

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION WIN-145

Effective May 1, 2005

*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 3100 Acrylic Block Fixed Aluminum Frame 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 3100 is an acrylic block fixed aluminum frame window. The fixed window evaluated in this report is an individual, non-impact resistant window. This product evaluation report is for an acrylic block fixed aluminum frame window based on the following tested construction:

General Description:

System	Description	Label Rating
1	Individual Fixed Window; (O)	F-LC45 55 x 55

Product Dimensions:

System	Overall Size	Daylight Opening
1	54 1/2" x 54 1/2"	52 1/2" x 52 1/2"

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1	BLK-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:

BLK-1: Acrylic blocks. The acrylic blocks are joined together vertically and horizontally in six (6) rows and six (6) columns to form the composite lite. Each block measures 7 ½" x 7 ½" x 2 ⅛". The blocks are mechanically attached with rectangular cylindrical built-in connecting tabs and slots.

Glazing Method Key:

GM-1: The blocks are glazed to the frame with a silicone rubber sealant. The joints between the blocks are also sealed with a silicone rubber sealant.

Frame construction: The frame members are manufactured from extruded 6063-T5 aluminum. Frame members are thermally broken using poured and debridged polyurethane thermal barriers. The frame corners are mitered, fully sealed, and secured with two (2) screws per corner.

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.

LIMITATIONS

Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	54 ½	54 ½	± 45

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.

Installation: The window shall be mounted to minimum Douglas Fir-Larch wood wall framing members using the nailing fin of the window with minimum No. 8 screws. The fasteners are located a minimum of 6 inches from each corner and a maximum of 16 inches on center along the perimeter of the window frame. The fasteners shall be long enough to penetrate into the wood wall framing members a minimum of 1 ½ inch.

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.