

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION WIN-106

Effective January 1, 2006
Revised Effective June 1, 2006

*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 Single Hung Windows, Non-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 single hung window. The single hung window evaluated in this report is an individual, non-impact resistant window. This product evaluation report is for a vinyl single hung window based on the following tested construction:

General Description:

System	Description	Label Rating
1	Series 200; Individual Single Hung Window; (O/X)	H-R40 44 x 84

Product Dimensions:

System	Overall Size	Sash Size
1	44" x 84"	41 $\frac{7}{8}$ " x 33 $\frac{15}{16}$ "

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.

PRODUCT DESCRIPTION (Continued)

Glazing Description Key:

IG-1: The fixed lite and the operable sash contain sealed insulating glass units. The sealed insulating glass units are comprised of two double strength ($\frac{1}{8}$ ") annealed glass lite separated by a Truseal Swiggle™ spacer system.

Glazing Method Key:

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

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 jambs with No. 8 screws.

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

Reinforcement: Extruded H-shaped aluminum reinforcement is located in the fixed interlock rail. The reinforcement extends the full length of the member.

Hardware:

<u>Description</u>	<u>Location</u>
Cam action locks	Each end of sash top rail, attached with screws
Lock keepers	Attached to fixed lite interlock rail into the rail reinforcement
Plastic tilt latch	Each end of sash top rail
Steel pivot bar	Each end of sash bottom rail
Spiral balance	One in each jamb

Product Identification: A certification program label will be affixed to the window. The certification program label includes the manufacturer's name, performance characteristics and approved inspection agency to indicate compliance with the requirements of AAMA/NWWDA 101/I.S.2.

LIMITATIONS

Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	44	84	± 40

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.

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 Southern Yellow Pine lumber.

Installation: The window shall be secured to the wall framing using the nailing fin of the window with roofing nails with a minimum head diameter of 3/8" and a minimum shank diameter of 0.120". The fasteners shall be long enough to penetrate 1-1/4" into the wall framing. Fasteners shall be placed in each of the pre-punched holes in the nailing fin, spaced approximately 4-3/4" inches on center.

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.