

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION WIN-100

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 **May 2015**.

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.

**Glass Block Vinyl Frame Fixed Windows, Non-impact Resistant**, manufactured by

**U.S. Block Windows, Inc.**  
**3000 Johnson Avenue**  
**Pensacola, Florida 32514**  
**(850) 473 - 0555**

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

### General Description:

| System | Description  | Label Rating   |
|--------|--|----------------|
| 1      | Series GB 2000/2080; Individual, Fin Frame Fixed Window; (O) | FW-R75 54 x 54 |

### Product Dimensions:

| System | Overall Size | Daylight Opening |
|--------|--------------|------------------|
| 1      | 54" x 54"    | 51" x 51"        |

### Glazing Description:

| System | Glazing Type | Configuration     | Glass Construction <sup>1</sup> | Glazing Method <sup>2</sup> |
|--------|--------------|-------------------|---------------------------------|-----------------------------|
| 1      | 8" x 8" x 2" | 7 rows; 7 columns | BLK-1                           | GM-1                        |

Note: <sup>1</sup> See the "Glass Construction Key" for the glazing construction.

<sup>2</sup> See the "Glazing Method Key" for the glazing method description.

**Glass Construction Key:**

BLK-1: Glass blocks. The glass blocks are joined together vertically and horizontally. The blocks are interlocked mechanically with each other and are perimeter captured with silicone.

**Glazing Method Key:**

GM-1: The interior glazed vinyl frame utilizes a perimeter silicone backbedding compound along the exterior and interior. The individual blocks utilize a perimeter silicone backbedding and are joined one to the other along the interior and exterior. Vinyl H-bar is secured to the glass block with silicone.

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

**Product Identification:** A certification program label (AAMA) will be affixed to the window. The certification program label includes the manufacturer's code name (**USB**); product name: **Series: GB 2000/GB 2080**; performance characteristics; the approved inspection agency (AAMA); and the following applicable standards: AAMA/WDMA/CSA 101/I.S.2/A440-05.

### LIMITATIONS

**Design pressures:**

| System | Maximum Width (in.) | Maximum Height (in.) | Design Pressures (psf) |
|--------|---------------------|----------------------|------------------------|
| 1      | 54                  | 54                   | ± 75                   |

**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 Southern Pine dimension wood wall framing members using the nailing fin of the window with minimum No. 10 screws. The fasteners are located approximately 4 inches from each corner and approximately 8 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.