Pittsburgh Corning Corporation has been manufacturing Pittsburgh Corning Glass Block products since 1937 and today is the only domestic manufacturer in North America. The company recognizes its responsibility to provide a variety of products and to furnish accurate descriptive and technical information which will help the design professional select and specify Pittsburgh Corning Glass Block products.

The comprehensive variety of patterns, styles and sizes available have been designed to work together in your projects as a total system. Pittsburgh Corning stands behind all its glass block when used exclusively with Pittsburgh Corning accessory products by offering a limited five-year warranty.

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

“We selected the glass block to create a visually stunning separation between the research and clinical pavilions. It enabled the transmission of natural daylight into the labs and treatment areas while still maintaining the appropriate degree of privacy. The use of glass block greatly contributed to the Hillman Cancer Center’s artful expression of both the functional and emotional needs of the clinical pavilion dedicated to healing, and the opportunity for interaction and flexibility of a research pavilion dedicated to finding a cure.” ~ Mihai Marcu, AIA, President, IKM Inc.

CIRCLE OF DESIGN EXCELLENCE AWARD WINNER
Sponsored by Pittsburgh Corning, this program recognizes those designs where glass block forms a prominent architectural feature of a building, either interior or exterior.

Hillman Cancer Center, Pittsburgh, PA // Architect: IKM Inc.

“This building is going to be used for everything from black tie parties to basketball games. So every inch of this place has to endure years of hard wear – and look great doing it. VISTABRIK® Glass Block has the perfect balance of durability, security and sheer beauty to make this place special.” ~ Lisa Armstrong, AIA, Architect, Armstrong Kaulbach Architects
GLASS BLOCK BENEFITS & APPLICATIONS

Beauty and Versatility
Extraordinarily versatile and available in many aesthetically pleasing sizes and styles, glass block offers virtually limitless design possibilities. Glass block walls, partitions and windows combine the delicate beauty and light transmission of glass with the strength of glass block.

Visibility/Light Transmission
Glass block provides exceptional visibility in compliance with ADA guidelines for enclosed areas and has a dynamic relationship with light, both natural and artificial. As light changes, so does the material’s appearance and in turn the surrounding environment. It is also scratch-resistant and transmits up to 80% of available light in both directions without any yellowing, clouding or weathering.

Security
When top architects need to add security to their projects, Pittsburgh Corning answers with a range of solutions:

Premiere Series
Available in the widest range of sizes, shapes and patterns, these blocks offer enhanced resistance to impact, fire, sound transmission, graffiti and weather.

THICKSET® Series
These thicker-faced blocks offer all the performance features of our Premiere Series but with an extra reduction in sound transmission and increased fire resistance available in 60- or 90-minute ratings.

VISTABRIK® Glass Block
Three inches of solid glass block make this the top-performing product offering the highest ballistic ratings, resistance to impact and sound transmission while still transmitting 80% of available light.

Impact and Ballistic Resistant
Pittsburgh Corning Glass Blocks are inherently stronger than conventional glass because of the thickness of the faces and the mortar that binds the blocks together. As a result the glass blocks are more difficult to break and therefore provide resistance and are a deterrent to forced entry. Our solid 3” VISTABRIK® Glass Block resists penetration from high-impact ballistics, including 9mm and .357 magnum bullets. VISTABRIK® glass blocks are UL® tested and component recognized for ballistic levels 1, 2, and 6.
Energy Conservation
Glass block can provide more than double the thermal resistance (R-Value) of single-glaze 1/4" thick plate glass. The differences between the shading coefficient of glass block and flat sheet glass is also significant. Contributing to this is the louvering effect of glass block’s horizontal mortar joints, which helps reduce light transmission from the higher summer sun. The size and orientation of the block can greatly affect the amount of shading that can occur.

Graffiti Resistant
Glass block resists damage and is easy to clean.

"We started with the vertical elements of the garages – the elevator towers – nd using the VUE® pattern, turned it into a virtual wayfinder system. Then, we continued that theme with small wayfinder devices – information pylons using ESSEX® AA – throughout the garages."
– Graham Davidson, Architect

School of Performing Arts/Pittsburgh City Schools
VUE® Pattern

Chula Vista Police Department Headquarters/City of Chula Vista, Chula Vista, CA
Architect: Carrier Johnson // ESSEX® AA and VISTABRIK® Patterns

Architect: Hartman-Cox Architects (In association with HNTG Corporation)
DECORA®, ESSEX® AA and VUE® Patterns
Earthquake Resistance
The Northridge, CA earthquake on January 17, 1994 was the largest earthquake in the United States to have its epicenter in an urban area. A detailed survey was made of the performance of structures containing Pittsburgh Corning glass block panel applications. In all sites visited, the glass block walls and panel systems that were designed and constructed in accordance with Pittsburgh Corning specifications and the provision of the Uniform Building Code resisted the seismic forces without failure.

Noise Resistant
Three inches of solid glass makes VISTABRIK® a dense barrier to sounds from trains, traffic, crowds, sirens, and machinery with a 53 STC level. THICKSET™ Series Block STC ranges between 48-50, and Premiere Series Glass Block 35 to 40.

Sustainable Design
Glass block, made largely from sand and limestone, is 100 percent recyclable, inert, low maintenance, and highly durable, lasting 50 years or more. Yet its dynamic relationship with light gives architects the opportunity to create both aesthetically pleasing and energy efficient spaces.

Pittsburgh Corning glass block not only supports LEED® building certification, it also contributes to sustainable design in other ways:

1. Safety and Security
   • Glass block is noncombustible
   • Glass block combines visibility with security

2. Environmentally Preferable Materials and Products
   • Glass block is made largely from sand, an abundant raw material
   • Glass block is recyclable
   • Glass block is durable
   • Glass block has low construction waste

3. Visual Comfort
   • Certain glass block products may help avoid glare

Fire Resistant
An important feature of glass block, critical to safe building design, is the product’s 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 (UL®), standards. Glass block are available in 45-, 60- and 90-minute ratings for window assemblies. See page 11 for additional technical information. Visit our website at www.pittsburghcorning.com for electronic details.
HIGH PERFORMANCE LINE – Pittsburgh Corning’s High Performance Line of glass block products is comprised of products that offer the highest value, performance features and benefits related to improved safety, energy efficiency, aesthetics and decorative choices.

