

NCARB PDD Questions - Easy way to Prepare for Exam

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 (Q48-Q53):

NEW QUESTION # 48

Proposed trees along a residential street next to a new development site should first be selected based on which of the following?

- **A. Adaptability to local climate and soil conditions**
- B. Provision of natural habitation for local wildlife
- C. Seasonal foliage, color, and scale
- D. Dense root systems and wind resistance

Answer: A

Explanation:

Selecting trees for residential streets near a new development should prioritize:

Adaptability to local climate and soil conditions to ensure healthy growth and longevity.

While seasonal foliage, color, scale, and wildlife habitat are important, they are secondary to ensuring the tree can survive and thrive in the environment.

Dense root systems and wind resistance are considerations but often come after adaptability is confirmed.

Reference:

NCARB ARE 5.0 Review Manual, Site Design and Environmental Systems chapter Landscape architecture best practices and local planting guides

NEW QUESTION # 49

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.

Hardware Sets

Set: 1.0

1 Continuous Hinge	FM300	629	MR
1 Narrow Style Push Pad	ED4800 K157ET w/ C M110	629	RU
1 Rim Cylinder	- to match Owner's key system	625	BE
1 Pull	RM201 Mtg-Type 12X4-D	US32	RO
1 Conc. Overhead Stop	6-X36	629	RF
1 Surface Closer	17500 x mounting plate to suit application	689	NO
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Weatherstrip	- integral within construction of door and frame assembly	00	
1 Gasketing	29326CN8 x TK3P8	PE	

Set: 2.0

1 Continuous Hinge	FM300	629	MR
1 Push Pull	RM251 Mtg-Type 12X4-D Mtg-Type 12X4-D	US32	RO
1 Conc. Overhead Stop	6-X36	629	RF
1 Surface Closer	17500 x mounting plate to suit application	689	NO

Set: 3.0

3 Hinge, Full Mortise	TA2714 / TA4714	US26D	MR
1 Entrance Lock	CL3551 N2D CT50	625	RU
1 Core	- to match Owner's key system	625	BE
1 Wall Stop	409	US32D	RO
3 Silencer	608 / 609		RO
1 Coat Hook	796	US26D	RO

Set: 4.0

3 Hinge, Full Mortise	TA2714 / TA4714	US26D	MR
1 Pull Plate	BF 111x708	US32D	RO
1 Push Plate	70F	US32D	RO
1 Surface Closer	8501 - pull side mount	689	NO
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Wall Stop	406	US32D	RO
3 Silencer	608 / 609		RO

Refer to the exhibit.

Which hardware set should be specified for door number 27?

- A. Hardware set 2.0
- B. Hardware set 1.0
- C. Hardware set 3.0
- D. Hardware set 4.0

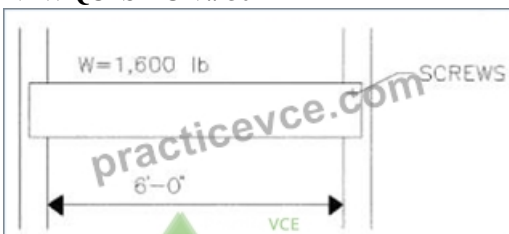
Answer: C

Explanation:

Hardware Set 3.0 includes: three full-mortise hinges, an entrance/privacy lock, matching core, wall stop, silencers, and a coat hook. That combination is the typical specification for a single-occupant toilet room or similar private room opening off a corridor-privacy latch (not an exit device), door control, and a coat hook inside. Sets 1.0 and 4.0 are push/pull or exit-device packages (for egress/assembly or non-latching doors), and Set 2.0 is a basic push-pull set without a latch-none of which meet the corridor toilet-room function.

PDD refs: Division 08 door hardware scheduling; coordination of door sets with room function and code egress/privacy requirements.

NEW QUESTION # 50



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.



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

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 # 51

In an air-conditioned space in a tropical environment, roof insulation is being applied above a structural deck.

In order to avoid problems related to condensation, where should the vapor barrier be installed?

- A. Below the structural deck
- B. Below the ceiling
- C. Above the insulation
- D. Below the insulation

Answer: D

Explanation:

In a tropical climate, the interior is cooler and drier than the hot, humid exterior. The vapor drive is from outside to inside, so the vapor retarder must be installed on the warm/moist side of the assembly, which is below the insulation when the insulation is above the roof deck. This prevents moist exterior air from reaching cooler surfaces inside the insulation where condensation could occur.

PDD Reference: Psychrometrics & vapor drive principles, PDD "Thermal & Moisture Protection-Placement of vapor barriers," ASHRAE Handbook recommendations.

NEW QUESTION # 52

Which of the following methods of mortar joint finishing has the greatest weatherability?

- A. Weathered
- B. Extruded
- C. Concave
- D. Raked

Answer: C

Explanation:

Mortar joint finishes impact water resistance and weatherability.

Concave joint is the most weather-resistant. The joint is compressed and curved inward, forming a dense, compact surface that sheds water effectively.

Weathered joint slopes outward but is less compact than concave.

Raked joint is recessed and can hold water, less weather-resistant.

Extruded joint protrudes and tends to trap water and dirt.

Therefore, concave joints provide the best weather protection.

Reference:

NCARB ARE 5.0 Review Manual, Materials and Assemblies chapter

Masonry construction standards and detailing guides

NEW QUESTION # 53

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