Premiere Series Glass Block Products

Pattern	Nominal Size ¹ (mm) (Actual size is ¹ /4 ⁴ less than nominal)	Weight/ft² installed with mortar	Heat Trans- mission ² U Value (Btu/hr ft ² °F)	Thermal Resis- tance ² R Value (hr ft ² °F/Btu)	Visible Light Trans- mission ³ (%)	Shading Coef. ^s	Sound Trans- mission S.T.C.	Impact Strength (in-Ibs)	
	Standard Pre	<i>miere Series</i> Bloc	ck — Nominal Thi	ckness = 4"; Actı	ual Thickness = 3	3 ⁷ /8" (98mm)			
ARGUS®	6" x 6" (146mm)	20 lb/ft ²	0.51	1.96	75	0.65	37	50-60	
	8" x 8" (197mm)	20 lb/ft ²	0.51	1.96	75	0.65	39	50-60	
	12" x 12" (299mm)	20 lb/ft ²	0.51	1.96	75	0.65	35	50-60	
ARGUS [®] Parallel Fluted	8" x 8" (197mm)	20 lb/ft ²	0.51	1.96	75	0.65	39	50-60	
DECORA®	6" x 6" (146mm)	20 lb/ft ²	0.51	1.96	75	0.65	37	50-60	
	8" x 8" (197mm)	20 lb/ft ²	0.51	1.96	75	0.65	39	50-60	
	12" x 12" (299mm)	20 lb/ft ²	0.51	1.96	75	0.65	35	50-60	
-	4" x 8" (95 x 197mm)	20 lb/ft ²	0.51	1.96	75	0.65		50-60	
	6" x 8" (146 x 197mm)	20 lb/ft ²	0.51	1.96	75	0.65		50-60	
ESSEX® AA	8" x 8" (197mm)	20 lb/ft ²	0.51	1.96	50 ⁴	0.454	39	50-60	
IceScapes®	8" x 8" (197mm)	20 lb/ft ²	0.51	1.96	75	0.65	39	50-60	
	4" x 8" (95 x 197mm)	20 lb/ft ²	0.51	1.96	75	0.65		50-60	
	6" x 8" (146 x 197mm)	20 lb/ft ²	0.51	1.96	75	0.65		50-60	
SPYRA®	8" x 8" (197mm)	20 lb/ft ²	0.51	1.96	75	0.65	39	50-60	
VUE®	6" x 6" (146mm)	20 lb/ft ²	0.51	1.96	75	0.65	37	50-60	
-	8" x 8" (197mm)	20 lb/ft ²	0.51	1.96	75	0.65	39	50-60	
-	12" x 12" (299mm)	20 lb/ft ²	0.51	1.96	75	0.65	35	50-60	
	4" x 8" (95 x 197mm) 6" x 8"	20 lb/ft ²	0.51	1.96	75	0.65		50-60	
	(146 x 197mm)	20 lb/ft ²	0.51	1.96	75	0.65		50-60	
	6" x 6" (146mm)	20 lb/ft ²	0.48	2.06	50-55 ⁴	.45504		50-60	 L
"LX" Filter	8" x 8" (197mm)	20 lb/ft ²	0.48	2.06	50-55 ⁴	.45504	40	50-60	
	12" x 12" (299mm)	20 lb/ft ²	0.48	2.06	50-55 ⁴	.45504		50-60	
	THICK	KSET® Block — N	lominal Thickness	= 4"; Actual Thio	ckness = 3 ⁷ /8" (9	8mm)			
THICKSET® 60 Block — DECORA® & VUE®	8" x 8" (197mm)	25 lb/ft ²	0.51	1.96	754	.65	48	50-60	
THICKSET® 90 Block — DECORA®	6" x 6" (146mm)	30 lb/ft ²	0.51	1.96	75 ⁴	.65	50	60-80	
THICKSET® 90 Block — DECORA® & VUE®	8" x 8" (197mm)	30 lb/ft ²	0.51	1.96	754	.65	50	60-80	
THICKSET [®] 90 Block — ENDURA™	8" x 8" (197mm)	30 lb/ft ²	0.51	1.96	754	.65	50	60-80	
	VI	STABRIK [®] Solid G	lass Block — See	Nominal/Actual	Sizes Listed				
VISTABRIK [®] Solid Glass Block	8" x 8" x 3" Nominal 7 ⁵ /s" x 7 ⁵ /s" x 3" Actual (197mm x 197mm x 76mm)	40 lb/ft ²	0.87	1.15	80		53	Exceeds ⁷ 150	
	3" x 8" x 3" Nominal 3" x 7 ⁵ / ₈ " x 3" Actual (76mm x 197mm x 76mm)	40 lb/ft ²	0.87	1.15	80			Exceeds ⁷ 150	
	8" x 8" x 1 ¹ / ₂ " Nominal 7 ⁵ / ₈ " x 7 ⁵ / ₈ " x 1 ¹ / ₂ " Actual (197mm x 197mm x 38mm)	40 lb/ft ²	0.87	1.15	80			Exceeds ⁷ 150	
STIPPLE Finish	8" x 8" x 3" Nominal 7 ⁵ / ₈ " x 7 ⁵ / ₈ " x 3" Actual (197mm x 197mm x 76mm)	40 lb/ft ²	0.87	1.15	80		53	Exceeds ⁷ 150	
1/8" FLAT SHEET	GLASS COMPARISON		1.04	0.96	90	1.00	28		1

