

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION WIN-898

Effective December 1, 2007

*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.*

**Series 200 Vinyl Horizontal Slider 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 horizontal slider window. The vinyl horizontal slider windows evaluated in this report are individual, impact resistant windows. This product evaluation report is for vinyl horizontal slider windows based on the following tested constructions:

### General Description:

System	Description	Label Rating
1	Series 200 Vinyl Horizontal Slider Window	HS-R40 60 x 48

### Product Dimensions:

System	Overall Size	Operating Sash Size
1	60" x 48"	29 <sup>5</sup> / <sub>16</sub> " x 45 <sup>3</sup> / <sub>16</sub> "

### Glazing Description:

System	Glass Construction <sup>1</sup>	Glazing Method <sup>2</sup>
1	IG-1	GM-1

Note: <sup>1</sup> See the "Glass Construction Key" for the glazing construction.

<sup>2</sup> See the "Glazing Method Key" for the glazing method description.

**Glazing Construction Key:**

IG-1: The fixed lite and the operable sash contain sealed insulating glass units. The sealed insulating glass units are comprised of a laminated glass unit and a double strength ( $\frac{1}{8}$ " ) annealed glass lite separated by a Truseal Swiggle™ strip 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 and ASTM E 1996-01.

**Glazing Method Key:**

GM-1: The insulating glass unit in the fixed sash is interior glazed with a silicone backbedding compound at the exterior and along the full perimeter of the glass unit. A vinyl (PVC) snap-in glazing bead secures the insulating glass unit from the exterior. The insulating glass unit in the operable sash is exterior glazed with a silicone backbedding compound at the interior and along the full perimeter of the glass unit. A vinyl (PVC) snap-in glazing bead secures the insulating glass unit from the exterior.

**Frame Construction:** The frame members are manufactured from extruded vinyl (PVC). The frame corners are mitered and welded construction. The fixed interlock is attached to the frame head and sill with screws.

**Sill Extender:** A vinyl sill extender is required and is attached to the interior leg of the frame sill. The sill extender adds an additional  $\frac{1}{2}$  inch height to the sill.

**Sash Construction:** The sash members are manufactured from extruded vinyl (PVC). The sash corners are mitered and welded construction.

**Reinforcement:** Extruded aluminum H-shaped reinforcement bar with screw boss is inserted into the cavity of the fixed interlock. Extruded aluminum H-shaped reinforcement is located in the locking stile. All reinforcement extends the length of the members.

**Hardware:**

- Cam action lock; Two (2) required; Located  $7\frac{5}{8}$  inches from each end of the sash lock stile. Attached with screws.
- Lock keepers; Two (2) required; Located opposite the locks on the fixed interlock. Attached with screws.

**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 HS**; performance characteristics; and approved inspection agency to indicate compliance with the requirements of ANSI/AAMA/NWDA 101/I.S.2. The AAMA certification program label also includes a tab that references AAMA 506-2000 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	60	48	± 40

**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 1996-01. 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. The wood wall framing members shall be minimum Southern Yellow Pine lumber.

**Installation:** The wall framing shall be minimum Southern Yellow Pine 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 in every other pre-punched hole in the nailing fin. A fastener is required at each corner and approximately 9 inches on center along the perimeter of the window. The 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.