

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION WIN-696

Effective August 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 three years from 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.

Model GLW-DH-133 Vinyl Double Hung Windows, Non-impact Resistant, manufactured by

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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 Model GLW-DH-133 window is a vinyl double hung window. The vinyl double hung windows evaluated in this report are individual, non-impact resistant windows. This product evaluation report is for vinyl double hung windows based on the following tested construction:

General Description:

System	Description	Label Rating
1	Model GLW-DH-133 Vinyl Double Hung Window; (X/X)	H-R35 44 x 60

Product Dimensions:

System	Overall Size	Top Sash Size	Bottom Sash Size
1	44" x 59 3/4"	39 7/8" x 29"	41" x 30"

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: Both sashes contain sealed insulating glass units. The sealed insulating glass units are comprised of two double strength ($\frac{1}{8}$ ") annealed glass lites separated by a desiccant-filled steel spacer system sealed with hot melt butyl.

Glazing Method Key:

GM-1: The insulating glass units are interior drop-in glazed. Along the exterior, the insulating glass units are wet glazed with a silicone sealant compound. A dual durometer vinyl glazing bead secures the insulating glass units in place from the interior.

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

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

Reinforcement: None.

Hardware:

- Die cast metal cam locks; Two (2) required; Located 11 inches from each end; Fastened to sash with two (2) screws each.
- Die cast metal keepers; Two (2) required; Located opposite the cam locks; Fastened to the sash with two (2) screws each.
- Plastic spring style tilt latches; Two (2) required; Located at the corners of the top rails.
- Plastic spring-out night latch; Two (2) required; Located on the stiles of the top sash.
- Die cast metal locking pivot pins; Two (2) required; Located at the ends of the bottom rails.
- Steel block and tackle balances; Four (4) required; Located in the jamb pockets.

Product Identification: A certification program label (WDMA) will be affixed to the window. The certification program label includes the manufacturer's WDMA license number (427-H-133.0); performance characteristics; and approved inspection agency to indicate compliance with the requirements of AAMA/WDMA 101/I.S.2/NAFS-02.

LIMITATIONS

Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	44	59 $\frac{3}{4}$	± 35

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 when installed in areas where windborne debris is required.

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 members shall be minimum Spruce-Pine-Fir lumber. The window shall be mounted to the wood wall framing members using the frame jambs of the window with minimum No. 8 x 2 ½" screws. A minimum of two (2) fasteners are required in each frame jamb. The fasteners shall be located approximately 4 inches from the head and the sill. The fasteners shall be long enough to penetrate a minimum of 1 ½" 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), the International Building Code (IBC), and the Texas Revisions.