Fire Ratings

	ry Wall ruction	Non-Maso Constru	Channel Framing/	
Max Area /Panel (ft ²)	Max Ht or Width (ft)	Max Area /Panel (ft ²)	Max Ht or Width (ft)	Panel Anchor Framing
120	12	94	10.75	
120	12	94	10.75	
120	12	94	10.75	-
120	12	94	10.75	
120	12	94	10.75	
 120	12	94	10.75	
120	12	94	10.75	
120	12	94	10.75	
120	12	94	10.75	
120	12	94	10.75	
120	12	94	10.75	
120	12	94	10.75	
 120	12	94	10.75	
120	12	94	10.75	
120	12	94	10.75	
120	12	94	10.75	
120	12	94	10.75	
120	12	94	10.75	
 ■ 100 ▲ 100 ● 0 	■ 10 ▲ 10 ● 0	■ 94 ▲ 94 ● 0	 ■ 10.75 ▲ 10.75 ● 0 	■
100	10	■ 94 ▲ 94 ● 0	 ■ 10.75 ▲ 10.75 ● 0 	■ ▲ ● ⁸
100	10	■ 94 ▲ 94 ● 0	 ■ 10.75 ▲ 10.75 ● 0 	■ ▲ ● ⁸
100	10	■ 94 ▲ 94 ● 0	 ■ 10.75 ▲ 10.75 ● 0 	■ ▲ ● ⁸
100	10	■ 94 ▲ 94	■ 10.75 ▲ 10.75	
		• 0	• 0	●8
100	10	■ 94 ▲ 94 ● 0	 ■ 10.75 ▲ 10.75 ● 0 	■ ▲ ● ⁸
100	10	94 ■	10.75	■ ▲ ● ⁸
 ■ 45 Min ▲ 60 Min ● 90 Min 		C		s on Page 9 n next page

Fire Resistance

All sizes (exceptions listed below) of the Premiere Series and Thinline[™] Series glass block in panels up to 120 sq. ft. in masonry walls or 94 sq. ft. in nonmasonry walls are classified by Underwriters Laboratories® for use as 45-minute-rated window assemblies. The Uniform Building Code (U.B.C) limits the area of 45-minute-rated window assemblies to 84 sq. ft. with no dimension exceeding 12 feet. These panels are usually acceptable as window assemblies for use in fire separation walls that are rated one hour or less.

THICKSET® 60 Block is listed for use as 45- or 60-minute fire rated window assemblies in panels up to 100 sq. ft. THICKSET® 90 Block and VISTABRIK® Solid Glass Block are all listed for use as 45-, 60- or 90-minute fire rated window assemblies in panels up to 100 sq. ft.

Refer to the latest issue of UL® Fire Resistance - Volume 3 Directory as well as your local building codes.