SIGNATURE LINE – Pittsburgh Corning’s Signature Line of glass block products is comprised of high quality Premiere Series products and the largest selection of patterns and shapes. This line has become the standard in the industry and provides the most design flexibility in the selection and use of glass block for walls, windows, partitions, and showers in residential and commercial applications.

PITTSBURGH CORNING GLASS BLOCK PRODUCTS

THICKSET® Block
Cutaways show the greater face thickness of the THICKSET® Series Block. THICKSET® 60 Block on left vs. the THICKSET® 90 Block on right.

THICKSET® 60 Block
DECORA® Pattern
THICKSET® 60 block provides a 60-minute fire rating. The DECORA® pattern provides maximum light transmission with subtle visual distortion. The nondirectional faces make installation quick.

THICKSET® 90 Block
ENDURA® Pattern
THICKSET® 90 block provides a 90-minute fire rating. The ENDURA™ pattern’s narrow flutes provide moderate light transmission/maximum privacy.

THICKSET® 90 Block
VUE® Pattern
THICKSET® 90 block provides a 90-minute fire rating. The VUE® pattern transmits maximum light and allows ultimate visibility.

Premiere Series Glass Block

ARGUS® Pattern
Rounded perpendicular flutes diffuse light while allowing maximum light transmission and a medium degree of privacy.

DECORA® Pattern
The trademark wavy undulations of this pattern provides maximum light transmission with subtle visual distortion. The nondirectional faces make installation quick.

ESSEX® AA Pattern
The fine grid design of the closely spaced ridges in this pattern offers moderate light transmission and a maximum degree of privacy.

IceScapes® Pattern
Non-directional pattern lets light in without sacrificing privacy. Maximum light transmission/medium to maximum privacy.

VISTABRIK® Solid Glass Block
3” solid glass block. Clear visibility, durable, impact, vandal and bullet resistant, low maintenance and aesthetically attractive. Excellent light transmission. Available in 8” x 8”, 6” x 8” and 4” x 8” sizes.

Glass Block Solar Wall Tubes
An easy way to let light into a structure that is built with multi-wythe walls. The Solar Wall Tubes replace standard masonry units and allow light transmission for LEED contribution. Improved thermal performance. Available in various sizes with choice of privacy levels.

Energy Efficient Glass Block
Blocks out the sun’s heat and ultraviolet light – to help keep interiors cooler in the summer. In winter, improved insulating ability helps keep interiors warmer. The blocks are available in DECORA®, DELPHI®, IceScapes®, and VUE® patterns.

VUE® Pattern
Faces are smooth and undistorted to transmit the most light and allow ultimate visibility. This is your best choice for passive solar collection and visual clarity.

FOCUS™ Pattern
This new circular pattern gives an exciting new way to bring more light and drama to any project.
SIGNATURE LINE – (continued)

Premiere Series Glass Block (continued)

Shapes and Finishing Units

Opal Plain
With a smooth finish both inside and out, this style emits a softly diffused light over an entire area.

Opal Silk
This fine grid pattern on the inner surface provides an elegant setting as it gently spreads light.

ARQUE® Block
DECORA® and IceScapes® Patterns
ARQUE® Block is a brilliant way to create smooth, graceful curves and columns. ARQUE® Block forms a consistent, tight curve ideally suited for columns.

ENCURVE® Block,
DECORA® and IceScapes® Patterns
Arched, soft edges to round out your design options or finish panels. Use with 8" x 8" EndBlock™ Finishing Units for a stepped panel.

EndBlock™ Finishing Unit
DECORA® and IceScapes® Patterns
6" x 8" and 8" x 8"
The rounded, finished surface on one edge of these blocks makes them virtually disappear when used vertically or horizontally on the edges of panels, walls or dividers.

HEDRON® Corner Block
DECORA® and IceScapes® Patterns
Hexagonal corner unit allows you to form 90-degree corners resulting in a gently rounded continuous glass face.

TRIDRON 45º Block®
DECORA® and IceScapes® Patterns
The unique shape of this block lets you create everything from 45-degree angles to full circles.

EndBlock™ Finishing Unit
DECORA® and IceScapes® Patterns
6" x 8" and 8" x 8"
The rounded, finished surface on one edge of these blocks makes them virtually disappear when used vertically or horizontally on the edges of panels, walls or dividers.

Made to Order Products – Items listed below are subject to minimum order quantities and lead times.

Premiere Series Glass Block

ARGUS® Parallel Fluted Pattern
Rounded parallel flutes on each face diffuse light while allowing maximum light transmission and a medium degree of privacy. Compliments the SPYRA® pattern.

SeaScapes™ Pattern
The three dimensional circles appear to float within the glass block. The pattern lets in light and also provides a degree of privacy.

SPYRA® Pattern
SPYRA® Pattern gives you many options for decorative patterns, such as bold circles, rounded corners and the illusions of waves. Maximum light transmission and minimal privacy.

PC® Custom Signature Block
Custom manufactured with your corporate logo or other design pressed into one or both inside surfaces of an eight inch square, standard unit.

VISTABRIK® Stippled Glass Block
Solid 3” thickness of glass with a stippled finish to add privacy. Durable, impact, vandal and bullet resistant, low maintenance and aesthetically attractive. Good light transition/medium privacy.

HEDRON® LX Corner Block,
DECORA® Pattern
Hexagonal corner unit allows you to form 90-degree corners resulting in a gently rounded continuous glass face.

