

## Benefits of:

# VISTABRIK® Solid Glass Block

### Bullet Resistant

VISTABRIK® solid glass block resists penetration from high-impact ballistics including 9mm, 30.06, and .357 magnum bullets. They are UL® tested and approved for Level 1, 2, and 6.

### Fire Resistant

VISTABRIK® solid glass blocks in masonry structures provide fire resistance and are UL® classified as 45-, 60- and 90 minute fire rated in window assemblies of up to 100 square feet.

### Graffiti Resistant

Low-maintenance VISTABRIK® solid glass blocks resist damage from harsh chemicals and cleaning compounds; the hard glass surface provides a "non-stick" surface for paint and aids in the quick removal of graffiti.

### Noise Resistant

Three inches of solid glass in VISTABRIK® blocks create a dense barrier to sounds of trains, traffic, crowds, sirens, and machinery with a 53 STC level.

### The Pittsburgh Corning Promise

The comprehensive variety of patterns, styles, and sizes available have been designed to work together in your project as a total system. Pittsburgh Corning stands behind all its glass block units when used exclusively with Pittsburgh Corning accessory products by offering a limited five-year warranty. ISO 9002 Certification assures that Pittsburgh Corning is committed to quality innovation.

### Clear Visibility

VISTABRIK® solid glass blocks clearly provide good visibility following ADA guidelines for enclosed areas, and transmit 80% of available light in both directions without any yellowing, clouding or weathering, and are scratch resistant.

### Impact Resistant

VISTABRIK® solid glass blocks are difficult to break compared to conventional glass, and easily resist thrown objects, forcible entry, and attempts at vandalism. These blocks offer proven protection against vandalism without providing an obvious challenge for destructive activities or accidental breakage.

### Weather Resistant

VISTABRIK® solid glass block panels are impervious to natural weather-related elements, resisting water penetration from rain or snow, breakage from flying objects in high winds, and earthquake tremors when correctly installed according to Pittsburgh Corning's specification guidelines.

### Cost Effective

Outstanding durability, quality, minimal maintenance and economical long-term life cycle costs with VISTABRIK® solid glass block panels are a proven fact. If necessary, any broken block within the visual opening can be quickly and easily replaced at a lower cost compared to replacing the total area for other glazing materials.



Made in AMERICA

## 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.

### 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. Call our Resource Center at 1-800-624-2120 or go to our website at [www.pittsburghcorning.com](http://www.pittsburghcorning.com).

### Five-Year Limited Warranty

Pittsburgh Corning Corporation ("PC"), promises to replace any glass blocks that are found to be defective within five years from the date of purchase. We will not replace blocks damaged as a result of faulty installation. Upon discovery of any defect, you should send written notice to Pittsburgh Corning Corporation, 800 Presque Isle Drive, Pittsburgh, PA 15239 attention: Pittsburgh Corning Glass Block Customer Service Department, or telephone 724/327-6100. A proof of purchase and a sample or photograph of the block(s) in question will be required. PC will review your claim and replace any block(s) found to be defective.

Your sole remedy in replacement of defective blocks, excluding labor, and PC will not be liable for any incidental or consequential damages relating to your purchase or use of Pittsburgh Corning Glass Block. All implied warranties are also limited to a duration of five years from the date of your purchase of Pittsburgh Corning Glass Block products. Some states do not allow the exclusion or limitation of incidental or consequential damages, or the limitation on how long an implied warranty lasts, so the above limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state. 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 ANY 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.



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### Physical Properties

VISTABRIK® Solid Glass Block	Size¹ Nominal/Actual (mm)	Weight (lbs/kg)	Heat Trans- mission U Value² (Btu/hr ft² °F)	Thermal Resis- tance R Value² (hr ft² °F/Btu)	Thermal Expans- ion Coef. (°F)	Visible Light Trans- mission³ S.T.C. (%)	Sound Trans- mission (in-lbs)⁴	Impact Strength (psi)	Com- pressive Strength (psi)
VUE® Pattern	8" x 8" x 3 7/8", 3" (194mm, 76mm)	15/6.80	0.87	1.15	47 x 10 <sup>-7</sup>	80	53	Exceeds 150	80,000
	8" x 3" x 3 7/8", 3" (194 x 76mm, 76mm)	6/2.72	0.87	1.15	47 X 10 <sup>-7</sup>	80	53	Exceeds 150	80,000
	8" x 8" x 1 1/2", 7 5/8", 1 1/2" (194, 38mm)	7.5/3.40	0.87	1.15	47 X 10 <sup>-7</sup>	80	53	Exceeds 150	80,000
Stipple Finish	8" x 8" x 3 7/8", 3" (194mm, 76mm)	15/6.80	0.87	1.15	47 x 10 <sup>-7</sup>	80	53	Exceeds 150	80,000

### FOOTNOTES:

¹Size—Blocks are manufactured to a ± 1/16" (2mm) tolerance. ²Heat Transmission/Thermal Transmission—Winter night values. To calculate instantaneous heat gain through glass panels, ASHRE HANDBOOK OF FUNDAMENTALS, 1985—section 22.41B. ³Light Transmission—Values ±5%, estimated figures based on accumulated data. ⁴Impact Strength—Produces surface mar only.

