

To receive AIA/CES credit, you are required to read the additional online text, which can be found at <http://www.construction.com/CE/articles/0710pittsburgh-1.asp>  
The quiz questions below include information from this online reading.

Program title: **“Designing With Glass Block: Abundant Applications Provide Practical, Aesthetic and Green Solutions” (10/07, page 179).** AIA/CES Credit: This article will earn you one AIA/CES LU hour of health, safety, and welfare credit. (Valid for credit through October 2009). Directions: Refer to the Learning Objectives for this program. Select one answer for each question in the exam and fill in the box by the appropriate letter. A minimum score of 80% is required to earn credit.

To take this test online, go to [construction.com/CE/](http://www.construction.com/CE/)

### Learning Objectives

After reading this article, you should be able to:

- Identify the structural properties of glass block when used as a building material.
- Discuss the unique performance abilities of glass block, such as fire protection, heat and light transmission, sound resistance, vandal resistance, and hurricane and earthquake resistance.
- Assess some of the economic and aesthetic implications of specifying glass block in specific building projects.

### Questions

1. What is the maximum square footage for an exterior standard glass block wall built without stiffeners or shelf angles?

- a. 4 square feet
- b. 12 square feet
- c. 144 square feet
- d. 350 square feet

2. Since glass block is nonporous and does not absorb any moisture, the consistency of the mortar used must be?

- a. wet.
- b. soft (like butter).
- c. stiff (like peanut butter).
- d. dry.

3. What should horizontal joint reinforcement do?

- a. Control cracking due to expansion and contraction
- b. Be placed no more than 16 inches on center and extend horizontally the length of the panel
- c. Be pressed into the partially filled mortar joint, then covered with the remaining mortar and troweled smooth
- d. All of the above

4. Glass block anchoring methods include the

- a. panel anchors, chase and running methods.
- b. channel, running and panel anchors methods.
- c. panel anchors, channel and chase methods.
- d. channel, chase and running methods.

5. Additional structural support for curved walls

- a. should be placed where the curved section joins a straight section and at inflection points in multi-curved walls.
- b. is not necessary if glass block meets hurricane code.
- c. does not need to follow the contour of the curve.
- d. is independent of the size of the block used.

6. All UL fire-rated glass block on the market meets a 45-minute or longer duration test meeting what standard?

- a. ASTM E-2010 and NFPA 257.
- b. ASTM E-119.
- c. ASTM E-02.
- d. ASTM E-30.

7. Solid 3-inch glass block has

- a. an R-value of 1.75.
- b. U-value of 0.87.
- c. less thermal resistance than single-glazed 1/8-inch-thick plate glass.
- d. a shading coefficient of 3.5.

8. Solid 3-inch glass block units that have been ballistics-tested and component-recognized provide what level(s) of ballistics?

- a. No resistance
- b. UL level 1
- c. UL levels 1 and 2
- d. UL levels 1, 2, and 6

9. Hollow glass block has an STC

- a. higher than a solid glass block.
- b. lower than a solid glass block.
- c. equal to flat sheet glass.
- d. higher than a 4-inch brick wall.

10. Hurricane-rated glass block must

- a. have a lesser face thickness than standard block.
- b. meet 150 psf design pressure in Dade County.
- c. be mounted in a panel measuring less than 4 feet by 4 feet.
- d. meet ASTM E-1886 and ASTM E-1996 requirements.

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**Material resources used:** Article: This article addresses issues concerning health and safety.

I hereby certify that the above information is true and accurate to the best of my knowledge and that I have complied with the AIA Continuing Education Guidelines for the reported period.

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Pittsburgh Corning Glass Block products are available from authorized Pittsburgh Corning distributors and retailers across the country. For more information, readers can call Pittsburgh Corning's Glass Block Resource Center at 800-624-2120 or visit [www.pittsburghcorning.com](http://www.pittsburghcorning.com). Located in suburban Pittsburgh, Pittsburgh Corning is a manufacturer of applied glass technology and systems. The company has been a major producer of glass block for commercial and residential use since 1937.