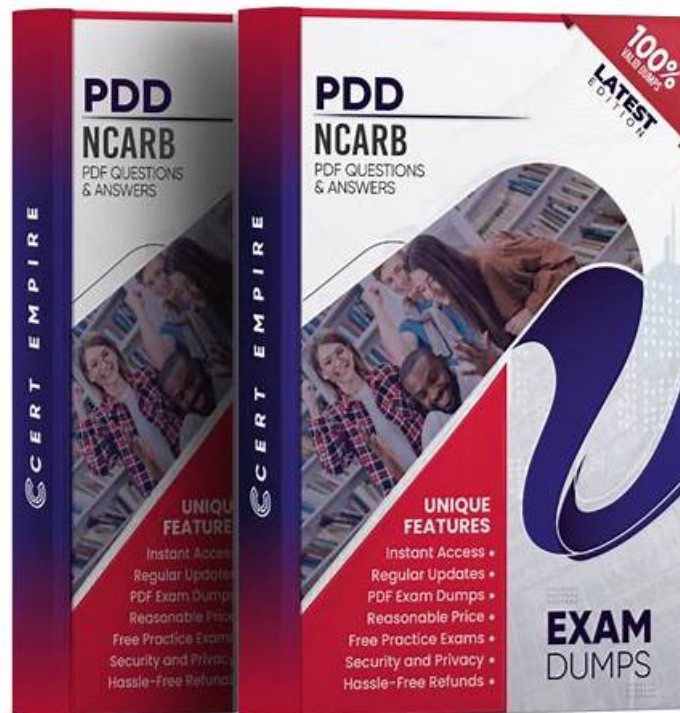


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NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q29-Q34):

NEW QUESTION # 29

Which system would most impact the structural loads in a vegetated roof design?

- A. Fire suppression system
- B. HVAC duct routing
- C. Lightning protection system
- D. Green roofing assemblies

Answer: D

Explanation:

Green roofing adds significant dead loads due to soil and water retention layers. Structural engineers must verify load-bearing capacity. This is tied to ARE Objective 3.2 on evaluating integration of building systems.

NEW QUESTION # 30

For the same moment, a glue-laminated beam would require a section modulus of what proportion relative to a sawn timber beam? (Assume F_b of the glue-laminated beam is 2,400 psi and F_b of the sawn lumber beam equals 1,200 psi.)

- A. 1/2
- B. 0
- C. 3/4
- D. The same

Answer: A

Explanation:

Comprehensive Detailed Explanation with all NCARB ARE 5.0 Project Development and Documentation (PDD) Study Guide References:

The question is about the relative section modulus (S) required for a glue-laminated beam vs. a sawn timber beam to resist the same bending moment. The formula relating bending stress (F_b), moment (M), and section modulus (S) is:

$$F_b = \frac{M}{S} \quad S = \frac{M}{F_b}$$

For the same bending moment M, the section modulus is inversely proportional to the allowable bending stress

- F_b of glue-laminated beam = 2,400 psi
- F_b of sawn timber beam = 1,200 psi

Calculate relative section modulus:

$$\frac{S_{glulam}}{S_{sawn}} = \frac{F_{b\text{ sawn}}}{F_{b\text{ glulam}}} = \frac{1,200}{2,400} = \frac{1}{2}$$

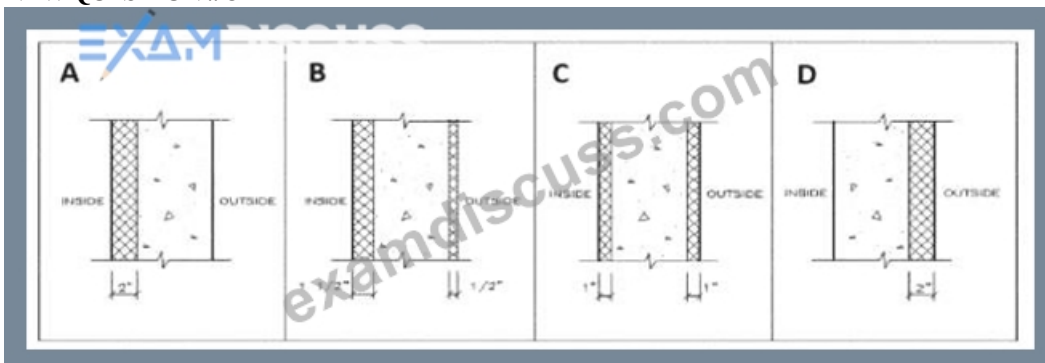
Therefore, the glue-laminated beam requires half the section modulus compared to the sawn timber beam.

Supporting Reference:

NCARB ARE 5.0 Review Manual, Structural Systems chapter

Basic bending stress and beam design equations from structural design texts

NEW QUESTION # 31



Refer to the exhibit.

The exterior cast-in-place concrete wall of a heated building is insulated with polyurethane slabs. The concrete will be warmest in the winter if the insulation is applied as shown in which of the following?