- Underwriters Laboratories[®] Classification: R2556 (For Glass Block)
- Underwriters Laboratories[®] of Canada File CR1715 (For Glass Block)
- U.L. Classification: R18572 (For Plastic Spacers)
- In accordance with NFPA 80, Chapter 14

Fire Rated Glass Block Window Assemblies

Pittsburgh Corning Glass Block listed above have been tested and classified by Underwriters Laboratories® (UL®) for use as fire-rated window assemblies to panel sizes and dimension limitations listed below:

Where permitted by Building Codes, glass block fire-rated window assemblies having a fire resistance rating of not less than 45 minutes, may be used as "opening protectives" and to not exceed 25% of the wall areas separating a tenancy from a corridor or a corridor from an enclosed vertical opening or one fire-rated area from another fire-rated area. Exception: Although glass block masonry have been tested as window assemblies (not wall assemblies), they may be used as a one hour fire partition as required for corridors in the enclosure of atriums only when sprinkler protection is provided on occupied sides.

45- and 60- Minute Rated Construction: All 45- and 60- minute rated Pittsburgh Corning Glass Block may be used in both masonry and non-masonry (steel or wood stud gypsum board) walls. These rated glass block windows may be framed and anchored with either PC® Panel Anchor construction or channel-type restraints. The use of a fire retardant type sealant for head and jamb locations is required. Specifications and construction details of such panels are as per Pittsburgh Corning Corporation recommendations.

Non-masonry, fire-rated steel stud/ gypsum board walls must conform to UL® listed wall assembly #U465. Framing and support of the rated glass block window assembly shall be provided with double-studding at the jamb locations with height of supporting wall limited to no more than 3 feet.

90-Minute Rated Construction: Where permitted by building codes, all 90minute rated Pittsburgh Corning Glass Block may be used in masonry walls only; framed and anchored with 1/4" thick steel (not aluminum) channel-type restraints or masonry chases. The use of panel anchor construction is not permitted. Specifications and construction details of such panels are as per Pittsburgh Corning Corporation recommendations.

Exception: In 90- minute rated glass block window assemblies, twice the thickness (3/4 in. total) of expansion material is required at head and jamb locations, as well as the use of a fire retardant type sealant.

45-Minute Rated Curved Construction: The glass blocks noted under 90- minute "rating" and those 8" x 8" x 4" sized glass block noted under 45- minute rating" are classified for use in masonry walls as curved window assemblies provided that the radius of the assembly is at least twice the opening width (i.e. chord length).

Pittsburgh Corning Glass Block that are not fire-rated:

- All 12" x 12" Sizes
- All DELPHI[®] pattern block
 All HEDRON[®] Corner Block, TRIDRON 45° Block[®] units, EndBlock[™] ENCURVE® and ARQUE® finishing units

All paver units

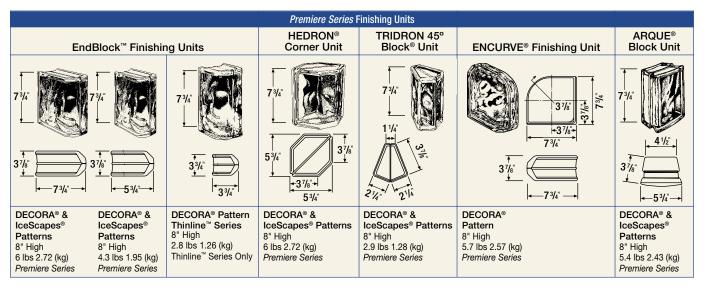
Refer to the latest issue of UL[®] Canada and UL[®] Fire Resistance – (VL) Volume 3 Directory as well as your local building codes and officials.

