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PDD Practice Exam 1 Questions & Answers 2024/2025

Conduction - ANSWERS- the transfer of heat from the warmer to the cooler particles of a medium or of 2 bodies in direct contact, occurring without perceptible displacement of the particles themselves

Convection - ANSWERS- the transfer of heat by the circulatory motion of the heated parts of a liquid or gas owing to a variation in density and the action of gravity. In other words, the body gives off heat to the surrounding cooler air

- a large differential between air and skin temperature and increased air motion induce more heat transmission by _____

Radiation - ANSWERS- the process by which heat energy in the form of electromagnetic waves is emitted by a warm body, transmitted through an intervening space, and absorbed by a cooler body. No air motion is required for the transfer of heat

- Light colors reflect while dark colors absorb heat; poor reflectors make good radiators

Evaporation - ANSWERS- heat is required for the _____ process of converting body moisture into a vapor

- heat loss by evaporation increases with air motion

- _____ cooling is especially beneficial when high air temperatures, humidity, and activity levels exist

Relative Humidity (RH) - ANSWERS- _____ is the ratio of the amount of water vapor actually present in the air to the max amount that the air could hold at the same temperature, expressed as a %

- The higher the _____ of a space, the lower the air temperature should be

- _____ is more critical at high temperatures than within the normal temperature range

Air Motion (V) - ANSWERS- _____ increases loss by convection and evaporation

- The cooler the moving air stream is, relative to the room air temperature, the less velocity it should have

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NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q14-Q19):

NEW QUESTION # 14

Before construction documents are complete, the owner requests a review of the timeline allowed for ASIs, RFIs, RFPs, and change orders as defined in the project manual.

Which section of the project manual is relevant to this request?

- A. AIA Document A201
- B. Section 01 35 16 Alteration Project Procedures
- C. Supplementary Conditions
- D. Section 01 26 00 Contract Modification Procedures

Answer: D

Explanation:

The owner's request for review of ASIs (Architect's Supplemental Instructions), RFIs (Requests for Information), RFPs (Requests for Proposals), and change orders relates to contract modifications.

Section 01 26 00 in the project manual typically covers Contract Modification Procedures, including timelines and processes for handling these changes.

AIA Document A201 is the general conditions but does not detail specific timelines.

Supplementary Conditions modify A201 but usually don't detail these timelines.

Section 01 35 16 is specific to alteration projects, not general contract mod procedures.

Reference:

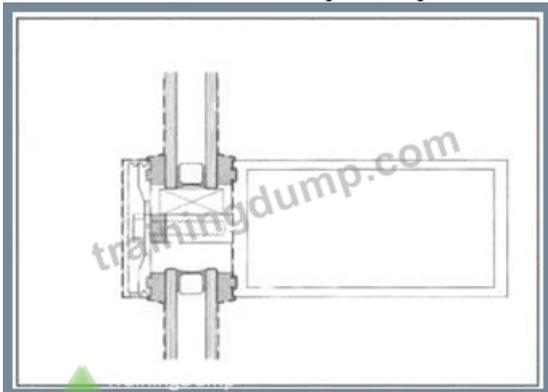
NCARB ARE 5.0 Review Manual, Project Management chapter

CSI MasterFormat and project manual organization guides

NEW QUESTION # 15

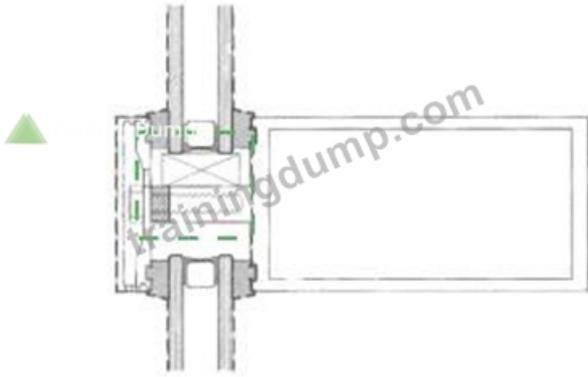
The design of a 10-story residential building features a curtain wall system on all four elevations. Due to diurnal temperature swings in the area, the curtain wall will need a thermal break to prevent the transfer of heat into the building.

