

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION WIN-1364

Effective February 1, 2011

*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 **January 2013**.*

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 2320 Vinyl Fixed Windows, Non-impact Resistant, manufactured by

PGT Industries
1070 Technology Drive
Nokomis, Florida 34275
Telephone: (800) 282-6019

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 2320 fixed windows are vinyl fixed windows. The vinyl fixed windows evaluated in this report are individual, non-impact resistant, windows. This product evaluation report is for vinyl fixed windows based on the following tested construction:

General Description:

System	Description	Label Rating
1	Series 2320 Vinyl Fixed Window; (O)	FW-LC50 96 x 74

Product Dimensions:

System	Overall Size	Fixed Daylight Opening Size
1	96" x 74 $\frac{3}{8}$ "	92" x 70"

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.

Glass Construction Key:

IG-1: The window contains a sealed insulating glass unit. The sealed insulating glass unit in the tested assembly is comprised of two $\frac{1}{4}$ " annealed glass lites separated by a butyl spacer system. The glass thickness and type used in the insulating glass unit of the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

Glazing Method Key:

GM-1: The insulating glass unit is interior glazed with hot melt backbedding. The insulating glass unit is secured in place with a rigid vinyl snap-in glazing bead.

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

Sash Construction: N/A

Hardware: None.

Reinforcement: None.

Product Identification: A certification program label (Keystone) will be affixed to the window. The certification program label includes the performance characteristics and approved inspection agency to indicate compliance with the requirements of AAMA/WDMA/CSA 101/I.S.2/A440-05. The certification program label contains a Certification Authorization Report (CAR) number located on the top right side of the label and a model name for the window. The following CAR number and model name is located on the label:

Label Identification:

System	Model	Certification Authorization Report (CAR) number
1	2320 PVC Fixed	199-476

LIMITATIONS

Design pressures (DP):

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	96	$74 \frac{3}{8}$	± 50

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 protection is required.

Window Orientation: The maximum height and maximum width of the window assembly may be switched so that the window assembly can be oriented horizontally or vertically.

Geometric Shapes: Non-rectangular shaped windows may be used. The height and width of the geometric shape window shall not exceed the height and width of the tested assembly specified in the Limitations section of this evaluation report. The frame shall be continuously and fully supported by wall framing and secured with fasteners that are sized and spaced as specified in the Installation Instructions section of this evaluation report.

Acceptance of Smaller Assemblies: Windows 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 and this evaluation report. Detailed installation instructions and drawings are available from the manufacturer.

Installation: The window frame shall be fastened to minimum Southern Yellow Pine lumber. The window is secured to the wall framing using the window frame with minimum No 8 x 2" screws. The fasteners are required along the frame head, sill, and the frame side jambs. Along the head and the sill, the fasteners shall be spaced approximately 12 inches from each corner and approximately 25 inches on center. Along the side jambs, the fasteners shall be spaced approximately 12 inches from each corner and approximately 36 inches on center. In addition, the window is secured in place with minimum 1/2" x 1/2" wood blind stops located along the head and side jambs at the interior and the exterior. The blind stops are secured to the wall framing with minimum No. 6 x 2" screws located 3 inches from each corner and approximately 16 inches on center. The fasteners shall be long enough to penetrate a minimum of 1 1/2 inches 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.