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## NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q64-Q69):

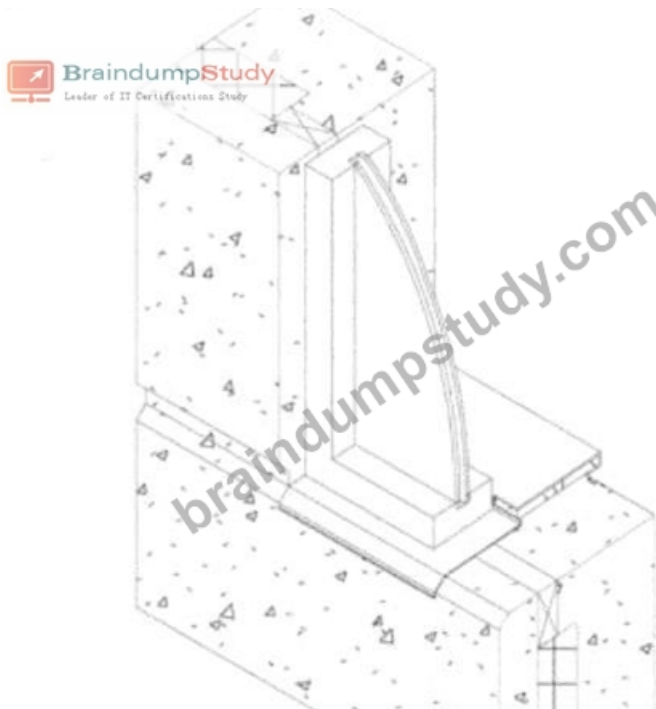
### NEW QUESTION # 64

| Material                        | Unit | Cost     | Quantity | Total         |
|---------------------------------|------|----------|----------|---------------|
| Architectural Precast Panels    | SF   | \$ 35.00 | 5500     | \$ 192,500.00 |
| Alumuninum Storefront Windows   | SF   | \$ 55.00 | 1200     | \$ 66,000.00  |
| Prefinished Metal Sill Flashing | LF   | \$ 10.00 | 120      | \$ 1,200.00   |
| Sealant                         | LF   | \$ 2.00  |          |               |

Refer to the exhibit.

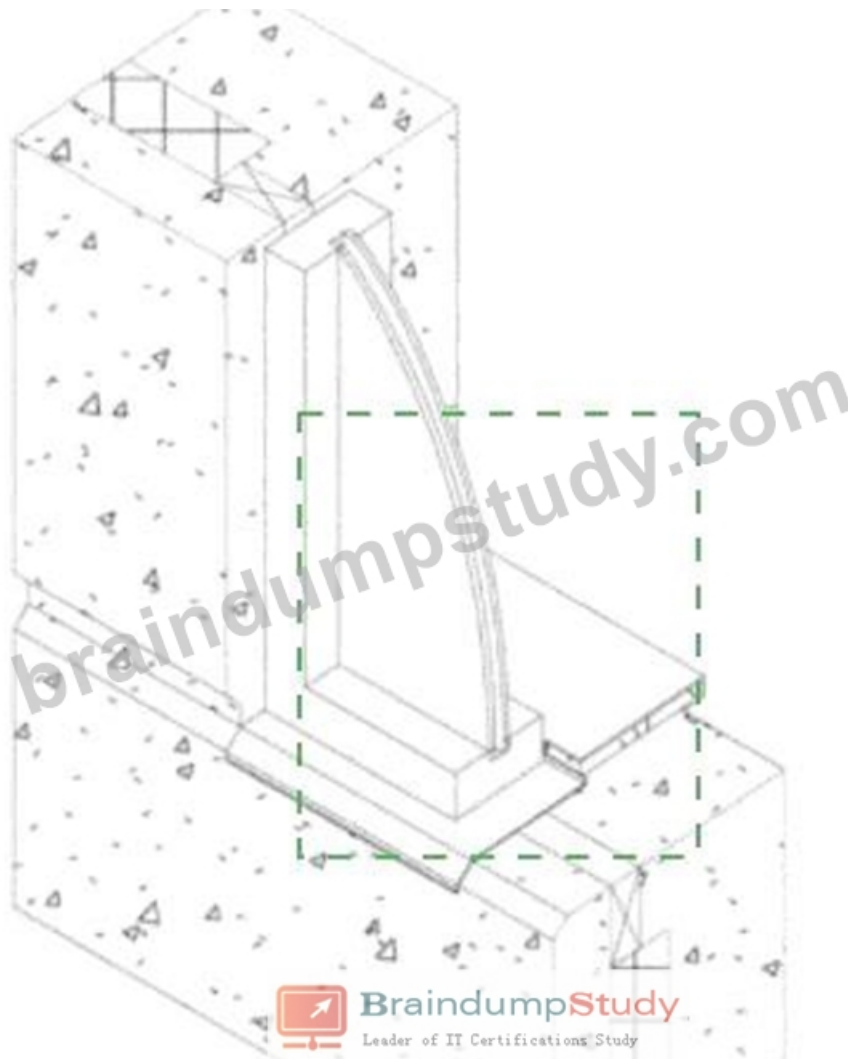
An architect reviews the construction manager's construction estimate for a typical precast wall system with aluminum storefront windows.