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

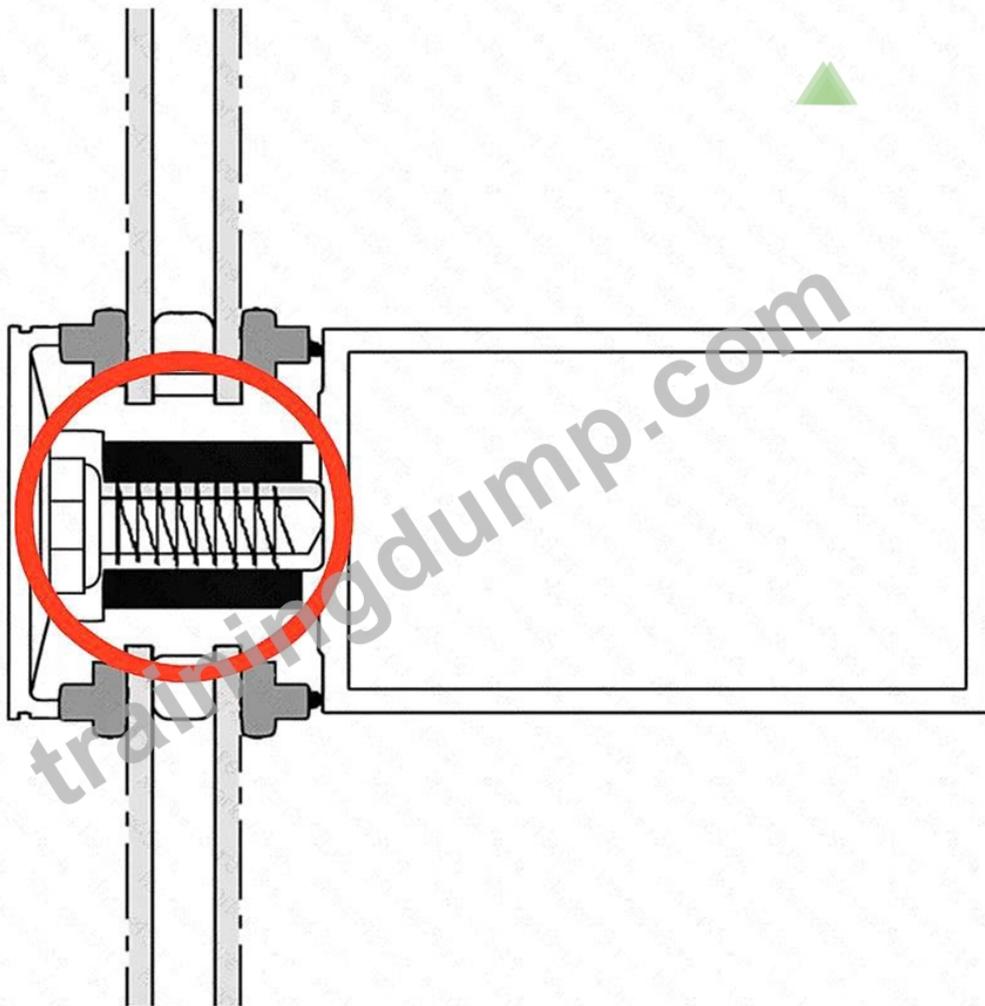


Answer:

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:

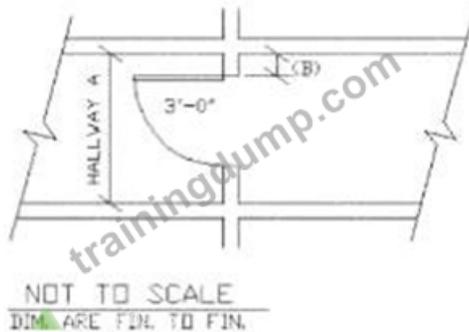
Look for the black or dark shaded strip in the middle of the mullion where the two separate metal parts meet - this strip is a non-metallic insulating material (usually polyamide or other plastic) that interrupts the metal-to-metal connection between interior and exterior.

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 # 16



Refer to the exhibit.

Which of the following is the minimum dimension of Hallway A required to meet ADA requirements, if dimension (B) is 4 inches?