### Fire Ratings—Glass Block Window Assemblies

VISTABRIK® solid glass blocks have been tested and classified by Underwriters Laboratories® (UL®) for use as fire-rated window assemblies to panel sizes and dimension limitations as listed.

Masonry Wall <sup>1,2</sup> Construction 45-60-90 Min.		Non-Masonry Wall <sup>1</sup> Construction 45-60 Min.	
Max. Area/ Panel	Max. Ht. or Width	Max. Area/ Panel	Max. Ht. or Width
100 sq. ft.	10 ft.	94 sq. ft.	10.75 ft.

### FOOTNOTES:

¹ Panel Anchor Framing Construction permitted for 45-60 minute rated glass block window/panels only.  
² Channel Framing Construction permitted for all 45-60-90 minute rated glass block window/panels.

### Channel Framing Specific Assembly Requirements

—Use either polyethylene, fibrous glass or mineral wool expansion material at heads and jams. Use fire retardant type sealant.

Refer to the latest issue of UL® Canada and UL® Building Materials Directory as well as your local building codes.

### Building Code, UL® and National Standards References:

- The BOCA National Building Code (N.B.C.)
- The Standard Building Code (SBC)
- The Uniform Building Code (U.B.C.)
- Canadian Standards Association (CSA) A371-94 "Masonry Construction for Buildings"
- ISO 9002 Certification: The final inspection and testing of Glass block products by Pittsburgh Corning
- New York City Board of Standards and Appeals Calendar #820-38-SM
- New York City Materials and Equipment Acceptances MEA 406-90-M, VOL. II
- ACI 530/ASCE 5/TMS 402 "Building Code Requirements for Masonry Structures"
- Los Angeles Research Report RR-24486
- San Francisco General Approval 177P59.1
- Eugene, Oregon, "Approved Glass Products, Storm Windows and Insulated Window Units"

### Fire Ratings:

- Underwriters Laboratory® Classification: R2556
- Underwriters Laboratories® of Canada File: CR1715
- In accordance with NFPA 80, Chapter 14

Pittsburgh Corning  
Glass Block Resource Center:  
1-800-624-2120

U.S./Canada, Call Anytime

**PITTSBURGH  
CORNING**  
GLASS BLOCK®  
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**PITTSBURGH  
CORNING**  
GLASS BLOCK®

Premiere Series  
**VISTABRIK®**  
Solid Glass Block

## ARCHITECTURAL PRODUCTS



**SECURE VISION**  
High Performance Products

Quality made in the U.S.A.



## VISTABRIK® Solid Glass Block: It Can Take the Punishment

A *Premiere Series* product, VISTABRIK® solid glass blocks form durable, transparent masonry panels and are designed for both interior and exterior use. Built to resist penetration from high-impact ballistics and tested in a variety of applications, VISTABRIK® solid glass blocks have become a permanent fixture in transit, educational, public buildings, correctional facilities, courthouses, embassies and police stations all around the country. They are widely used in transportation terminals, public spaces, institutional environments, and commercial settings. Their low distortion transparency allows clear observation

through glass block partitions into areas where visual supervision or awareness is a must. Their durability, low-maintenance, and if necessary, low replacement costs, and high level of fire resistance bring important advantages to facilities which are subject to sudden impact, heavy traffic, and vandalism. The formidable 3-inch solid thickness of VISTABRIK® glass blocks easily withstands most forms of abuse without breakage. With an **80% light transmittance**, it can increase the amount of natural daylighting and create a much more appealing indoor environment. VISTABRIK® solid glass block is a unique

product with tremendous versatility as a building material that affords design possibilities limited only by the architect's imagination and vision. Clear visibility, durable, impact, vandal, and bullet resistant, low maintenance, and aesthetically attractive—that's the VISTABRIK® solid glass block story.

No other building material offers the beauty, strength and vandal resistance of VISTABRIK® solid glass block. Impact resistant. Bullet resistant. Graffiti and noise resistant. VISTABRIK® solid glass block is a powerful tool in achieving the natural lighting and security needs of our public buildings.