Click on the component in the axonometric detail that is missing from the system estimate.

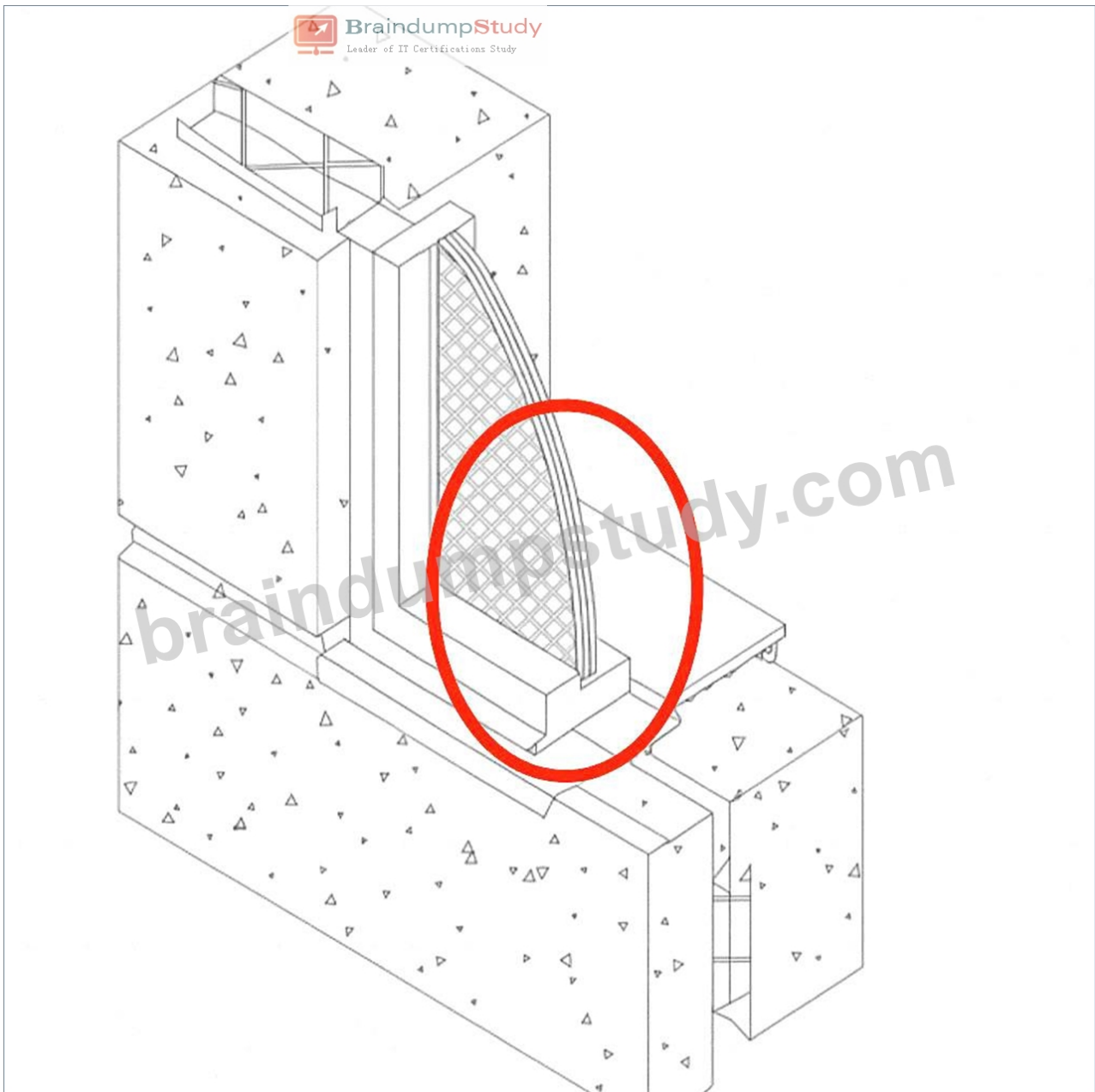


**Answer:**

Explanation:



Explanation:



### 1. Reviewing the Construction Estimate

The listed components are:

- \* Architectural Precast Panels - exterior cladding
- \* Aluminum Storefront Windows - glazing system
- \* Prefinished Metal Sill Flashing - weatherproofing at sill
- \* Sealant - for joints between components

No line item appears for thermal insulation.

### 2. Identifying the Missing Element in the Axonometric Detail

Looking at the drawing:

- \* The detail shows precast concrete panel cladding outside.
- \* A storefront frame and glazing in the opening.
- \* There is a hatched layer behind the precast in the stud cavity area - this represents continuous insulation.
- \* The insulation is a required component for the wall to meet energy code R-value/U-factor requirements (per IECC or ASHRAE 90.1).

### 3. Why This is Critical

- \* Insulation is essential for thermal performance, occupant comfort, and energy efficiency.
- \* Omitting it from the estimate could cause:
  - \* Noncompliance with code.
  - \* Incomplete cost budgeting.
  - \* Change orders during construction.
- \* In ARE 5.0 PDD, architects must check that all components of an assembly are represented in the cost estimate.

#### 4. References

- \* NCARB ARE 5.0 Handbook - PDD Content Area 3: Integration of Building Materials & Systems
- \* Architectural Graphic Standards - Precast wall sections with insulation
- \* Building Construction Illustrated (Ching) - Continuous insulation in wall assemblies
- \* Energy Code References: IECC Table C402.1.3 for minimum continuous insulation requirements in exterior walls

#### NEW QUESTION # 65

A family-owned apple farm in the Upper Midwest is taking advantage of a change in the local zoning code that added a new Agri-Tourism class in the existing farm zone. This allows the Owner to build a new facility on their existing site. The building will be open to the public and include a brewery, distillery, tap room, and market. The architect is ready to submit the drawings to the Owner for the 50% construction documents review.

To accommodate a compressed construction schedule, the Owner will be utilizing a design-build process. The Contractor has submitted the Pre-Engineered Metal Building (PEMB) shop drawings to the Architect for review, due to the lead time on this critical path item. Once construction begins, farming operations must be able to continue uninterrupted.