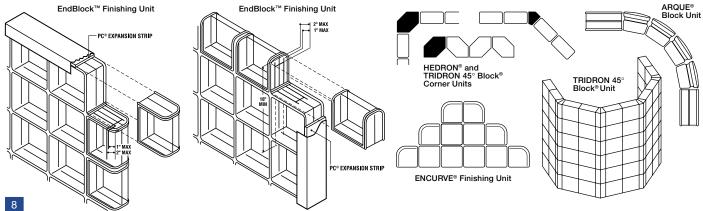
City Code Approvals:

- New York City Materials and Equipment Acceptance MEA 406-90-M. Vol. II
- Los Ángeles Research Report RR-24486
- San Francisco General Approval 177P59.1
- Eugene, OR, "Approved Glass Products, Storm Windows, and Insulated Window Units'
- Dade County Acceptance
- Texas Dept. of Insurance WIN #'s 62, 63, and 64
- **Building Code and National** Standards References:
- The BOCA National Building Code (N.B.C.)
- The Standard Building Code (SBCCI)
- The Uniform Building Code (U.B.C.)
- International Building Code (IBC)
- Canadian Standards Association (CSA) A371-94 "Masonry Construction for Buildings'
- Canadian Standards Association (CSA) S304.1-94 "Masonry Design for Buildings'
- ACI 530/ASCE 5/TMS 402 "Building Code Requirements for Masonry Structures'
- ISO 9002 Certification: Manufacture test and distribution of Pittsburgh Corning Glass Block products.

Pittsburgh Corning Glass Block Products Continued

Pattern	Nominal Size ¹ (mm) (Actual size is ¹ /4" less than nominal)	Weight/ft² installed with mortar	Heat Trans- mission ² U Value (Btu/hr ft ² °F)	Thermal Resis- tance ² R Value (hr ft ² °F/Btu)	Visible Light Trans- mission ³ (%)	Shading Coef. ⁵	Sound Trans- mission S.T.C.	Impact Strength (in-Ibs)	
	Thinline	[™] Series Block —	Nominal Thickne	ss = 3"; Actual T	hickness = 3 ¹ /8"	(79mm)			
DECORA®	6" x 6" (146mm)	16 lb/ft ²	0.57	1.75	75	0.65		40-50	
	8" x 8" (197mm)	16 lb/ft ²	0.57	1.75	75	0.65	316	40-50	
	4" x 8" (95 x 197mm)	16 lb/ft ²	0.57	1.75	75	0.65		40-50	
	6" x 8" (146 X 197mm)	16 lb/ft ²	0.57	1.75	75	0.65		40-50	
IceScapes [®]	6" x 6" (146mm)	16 lb/ft ²	0.57	1.75	75	0.65		40-50	
	6" x 8" (146 X 197mm)	16 lb/ft ²	0.57	1.75	75	0.65		40-50	
	8" x 8" (197mm)	16 lb/ft ²	0.57	1.75	75	0.65	316	40-50	
DELPHI®	6" x 6" (146mm)	16 lb/ft ²	0.57	1.75	75	0.65		40-50	
	8" x 8" (197mm)	16 lb/ft ²	0.57	1.75	75	0.65	31 ⁶	40-50	
	4" x 8" (95 x 197mm)	16 lb/ft ²	0.57	1.75	75	0.65		40-50	
	6" x 8" (146 X 197mm)	16 lb/ft ²	0.57	1.75	75	0.65		40-50	
1/8" FLAT SHEET GLASS COMPARISON			1.04	0.96	90	1.00	28		





Fire Ratings Continued

Pittsburgh Corning
Glass Block Accessories

Mason Constr	ry Wall uction	Non-Mas Constr	Channel Framing/		
Max Area /Panel (ft²)	Max Ht or Width (ft)	Max Area /Panel (ft²)	Max Ht or Width (ft)	Panel Anchor Framing	
120	12	94	10.75	•	
120	12	94	10.75		
120	12	94	10.75		
120	12	94	10.75		
120	12	94	10.75		
120	12	94	10.75		

Footnotes for Charts on Pages 6-9

¹Size—Block are manufactured to a \pm ¹/₁₆" (2mm) tolerance.

²Heat Transmission/Thermal Transmission—Winter night values.

To calculate instantaneous heat gain through glass panels, see ASHRAE HANDBOOK OF FUNDAMENTALS, 1997, Section 29.26. ³Light Transmission—Values ±5%

⁴Light Transmission/Shading Coefficient—Estimated figures based on accumulated data.