Visit our new website which was designed specifically to help you to imagine the possibilities.
### PITTSBURGH CORNING GLASS BLOCK PRODUCTS

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Nominal Size</th>
<th>Weight (lb/ft²)</th>
<th>Heat Transmission U Value (Btu/hr ft² °F)</th>
<th>Thermal Resistance R Value (hr ft² °F/Btu)</th>
<th>Visible Light Transmission (%)</th>
<th>Shading Coef.</th>
<th>Sound Transmission S.T.C.</th>
<th>Solar Heat Gain Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>THICKSET® 60 Block—DECORA® &amp; VUE®</td>
<td>8” x 8” (197mm)</td>
<td>25</td>
<td>0.51</td>
<td>1.96</td>
<td>VUE®=75</td>
<td>DECORA®=49</td>
<td>0.65</td>
<td>48</td>
</tr>
<tr>
<td>THICKSET® 90 Block—DECORA® &amp; VUE®</td>
<td>8” x 8” (197mm)</td>
<td>30</td>
<td>0.51</td>
<td>1.96</td>
<td>VUE®=70</td>
<td>DECORA®=38</td>
<td>0.65</td>
<td>50</td>
</tr>
</tbody>
</table>

Glass Block with “LX” Fibrous Glass Inserts — Nominal Thickness = 4”; Actual Thickness = 3¾” (98mm)

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Nominal Size</th>
<th>Weight (lb/ft²)</th>
<th>Heat Transmission U Value (Btu/hr ft² °F)</th>
<th>Thermal Resistance R Value (hr ft² °F/Btu)</th>
<th>Visible Light Transmission (%)</th>
<th>Shading Coef.</th>
<th>Sound Transmission S.T.C.</th>
<th>Solar Heat Gain Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>DECORA® “LX” Filter</td>
<td>6” x 6” (146mm)</td>
<td>20</td>
<td>0.48</td>
<td>2.06</td>
<td>44</td>
<td>0.45³</td>
<td>40</td>
<td>.56</td>
</tr>
<tr>
<td>8” x 8” (197mm)</td>
<td>20</td>
<td>0.48</td>
<td>2.06</td>
<td>44</td>
<td>0.45³</td>
<td>40</td>
<td>.56</td>
<td></td>
</tr>
<tr>
<td>12” x 12” (299mm)</td>
<td>20</td>
<td>0.48</td>
<td>2.06</td>
<td>44</td>
<td>0.45³</td>
<td>40</td>
<td>.56</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Nominal Size</th>
<th>Weight (lb/ft²)</th>
<th>Heat Transmission U Value (Btu/hr ft² °F)</th>
<th>Thermal Resistance R Value (hr ft² °F/Btu)</th>
<th>Visible Light Transmission (%)</th>
<th>Shading Coef.</th>
<th>Sound Transmission S.T.C.</th>
<th>Solar Heat Gain Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>VISTABRIK® Solid Glass Block</td>
<td>8” x 8” x 3” Nominal (194mm x 194mm x 76mm)</td>
<td>40</td>
<td>0.87</td>
<td>1.15</td>
<td>90</td>
<td>53 (NRC=0.05)</td>
<td>.75-.78³</td>
<td></td>
</tr>
<tr>
<td>6” x 8” x 3” Nominal (143mm x 194mm x 76mm)</td>
<td>40</td>
<td>0.87</td>
<td>1.15</td>
<td>90</td>
<td>.75-.78³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4” x 8” x 3” Nominal (92mm x 194mm x 76mm)</td>
<td>40</td>
<td>0.87</td>
<td>1.15</td>
<td>90</td>
<td>.75-.78³</td>
<td></td>
<td></td>
<td></td>
</tr>
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</table>

**HIGH PERFORMANCE LINE**

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Nominal Size</th>
<th>Weight (lb/ft²)</th>
<th>Heat Transmission U Value (Btu/hr ft² °F)</th>
<th>Thermal Resistance R Value (hr ft² °F/Btu)</th>
<th>Visible Light Transmission (%)</th>
<th>Shading Coef.</th>
<th>Sound Transmission S.T.C.</th>
<th>Solar Heat Gain Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>DECORA®, DELPHI®, IceScapes®, and VUE®</td>
<td>8” x 3” x 3” (197mm x 197mm x 89mm)</td>
<td>40</td>
<td>.45</td>
<td>2.22</td>
<td>63</td>
<td>33</td>
<td>.32</td>
<td></td>
</tr>
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**ENERGY EFFICIENT GLASS BLOCK**

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Nominal Size</th>
<th>Weight (lb/ft²)</th>
<th>Heat Transmission U Value (Btu/hr ft² °F)</th>
<th>Thermal Resistance R Value (hr ft² °F/Btu)</th>
<th>Visible Light Transmission (%)</th>
<th>Shading Coef.</th>
<th>Sound Transmission S.T.C.</th>
<th>Solar Heat Gain Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>DECORA®, DELPHI®, IceScapes®, and VUE®</td>
<td>8” x 3” x 3” (197mm x 197mm x 89mm)</td>
<td>40</td>
<td>.45</td>
<td>2.22</td>
<td>63</td>
<td>33</td>
<td>.32</td>
<td></td>
</tr>
</tbody>
</table>

**STANDARD PREMIERE SERIES BLOCK**

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Nominal Size</th>
<th>Weight (lb/ft²)</th>
<th>Heat Transmission U Value (Btu/hr ft² °F)</th>
<th>Thermal Resistance R Value (hr ft² °F/Btu)</th>
<th>Visible Light Transmission (%)</th>
<th>Shading Coef.</th>
<th>Sound Transmission S.T.C.</th>
<th>Solar Heat Gain Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARGUS®</td>
<td>6” x 6” (146mm)</td>
<td>20</td>
<td>0.51</td>
<td>1.96</td>
<td>55</td>
<td>0.65</td>
<td>37</td>
<td>.66-.68³</td>
</tr>
<tr>
<td>8” x 8” (197mm)</td>
<td>20</td>
<td>0.51</td>
<td>1.96</td>
<td>55</td>
<td>0.65</td>
<td>39</td>
<td>.66-.68³</td>
<td></td>
</tr>
<tr>
<td>12” x 12” (299mm)</td>
<td>20</td>
<td>0.51</td>
<td>1.96</td>
<td>55</td>
<td>0.65</td>
<td>35</td>
<td>.66-.68³</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Nominal Size</th>
<th>Weight (lb/ft²)</th>
<th>Heat Transmission U Value (Btu/hr ft² °F)</th>
<th>Thermal Resistance R Value (hr ft² °F/Btu)</th>
<th>Visible Light Transmission (%)</th>
<th>Shading Coef.</th>
<th>Sound Transmission S.T.C.</th>
<th>Solar Heat Gain Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>VUE®</td>
<td>6” x 6” (146mm)</td>
<td>20</td>
<td>0.51</td>
<td>1.96</td>
<td>55</td>
<td>0.65</td>
<td>37</td>
<td>.66-.68³</td>
</tr>
</tbody>
</table>