Key project information includes:

- \* Brewing and distilling will operate year-round.
- \* Brewery will initially include four fermenting tanks. Owner has requested space for at least two additional tanks. Potential expansion will be based on future sales.
- \* Distillery will produce 16% alcohol, which is classified as a flammable liquid. Fire separations are required.
- \* Tap Room is designed with seating for 300 people, not including exterior patio seating. It will have views to the working orchards and the historic buildings on site.
- \* Tap Room is scheduled to be open from August through November. Owner would like options to extend operating dates based on popularity.
- \* The Market area will feature local farm products and is not conditioned.
- \* Entire building will be fully sprinklered.
- \* Selected building materials are low-maintenance, as requested by the Owner, for durability and to reflect the nature of a working farm.
- \* Mechanical and electrical systems will be hung from the building structure. These loads are included in PEMB shop drawings.
- \* Public water and sewer is not available at the Project Site.
- \* Occupancy sensors are included to reduce utility costs and achieve energy conservation requirements.

The following resources are available for your reference:

- \* Architectural Drawings, including plans, elevations, sections, and schedules
- \* Consultant Drawings, including structural, HVAC, power distribution, and plumbing
- \* PEMB Shop Drawings
- \* Design and Construction Schedule
- \* Specification Excerpts, showing relevant spec sections
- \* IBC and ADA Excerpts, showing relevant code and accessibility sections
- \* After reviewing the documents, the architect discovers a coordination issue in the corridor.

Per the current energy code, the building envelope requirement for walls above grade in this climate zone is R13 + R10c.i.

What specification section must be added to the project?

- **A. Specification Section 072100: Thermal Insulation**
- B. Specification Section 072119: Foamed-In-Place Insulation
- C. Specification Section 075419: Polyvinyl-Chloride (PVC)

**Answer: A**

Explanation:

The energy code requirement R-13 + R-10 c.i. (continuous insulation) for above-grade walls necessitates adding/confirming a thermal insulation section that covers both cavity insulation (R-13) and continuous exterior insulation (R-10) (e.g., rigid boards, mineral wool boards). Section 072100-Thermal Insulation is the correct overarching specification.

072119 Foamed-In-Place is a product-specific section and not required unless using SPF as the c.i.

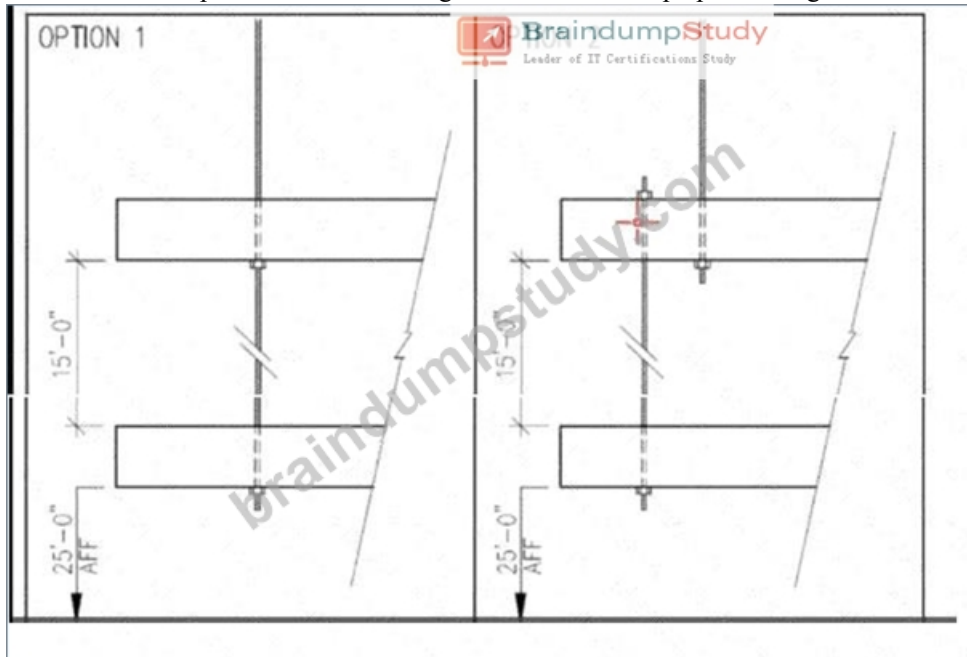
075419 PVC is roofing.

