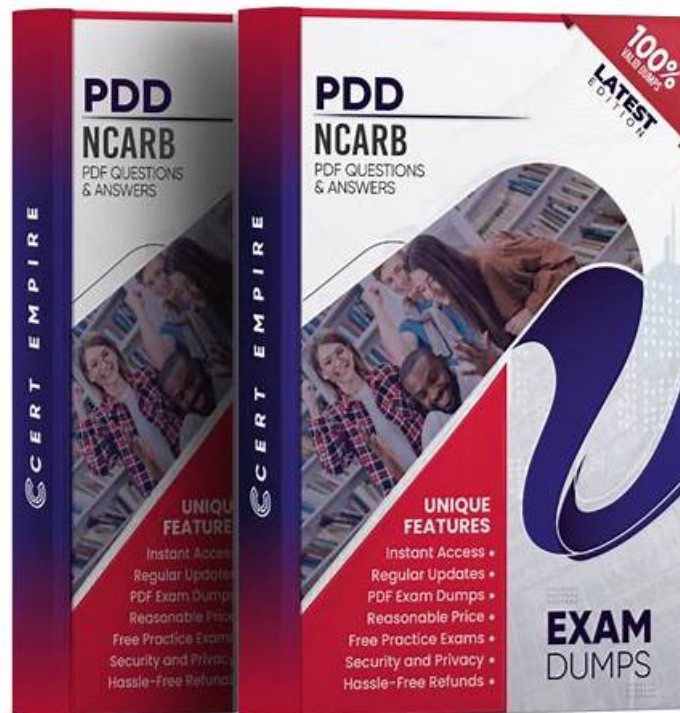


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NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q44-Q49):

NEW QUESTION # 44

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.

The owner has revised the pro forma and directed the architect to add two additional Type B units to the design. A code review for the project indicates that the building occupancy is R-2.

What should the architect do to meet the owner's required revisions?

- A. Change the 2nd Floor Unit 1BR-SW into two studios and change the 10th Floor Unit 2BR-E to two 1- bedroom units.
- B. Change the 10th Floor Unit 2BR-E to two 1-bedroom units and change the 7th Floor Unit 2BR-E to two 1-bedroom units.
- C. Change the 5th Floor Unit 2BR-E to two 1-bedroom units and change the 2nd Floor Laundry to a 1- bedroom unit.

Answer: B

Explanation:

Converting two existing 2-bedroom units into two 1-bedroom units each yields two additional dwelling units total, while keeping every unit on an exterior wall for light/vent and maintaining typical plumbing stacks /egress.

A introduces two studios (size/layout risk) and alters a lower-floor stack; more coordination risk.

C converts a Laundry (likely interior and serving the building) into a unit-problematic for light/ventilation and building services.

PDD refs: IBC R-2 unit planning, light/ventilation, egress; planning & stacking strategies to minimize rework.

NEW QUESTION # 45

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

Answer: A

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 # 46



Refer to the exhibit.

For a plywood panel carrying the grade stamp shown, which of the following is the maximum recommended span for use in a floor system?

- A. 15 in
- B. 32 in
- C. 108 in
- **D. 16 in**

Answer: D

Explanation:

1. Understanding the APA Grade Stamp

The stamp in the exhibit reads:

- * APA RATED SHEATHING 32/16
- * 15/32 INCH (thickness)
- * SIZED FOR SPACING
- * EXPOSURE 1 (can handle temporary moisture exposure)

2. Meaning of "32/16"

The numbers 32/16 are the span ratings for the panel:

- * 32 inches = maximum recommended span for roof sheathing (when applied perpendicular to supports).
- * 16 inches = maximum recommended span for floor sheathing (when applied perpendicular to supports).

These ratings are established by APA (The Engineered Wood Association) based on panel thickness, grade, and allowable loads/deflection limits.

3. Applying to the Question

The question asks specifically for maximum recommended span for use in a floor system.

From the stamp:

- * Floor span rating = 16 inches
- * Therefore, the correct answer is 16 in.