1 Size: Block are manufactured to a ± 1/16" (2mm) tolerance.
2 Heat Transmission/Thermal Transmission: Winter night values. To calculate instantaneous heat gain through glass panels, see ASHRAE HANDBOOK OF FUNDAMENTALS, 2005, Section 31.3.
3 Light Transmission: Based on test results.
4 Shading Coefficient: Estimated figures based on accumulated data.
5 SHGC: Default values as interpreted from International Energy Conservation Code.

† MTO – Made to Order items subject to minimum order quantities and lead times.
Installed Panel Weight
Refer to Table on page 8 for weight of panels installed with mortar. Glass block panels installed with the ProVantage® Glass Block Installation System are up to 25% lighter per square foot than panels installed with mortar. Local building codes should be consulted for any limits on panel sizes or installation details.

Non-load Bearing
Glass block panels are non-load bearing; adequate provisions must be made for support of construction above these panels. Panels are mortared at the sill, with jamb and head details designed to accommodate for building movement and lintel deflection. The compressive strength (for information purposes only) of all hollow glass block is 400 to 600 psi.; THICKSET® Series Glass Block is 2500 psi.; and VISTABRIK® Series is 80,000 psi.

Thermal Expansion Coefficient
The thermal expansion coefficient of glass block is 47 x 10^{-7}/(°F).

Detailed Drawings
Structural members illustrated on page 14 and other “detail” pages indicate general principles of construction. Member sizes should be determined by structural analysis to avoid excessive deflections. Maximum deflection for supports shall not exceed L/600.

<table>
<thead>
<tr>
<th>FINISHING UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PREMIERE SERIES</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EndBlock™ Finishing Units</th>
<th>HEDRON® Corner Unit</th>
<th>TRIDRON 45° Block® Unit</th>
<th>ENCURVE® Finishing Unit</th>
<th>ARQUE® Block Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DECORA® &amp; IceScapes® Patterns</strong></td>
<td><strong>DECORA® &amp; IceScapes® Patterns</strong></td>
<td><strong>DECORA® &amp; IceScapes® Patterns</strong></td>
<td><strong>DECORA® &amp; IceScapes® Patterns</strong></td>
<td><strong>DECORA® &amp; IceScapes® Patterns</strong></td>
</tr>
<tr>
<td>8” High Premiere Series</td>
<td>8” High Premiere Series</td>
<td>8” High Premiere Series</td>
<td>8” High Premiere Series</td>
<td>8” High Premiere Series</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Glass Block between TRIDRON 45° Block®</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>a</strong> (in.)</td>
</tr>
<tr>
<td>None</td>
</tr>
<tr>
<td>1 - 4” x 8” x 4”</td>
</tr>
<tr>
<td>1 - 6” x 8” x 4”</td>
</tr>
<tr>
<td>1 - 8” x 8” x 4”</td>
</tr>
<tr>
<td>1 - 4” x 8” x 4” + 1 - 8” x 8” x 4”</td>
</tr>
<tr>
<td>2 - 8” x 8” x 4”</td>
</tr>
<tr>
<td>1 - 4” x 8” x 4” + 2 - 8” x 8” x 4”</td>
</tr>
<tr>
<td>3 - 8” x 8” x 4”</td>
</tr>
</tbody>
</table>

Maximum Panel Dimensions

<table>
<thead>
<tr>
<th></th>
<th>Premiere Series</th>
<th>Thinline® Series</th>
<th>VISTABRIK®</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A (Sq Ft)</td>
<td>H (Ps)</td>
<td>A (Sq Ft)</td>
</tr>
<tr>
<td><strong>EXTERIOR</strong></td>
<td>144</td>
<td>20</td>
<td>25</td>
</tr>
<tr>
<td><strong>INTERIOR</strong></td>
<td>250</td>
<td>20</td>
<td>25</td>
</tr>
</tbody>
</table>

A = Area  H = Height  W = Width
* All exterior areas and dimensions are based on 20 psf design windload with 2.7 safety factor.

Mortar Mix and Estimating Tables
An optimum mortar mix for installing Pittsburgh Corning Glass Block is:

<table>
<thead>
<tr>
<th>Portland Cement</th>
<th>Lime</th>
<th>Sand</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Part</td>
<td>1⁄2 Part</td>
<td>3.4 Parts</td>
</tr>
<tr>
<td>1.0 cubic foot</td>
<td>0.5 cubic foot</td>
<td>3.4 cubic feet</td>
</tr>
</tbody>
</table>

Number of Block for 100 Sq. Ft. Panel

<table>
<thead>
<tr>
<th>Block Sizes (Nominal)</th>
<th>6”</th>
<th>8”</th>
<th>12”</th>
<th>4” x 8”</th>
<th>6” x 8”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Block</td>
<td>400</td>
<td>225</td>
<td>100</td>
<td>450</td>
<td>300</td>
</tr>
</tbody>
</table>

Columns can be All-TRIDRON 45° Block® (left) or interspersed with 4” x 8” or 8” x 8” glass block.

NOTE: All mortar joints are 1/4”.
**PHYSICAL & DESIGN DATA**

**INSIDE RADIUS MINIMUMS FOR CURVED PANEL CONSTRUCTION**

![Diagram showing inside radius minimums for curved panel construction.]

