluated in this report are individual, non-impact resistant windows based on the following tested construction.

General Description:

| System | Description | Label Rating |
|--------|--|------------------|
| 1 | Aluminum Clad Wood Double Hung Fixed Picture Window; (O/O) | FW-C50 (60 x 78) |

Product Dimensions:

| System | Overall Frame Size | Sash Size |
|--------|--------------------|--|
| 1 | 60" x 78" | 50 $\frac{1}{16}$ " x 75 $\frac{7}{8}$ " |

Glazing Description:

| System | Glass Construction ¹ | Glazing Method ² |
|--------|---------------------------------|-----------------------------|
| 1 | IG-1 | GM-1 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 sheets of $\frac{3}{16}$ " annealed glass separated by a desiccant-filled stainless 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 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 InstantGlaze II 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 head frame is corners were coped, butted, sealed with silicone and secure with three staples per corner. Sill frame corners were coped, butted, sealed with a corner gasket and silicone, and secured with two No. 8 x $1\frac{3}{4}$ " screws. Sill corners are coped, butted, sealed with a corner gasket and silicone, and secured with two No. 7 x $1\frac{1}{4}$ " screws and a No. 6 x $\frac{7}{16}$ " screw.

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 two No. 6 x $\frac{7}{16}$ " screws per corner.

Sash Construction: The wood sash is composed of molded pine with mortise and tenon construction. Sash upper corners are secured with glue and two No. 8 x $1\frac{1}{2}$ " screws per corner. Sash lower corners are secured with glue and one No. 8 x $2\frac{1}{4}$ " screw and one No. 8 x $1\frac{1}{2}$ " screw.

Aluminum Cladding: Extruded aluminum cladding was slip-fit over the wood, sash upper corners were miter cut, sealed with glue and two No. 4 x $\frac{1}{2}$ " screws. Sash lower corners were coped, butted and sealed with butyl.

Hardware Description:

No hardware is utilized.

Product Identification:

Systems 1: A certification program label (WDMA) will be affixed to the window. The certification program label includes the manufacturer's name, product name: **Clad T7 Double Hung Picture Aluminum Clad Frame**; 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 | 60 | 78 | ± 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:

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 attached to the window frame and with installation clips. The nailing fin is secured to the wall framing with minimum 12 gauge smooth shank roofing nails spaced approximately 8 inches from each corner and approximately 8 inches on center. The masonry clips (1 1/2" x 6 1/2" x 0.05" galvanized steel) are located approximately 24 inches from each end of the side jambs. The installation clips are secured to the window frame with two (2) No. 8 x 5/8" screws and to the wood surround with two (2) minimum No. 8 x 1 1/2" screws on the interior and exterior side of the framing. All fasteners shall be long enough to penetrate a minimum of 1 1/2" 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.