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## NCARB PDD – Questions With Complete Solutions

The role of a specifier?    Right Ans - 1. determine the responsibility for structural specs with structure engineer;  
2. coordinating standardized keynotes lists to be used on all drawings with the architect;  
3. obtain a preferred general condition document from the client through the architect;  
4. recommending everyone to use BIM;

What are included in the preliminary studies?    Right Ans - 1. allowable height;  
2. allowable area and occupant allowance;  
3. fire rating requirements;

Percolation rate is used to determine what?    Right Ans - To determine whether porous pavement should be used.

Forest Steward Council (FSC)    Right Ans - Harvesting tree without violating people's right.

Under what condition can you put storage under stair?    Right Ans - If it's protected with a minimum of 1-hour rated construction.

Where should the fire extinguisher cabinet (FEC) located?    Right Ans - 48" - 60" AFF, no more than 4" extrusion.

Tear-out, Pull-through    Right Ans - Tear-out: shear failure in a bolted connection due to tension at hole;  
Pull-through: a compression failure where bolts pull through the holes.

ANSI, ASTM    Right Ans - ANSI: American National Standard Institute;  
ASTM: American Society for Testing Material, it's used for testing materials.

Composition of cement    Right Ans - Limestone, clay, iron ore, gypsum

Subsystem estimate is used in which phases of design?    Right Ans - SD and DD. Subsystem estimates deal with a project's functional units and it enables

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## NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q25-Q30):

### NEW QUESTION # 25

Coordination of a motorized movable partition used to subdivide a gymnasium should include which of the following?

- A. Structural engineer and the electrical engineer
- B. Fire protection engineer and the electrical engineer
- C. Structural engineer and the mechanical engineer
- D. Fire protection engineer and the furniture and equipment consultant

**Answer: A**

Explanation:

A motorized movable partition used to subdivide a gymnasium requires coordination with:

The structural engineer: to ensure the partition loads are supported, especially if the system is suspended or has track supports.

The electrical engineer: to provide power for the motorized operation, controls, and safety systems.

Mechanical and fire protection engineers are typically less involved unless the partition affects HVAC zones or fire separation requirements, and furniture consultants typically do not deal with structural or electrical coordination.

References:

NCARB ARE 5.0 Review Manual, Building Systems and Coordination chapter

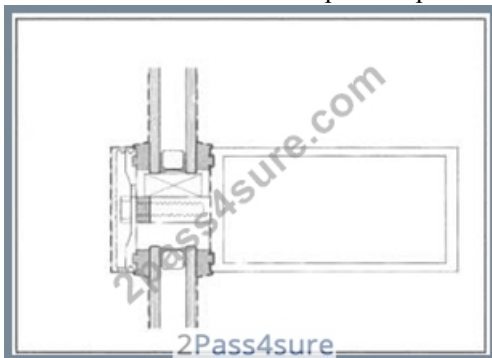
Manufacturer installation guidelines for motorized partitions

MEP coordination best practices

### NEW QUESTION # 26

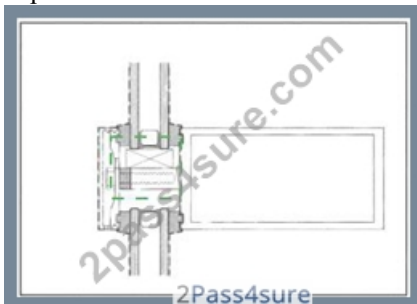
The design of a 10-story residential building features a curtain wall system on all four elevations. Due to diurnal temperature swings in the area, the curtain wall will need a thermal break to prevent the transfer of heat into the building.

Click on the thermal break in the pressure-plate mullion detail.

