



Residential



Institutional



Commercial

**FIRE RATED**

**GLASS BLOCK**

BY PITTSBURGH CORNING

▶ INTRODUCING THICKSET® 60, OUR NEWEST ADDITION TO THE U.L. FIRE RATED GLASS BLOCK FAMILY. THIS GLASS BLOCK PROVIDES A 60-MINUTE FIRE RATING IN A WINDOW ASSEMBLY WITHOUT SACRIFICING AESTHETICS, DESIGN FLEXIBILITY, LIGHT TRANSMISSION AND PRIVACY.

**NEW!** THICKSET® 60  
U.L. FIRE RATED  
GLASS BLOCK



PREMIERE SERIES



THICKSET® 60



THICKSET® 90



VISTABRIK®

PREMIERE SERIES • THICKSET® 60, 90 • VISTABRIK®

▶ **GLASS BLOCK  
FOR FIRE PROTECTION**

Pittsburgh Corning manufactures Glass Block through a simple, yet exacting process and maintains the highest quality standards to produce a unique building material – virtually a brick made of glass. The special combination of properties increases design flexibility and provides many functional benefits. The material offers transparency, emitting generous amounts of natural or borrowed light while at the same time providing energy efficiency, sound control, security, and visual texture. When patterned, Glass Block offers a unique combination of privacy and light transmission.

An extremely important feature of Glass Block, critical to safe building design, is the products inherent fire-resistance property. By varying the face thickness of the product and conforming to installation specifications, Pittsburgh Corning is able to offer a family of fire rated products approved and rated according to Underwriters Laboratory (U.L.®) Standards. Glass Block are available in 45-, 60- and 90-minute ratings for window assemblies, with the THICKSET® 60 Block being the newest addition to the family. In addition, these products can be specified in different patterns and sizes to meet your design needs.

▶ **Our Family of Fire-Rated Glass Block Products**



**PREMIERE SERIES**

- The Premiere Series includes the largest selection of patterns, sizes and shapes for the utmost in design flexibility.
- All patterns of Premiere Series Glass Block are classified by UL® for use in 45-minute-rated window assemblies.
- Available patterns: ARGUS®, ARGUS® Parallel Flutes, DECORA®, DECORA® LX, ESSEX AA®, IceScapes®, SPYRA® and VUE®.
- Available Sizes: All sizes except 12" x 12" and shapes.
- Nominal face thickness = 0.25"
- Sound Transmission Class (S.T.C.) = 39



**THICKSET® 60**

- The THICKSET® 60 Glass Block is a thicker-faced block that provides all the traditional benefits of glass block plus a 60-minute fire rating.
- THICKSET® 60 Block is classified by UL® for use as 45- or 60-minute-rated window assemblies.
- Available patterns: DECORA®, VUE®
- Available Sizes: 8" x 8" x 4"
- Nominal face thickness = 0.375"
- Sound Transmission Class (S.T.C.) = 48



**THICKSET® 90**

- The THICKSET® 90 Glass Block is a thicker-faced block that provides all the traditional benefits of glass block plus a 90-minute fire rating.
- THICKSET® 90 Block is classified by UL® for use as 45-, 60- or 90-minute-rated window assemblies.
- Available patterns: DECORA®, ENDURA™, and VUE®
- Available Sizes: 6" x 6" x 4" DECORA® and VUE®, 8" x 8" x 4" DECORA®, ENDURA™ and VUE®
- Nominal face thickness = 0.75"
- Sound Transmission Class (S.T.C.) = 50



**VISTABRIK®**

- VISTABRIK® Solid Glass Block is the ultimate glass block solution, 3 solid inches of glass which resists bullets, fire, noise, graffiti, and forcible entry.
- VISTABRIK® Solid Glass Block is classified by UL® for use as 45-, 60- or 90-minute rated window assemblies.
- Available patterns: Clear – for good visibility or Stippled for added privacy.
- VISTABRIK® Solid Glass Block is bullet resistant.
- Available Sizes: 8" x 8" x 3", 3" x 8" x 3"
- Actual face thickness = 3.0"
- Sound Transmission Class (S.T.C.) = 53

### ▶ Functional Benefits of Glass Block

- **Fire Resistant**  
Classified by UL® for use in fire-rated window assemblies.
- **Graffiti Resistant**  
Glass Block resists damage and is easy to clean.
- **Noise Resistant**  
Glass Blocks thick faces provide great sound resistance.
- **Vision Control**  
Glass Blocks provide a range of visibility depending on pattern chosen.
- **Light Transmission**  
Glass Blocks allow varying degrees of light transmission.
- **Design Flexibility**  
The wide variety of styles and patterns and functional benefits allow for endless design options.
- **Security**  
Glass Blocks enhance the security of your building.

### ▶ Application Uses

Fire Rated Glass Block can be used in Residential, Institutional and Commercial buildings.

