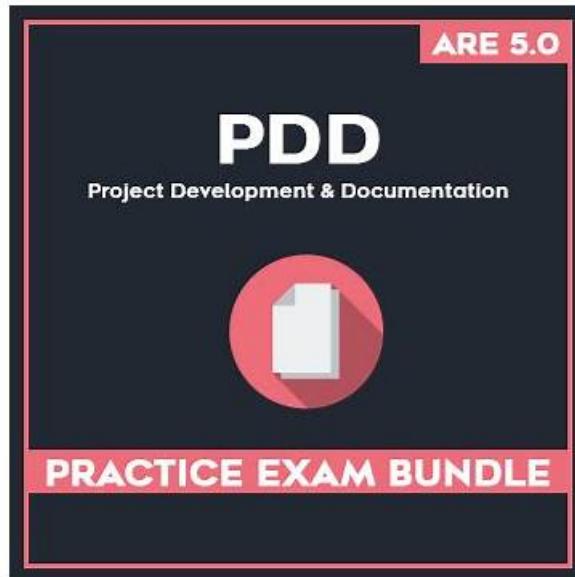


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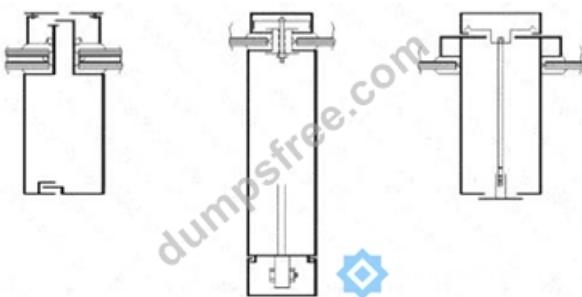
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## NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q34-Q39):

NEW QUESTION # 34



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

**Answer: B**

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 # 35

The walls of typical light wood-frame buildings can most economically be made resistive to lateral shear forces, without major alteration to the existing structure, through the use of which one of the following?

- A. Exterior board sheathing run horizontally
- B. Moment-resistive connections
- C. Wood gusset plates
- D. **Plywood sheathing**

**Answer: D**

Explanation:

For light wood-frame buildings, the most economical way to develop lateral shear capacity—often without major structural alteration—is to add/upgrade wood structural panel (plywood/OSB) shear walls fastened to studs and plates per nailing schedules. This provides diaphragm and wall shear resistance with minimal added framing.

- A). Moment connections in wood are labor-intensive and uncommon in light framing.
- C). Horizontal board sheathing provides limited shear compared to plywood.
- D). Gusset plates do not create a continuous shear diaphragm/wall.

PDD refs: AWC SDPWS (wood shear walls & diaphragms); ARE 5.0 PDD-Structural systems for lateral loads in light-frame construction; IBC Ch. 23.

**NEW QUESTION # 36**

Which elevator type is the most appropriate choice for a 15-story high-rise residential condominium where speed and noise are considerations?

- A. Gearless traction
- B. Geared traction
- C. Hoisted hydraulic
- D. Hole-less hydraulic

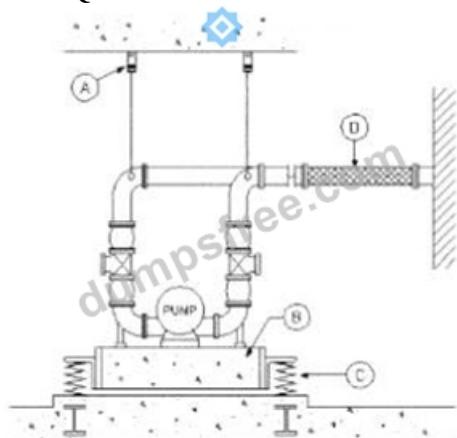
**Answer: A**

Explanation:

For a 15-story high-rise where speed and noise matter, gearless traction elevators are the standard choice: highest speeds, smoother/quiet operation, and efficiency for taller buildings. Hydraulic (hoisted or hole-less) are limited to low-rise (#2-6 stories) and are slower/noisier; geared traction is mid-rise with lower speeds and more noise than gearless.

PDD references: Vertical transportation selection criteria-rise vs. technology; ARE 5.0 PDD "Building Systems-Elevators."

**NEW QUESTION # 37**



Refer to the exhibit.

Which device allows for piping misalignment and isolation?

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

**Answer: C**

Explanation:

Understanding the Diagram

The image shows a pump installation detail with various vibration and alignment control devices:

- \* A - Typically a pipe hanger or suspension support to reduce strain on piping.
- \* B - Likely a flexible electrical conduit (for pump motor connection).
- \* C - Spring vibration isolators under the pump base to prevent vibration transmission into the building structure.
- \* D - A flexible pipe connector (also called a flex connector or braided flexible coupling).

### Purpose of Flexible Pipe Connectors

Flexible pipe connectors (D in the diagram) are designed to:

- \* Absorb minor misalignment between connected piping systems.
- \* Reduce stress on pump flanges due to thermal expansion, settlement, or installation tolerances.
- \* Isolate vibration from the pump so that it is not transmitted along rigid piping to the building structure.

This makes them essential in mechanical systems where pumps, chillers, or other vibrating equipment connect to rigid building piping.

Why Other Options Are Incorrect:

- \* A. Pipe hangers/supports - Maintain alignment and support vertical loads but do not allow for misalignment or vibration isolation in the same way as flexible connectors.
- \* B. Electrical conduit/flexible connection - Relates to electrical supply flexibility, not piping alignment.
- \* C. Spring vibration isolators - Isolate vibration from equipment to the floor but do not address piping misalignment.

NCARB ARE 5.0 PDD Study Guide References:

- \* Content Area: Integration of Building Materials & Systems - Mechanical Systems Coordination
- \* Source References:
  - \* Mechanical and Electrical Equipment for Buildings (MEEB) - Chapter on Vibration Isolation & Pump Installation
  - \* Architectural Graphic Standards - Flexible Connector & Piping Details
- \* Key Point: Flexible connectors at pumps and equipment protect against misalignment, vibration, and stress transfer to the piping system.

### NEW QUESTION # 38



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. 32 in
- B. 108 in
- C. 15 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 # 39

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