**NOTES:**
1. It is suggested that curved areas be separated from flat areas by intermediate expansion joints and supports, as indicated in these drawings.
2. When straight, ladder-type reinforcing is used on curved walls, the innermost parallel wire may be cut periodically and/or bent to accommodate the curvature of the wall.

**RADIUS MINIMUMS FOR CURVED PANEL CONSTRUCTION**

<table>
<thead>
<tr>
<th>Block Size</th>
<th>Inside Radius</th>
<th>Number of Blocks in 90° Arc</th>
<th>Vertical Joint Thickness In Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot; x 8&quot;</td>
<td>32</td>
<td>13</td>
<td>1/8”</td>
</tr>
<tr>
<td>6&quot; x 6&quot;</td>
<td>48 1/2</td>
<td>13</td>
<td>1/8”</td>
</tr>
<tr>
<td>8&quot; x 8&quot;</td>
<td>65</td>
<td>13</td>
<td>1/8”</td>
</tr>
<tr>
<td>12&quot; x 12&quot;</td>
<td>98 1/2</td>
<td>13</td>
<td>1/8”</td>
</tr>
</tbody>
</table>

ARQUE® Block used along with other Pittsburgh Corning Block sizes, allows you to form consistent curves of various radii. Radii shown are to inside face of curve.

**WIND LOAD RESISTANCE – MORTAR SYSTEM**

(Based on Standard Nominal 4” Thick Premiere Series Glass Block. Installed with mortar. Based on 2.7 Safety Factor)

![Graph showing wind load resistance for various areas and panel configurations.]

**WIND LOAD RESISTANCE – PROVANTAGE® SYSTEM**

(Based on Standard Nominal 4” Thick Premiere Series Glass Block installed with ProVantage® Silicone System). Based on 2.0 Safety Factor.

**RESISTANCE TO SURFACE CONDENSATION**

![Chart showing resistance to surface condensation for various block sizes and conditions.]

Example: At a relative humidity of 40%, an outside temperature of approximately -3°F will cause condensation on Premiere Series Glass Block or approximately 3°F above zero on Thinline® Series block. Under the same conditions, condensation will form on a single-glazed flat glass window at 34°F above zero.
All sizes (exceptions listed below) of Premiere Series and Thinline® Series glass blocks have at least a 45 minute fire rating when used as a window assembly within a one hour fire-rated wall assembly. All THICKSET® 90 (thick-faced) and solid glass blocks have fire ratings of up to 90 minutes, and the THICKSET® 60 and ESSEX® AA Pattern glass blocks have fire ratings of up to 60 minutes, when used as window assemblies and where permitted by code.

Pittsburgh Corning Glass Block units that are not fire-rated:

- All 12” x 12” sizes
- All DELPHI®, pattern block
- All HEDRON® Corner block, TRIDRON 45° Block®, units, EndBlock®, ENCUREVE® and ARQUE® finishing units
- All paver units
- VISTABRIK® Corner Block

**Includes “LX” option.

** 1/4” steel channel. 1/16” thick expansion material at head and jambs, and fire retardant sealant are required.

** Includes “LX” option.

** 1/4” steel channel. 1/16” thick expansion material at head and jambs, and fire retardant sealant are required.
ACCESSORIES

PANEL CONSTRUCTION USING UNIVERSAL MORTAR SPACERS

The all plastic Universal Mortar 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.

PC® PANEL REINFORCING, PANEL ANCHORS & EXPANSION STRIPS

PC® Panel Reinforcing (top) — in panels — is embedded horizontally in the mortar joints between every other course.

PC® Panel Anchors (middle) are used to tie Pittsburgh Corning Glass Block panels into the surrounding framework when channels are not used. PC® Expansion Strips (bottom), made of white polyethylene, are inserted at the head and jambs. The strips replace mortar at these locations to cushion the glass block and allow the panel to expand and contract freely.

OTHER ACCESSORIES

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

PROVANTAGE® INSTALLATION SYSTEM

Unlike previous systems using sealant and spacers, the new ProVantage® Installation System for use with Premiere Series glass blocks, can turn corners, make radius walls, build showers and is suitable for interior or exterior applications. The system utilizes spacers to align and hold the blocks in place for easy assembly. Sealant is used to bond the spacer and blocks together. The consistent, even-spaced joints are then finished with a special tile grout resulting in a clean, smooth professional look. For smaller straight wall panels, with 3-side support, sealant can be used in the joints to provide an all-glass look.
Glossary of Terms:

- BLDG – Building
- CMU – Concrete Masonry Unit (concrete block)
- CONT STL – Continuous Steel (used to reinforce wall)
- ELEV – Elevation (side view of building)
- GYP BD – Gypsum Board
- HM – Hollow Metal (door frame)
- INT – Interior
- MAX HT – Maximum Height (for Pittsburgh Corning Glass Block panel 20ft./6m)
- SILL – Bottom of Panel
- TYP – Typical (detail)
- CLG – Ceiling
- CONC – Concrete
- EIFS – Exterior Insulation Finishing System
- EXT – Exterior
- HEAD – Top of Panel
- HORIZ – Horizontal
- JAMB – Side of Panel
- PLAN – View of Building from above, typically the floor
- STL – Steel
- WD – Wood

Materials shown other than glass block are for illustration purposes only as examples of typical construction details.