#### Typical Applications are:

- Multi Unit Housing
- Limited Lot Line Communities
- Corridors
- Stairwells
- Windows
- Other Fire Rated uses.

### ▶ Notes:

*For complete installation details, product information, specifications and more information on how to design with Pittsburgh Corning Glass Block products, see our Architectural Products Brochure (GB-185) or visit our website at [www.pittsburghcorning.com](http://www.pittsburghcorning.com)*

*For U.L.® listing information see [www.ul.com](http://www.ul.com)*

*Pittsburgh Corning Fire Rated products are listed in U.L.® Fire Resistance Directory under R2556 (for Glass Block) and R18572 (for Plastic Spacers).*



## ▶ Physical Properties

Product	Weight/ft <sup>2</sup> Installed With Mortar	Heat Transmission U Value <sup>1</sup> (Btu/hr ft <sup>2</sup> °F)	Thermal Resistance R Value <sup>2</sup> (hr ft <sup>2</sup> °F/Btu)	Visible Light Transmission <sup>2</sup> (%)	Sound Transmission S.T.C. <sup>3</sup>	Impact Strength (in-lbs) <sup>4</sup>
Premiere Series	20 lbs./sq.ft.	0.51	1.96	75	39	50–60
THICKSET® 60	25 lbs./sq.ft.	0.51	1.96	75	48	50–60
THICKSET® 90	30 lbs./sq.ft.	0.51	1.96	75	50	60–80
VISTABRIK®	40 lbs./sq.ft.	0.87	1.15	80	53	>150

<sup>1</sup> Heat Transmission/Thermal Transmission—Winter night values.

<sup>2</sup> Light Transmission—Values±5%, estimated figures based on accumulated data.

<sup>3</sup> Sound Transmission—Values listed are for 8" x 8" x 4" Glass Block.

<sup>4</sup> Impact Strength—Produces surface mar only.

## ▶ Fire Ratings—Glass Block Window Assemblies

Premiere Series Glass Blocks, THICKSET® 60 Blocks, THICKSET® 90 Blocks and VISTABRIK® Solid Glass Block units have been tested and classified by Underwriters Laboratories (UL®) for use in fire-rated window assemblies to panel sizes and dimension limitations as listed.

Product	Masonry Wall Construction					Non-Masonry Wall Construction			
	Panel Limitations		Fire Rating			Panel Limitations		Fire Rating	
	Max. Area/ Panel	Max. Ht. Or Width	45 Min.	60 Min.	90 Min.	Max. Area/ Panel	Max. Ht. Or Width	45 Min.	60 Min.
Premiere Series	120	12	X			94	10.75	X	
THICKSET® 60	100	10	X	X		94	10.75	X	X
THICKSET® 90	100	10	X	X	X*	94	10.75	X	X
VISTABRIK®	100	10	X	X	X*	94	10.75	X	X

\*1/4" steel channel, 3/4" thick expansion material at head and jambs, and fire retardant sealant are required.

## ▶ Pittsburgh Corning Project Design Assistance

### Unmatched Service.

When specifying Pittsburgh Corning Glass Block, you receive a level of technical support and guidance unavailable from any other glass block producer.

### Pittsburgh Corning Representative & Distributor Assistance.

Services are available through your local Pittsburgh Corning Representative and Distributor. They will arrange for drawing review and technical guidance, full sample selection, professional installation, on-site assistance, and provide technical support after the job is completed, if needed.

### Technical Service Department.

Our Technical Service Department, located in Pittsburgh, is available for technical advice, project design assistance, and plan review. Please call the Pittsburgh Corning Glass Block Resource Center, 1-800-624-2120.

### Pittsburgh Corning Glass Block Resource Center.

From your first inquiry, information is readily available to you, toll-free from anywhere in the continental United States and Canada. Our Resource Center, 1-800-624-2120, is your initial channel for literature requests and answers to technical questions.

The information contained herein is accurate and reliable to the best of our knowledge. But, because Pittsburgh Corning Corporation has no control over installation workmanship, accessory materials, or conditions of application, NO EXPRESS OR IMPLIED WARRANTY OF AN KIND, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IS MADE as to the performance of an installation containing Pittsburgh Corning products. In no event shall Pittsburgh Corning be liable for any damages arising because of product failure, whether incidental, special, consequential or punitive, regardless of the theory of liability upon which any such damages are claimed. Pittsburgh Corning Corporation provides written warranties for many of its products, and such warranties take precedence over the statements contained herein.

## Pittsburgh Corning Glass Block

[www.pittsburghcorning.com](http://www.pittsburghcorning.com),

features application photos, product information, specifications, installation details, literature, continuing education, case histories, and much more information on how to design with Pittsburgh Corning Glass Block products.

**Pittsburgh Corning  
Glass Block Resource Center:**

**1-800-624-2120**

U.S./Canada, Call Anytime



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