Perry High School | Pittsburgh, PA



*"Students can be rough on a high school. So, when we built our gymnasium complex next to the existing building and connected the two with an elevated walkway, we used VISTABRIK® solid glass block. The clear glass block lets in natural light eliminating a dark tunnel effect that might have been created with standard walls. And it can take all the abuse the kids give it."*

— Pat Aluise, Principal | Perry High School | Pittsburgh, PA

Addison Public Library | Cleveland, OH

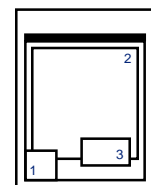


Lloyd Hall | Philadelphia, PA



### ON THE COVER:

1. VISTABRIK® Solid Glass Block
2. & 3. Clifford J. Lawrence Junior High School, Las Vegas, NV



SEPTA Transit Station | Philadelphia, PA



*"Unfortunately, as with most public property, public transit areas are viewed by some to be free game for destruction and vandalism. As a result, in most SEPTA applications, we have strong requirements for light, solidity and security. The VISTABRIK® solid glass blocks are secure, practically indestructible, look nice and remain looking nice for a long time — with little maintenance. It's a heck of a material."*

— Pierre Ravacon, Senior Project Engineer | SEPTA | Philadelphia, PA

## Reinforcing the Transportation System

Keep passengers safely on the move. Commuter rail operators, bus, and airport personnel all over America have discovered just how tough and versatile clear VISTABRIK® solid glass block can really be. The product withstands repeated

impact from people, parcels, carts, and vehicles, and meets ADA guidelines for providing good visibility as well. Solid glass block walls, wind-screens, and elevator shafts allow passengers to monitor their surroundings while waiting for transit vehicles with less risk

of personal attack or exposure to harsh weather. Enhanced separation of boarding areas, improved visibility for disabled passengers, and increased security for system personnel are benefits enjoyed by transportation industry users.



Massachusetts Bay Transit Authority | Boston, MA

## Protecting Public, Institutional and Commercial Structures

Let the public in, but resist their wear and tear. Strong, versatile VISTABRIK® solid glass block from Pittsburgh Corning has a proven history of success when used in schools, government buildings, recreational centers, public housing complexes and retail malls, as well as other high-traffic public areas. Exterior walls and

interior panels transmit 80% of the available light to create a natural daylight effect, or carry artificial lighting from one area to another maximizing the facility's openness. At night, those same walls transmit artificial lighting to cast a warm glow to exterior walkways, eliminating hiding places. VISTABRIK® solid

glass block panels lend themselves to a wide range of functional and decorative building features. Glass block walls, partitions and entryways, enclosed stairs and elevators as well as windows and clerestories in public settings help to define space, illuminate activities, and protect occupants.



West Parking Garage Helix at Logan Airport | Boston, MA

## Strengthening Law Enforcement Facilities

Where visual supervision is a must. VISTABRIK® solid glass blocks are used to form clear barriers in prisons, detention facilities, and police stations throughout North America. Their clarity provides authorities with good

visibility in supervised areas, while their solid properties offer resistance to breakage and provide protection. VISTABRIK® solid glass blocks also provide a sense of openness and natural light which help to

normalized the environment of high-security institutions.



Clay County Detention Center Liberty, MO



Miami Elevated Rapid Transit System | Miami, FL

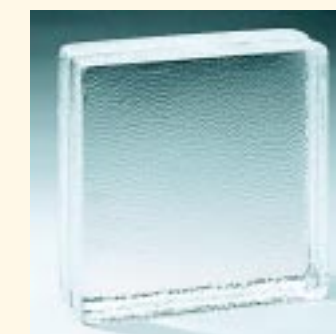
*"At the Westchester County Jail, a degree of security was needed for emergency stairwells. Since inmates are always accompanied in these areas by jail personnel, the need for bars and such was not there, but we also couldn't use a material that a person could jump through. We decided to enclose the stairwells with VISTABRIK® solid glass blocks for that reason. Because the stairwells are lit 24 hours a day, the glass block provides a rich, aesthetic appeal from the outside. It also allows the light to reach the outside, providing lighting for the surrounding grounds and eliminated the need for strong outdoor sport lights."*

— John Grosfeld, President  
The Grosfeld Partnership  
Westchester County | Valhalla, NY

## VISTABRIK® Solid Glass Block Products



VISTABRIK® Solid Glass Block in 8" x 8" x 3" — good visibility



VISTABRIK® Solid Glass Block, Stipple Finish — adds privacy



VISTABRIK® Solid Glass Block in 8" x 3" x 3" — good visibility



VISTABRIK® Solid Glass 45°/90° Corner Block — slight radius for corners or angles

## Hope's Steel Grid System and Jailbrick

Pittsburgh Corning Solid Jailbrick Glass Unit  
(Nominal) Dimension 5" x 10" x 2 3/8"  
(Actual) Dimension 4 7/8" x 9 13/16" x 2 7/8"  
(124mm x 249mm x 59mm)

### Engineered to Solve Demanding Security Needs

Hope's Series S40 Steel Detention Window System, which incorporates 2 3/8" thick solid glass units (Jailbrick) manufactured by Pittsburgh Corning, has been successfully used in several public and correctional facilities.

- The system provides:
- Strength and Durability of Steel
  - Welded Corners and Muntin Intersections
  - Narrow Sightlines
  - Enhanced Security with Vision and Light Transmission
  - Resistance to Forced Entry/Exit



Westchester County Jail | Valhalla, NY