- A. 3 ft 8 in
- B. 4 ft 10 in
- C. 5 ft 0 in
- D. 4 ft 4 in

Answer: A

Explanation:

This question relates to ADA (Americans with Disabilities Act) minimum clear width requirements for hallways or corridors when doors swing into the corridor, affecting the clear width.

ADA Minimum Clear Width Requirements for Corridors with Door Swing:

According to the 2010 ADA Standards for Accessible Design and the relevant NCARB ARE 5.0 PDD study materials referencing accessibility requirements:

- * The minimum clear width of a hallway or corridor without any door swing interference is 36 inches (3 ft).
- * When a door swings into the hallway, the clear width at the door swing side must be increased to allow adequate clearance for wheelchair passage.
- * The required clear width is the sum of:
 - * The minimum clear width of the hallway (36 inches), plus
 - * The depth of the door swing into the hallway, minus 2 inches.

Formula:

Clear width with door swing = 36 inches + Door swing depth - 2 inches

Given:

- * Door swing dimension (B) = 4 inches
- * Minimum clear width without door swing = 36 inches

Calculate minimum hallway width:

Clear width = 36 in + 4 in - 2 in = 38 inches (3 ft 2 in)

But notice:

The exhibit shows the door swing with a 3 ft dimension noted (likely the door width or the door clearance), and the question asks for minimum dimension of Hallway A to meet ADA, taking into account the 4 in door swing (B).

According to NCARB ARE 5.0 PDD and ADA, the minimum corridor width with a door swing into the corridor is often considered 44 inches (3 ft 8 in) to accommodate wheelchair clearance plus door swing.

This is because:

- * The standard minimum clear width of 36 inches is for an unobstructed corridor.
- * For doors swinging into the path, the minimum corridor width is increased to 44 inches to provide sufficient clearance, which matches option A (3 ft 8 in).

Supporting Reference:

- * NCARB ARE 5.0 Review Manual, Project Development and Documentation, Accessibility Chapter
- * 2010 ADA Standards, Section 404.2.4 Corridor Widths

* The rule is that when a door swings into a corridor, the corridor must be at least 44 inches wide, allowing 36 inches for passage

and an additional 8 inches for door swing and maneuvering clearance.

Summary:

* Minimum corridor width without obstruction = 36 inches (3 ft)

* With door swing (4 in), increase to 44 inches (3 ft 8 in) minimum to maintain clear passage for wheelchair users.

NEW QUESTION # 17

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 weight**
- C. Decreased fabrication time
- D. Increased strength

Answer: B

Explanation:

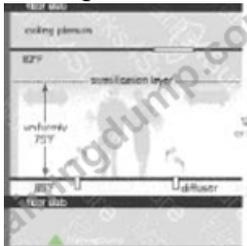
Glass-fiber-reinforced concrete (GFRC) panels offer several advantages compared to architectural precast concrete panels: GFRC panels are lighter due to their thin profile and use of fiber reinforcement, reducing structural load and facilitating installation. Precast concrete panels are heavier and thicker.

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 # 18



Refer to the exhibit.

What is an accurate description of the air distribution system shown?

- A. The system is inefficient in summer months.
- **B. Supply air is delivered at a low velocity.**
- C. Ducted supply and return air is utilized.
- D. The system prohibits individual comfort control.

Answer: B

Explanation:

The diagram shows a displacement ventilation system. In this system

Cool supply air (about 65°F) is introduced at floor level at low velocity through floor diffusers.

Warm air rises as it picks up heat from occupants/equipment and stratifies near the ceiling, where it is returned or exhausted.

This creates a stratification layer with cooler, cleaner air in the occupied zone and warmer air above.

This is efficient for comfort, air quality, and energy use in spaces #12 ft high.

Why not other options:

A: This system uses a plenum return, not ducted supply and return for both.

C: It is efficient in summer since it uses warmer supply air and reduced fan energy.

D: Individual comfort control is possible via diffuser location/adjustment.

PDD Reference: ARE 5.0 PDD "Mechanical Systems-Air distribution types," ASHRAE Fundamentals, displacement ventilation diagrams.

NEW QUESTION # 19

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