



1. Which of the following is not an *architectural* concern when designing masonry cavity walls and attachments?
 - a. Ceiling heights and space for MEP
 - b. Adjustability of attachments
 - c. Locations widths of joints
 - d. Placement of fenestration and openings

2. Shelf Angles for masonry...:
 - a. should be made from bent plate.
 - b. should support no more than 1/3 the thickness of the brick.
 - c. should have field adjustability.
 - d. None of the above

3. Which of the following are typically included in design vertical movements for a brick veneer shelf angle supported by a spandrel?
 - a. Spandrel deflection and spandrel rotation
 - b. Shelf angle rotation and brick volume change
 - c. Both A & B
 - d. None of the above

4. Which of the following could cause movement in panelized façade systems?
 - a. Volume changes
 - b. Out-of-plane wind and seismic loads
 - c. Self-weight
 - d. All of the above

5. Which of the following statements is true?
 - a. Tie-back connections provide both vertical and in-plane lateral restraint.
 - b. The structural engineer of record needs to understand how panels will attach to the primary building structure.
 - c. Alignment connections are typically used to attach panels to the building structure.
 - d. It is typically the structural engineer of record's responsibility to design the connections of panelized facade systems.



Design of Curved Members/Façade Attachments

Quiz for Session 6: Façade Attachments Part 1– July 23, 2018

Due: August 13, 8:00 a.m. EDT – Submit through the online form

6. Attachments for panelized systems, designed by the specialty structural engineer responsible for the cladding panel design, may inadvertently do which of the following?
 - a. Deliver moments or otherwise load the primary structure unexpectedly
 - b. Resolve horizontal and vertical kicker loads to lightweight roof elements that are not designed for the kicker loads
 - c. Apply loads to the bottom flange of the spandrel
 - d. All of the above

7. True or False: Aluminum mullions expand at a rate of 4 or 5 times the equivalent expansion of the steel framing.
 - a. True
 - b. False

8. Which statement about aluminum curtain wall systems is true:
 - a. The deflection limits are typically more stringent than brick veneer systems.
 - b. Out-of-plane deflection limits are always limited to $L/175$, even for very tall assemblies.
 - c. Out-of-plane deflection is typically limited to a maximum of $3/4$ in.
 - d. None of the above

9. Select the true statement about curtain wall system anchors:
 - a. Moveable anchors support both wind and gravity loads.
 - b. Fixed anchors resist forces in any direction.
 - c. Fixed anchors do not require field adjustability.
 - d. Moveable and fixed anchors can be used interchangeably.

10. True or False: Façade joints are not building components and therefore do not need to be explicitly designed.
 - a. True
 - b. False

