

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION WIN-118

Effective January 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 1450 Vinyl Double Hung Replacement 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 Series 1450 window is a vinyl double hung replacement window. The 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	Series 1450 Vinyl Double Hung Replacement Window; (XX)	H-R35 44 x 72

Product Dimensions:

System	Overall Size	Interior Sash Size	Exterior Sash Size
1	44" x 72"	41 $\frac{3}{8}$ " x 35 $\frac{1}{8}$ "	41 $\frac{3}{8}$ " x 35 $\frac{1}{8}$ "

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.

Glazing Description Key:

IG-1: Both sashes contain sealed insulating glass units. The sealed insulating glass units are comprised of two single strength ($\frac{3}{32}$ ") annealed glass lites separated by a metal reinforced butyl spacer system.

Glazing Method Key:

GM-1: The insulating glass units are set from the interior against double-sided adhesive foam glazing tape. A rigid vinyl snap-in glazing bead secures the glass lite from the interior.

Frame Construction: The frame members are manufactured from extruded PVC (vinyl). The frame corners are mitered and welded construction. The sill and the head contain a PVC snap-in track liner.

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

Reinforcement: The exterior meeting rail and the bottom rail utilize roll-formed steel reinforcement. The reinforcement extends the length of the members.

Hardware:

<u>Description</u>	<u>Location</u>
Metal sweep lock with keeper	11" from the meeting rail ends
Constant force balance assembly	Two per jamb
PVC tilt latch	Top and interior meeting rail ends
Tilt pin	Bottom and exterior meeting rail end

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/NWDA 101/I.S.2.

LIMITATIONS

Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	44	72	± 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 drawings and installation instructions are available from the manufacturer.

Installation: The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The window shall be mounted to the wood wall framing members using the frame jambs of the window. Each jamb is secured to the wall framing with three (3) No. 10 x 2" screws. The screws are located 4 inches from the head and from the sill and one at the mid-span. 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.