Details can be downloaded as .DWG or .DXF files from our website:

pittsburghcorning.com

Typical Head Details (Exterior Openings):

(PCD 031) Head – Glass Block in Steel Stud Wall with Synthetic Plaster Finish

Typical Jamb Details (Exterior Openings):

(PCD 062) Jamb – Glass Block in Steel Stud Wall with Brick Veneer

Typical Sill Details (Exterior Openings):

(PCD 063) Sill – Glass Block in Steel Stud Wall with Brick Veneer

(PCD 033) Sill – Glass Block in Steel Stud Wall with Synthetic Plaster Finish
TYPICAL CONSTRUCTION DETAILS

TYPICAL STIFFENER DETAILS
Continuous Panels ≤ 144 Sq. Ft. Each

Vertical Stiffener

Horizontal Stiffener

(PCD 132A) Intermediate Vertical Support in Multiple Horizontal Panels

(PCD 132B) Intermediate Support in Multiple Horizontal Panels

(PCD 132C & D) Intermediate Support in Multiple Horizontal Panels

TYPICAL SHELF ANGLE DETAILS
Continuous Panels ≤ 144 Sq. Ft. Each

HOLLOW METAL DOOR FRAME DETAILS

(PCD 132A) Intermediate Vertical Support in Multiple Horizontal Panels

(PCD 129) Intermediate Horizontal Support in Multiple Vertical Panels

(PCD 128) Intermediate Horizontal Support in Multiple Vertical Panels

(PCD 153) Head – Hollow Metal Door Frame at Glass Block

(PCD 154) Jamb – Hollow Metal Door Frame at Glass Block
**TYPICAL SHELF ANGLE DETAILS – FOR VISTABRICK® PANELS**
Continuous Panels ≤ 100 Sq. Ft. Each

- **Vertical Stiffener**
  - SEALANT
  - EXPANSION STRIP
  - PITTSBURGH CORNING VETRABRICK® SOLID GLASS BLOCK UNIT
  - HORIZONTAL PANEL REINFORCING

- **Horizontal Stiffener**
  - 5/16” TRAPEZOIDAL GALVANIZED ADHESIVE OR EQUAL (N/C. WAX)
  - SEALANT & BACKER (TP)
  - FASTEN TIE
  - STRUCTURAL WELDER

**DETAILS FOR FIRE RATED CONSTRUCTION**

- **(PCD 004) Head – 90 Minute Fire Rated Glass Block in CMU Wall**
  - CMU UNLEADED BLOCK
  - KIT FISH
  - ANCHOR BOLT (TP)
  -stile L 2 X 2 X 1/4 (TP)
  - FULL SPACE W/ EXPANSION STRIPS
  - FIRE RETARDANT TYPE SEALANT & BACKER (TP)
  - PITTSBURGH CORNING “THICKET”® OR VETRABRICK® SOLID GLASS BLOCK UNIT

- **(PCD 005) Jamb – 90 Minute Fire Rated Glass Block in CMU Wall**
  - CMU CONCRETE OR OTHER MATERIAL
  - KIT FISH
  - FIRE RETARDANT TYPE SEALANT & BACKER (TP)
  - PITTSBURGH CORNING “THICKET”® OR VETRABRICK® SOLID GLASS BLOCK UNIT
  - FULL SPACE W/ EXPANSION STRIPS
  - WOOD PANEL REINFORCING
  - stile L 2 X 2 X 1/4 (TP)
  - ANCHOR BOLT (TP)

- **(PCD 006) Sill – 90 Minute Fire Rated Glass Block in CMU Wall**
  - PRECAST CONC. SILL
  - CMU UNLEADED BLOCK
  - KIT FISH
  - PITTSBURGH CORNING “THICKET”® OR VETRABRICK® SOLID GLASS BLOCK UNIT
  - MORTAR
  - ASHRAE INSULATION

- **(PCD 130) Intermediate Horizontal Support in Multiple Vertical Panels**

- **(PCD 131) Intermediate Horizontal Support in Multiple Vertical Panels**

- **(PCD 133) Intermediate Vertical Support in Multiple Horizontal Panels**

- **(PCD 135) Vertical Stiffener**

- **(PCD 136) Horizontal Stiffener**

- **(PCD 150) Head – 45 & 60 Minute Fire Rated Glass Block Panel**
  - HALL CONFORMING TO LIFE DESIGN NO. UNLS
  - WOOD STUD FRAMING (OR WOOD STUD)
  - CEIL BOARD
  - FIRE RETARDANT TYPE SEALANT (TP)
  - EXPANSION STRIP
  - PANEL ANCHOR
  - PITTSBURGH CORNING PREVOTES SERIES OR THICKET BLOCK OR VETRABRICK® SOLID GLASS BLOCK UNIT

- **(PCD 151) Jamb – 45 & 60 Minute Fire Rated Glass Block Panel**

- **(PCD 155) Sill – 45 & 60 Minute Fire Rated Glass Block Panel**

VISTABRIK® SOLID GLASS BLOCK DETAILS

(PCD 037) Head – Solid Glass Block in CMU Wall

(PCD 038) Jamb – Solid Glass Block in CMU Wall

(PCD 039) Sill – Solid Glass Block in CMU Wall

(PCD 040) Head – Solid Glass Block in Brick Masonry Cavity Wall

(PCD 041) Jamb – Solid Glass Block in Brick Masonry Cavity Wall

(PCD 042) Sill – Solid Glass Block in Brick Masonry Cavity Wall

(PCD 043) Head – Solid Glass Block in Steel Stud Wall with Brick Veneer

(PCD 044) Jamb – Solid Glass Block in Steel Stud Wall with Brick Veneer
(PCD 045) Sill – Solid Glass Block in Steel Stud Wall with Brick Veneer

(PCD 049) Head – Solid Glass Block in Steel Stud Wall with Synthetic Plaster Finish

(PCD 050) Jamb – Solid Glass Block in Steel Stud Wall with Synthetic Plaster Finish

(PCD 051) Sill – Solid Glass Block in Steel Stud Wall with Synthetic Plaster Finish

(PCD 148) Head – Glass Block in Suspended Ceiling

(PCD 149) Head – Glass Block in Partition

(PCD 150) Jamb – Glass Block in Partition

(PCD 151) Jamb – Glass Block Perpendicular to Partition

(PCD 241) Sill – Interior Concrete Floor Slab
1.01 Summary
This specification has been prepared by Pittsburgh Corning Corporation using generally accepted and appropriate technical information but is not intended to be solely relied upon for the specification design or technical applications. Having no control over the elements of design, installation, workmanship or site conditions, Pittsburgh Corning assumes that the actual design choices and installation will be made by persons trained and qualified in the appropriate disciplines. Therefore, Pittsburgh Corning disclaims all liability potentially arising from the use or misuse of this specification.

