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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 (Q52-Q57):

NEW QUESTION # 52

A wall separating a distillery and a taproom must meet which of the following requirements based on a flammable liquid presence?

- A. 2-hour fire wall
- B. 3-hour fire barrier
- C. 1-hour fire barrier
- D. 1-hour smoke partition

Answer: A

Explanation:

Per IBC Chapter 6 and Chapter 7, distillation involving flammable liquids requires a 2-hour fire-resistance- rated fire wall between H-occupancy (hazardous) and assembly use (A-2). Objective 1.3 of the PDD Handbook emphasizes understanding of life safety code implications in space planning.

NEW QUESTION # 53

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

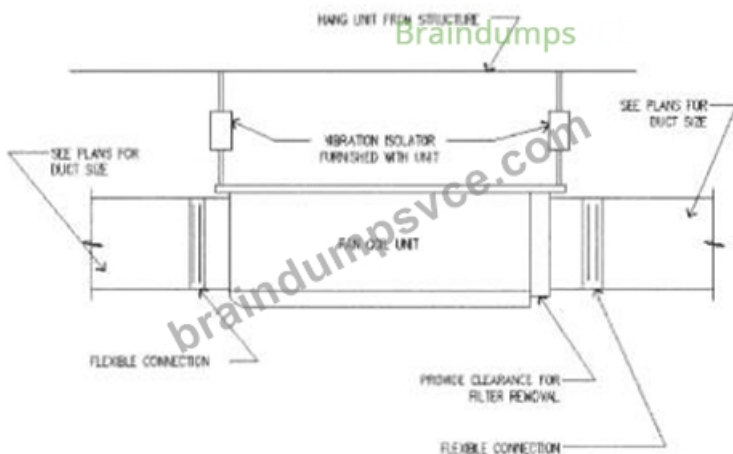
- A. Lightning protection system
- B. Green roofing assemblies
- C. HVAC duct routing
- D. Fire suppression system

Answer: B

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 # 54



Refer to the exhibit.

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

- A. To provide a field point of connection of the ductwork to the fan coil unit
- B. To minimize sound transfer
- 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: B

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 # 55

In a brick veneer wall, what is the primary purpose of the 2-inch air space between the back of the brick and the sheathing?

- A. Provide space for roof drain piping
- B. To meet the minimum R-value
- C. Allow for differential movement
- **D. Minimize mortar bridging**

Answer: D

Explanation:

Purpose of the Air Space in Brick Veneer Walls

In a typical brick veneer cavity wall assembly, there is an air space between the back side of the brick and the sheathing (or water-resistant barrier) of the structural wall. This space is typically 1 to 2 inches wide and serves several critical functions:

- * Moisture Drainage and Ventilation
 - * Rainwater can penetrate brick veneer through joints and cracks.
 - * The air cavity allows water to drain down the back of the veneer to flashing and out through weep holes.
 - * It also provides ventilation to help dry out the wall assembly.
- * Minimizing Mortar Bridging
 - * During construction, mortar can drop down into the cavity from bricklaying.
 - * If mortar bridges across to the sheathing, it can create a path for moisture to move into the structure.
 - * The 2-inch cavity helps reduce the chance that mortar droppings will fully bridge the gap, ensuring the drainage plane stays functional.

Why Other Options Are Incorrect:

- * A. To meet the minimum R-value - The air space in brick veneer is not designed as insulation; its thermal benefit is minimal compared to continuous insulation layers.
- * B. Allow for differential movement - Brick veneer differential movement is accommodated by wall ties and control joints, not by the air cavity.
- * C. Provide space for roof drain piping - Roof drainage piping is routed separately and is not part of the brick veneer cavity design.

NCARB ARE 5.0 PDD Study Guide References:

- * Content Area: Building Envelope Systems - Masonry Wall Assemblies
- * Source References:
 - * Building Construction Illustrated (Ching) - Brick Veneer Wall Sections and Cavity Function

* Architectural Graphic Standards - Masonry Veneer Construction Details

* BIA (Brick Industry Association) Technical Notes 21 & 21A - Cavity Wall Design and Construction Key Principle:

A 2-inch air cavity behind brick veneer is primarily to ensure proper drainage and to minimize mortar bridging, which would otherwise allow moisture intrusion into the building.

NEW QUESTION # 56

Which species of wood is often used as a substitute for more costly species because of its hardness, grain pattern, and ability to take paint and stain well?

- A. Cypress
- B. Red oak
- C. Poplar
- D. Redwood

Answer: C

Explanation:

Poplar is a hardwood that is relatively inexpensive compared to species like maple, cherry, or oak. It has:

Good hardness and uniform grain

Takes paint and stain well (although stain may require pre-treatment for even color) Often used as a cost-effective substitute for higher-priced hardwoods in furniture, millwork, and trim.

Why not others:

Red oak: Hard and attractive but more costly.

Cypress: Softwood valued for decay resistance, not typically a hardwood substitute.

Redwood: Softwood, expensive, used for exterior decay resistance.

PDD Reference: ARE 5.0 PDD "Materials-Wood species characteristics," CSI Div. 06 Wood & Plastics, Architectural Woodwork Institute (AWI) standards.

NEW QUESTION # 57

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