- A. C
- **B. D**
- C. B
- D. A

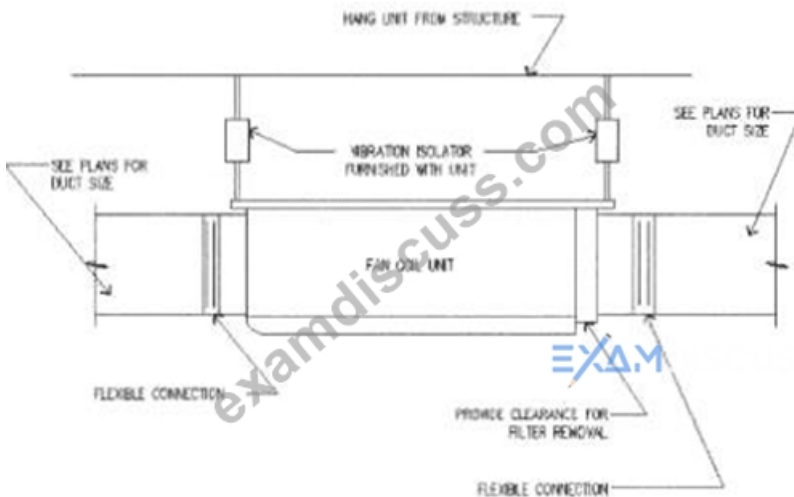
Answer: B

Explanation:

To keep the concrete warmest in winter, place the continuous insulation on the exterior so the concrete mass stays inside the thermal envelope and sees interior temperatures. This reduces heat loss, limits risk of interstitial condensation at the concrete surface, and improves thermal lag. Option D shows all polyurethane insulation on the outside of the wall; A and B place some or all insulation inside, and C splits it-both allow more winter heat loss from the concrete.

PDD references: Building envelope heat flow & thermal mass strategy; continuous insulation placement (ASHRAE Fundamentals; NCARB ARE 5.0 PDD-Envelope & Thermal/Moisture Protection, CSI Div 07).

NEW QUESTION # 32



Refer to the exhibit.

What is the purpose of the flexible connection in the fan coil shown?

- **A. To minimize sound transfer**
- B. To provide a field point of connection of the ductwork to the fan coil unit
- C. To insulate against heat transfer from the fan coil unit
- D. To transition from the fan coil unit flange to the desired duct size

Answer: A

Explanation:

Understanding the Diagram

The detail shows a fan coil unit suspended from the structure, with:

- * Vibration isolators at the hanging rods to limit mechanical vibration transfer to the structure.
- * Flexible duct connections between the fan coil unit and the rigid ductwork.

Purpose of Flexible Duct Connections

Flexible connections in HVAC duct systems are designed to:

- * Prevent transmission of vibration and sound from the mechanical equipment (fan coil unit) into the rigid ductwork and building.
- * Compensate for small misalignments between the ductwork and equipment.
- * Accommodate minor thermal expansion/contraction movements.

Key Function in This Context:

Fan coil units contain fans that create vibration and noise. Without a flexible connection, this vibration would travel directly through the rigid ductwork into occupied spaces, increasing noise levels.

Why Other Options Are Incorrect:

- * A. To provide a field point of connection - While the flexible connector does connect ducts, its purpose is not just convenience; it is specifically for vibration/sound isolation.

- * B. To insulate against heat transfer - This is done with thermal duct insulation, not flexible connectors.
- * D. To transition from flange to desired duct size - Transitions are made using sheet metal fittings, not flexible connectors.

NCARB ARE 5.0 PDD Study Guide References:

* Content Area: Integration of Building Materials & Systems - Mechanical Systems and Acoustics

* Sources:

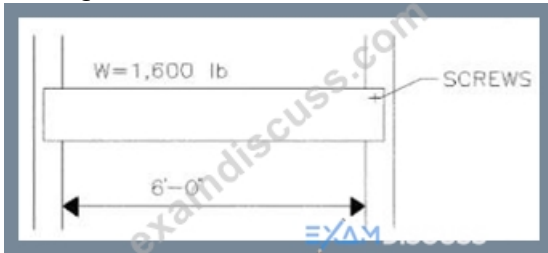
* Mechanical and Electrical Equipment for Buildings (MEEB) - Vibration Control in Mechanical Systems

* Architectural Graphic Standards - Flexible Duct Connections for Noise and Vibration Isolation

* ASHRAE Handbook - HVAC Applications, Chapter on Sound and Vibration Control Key Point:

Flexible connectors in ductwork break the direct mechanical path for vibration and sound, reducing noise transfer from fans to occupied areas.

NEW QUESTION # 33



Refer to the exhibit.

Using metal stud framing, how many screws per stud are needed to connect the header if each screw is rated at 440 pounds for shear and 215 pounds for tension?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: A

Explanation:

Given:

Load (W) = 1,600 lb

Screw shear capacity = 440 lb per screw

Screw tension capacity = 215 lb per screw

Assuming worst case is shear capacity (usually governs):

Calculate screws required:

$$\text{Number of screws} = \frac{\text{Load}}{\text{Screw capacity}} = \frac{1,600}{440} \approx 3.64$$

Since you cannot have a fraction of a screw, round up to the next whole number, **4 screws**.

However, tension capacity is lower at 215 lb, so check if tension governs:

$$\frac{1,600}{215} \approx 7.44$$

If tension applies, 8 screws needed.

If tension applies, 8 screws needed.

But typically, shear governs for header connection; since question likely focuses on shear, 4 screws would be safest.

If question expects minimal number to resist both, 8 screws would be correct.

Final answer: 4 screws (Option C) if shear governs; if considering tension also, 8 screws (Option D).

Since the question is ambiguous, and shear usually controls, C. 4 screws is appropriate.

Reference:

NCARB ARE 5.0 Review Manual, Structural Systems chapter

Metal stud framing connection design standards

NEW QUESTION # 34

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