⁵Shading Coefficient—Based on 8"-sq. units; ratio of heat gain through glass block panels vs. that through a single light of doublestrength sheet glass under specific conditions.

⁶Sound Transmission—Assembly construction with KWiK'N EZ[®] Silicone System.

⁷Impact Strength—Produces surface mar only.

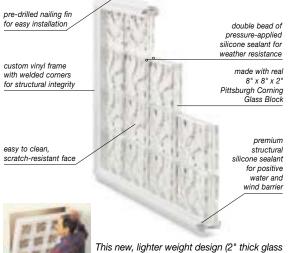
⁸Channel/Panel Anchor Framing—Panel anchor framing construction is not permitted in window assemblies for 90- minute fire ratings.

Pittsburgh Corning Glass Block Product Specifications

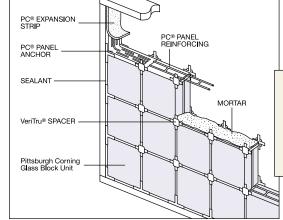
A Pittsburgh Corning Architectural Binder is available through your local territory representative. Pittsburgh Corning Glass Block product specifications data is also stored electronically on CD-ROM and is available through SweetSource directly or via our website www.pittsburghcorning.com.

'ise PITTSBURGH CORNING WINDOWSBY

gives you the beauty and durability of real glass block with less installation hassle.



Panel Construction Using VeriTru[®] Spacers



PC® Panel Reinforcing, Panel Anchors & Expansion Strips



PC® Panel Reinforcing (top)-used in panels over 25 sq. ft. in area-is embedded horizontally in the mortar joints between every other course. Panel Reinforcing is formed of two, parallel wires, either 1⁵/s" on-center (for use with Thinline™ Series Glass Block or VISTABRIK[®] Units) or 2" oncenter (for use with Premiere Series Glass Block), with butt-welded crosswires at regular intervals; 4' and 10' lengths are available.

PC® Panel Anchors (middle) are used to tie Pittsburgh Corning Glass Block panels into the surrounding framework when channels are not used. Formed from 20 gauge perforated-thengalvanized steel strips, panel anchors are available in 13/4" widths x 24" lengths.

PC® Expansion Strips (bottom), made of white polyethylene, are inserted at the head and jambs. The strips replace mortar at these points to cushion the glass block and allow the panel to expand and contract freely. For metal channel or masonry chase construction, PC® Expansion Strips are available 3/8" thick x 4" wide x 24' long. For panel anchor construction, standard 4" wide strips are easily cut to 3" width, for 37/8" Premiere Series block; and to 21/4" width, for 31/81 Thinline[™] Series Block.

The New KWiK'N EZ® Rigid

VeriTru[®]

Spacer

The one-piece, all plastic VeriTru[®] Spacer speeds

construction, assures uniform placement and

helps keep panel flush.

Can now be used in fire-rated panels.

Special spacers are available for the VISTABRIK® and ARQUE® Block

Track Silicone System



The new KWiK'N EZ[®] Rigid Track spacer design allows you to easily install glass block in many areas of your home. Precision cut vertical spacers combine with the horizontal spacers to make installing your Pittsburgh Corning Glass Block panel quicker and easier than ever before. The components of the KWiK'N EZ[®] Rigid Track Silicone System include the following:

- 36" Horizontal Rigid Track Spacers
- 73/4" Vertical Rigid Track Spacers • 48" Perimeter Channel
- Pittsburgh Corning Glass Block Sealant

The KWiK'N EZ® Rigid Track Silicone System Kit includes the following:

- 3 36" Pieces Rigid Track
- Horizontal Space
- 12 73/4" Pieces Rigid Track Vertical Spacer
- 1 tube Pittsburgh Corning Glass Block Sealant
- 1 Striking Tool
- 1 Installation Instructions

Additional component items are sold in bulk to supplement the KWiK'N EZ® Rigid Track Silicone System Kit.

Other Accessories

Additional materials—such as premixed mortar, channels or framing, packing, sealants and asphalt emulsion are available from other manufacturers.



block), means LightWise® Windows are even easier to install: just place in the opening and fasten along the built-in nailing fins.