

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION

WIN-500

*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 3 years after the effective date.*

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.

Elliptical Vinyl Clad Wood Fixed Window, Impact Resistant, manufactured by

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Bayport, MN 55003-1096
Telephone: (651) 264-5150**

will be acceptable in designated catastrophe areas along the Texas Gulf Coast when assembled and installed in accordance with the manufacturer's installation instructions, this product evaluation report, and drawings referenced in this product evaluation report.

PRODUCT DESCRIPTION

The elliptical window is a vinyl clad wood fixed window. The window evaluated in this report is an individual, impact resistant window. This evaluation report includes an elliptical window based on the following tested construction:

General Description:

System	Description	Label Rating
1	Elliptical Vinyl Clad Wood Fixed Window; Series ET8; (O)	F-R50 95 x 21

Product Dimensions:

System	Overall Window Size
1	95 1/4" x 21"

Glazing Description:

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

Note: ¹ See the "Glass Description Key" for the glazing construction.

² See the "Glazing Method Key" for the glazing method description.

Glazing Description Key:

IG-1: Sealed insulating glass unit. The sealed insulating glass unit is comprised of a laminated glass unit and a double strength ($\frac{1}{8}$ ") annealed glass lite separated by a desiccant-filled aluminum spacer system. The laminated glass unit is comprised of two $\frac{3}{16}$ " annealed glass lites with a 0.090 inch SGP interlayer.

Glazing Method Key:

GM-1: The glass is set from the interior against silicone backbedding and a silicone fillet bead was used on the exterior. Wood glazing stops are secured to the frame with staples. The wood glazing stops secure the insulating glass unit at the interior.

Frame Construction: The frame members are laminated poplar and maple sections on the radius and molded pine sections on the sill. The frame corners are butted, sealed with silicone, and secured with two staples and one screw per corner. **Cladding:** Vinyl (PVC) cladding is glued and stapled to the exterior frame members.

Product Identification: A label will be affixed to the window. The label includes the manufacturer's name, performance characteristics and approved inspection agency to indicate compliance with AAMA/NWWDA 101/I.S.2 and with ASTM E 1886 and ASTM E 1996. **Tested to a Higher Negative Design Pressure:** The label indicates a higher negative design pressure. The higher negative design pressure is indicated in the limitations section of this report.

LIMITATIONS

Design pressures (DP):

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	95 $\frac{1}{4}$	21	+50/-65

Impact Resistance: These window assemblies satisfy the Texas Department of Insurance's criteria for protection from windborne debris. The window assemblies passed the Missile Level D specified in ASTM E 1996-01 and may be installed in the **Inland I** and **Seaward** zones. The window assembly may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded. These assemblies will not need to be protected with an impact protective system.

Tested to a Higher Negative Design Pressure: The label indicates a higher negative design pressure rating for the product. The higher negative design pressure 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 windows shall be assembled and installed in accordance with the manufacturer's installation instructions and as specified in this report. The window assembly shall be fastened to minimum Spruce-Pine-Fir wood framing members.

Anchorage: The windows are secured to the wood wall framing members with Andersen steel installation clips. Refer to the Andersen Installation Guide for a description of the installation clips. The

installation clips are secured to the window frame with two (2) No. 8 x 1 $\frac{1}{4}$ inch screws. The installation clips are secured to the wood wall framing with two (2) No. 8 screws. The installation clips are spaced a maximum of 6 inches from each corner and a maximum of 20 inches on center. The fasteners shall be long enough to penetrate a minimum of 1 $\frac{1}{2}$ inches into the wood wall framing members.

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.