TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION Effective October 1, 2010
WIN-970

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 December 2010.

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 715 Vinyl Fixed Windows, Individual, New and Replacement Construction, 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 715 window is a vinyl fixed window. The fixed windows evaluated in this report are individual, impact resistant windows. This product evaluation report is for a vinyl fixed window based on the following tested construction:

General Description:

System	Description	Label Rating
1	Series 715 Fixed Window; (O)	FW-HC60 60x84 AAMA 506-2000

Product Dimensions:

System	Overall Size
1	60" x 84"

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.

Glazing Description Key:

IG-1: The window is constructed with a ¾" thick insulating glass unit. The sealed insulating glass unit is comprised of a laminated glass unit and a double strength (⅛") annealed glass lite separated by a Truseal Swiggle™ spacer system. The laminated glass lite is comprised of two double strength (⅛") annealed glass lites with a Solutia 0.090" PVB interlayer.

Glazing Method Key:

GM-1: The insulating glass unit is interior glazed with Sika 556 polyurethane backbedding compound at the exterior, and at the heal of glass, full perimeter with PVC snap-in glazing bead at the interior of the glass.

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

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. The AAMA certification program label also includes a tab that references AAMA 506-2006 and that the product conforms to ASTM E 1886 and E 1996. The manufacturer's code is **SHO-1**.

LIMITATIONS

Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	60	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. The wood wall framing members shall be minimum Spruce-Pine-Fir lumber.

Installation:

Fin Installation to Wood: The window shall be secured to the wall framing using the nailing fin of the window with 2" long ring shank roofing nails. Fasteners shall be placed in the nailing fin, located approximately 3½ inches from each corner and spaced approximately 10½ inches on center along the perimeter of the window. The window nailing fin is also set to the wood framing with a polyurethane sealant.

Frame Installation to Wood: The wall framing shall be minimum Spruce-Pine-Fir dimension lumber. The window is secured to the wall framing members using the window frame head, sill, and side jambs with minimum No. 8 screws. The fasteners shall be located approximately 6 inches from each corner and 12 inches on center along the perimeter of the window. The fasteners shall be long

enough to penetrate a minimum of 1 ½ inches into the wall framing. The window shall be set in a bed of silicone.

Frame Installation to Concrete or CMU: The wall framing shall be precast concrete, cast in place concrete, or concrete masonry units (CMU) construction. Hollow CMU is acceptable. The window is secured to the wall framing members using the window frame head, sill, and side jambs with minimum ¼" diameter Tapcons. The fasteners shall be located approximately 6 inches from each corner and approximately 12 inches on center. The fasteners shall be long enough to penetrate a minimum of 1 ¼ inches into the wall framing and shall be located a minimum of 2 inches from the edge of the opening. The window shall be set in a bed of silicone.

Frame Installation to Steel: The wall framing shall be minimum 18 gauge steel. The window is secured to the wall framing members using the window frame head, sill, and side jambs with minimum No. 12 Tek screws. The fasteners shall be located approximately 6 inches from each corner and approximately 12 inches on center. The fasteners shall be long enough to penetrate through the steel framing a mininum of ¼ inch beyond the drill point. The window shall be set in a bed of silicone.

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.