PDD Reference: IECC/ASHRAE 90.1 envelope compliance; CSI Div. 07-Thermal Insulation (072100) including rigid continuous insulation requirements

#### NEW QUESTION # 66

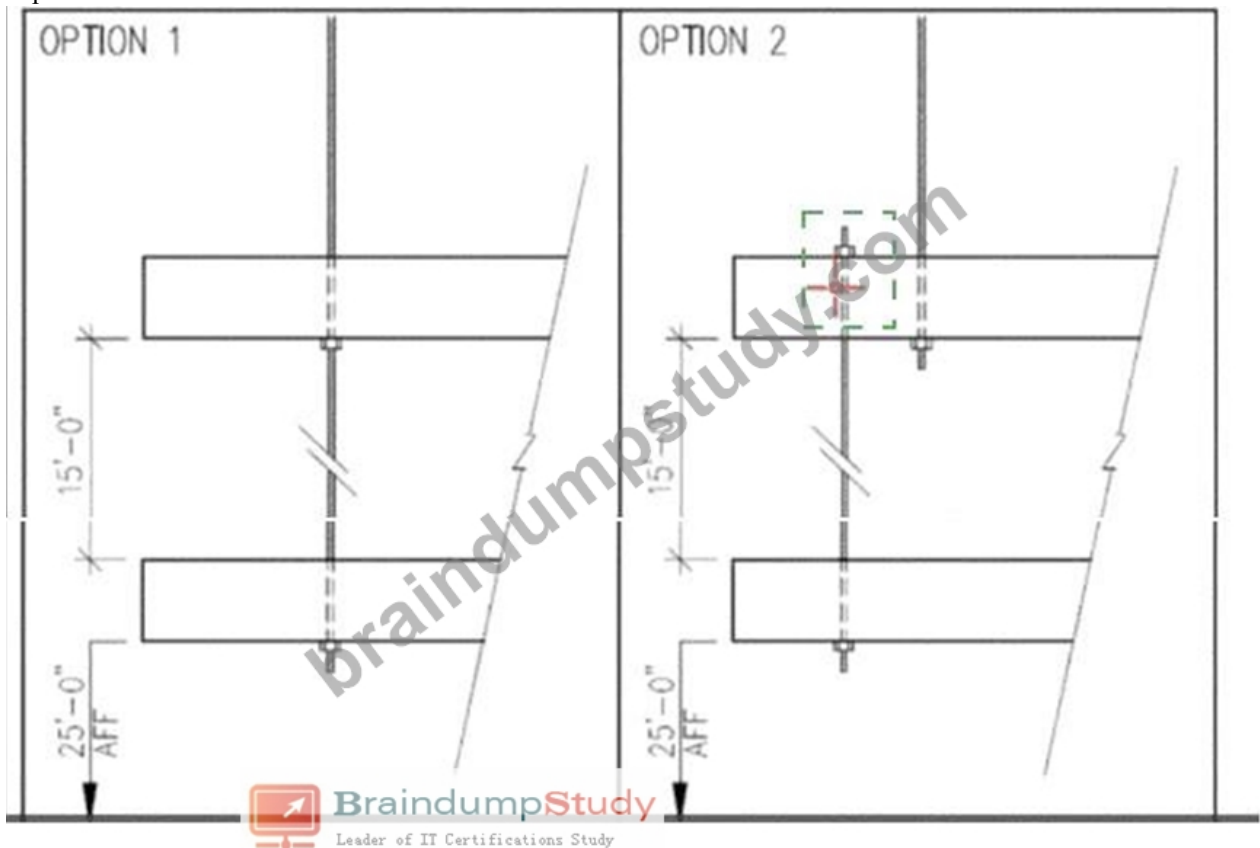
Option 1 is the originally designed connection detail for a banner hanging system of steel tube beams and threaded rods in a high

atrium space. The threaded rod connections to the structure are fabricated as part of the structure. The remaining members are field fabricated. The weights of beam and banner are identical at each level. Option 2 has been proposed to alleviate constructability issues. The structural ramifications must be evaluated before this change can be approved. Click on the nut in option 2 that will realize a greater load due to the proposed change.



