

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
Phone No. (512) 322-2212 Fax No. (512) 463-6693

PRODUCT EVALUATION WIN-1525

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 **October 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.

LightWise® 3" Aluminum Clad Wood Glass Block Windows, Non-impact Resistant, manufactured by and available from:

Pittsburgh Corning Corporation
800 Presque Isle Drive
Pittsburgh, Pennsylvania 15239-2799
Telephone: (800) 545-5001

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 LightWise® 3" aluminum clad wood glass block window is a pre-assembled glass block window that consists of 3" thick Thinline Series blocks within a wood frame and aluminum cladding. The glass block windows evaluated in this report are individual, non-impact resistant windows. This product evaluation report is for aluminum clad wood glass block windows based on the following tested constructions:

General Description:

System	Description	Label Rating
1	LightWise® 3" Aluminum Clad Wood Glass Block Windows; (O)	R-PG60 41 x 80 – FW
2	LightWise® 3" Aluminum Clad Wood Glass Block Windows; (O)	R-PG60 57 x 64 – FW

Product Dimensions:

System	Overall Size	Daylight Opening Size
1	41" x 80"	38" x 77"
2	56 ½" x 64 ⅛"	53 ½" x 61 ⅛"

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1	BLK-1	GM-1
2	BLK-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:

BLK-1: Thinline hollow glass blocks. Each block measures 8" x 8" x 3". The glass blocks are secured to each other with G.E. 1201 silicone sealant on the interior and the exterior of the blocks to form the glazing infill.

Glazing Method Key:

GM-1: The glazing infill is set from the interior against Bondaflex 201 FC silicone sealant and secured with glazing beads.

Frame construction: The frame members are manufactured from wood. The extruded aluminum cladding is mitered and corner key construction. An extruded vinyl nailing fin is applied to the frame perimeter and is sealed with silicone sealant.

Product Identification: A certification program (AAMA) label will be affixed to the window. The certification program label includes the manufacturer's code name (**PC-1**); the name of the product: **Lightwise 3" w/Alum Clad Wood Frame**; performance characteristics; the approved inspection agency (AAMA); and the applicable standard: AAMA/WDMA/CSA 101/I.S.2/A440-08.

LIMITATIONS

Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	41	80	± 60
2	56 ½	64 ⅛	± 60

Impact Resistance: These assemblies do not satisfy the Texas Department of Insurance's criteria for protection from windborne debris. These assemblies will need to be protected with an impact protective system when installed in areas where windborne debris protection 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 glass block window assembly shall be installed in accordance with the manufacturer's installation instructions and this product evaluation report.

Installation: The wall framing shall be minimum Spruce-Pine-Fir dimension lumber. The glass block window is secured to the wall framing using the nailing fin of the window with minimum No. 10 x 2" long wood screws with No. 10 flat washers. The fasteners are located approximately 8 inches from each corner and approximately 8 inches on center along the perimeter of the window frame. In addition, the wood frame is secured to the wall framing with minimum 10d x 3" finish nails located approximately 3 inches from each corner and approximately 8 inches on center along the perimeter of the window frame.

All fasteners shall be long enough to penetrate a minimum of $1\frac{1}{2}$ inches into the wood wall framing members.

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.