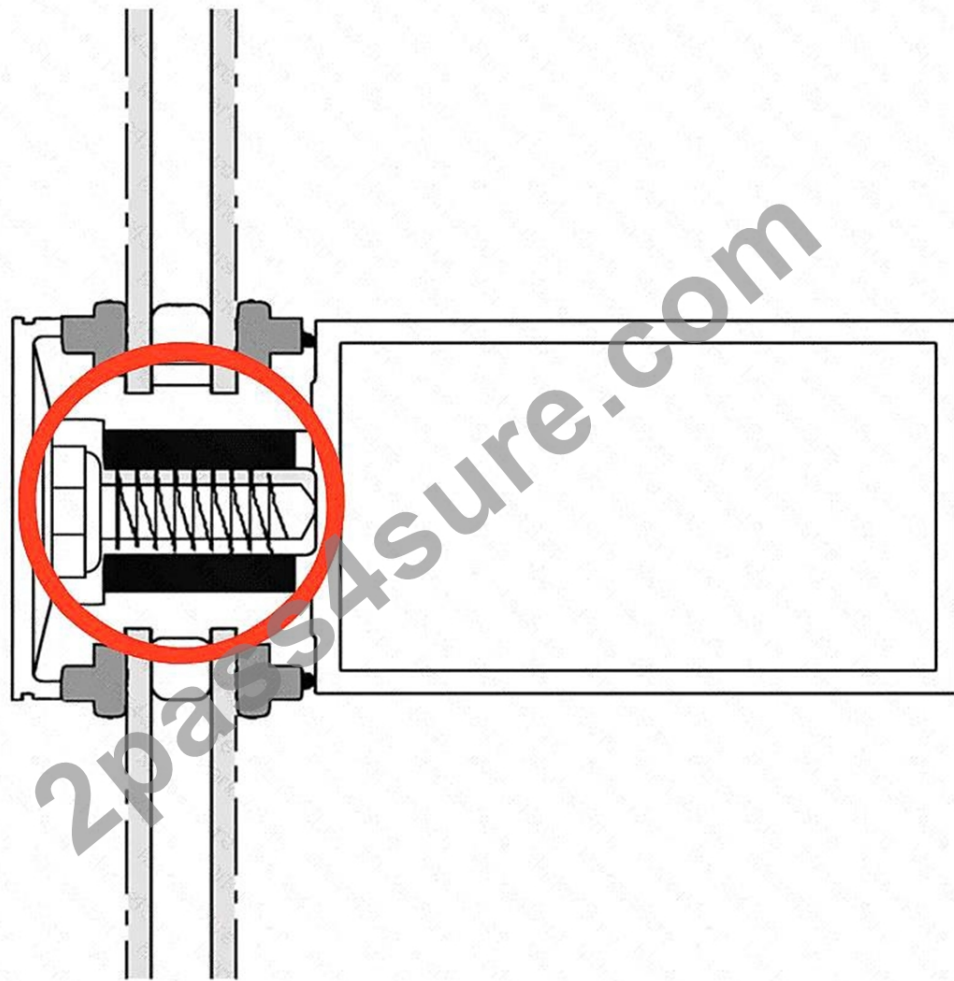


**Answer:**

Explanation:



Explanation:



In the provided pressure-plate curtain wall mullion detail, the thermal break is typically located between the interior and exterior aluminum components of the mullion to prevent conductive heat transfer.

# Thermal Break Location:

Look for the black or dark shaded strip in the middle of the mullion where the two separate metal parts meet - this strip is a non-metallic insulating material (usually polyamide or other plastic) that interrupts the metal-to-metal connection between interior and exterior.

In this image, the thermal break is located:

### In the vertical center of the mullion, between the inner and outer aluminum extrusions, where a black isolator or separator is shown (just above and below the screw/fastener).

Clicking on this narrow dark band (thermal isolator) between the inner and outer components of the curtain wall mullion would be the correct hotspot answer.

#### NEW QUESTION # 27

Fire and smoke control requirements for air ducts include which of the following? Check the three that apply.

- A. Variable-volume smoke controls
- B. Air-handler shut-down sensors
- C. Fire damper
- D. Balancing damper
- E. Smoke damper

- F. Smoke barrier

**Answer: B,C,E**

Explanation:

HVAC duct penetrations through fire/smoke rated assemblies require listed dampers and control/sensing to limit spread of flame and smoke.

Fire dampers (D) close on heat to maintain the fire-resistance rating of penetrated assemblies.

Smoke dampers (A) limit smoke migration in smoke partitions/barriers and in smoke control systems.

Air-handler shut-down sensors (F) (e.g., duct smoke detectors interfaced with the FA system) stop fans to prevent smoke distribution.

Not required: Balancing dampers (B) (for airflow only); Smoke barrier (C) (a wall/assembly requirement, not a duct device);

Variable-volume smoke controls (E) (project-specific engineering, not a base requirement).

PDD refs: IBC Ch. 7 & 9; IMC §§607 (dampers) & 606 (smoke detection in ducts); ARE 5.0 PDD-MEP/fire protection integration.

### NEW QUESTION # 28

A significant advantage of glass-fiber-reinforced concrete panels over architectural precast concrete panels is which one of the following?

- A. Increased quality control
- B. Decreased fabrication time
- C. Decreased weight
- D. Increased strength

**Answer: C**

Explanation:

Glass-fiber-reinforced concrete (GFRC) panels offer several advantages compared to architectural precast concrete panels:

GFRC panels are lighter due to their thin profile and use of fiber reinforcement, reducing structural load and facilitating installation.

Precast concrete panels are heavier and thicker.

Strength of GFRC is adequate but typically not higher than traditional precast.

Quality control and fabrication time are comparable or vary depending on the project and fabrication process.

Therefore, the significant advantage is decreased weight.

### NEW QUESTION # 29

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.

The owner decides to triple the size of the distillery component of the project to make hand sanitizer and wants to use the Tap Room spaces adjacent to the brewery and distillery for this purpose.

Which of the following must the architect reevaluate and change to accommodate this request? Check the three that apply.

- A. A-05 ROOF PLAN
- B. A-02 SITE PLAN
- C. A-01 LIFE SAFETY PLAN
- D. A-03 FLOOR PLAN
- E. A-06 EXTERIOR ELEVATIONS
- F. A-04 REFLECTED CEILING PLAN

**Answer: C,D,F**

Explanation:

Tripling the distillery and converting adjacent Tap Room areas to production introduces additional hazard (flammable liquids), changes occupancies/occupant loads, and requires updated fire separations and egress.

A-01 Life Safety Plan must be revised for occupancy classification, fire#resistance ratings between uses, travel distances, exit widths/number, and signage.

A-03 Floor Plan must change to show new room uses, rated partitions/doors, openings, and equipment footprints.

A-04 Reflected Ceiling Plan must change for new/relocated rated assemblies at ceilings (e.g., continuity of fire/smoke barriers), sprinkler/exit sign/FA device locations, and any duct-damper/access changes.

Site (B), Roof (E), and Elevations (F) are not directly driven by the interior use change.

PDD refs: IBC Chs. 3, 5-10 (occupancy, separation, egress), coordination of architectural, fire protection, and MEP on drawings (Division 01).

## NEW QUESTION # 30

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