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Product Evaluation

WIN63 | 0822

Engineering Services Program

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 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.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: WIN-63

Effective Date: August 1, 2022
Re-evaluation Date: April 2026

Product Name: Glass Block Mortar Systems, Non-impact Resistant and Impact Resistant

Manufacturer: Seves Glass Block, Inc.
10576 Broadview Road
Broadview Heights, OH 44147
(330) 419-0989

General Description:
The glass block window systems evaluated in this report are site-built window assemblies using a traditional mortar installation method. The glass block mortar systems evaluated in this report are individual windows. The THICKSET® 90 and the VISTABRIK® glass block windows are impact resistant. The PREMIER, THICKSET® 60, and ENERGY SAVINGS glass block windows are non-impact resistant. Table 1 includes the glass block windows in this evaluation report:

Table 1: Glass Block Assemblies

Series	Nominal Dimensions	Face Thickness	Impact Resistance
PREMIER	12" x 12" x 4" and all other smaller face sizes	0.187" (0.375" for 12" x 12")	No
THICKSET® 60	8" x 8" x 4" and all other smaller face sizes	0.375"	No
THICKSET® 90	8" x 8" x 4" and all other smaller face sizes	0.750"	Yes

Table 1: Glass Block Assemblies (continued):

Series	Nominal Dimensions	Face Thickness	Impact Resistance
ENERGY SAVINGS	8" x 8" x 4" and all other smaller face sizes	0.187" (With 0.125" glass insert)	No
VISTABRIK®	8" x 8" x 3" and all other smaller face sizes	3" (nominal) thick solid units	Yes

Product Identification: The glass block windows are identified from the carton label. The words PREMIER, THICKSET® 60, THICKSET® 90, ENERGY SAVINGS, or VISTABRIK® will appear on the cartons.

Limitations:

Design Drawings:

Glass block window assemblies must comply and be installed in accordance with the following design drawing:

Drawing No. MORTAR-001; "Glass Block Mortar System, 4" Thick Hollow Glass Block;" Sheets 1 thru 4 of 4; dated March 16, 2012; revision A dated January 11, 2022; signed and sealed by Hermes F. Norero, P.E on February 13, 2022. This evaluation report refers to the stated drawings as the approved drawings.

Fabrication and Assembly: The glass blocks are fabricated in the factory. The glass block assemblies are installed at the jobsite block by block using a traditional mortar system. The glass block assembly must be installed as specified on the approved drawings.

Design pressure (DP):

Series	Maximum Width	Maximum Height	Design Pressure
PREMIER, THICKSET® 60, THICKSET® 90, ENERGY SAVINGS	48"	48"	+120 / -120 psf
PREMIER, THICKSET® 60, THICKSET® 90, ENERGY SAVINGS	72"	96"	+75 / -75 psf
VISTABRIK®	48"	96"	+80 / -80 psf

Impact Resistance:

- The PREMIER, THICKSET® 60, and ENERGY SAVINGS glass block windows have not been tested for windborne debris resistance. These window assemblies will need to be protected with an impact protective system when installed in areas where windborne debris protection is required.
- The THICKSET® 90 and the VISTABRIK® glass block windows have been tested for windborne debris resistance. The assemblies passed a missile impact test equivalent to Missile Level A specified in ASTM E 1996. When installed in areas where windborne debris protection is required, install the assemblies at a height greater than 30 feet above grade as long as the design pressure rating for the assembly is not exceeded. When installed at these heights, the assemblies do not require protection with an impact protective system. These window assemblies will need to be protected with an impact protective system when installed at heights less than 30 feet above grade and in areas where windborne debris protection is required.

Acceptance of Other Assemblies:

- The approved drawings specify the allowable dimensions for the glass block assemblies.
- Assemblies with rectangular dimension smaller than the dimension listed in the approved drawings are acceptable at the design pressure rating listed in the approved drawings.

Installation Instructions:

General: Prepare and install the assembly in accordance with the approved drawings and the manufacturer's installation instructions. Detailed installation instructions are available from the manufacturer.

Installation:

Wall Framing Construction: The glass block assemblies must be secured to the wall framing as specified in the approved drawings.

Fastener Requirements:

- Refer to the approved drawings for the anchor requirements and notes.
- Refer to the approved drawings for the minimum embedment depths for the fasteners and the minimum edge distances (minimum distance fastener must be from the edge of the substrate material) for the fasteners.

Note: Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.