

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION WIN-97

Effective September 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.

Acrylic Block Aluminum 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 acrylic block windows evaluated in this report are aluminum frame fixed windows. The fixed windows evaluated in this report are individual, non-impact resistant windows. This product evaluation report is for acrylic block aluminum frame fixed windows based on the following tested constructions:

General Description:

System	Description	Label Rating
1	Series FL30-8 ; Individual, Fin Frame Fixed Window; (O)	F-HC40 98 x 82
2	Series FL30-8 ; Individual, Fin Frame Fixed Window; (O)	F-HC100 58 x 58
3	Series FL15-8 ; Individual, Fin Frame Fixed Window; (O)	F-HC55 98 x 74
4	Series FL15-8 ; Individual, Fin Frame Fixed Window; (O)	F-HC80 58 x 58
5	Series FL15-6 ; Individual, Fin Frame Fixed Window; (O)	F-HC40 74 x 74
6	Series FL15-6 ; Individual, Fin Frame Fixed Window; (O)	F-HC70 56 x 56
7	Series FL20-9 ; Individual, Fin Frame Fixed Window; (O)	F-C40 101 x 74
8	Series FL20-9 ; Individual, Fin Frame Fixed Window; (O)	F-C60 56 x 56

General Description (continued):

System	Description	Label Rating
9	Series FL300-8; Individual, Flange Frame Fixed Window; (O)	F-HC40 98 x 74
10	Series FL300-8; Individual, Flange Frame Fixed Window; (O)	F-HC70 58 x 58
11	Series FL300-6; Individual, Flange Frame Fixed Window; (O)	F-HC40 74 x 74
12	Series FL300-6; Individual, Flange Frame Fixed Window; (O)	F-HC70 56 x 56

Product Dimensions:

System	Overall Size	Daylight Opening
1	98" x 82"	95" x 79"
2	58" x 58"	55" x 55"
3	98" x 74"	95" x 71"
4	58" x 58"	55" x 55"
5	74" x 74"	71" x 71"
6	56" x 56"	52 ⁷ / ₈ " x 52 ⁷ / ₈ "
7	101" x 74"	97 ¹ / ₂ " x 71"
8	56" x 56"	53" x 53"
9	98" x 74"	95 ¹ / ₈ " x 71"
10	58" x 58"	54 ³ / ₄ " x 54 ³ / ₄ "
11	74" x 74"	71" x 71"
12	56" x 56"	52 ⁷ / ₈ " x 52 ⁷ / ₈ "

Glazing Description:

System	Glazing Type	Configuration	Glazing Construction ¹	Glazing Method ²
1	8" x 8" x 3"	12 rows; 10 columns	BLK-1	GM-1
2	8" x 8" x 3"	7 rows; 7 columns	BLK-1	GM-1
3	8" x 8" x 1 ¹ / ₂ "	12 rows; 9 columns	BLK-1	GM-1
4	8" x 8" x 1 ¹ / ₂ "	7 rows; 7 columns	BLK-1	GM-1
5	6" x 6" x 1 ¹ / ₂ "	12 rows; 12 columns	BLK-1	GM-1
6	6" x 6" x 1 ¹ / ₂ "	9 rows; 9 columns	BLK-1	GM-1
7	9" x 9" x 2"	11 rows; 8 columns	BLK-1	GM-1
8	9" x 9" x 2"	6 rows; 6 columns	BLK-1	GM-1
9	8" x 8" x 1 ¹ / ₂ "	12 rows; 9 columns	BLK-1	GM-1
10	8" x 8" x 1 ¹ / ₂ "	7 rows; 7 columns	BLK-1	GM-1
11	6" x 6" x 1 ¹ / ₂ "	12 rows; 12 columns	BLK-1	GM-1
12	6" x 6" x 1 ¹ / ₂ "	9 rows; 9 columns	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. The blocks are interlocked mechanically with each other and are perimeter captured with vinyl cap-stock.

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 cap-stock is secured to the block with one No. 8 x 1" screw with No. 6 head at each corner.

Frame construction: The frame members are manufactured from extruded 6063-T5 aluminum. The frame corners are coped and butted 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	98	82	± 40
2	58	58	± 100
3	98	74	± 55
4	58	58	± 80
5	74	74	± 40
6	56	56	± 70
7	101	74	± 40
8	56	56	± 60
9	98	74	± 40
10	58	58	± 70
11	74	74	± 40
12	56	56	± 70

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:

Systems 1-8: The window shall be mounted to minimum Southern Yellow 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.

Systems 9-12: The window shall be mounted to minimum Southern Yellow Pine dimension wood wall framing members using the nailing flange of the window with minimum $\frac{1}{4}$ " diameter lag screws. The fasteners are located approximately 6 inches from each corner and approximately 12 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 $1\frac{1}{2}$ 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.