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NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q18-Q23):

NEW QUESTION # 18

Which of the following metals is best suited for embedments in concrete or masonry?

- A. Aluminum
- B. Bronze
- C. Cast iron
- D. Stainless steel

Answer: D

Explanation:

When metals are embedded in concrete or masonry, corrosion resistance is a critical factor due to the alkaline environment and potential moisture exposure.

Stainless steel has excellent corrosion resistance, making it ideal for embedments in concrete or masonry where long-term durability is required.

Bronze is corrosion-resistant but typically used for decorative or hardware applications, not structural embedments.

Aluminum corrodes readily in alkaline concrete environments and is not suitable for embedments without protective coatings.

Cast iron is susceptible to rust and corrosion in moist conditions and is generally avoided for embedded components. Thus, stainless steel is best suited for durability and corrosion resistance in concrete/masonry embedments.

References:

NCARB ARE 5.0 Review Manual, Materials and Assemblies chapter

Building construction materials standards (ACI, ASTM) on metals in concrete Corrosion resistance guides for metals embedded in concrete

NEW QUESTION # 19

Which of the following is an advantage of using a glycol-cooled air conditioning unit for a computer room?

- A. It reduces the amount of heat exhausted from the computer room.
- B. It allows for a greater distance from the computer room to the outside unit.
- C. Glycol is cheaper than water for cooling.
- D. Glycol units are a sustainable cooling solution.

Answer: B

Explanation:

Glycol-cooled air conditioning systems use a glycol-water mixture as a secondary coolant instead of plain water. Glycol has lower freezing point and better heat transfer properties in certain conditions.

Advantages include:

Longer piping runs without freezing risk, allowing the chiller or cooling unit to be located further away from the computer room, useful for flexible building layouts.

Glycol prevents freezing in cold climates or exposed pipes.

It does not inherently reduce heat exhausted or is necessarily more sustainable than water cooling.

Glycol is generally more expensive than water.

Therefore, the primary advantage is the ability to locate the cooling unit farther from the space being cooled.

References:

NCARB ARE 5.0 Review Manual, Mechanical Systems chapter

HVAC system design manuals

ASHRAE guidelines on computer room cooling and chilled water systems

NEW QUESTION # 20

What is the primary purpose of shop drawings?

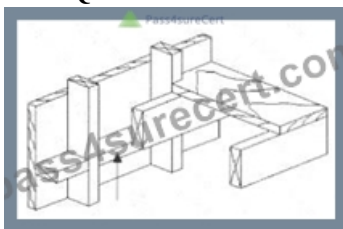
- A. Define design intent
- B. Illustrate fabrication and installation methods
- C. Document record drawings
- D. Replace construction drawings

Answer: B

Explanation:

Shop drawings show how components are to be fabricated or installed by the contractor. They do not redefine the design intent but elaborate on it. Refer to Objective 3.4: Evaluate submittals.

NEW QUESTION # 21



Refer to the exhibit.

What is the horizontal member indicated by the arrow in the wall-floor assembly?

- A. Lateral shear plate
- **B. Ledger**
- C. Girt
- D. Fire block

Answer: B

Explanation:

The arrow in the wall-floor assembly indicates a horizontal structural member attached to a wall, used to support the end of a floor joist. This is called a ledger.

Ledger: Typically a dimensional lumber or engineered wood member fastened to a wall that supports floor framing members (joists).

Fire block: Installed to limit fire spread in concealed spaces-often mid-wall or mid-stud cavity, not in this floor-to-wall position.

Girt: A horizontal framing member in a wall, usually in steel-frame or post-frame construction, not in conventional wood framing for floors.

Lateral shear plate: A metal plate for shear transfer, not applicable here.

PDD References:

ARE 5.0 PDD "Structural Systems-Wood framing details"

IBC §2308.4-Floor framing requirements

AWC (American Wood Council) "Wood Frame Construction Manual" Ledger attachment details

NEW QUESTION # 22

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

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

Answer: A,C,F

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 # 23

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