1.02 Section Includes
A. Glass Block Units, hollow or solid
B. Integral Joint Reinforcement
C. Mortar

1.03 Related Sections
A. Steel Channels
B. Sills, lintels, jambs
C. Sealant (caulk)
D. Packing Material

1.04 References
A. ASTM A82 — Spec. for Cold Drawn Steel Wire
B. ASTM A153— Class B-2, Spec. Zinc Coating (Hot dip) on Iron and Steel Hardware (Canada same)
C. ASTM A167, Spec. for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet and Strip
D. ASTM A580, Spec. for Stainless Steel Wire
E. ASTM C144, Spec. for Aggregate for Masonry (Canada — A179-94)
F. ASTM C150, Spec. for Portland Cement (Canada — CAN/CSA-A5-93)
G. ASTM E2010 and NFPA 257, Fire Test of Window Assemblies (equivalent to UL® 9 and CAN 4-S106-M80)
H. ASTM C207, Spec. for Hydrated Lime for Masonry Purposes (Canada same)
I. ASTM C270, Spec. for Mortar for Unit Masonry (Canada — A179-94)
J. ASTM D1187, Type II— Spec. for Asphalt-Base Emulsions (For Metal Surfaces)
K. ASTM D1227, Type III— Spec. for Emulsified Asphalt (For Porous Surfaces)

1.05 System Description
Knowledge of the following basic information is essential for proper installation of Pittsburgh Corning Glass Block units:
1. Glass block panels shall not be designed to support structural loads.
2. Maximum deflection of structural members supporting glass block panels shall not exceed 1/400.
3. Sills of all panels must be painted with a heavy coat of asphalt emulsion and must cure for two hours before first mortar bed is placed.
4. Provision for expansion, movement and isolation of the glass units from the surrounding frame, must be made at jambs and heads of all panels. Mortar must not bridge expansion spaces.
5. Mortar should be mixed and applied in accordance with the recommendations of Pittsburgh Corning Corporation. See Mortar Materials. Because glass block will not absorb water, mortar must be considerably stiffer than mortar for ordinary masonry. The consistency can be described as “mashed potatoes” or “peanut butter” and be clay-like. The joints must be full and struck smooth, not sponged.

6. Design and installation of glass block projects should be done by whole units since cutting glass block is not recommended.

1.06 Submittals
A. Product Data
Submit two (2) copies of manufacturer’s literature and two (2) copies of manufacturer’s installation instructions.
B. Samples
1. Submit two (2) glass block units of each type specified, showing size, design and pattern of faces.
2. Submit representative samples of (panel reinforcing), (panel anchors), (expansion strips), and (sealant).
C. Test Reports —
Fire Tests
Submit documents verifying glass block units are classified for a 1/4 or 1 1/2-hour fire exposure according to ASTM E2010, Underwriters Laboratories of Canada CAN 4-S106-M80, UL® 9, or NFPA 257 “Fire Tests of Window Assemblies.” All such glass block unit samples shall carry appropriate UL® labels.

1.07 Storage and Protection
A. Store unopened cartons of glass block in a clean, cool, dry area.
B. Protect opened cartons of glass block against windblown rain or water run-off with tarpaulins or plastic covering.

1.08 Project/Site Conditions
A. Do not install glass block units when temperature is 40°F (4°C) and falling. Maintain the temperature of glass unit masonry above 40°F (4°C) for the first 48 hours after construction.

1.09 Warranty
A. Pittsburgh Corning Corporation offers a limited 5-year warranty on Pittsburgh Corning Glass Block units.

PART 2 – PRODUCTS

2.01 Acceptable Manufacturers
A. The drawings and specifications are based on catalog data, specifications and products of Pittsburgh Corning Corporation and designate the type and quality of work intended under this section.
1. Products of other manufacturers proposed as equivalent quality must be submitted through the bidding contractors for written approval of the architect ten days prior to the bid date.
2. Supporting technical data, samples, published specifications and the like must be submitted for comparison.

1.08 Project/Site Conditions
A. Do not install glass block units when temperature is 40°F (4°C) and falling. Maintain the temperature of glass unit masonry above 40°F (4°C) for the first 48 hours after construction.

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2. Supporting technical data, samples, published specifications and the like must be submitted for comparison.
3. Contractor shall warrant that proposed substitutions, if accepted, will provide performance equivalent to the materials specified herein.

4. These specifications have been developed by Pittsburgh Corning Corporation based on extensive tests of panels composed of Pittsburgh Corning Series Glass Block masonry units as manufactured by Pittsburgh Corning Corporation. These specifications do not apply to panels or masonry made from glass block masonry units produced by any other manufacturer.

2.02 Glass Block Units

A. Glass block units, nominally __ inch x __ inch x __ inch thick shall be partially evacuated hollow units made of clear, colorless glass with a polystyrene butyl edge coating. Pattern type: ____________.

B. Thick faced glass block units, nominally __ inch x __ inch x __ inch thick shall be partially evacuated hollow units made of clear, colorless glass with a polystyrene butyl edge coating. Pattern type: ____________.

C. Solid glass units, nominally __ inch x __ inch x __ inch thick made of clear colorless glass with a polystyrene butyl edge coating. Pattern type: ____________.

NOTE: Pittsburgh Corning Corporation offers a polystyrene butyl edge coating for better bonding and to provide for an expansion/contraction mechanism for each block.

2.03 Accessories

A. Panel Reinforcing: two parallel 9 gauge wires either ½ inch or 2 inch on center with electrically butt-welded crosswires spaced at regular intervals, hot dipped galvanized after welding or Type 304 stainless steel, by Pittsburgh Corning Corporation.

B. Panel Anchors: 20 gauge perforated steel strips 24 inches long by ½ inch wide, hot dipped galvanized after perforation or 22 gauge by 16 inches long by ¾ inch wide of Type 304 stainless steel, by Pittsburgh Corning Corporation.