**Answer:**

**Explanation:**



**Explanation:**

The upper nut at the top connection in Option 2 (the nut above the upper tube beam, highlighted at left).

By moving the threaded rod off the member's centroid in Option 2, the connection becomes eccentric. That eccentricity introduces a prying/bending moment at the rod/beam interface in addition to the vertical load from the banner and beam. In a through-rod with a nut above and below the member, the bottom nut primarily resists the direct gravity load in the concentric case (Option 1). When eccentricity is added (Option



2), rotation of the member about the rod induces additional uplift on the top nut (prying action), thereby increasing the force in the top nut relative to the concentric case.

Hence, the nut that will realize the greater load due to the proposed change is the upper nut at the top connection.


References

\* NCARB ARE 5.0 PDD Handbook - Structural Systems & Detailing: Connections and eccentric loading.

\* AISC Steel Design Guide: Prying Action in Bolted Connections (eccentric connections increase tensile force on the "prying" fastener).

\* Ching, Building Construction Illustrated - Steel connections and load paths.

### NEW QUESTION # 67



| Construction                                     | Resistance (R) |
|--|----------------|
| 1. Outside surface (15 mph wind)                 | 0.17           |
| 2. Siding, wood, 1/2 in. x 8 in. lapped (avg. R) | 0.25           |
| 3. Building paper                                | 0.06           |
| 4. Wood sheathing (1/2 in.)                      | 0.96           |
| 5. Airspace                                      | 0.97           |
| 6. Drywall, 1/2 in.                              | 0.32           |
| 7. Plaster (sand agg.) (1/2 in.)                 | 0.09           |
| 8. Inside surface (still air)                    | 0.68           |
| <b>Total resistance</b>                          | <b>4.12</b>    |
| $U = 1/R = 1/4.12 =$                             | <b>0.24</b>    |

Refer to the exhibit.

What will the overall coefficient of Heat Transmission (U-value) of the building assembly illustrated in the attached figure become if unfaced R-19 batt insulation is added in the stud spaces in the wall cavity?

- A. 0.240
- B. 0.024
- **C. 0.043**
- D. 0.052

**Answer: C**

Explanation:

From the exhibit, the existing wall has a total thermal resistance  $R = 4.12$ .

Overall heat transmission (U-value) is  $U = 1/R = 1/4.12 \approx 0.24$ , which matches the figure.

If unfaced R#19 batt insulation is added in the stud cavity, the total resistance increases by 19:

A math equations and numbers AI-generated content may be incorrect.

$$R_{\text{new}} = 4.12 + 19 = 23.12$$

$$U_{\text{new}} = \frac{1}{R_{\text{new}}} = \frac{1}{23.12} \approx 0.043$$

Thus, the overall U-value  $\approx 0.043$ .

(Note: This simplified calculation assumes full, continuous R-19 in the cavity and ignores thermal bridging through studs—consistent with typical exam problems unless otherwise noted.)



References (ARE PDD Study):

\* Architectural Graphic Standards-Thermal properties of envelope assemblies; R and U relationships.

\* Building Construction Illustrated (Ching)-Heat flow through walls and calculating U-values.

\* NCARB ARE 5.0 Handbook-PDD: Building Envelope performance and energy calculations.

### NEW QUESTION # 68

A construction detail for a window sill shows metal flashing terminating behind the exterior cladding. Which principle is being demonstrated?

- **A. Water management**

- B. Thermal bridging
- C. Air barrier continuity
- D. Structural redundancy

**Answer: A**

Explanation:

Proper flashing is critical for water shedding and moisture protection. Flashing behind the cladding allows water to drain outward-addressing ARE Objective 3.3: Evaluate construction details for moisture control.

## NEW QUESTION # 69

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