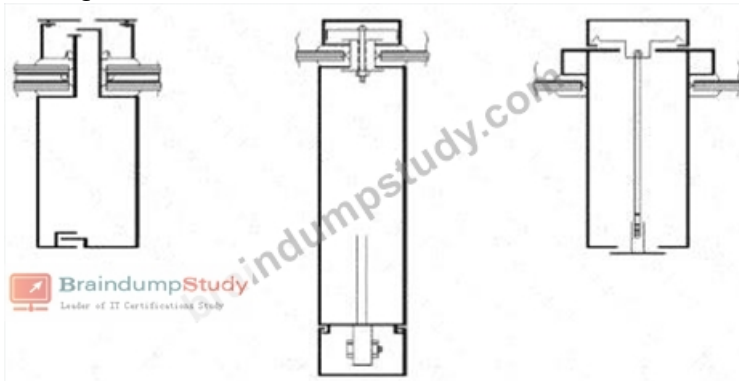
4. Why Other Options Are Incorrect:

- * A. 15 in - Not the value given; 16 in is the rating.
- * C. 32 in - This is for roof applications, not floor systems.
- * D. 108 in - Not related to APA span ratings; possibly confused with the certification number "NBR-108."

5. NCARB ARE 5.0 PDD Study Guide References:

- * Content Area: Building Materials & Assemblies - Wood Products
- * Reference Sources:
 - * APA - The Engineered Wood Association: Panel Span Ratings Guide
 - * Building Construction Illustrated (Ching) - Plywood and OSB Panel Markings
 - * IBC Chapter 23 - Wood span and application requirements

NEW QUESTION # 47



Refer to the exhibit.

In the curtain wall systems shown, each of the aluminum mullions is designed to allow for which of the following?

- A. Vertical expansion
- B. Surface tension
- C. Horizontal expansion
- D. Capillary action

Answer: A

Explanation:

1. Understanding the Diagram

The three sections in the exhibit show different curtain wall mullion profiles (vertical and horizontal sections) designed for glazing systems.

In curtain wall design, aluminum mullions must accommodate:

- * Structural loads (wind, dead load of glass, seismic)
- * Thermal expansion and contraction of metal members
- * Building movement (floor-to-floor deflection, live load, creep, seismic drift)

2. Why Vertical Expansion is Relevant

* The vertical mullions in curtain wall systems span multiple floors and are typically anchored at one end and allowed to float/slip at the other end to accommodate vertical building movement.

* Movement can be due to:

- * Thermal expansion of aluminum mullions (aluminum has a high coefficient of thermal expansion).
- * Inter-story drift from lateral loads.
- * Floor live-load deflection.

* The mullion joinery and connections at the anchors are specifically detailed to allow vertical sliding while maintaining weather seals.

3. Why Other Options Are Incorrect

* A. Capillary action - This refers to water movement in small spaces; curtain walls are designed with weeps and pressure-equalized cavities to prevent it, but that is not what the mullion's slip connections are for.

* B. Horizontal expansion - Horizontal movement is generally handled at horizontal mullions

/transoms or gasket joints, not the vertical mullion extrusion as shown.

* D. Surface tension - Refers to water behavior, not a structural or thermal movement design issue.

4. NCARB ARE 5.0 PDD Study Guide References

* Content Area: Building Envelope Systems - Curtain Wall Detailing

* Key Sources:

* Architectural Graphic Standards - Curtain wall movement joints

* Building Construction Illustrated (Ching) - Curtain wall expansion and anchoring details

* AAMA (American Architectural Manufacturers Association) Curtain Wall Design Guide - Section on thermal movement and inter-story drift

NEW QUESTION # 48

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

- A. 3/4

- B. The same
- C. 1/2
- D. 0

Answer: C

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 (Fb), moment (M), and section modulus (S) is:

$$Fb = \frac{M}{S} \Rightarrow S = \frac{M}{Fb}$$

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:

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

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 # 49

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