C. Expansion Strips: made of polyethylene foam with a thickness of ¾ inch, by Pittsburgh Corning Corporation.

D. Asphalt Emulsion: a water-based asphalt emulsion, by Karnak Chemical Corp. (Karnak 100, 1-800-22-4236), or equal.

E. Sealant (caulk): non-staining, urethane, (__________ ) type. Below is a list of the toll-free telephone numbers of the Technical Departments of the following sealant manufacturers:
  • Dow Corning Corporation, 1-800-248-2481 in Midland, MI
  • General Electric, 1-800-255-8886, in Waterford, NY

F. Set succeeding courses of block. Spaces at head of panel and jamb must remain free of mortar for caulking with sealant.

I. Use only wooden or rubber tipped tools when tapping glass blocks into place.

J. Strike joints smooth while mortar is still plastic and before final set. Remove surplus mortar from faces of glass blocks and wipe dry. (See Section 3.03.) Tool flush smooth and concave before mortar takes final set. At this time, remove and clean out all excess mortar from jamb, head and other locations.

K. After final mortar set (approximately 24 hours), install packing tightly between glass block panel and jamb and head locations. Leave space for sealant.

L. Apply sealant evenly to the full depth of recesses as indicated on the drawings and in accordance with the manufacturers’ published application manual and instructions.

M. All exterior glass block panels shall be well sealed to prevent water entry.

3.02 Installation

A. Cover sill area with a heavy coat of asphalt emulsion. Allow emulsion to cure at least 2 hours before placing mortar.

B. Where panel anchors are used at jamb and head in lieu of channel or chase surrounds, install panel anchors in the same joints (16 inches o.c. maximum starting after first course) where panel reinforcing will be placed. Panel anchors are to be embedded a minimum of 12 inches into the mortar joints.

C. Place or adhere expansion strips to jamb and head. Make certain expansion strip extends to sill and covers leg of panel that is attached to jamb and head.

D. Set a full mortar bed joint, applied to sill.

E. Set lower course of block. Maintain a uniform joint width of ½ inch or less, or 1/4 inch. All mortar joints must be full and not furrowed. Steel tools must not be used to tap blocks into position. (Place a rubber crutch tip on end of trowel to tap blocks into position.) Do not realign, tap or otherwise move block after initial placement. For VISTABRIK® Solid Glass Block units, typical mortar joint is ⅛ inch. Special VISTABRIK® spacers that provide a ⅛ inch thick mortar joint are available.

F. Install panel reinforcing every 16 inches o.c. maximum (starting after the first course) in horizontal mortar joints. Run reinforcing continuously from end to end of panels. Lap reinforcing not less than 6 inches whenever it is necessary to use more than one length. NOTE: In corrosive atmospheres (i.e. saline air, chlorine air, etc.), the use of stainless steel channels, reinforcing and panel anchors should be considered. Consult local building codes in coastal areas. For VISTABRIK® Solid Glass Block, use 1/8 inch wide reinforcing (same as Thinline® Series glass block). Do not bridge reinforcement and panel anchors should be considered. Consult local building codes in coastal areas. For VISTABRIK® Solid Glass Block, use 1/8 inch wide reinforcing (same as Thinline® Series glass block). Do not bridge expansion joints with reinforcing. Install reinforcing as follows:
  • Place lower half of mortar in between joint. Do not furrow.
  • Press panel reinforcing into place.
  • Cover panel reinforcing with upper half of mortar bed and trowel smooth. Do not furrow.

G. Place full mortar bed for joints not requiring panel reinforcing – do not furrow. Maintain uniform joint width.

H. Set succeeding courses of block. Spaces at head of panel and jamb must remain free of mortar for caulking with sealant.

I. Use only wooden or rubber tipped tools when tapping glass blocks into place.

J. Strike joints smooth while mortar is still plastic and before final set. Remove surplus mortar from faces of glass blocks and wipe dry. (See Section 3.03.) Tool flush smooth and concave before mortar takes final set. At this time, remove and clean out all excess mortar from jamb, head and other locations.

K. After final mortar set (approximately 24 hours), install packing tightly between glass block panel and jamb and head locations. Leave space for sealant.

L. Apply sealant evenly to the full depth of recesses as indicated on the drawings and in accordance with the manufacturers’ published application manual and instructions.

M. All exterior glass block panels shall be well sealed to prevent water entry.
LightWise® Architectural Systems are engineered pre-fabricated systems of Pittsburgh Corning glass block which provide both aesthetic and performance characteristics. Systems include — Blast-Resistance Glass Block Panels, Hurricane-Resistant Glass Block Windows, Detention & Security Windows, and Ballistic-Resistant Glass Block Panels, LightWise® Architectural Systems can be specified under Division 8 Openings.

All LightWise® Architectural Systems have the following benefits:
- Panelized systems for consistent workmanship
- Easily and quickly installed
- Offers a range of visibility and privacy options
- Provides daylighting
- Enhanced security
- Graffiti-resistant, damage-resistant, easy to clean
- Noise reduction

Pittsburgh Corning has a sales and technical support team that is ready to help you design, engineer and specify glass block solutions. Please visit our website at pittsburghcorning.com or call 1-800-871-9918 for assistance.

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 and 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.

Collaborative Customization program
If you need a custom glass block product to make your design a reality, Pittsburgh Corning can help. We have Sales Managers and technical support personnel that can work with you to make it happen. Call us at 1-800-871-9918.

LightWise® Architectural Systems – Division 8 Openings

Pittsburgh Corning Glass Block Website
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.

Technical Service Department
Our Technical Service Department, located in Pittsburgh, is available for technical advice, project design assistance, and plan review. Call us at 1-800-871-9918.

To further our dedication to the architectural community, Pittsburgh Corning is teaming up with the AIA to bring you innovative ways to earn continuing education credits, including a great slide presentation that we can set up in your offices. This program provides HSW Learning Units. For more information, visit our website at www.pittsburghcorning.com.

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