

TEXAS DEPARTMENT OF INSURANCE

Engineering Services / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
Phone No. (512) 322-2212 Fax No. (512) 463-6693

PRODUCT EVALUATION WIN-1010

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 **June 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 200 Vinyl Fixed Windows, Impact Resistant, manufactured by:

Showcase Custom Vinyl Windows and Doors
A product of ENLIGHT Industries, LLC
4902 Gulf Freeway
Houston, Texas 77023
Telephone: (713) 926-8500

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 200 window is a vinyl fixed window. The vinyl fixed windows evaluated in this report are individual, impact resistant windows. This product evaluation report is for vinyl fixed windows based on the following tested construction:

General Description:

System	Description	Label Rating
1	Series 200 Vinyl Fixed Window; (O)	F-C60 72 x 84 AAMA 506-06

Product Dimensions:

System	Overall Size	Operating Sash Size
1	72" x 84"	N/A

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1	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: The window contains a 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 Truseal Swiggle™ strip aluminum spacer system. The laminated glass lite is comprised of two double strength ($\frac{1}{8}$ ") annealed glass lites with a 0.90" PVB interlayer. The glass thickness and type used in the insulating glass unit of the tested assembly and in smaller assemblies shall comply with ASTM E 1300-00 and ASTM E 1886-05 and ASTM E 1996-05.

Glazing Method Key:

GM-1: The insulating glass unit is interior glazed with Sika 556 polyurethane backbedding compound at the exterior, heel, and along the full perimeter of the insulating glass unit. A dual durometer glazing bead secures the insulating glass unit in place.

Frame Construction: The frame members are manufactured from extruded vinyl (PVC). The frame corners are mitered and welded construction.

Sash Construction: N/A

Reinforcement: None.

Hardware: None.

Product Identification: A certification program label (AAMA) will be affixed to the window. The certification program label includes the manufacturer's code name (**SHO-1**); product name: **Series 200 PW**; performance characteristics; and approved inspection agency to indicate compliance with the requirements of ANSI/AAMA/NWDA 101/I.S.2-97. The AAMA certification program label also includes a tab that references AAMA 506-06 and that the product conforms to ASTM E 1886 and E 1996.

LIMITATIONS

Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	72	84	± 60

Impact Resistance: These window assemblies satisfy the Texas Department of Insurance's criteria for protection from windborne debris in 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 assembly 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. Detailed installation instructions and drawings are available from the manufacturer.

Installation: The wall framing shall be minimum Spruce-Pine-Fir dimension lumber. The window shall be secured to the wall framing using the nailing fin of the window with minimum 8d ring shank nails. The

fasteners shall be placed at the corners and in every other pre-punched hole in the nailing fin. In addition, a minimum 1x2 wood furring strip shall be placed over the nailing fin along the perimeter of the window. The wood furring strip is secured in place with minimum No. 10 wood screws spaced approximately 3 inches from each corner and approximately 18 inches on center. The fasteners shall penetrate through the nailing fin and into the wall framing. All fasteners shall be long enough to penetrate a minimum of 1 ½" 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.