

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION WIN-1511

Effective January 1, 2012

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 **February 2014**.

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 230 Aluminum Fixed Windows, Non-impact Resistant, manufactured by

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Holbrook, New York 11741
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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 230 fixed windows are aluminum fixed windows. The aluminum fixed windows evaluated in this report are individual, non-impact resistant, windows. This product evaluation report is for aluminum fixed windows based on the following tested constructions:

General Description:

System	Description	Label Rating
1	Series 230 Aluminum Fixed Window; (O)	R-PG50 73 x 58
2	Series 230 Aluminum Fixed Window; (O)	R-PG80 48 x 82

Product Dimensions:

System	Overall Size
1	73" x 58"
2	48" x 82"

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1&2	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 $\frac{3}{4}$ " sealed insulating glass unit in the tested assembly is comprised of two lites of $\frac{5}{32}$ " tempered glass lites separated by an aluminum 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 against a bead of silicone sealant and secured with vinyl snap-in glazing beads.

Frame Construction: The frame members are manufactured from extruded aluminum. The frame corners are mechanically fastened.

Sash Construction: N/A

Hardware: None.

Reinforcement: None

Product Identification: A certification program label (AAMA) will be affixed to the window. The certification program label includes the manufacturer's code name (**FS-1**); product name: **Series 230 Fixed**; performance characteristics; the approved inspection agency (AAMA); and the applicable standard: AAMA/WDMA/CSA 101/I.S.2/A440-05.

LIMITATIONS

Design pressures (DP):

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	73	58	± 50
2	48	82	± 80

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.

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 Pine dimension lumber. The window is secured to the wall framing using the window frame with minimum No 8 screws. The fasteners are required along the frame head and the frame side jambs. The fasteners shall be spaced

approximately 5 inches from each corner and approximately 18 inches on center. The fasteners shall be long enough to penetrate a minimum of $1\frac{1}{2}$ 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.