

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION WIN-516

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 **November 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 ES 550 Aluminum Fixed Windows, Impact Resistant, manufactured by

Atrium Windows and Doors
9001 Ambassador Row
Dallas, TX 75247
Telephone: (214) 637-2696

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 550 window is an aluminum fixed window. The fixed window evaluated in this report is an individual, impact resistant window. This product evaluation report is for an aluminum fixed window based on the following tested construction:

General Description:

System	Description	Label Rating
1	Series ES 550 Thermally Broken Impact Aluminum Picture Window; (O)	F-R50 48 x 72

Product Dimensions:

System	Overall Size
1	48" x 72"

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: The vent contains a sealed insulating glass unit. The sealed insulating glass unit in the tested assembly is comprised of one outer nominal $\frac{1}{8}$ " thick annealed glass lite, an aluminum-butyl composite spacer system, and one inner laminated glass lite. The laminated glass is comprised of nominal $\frac{1}{8}$ " annealed glass- 0.090" thick DuPont PVB interlayer- $\frac{1}{8}$ " annealed glass.

Glazing Method Key:

GM-1: The insulating glass unit is exterior glazed with silicone sealant and secured in place with a aluminum glazing bead with integral vinyl gasket. The glazing bead is secured using #8 screws 2" from each end and 12" on center thereafter.

Frame Construction: The frame members are manufactured from extruded 6063-T5 aluminum. The frame corners are coped, butted, and attached with two (2) screws per corner. The frame members are thermally broken.

Reinforcement: None.

Product Identification: A certification program label (**AAMA**) will be affixed to the window. The certification program label includes the manufacturer's code (**ADW-1**), product name **Series ES 550**; performance characteristics and approved inspection agency to indicate compliance with the requirements of AAMA/NWDA 101/I.S.2/A440-05 and compliance with AAMA 506-06.

LIMITATIONS

Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	48	72	± 50

Impact Resistance: These window assemblies satisfy the Texas Department of Insurance's criteria for protection from windborne debris in both the **Inland I zone** and the **Seaward zone**. The window assemblies passed Missile Level D specified in ASTM E 1996-05. The window assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded. These window assemblies will not need to be protected with an impact protective system.

Acceptance of Smaller Assemblies: Window 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 installed in accordance with the manufacturer's installation instructions. The wood wall framing members shall be minimum Spruce-Pine-Fir lumber.

Installation: The window shall be mounted to the wood wall framing members using the nailing fin of the window with minimum No. 8 screws. The fasteners shall be spaced a maximum of 2 inches from each corner and a maximum of 12 inches on center along the perimeter of the window frame. The fasteners shall be long enough to penetrate a minimum of $1\frac{1}{2}$ " into the 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) and the International Building Code (IBC) and the Texas Revisions.