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NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q15-Q20):

NEW QUESTION # 15

Which of the following roofing types is the most appropriate for installation during below-freezing weather conditions on a roof with less than a 2:12 slope?

- A. A self-sealing shingle roof
- B. A cold-tar built-up roof
- C. A ballasted EPDM roof

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Low-slope roofs (< 2:12) require roofing materials suitable for flat or nearly flat conditions:

Cold-tar built-up roofs (A) are difficult to install in freezing weather because the tar cannot be applied or cured properly in cold temperatures.

Self-sealing shingles (B) are generally used on steeper slopes and depend on heat to activate the sealing strips, making them unsuitable for low slopes and cold weather.

Ballasted EPDM (C) is a single-ply synthetic rubber membrane that can be installed in a variety of weather conditions, including below-freezing temperatures. The ballast (usually gravel) holds the membrane in place on low slopes and does not rely on adhesives or heat curing.

Therefore, ballasted EPDM is the most appropriate.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Roofing Materials and Systems The Architect's Handbook of Professional Practice, 15th Edition - Roofing

NEW QUESTION # 16

A site has been engineered with a 1:20 grade.

Which of the following sidewalk designs would be the most cost-effective way to get from the top to the bottom and still be in compliance with the accessibility standards?

- A. At the same grade as the slope with no handrail
- B. Cutting diagonally across the slope at 1:12 with no handrail
- C. Cutting diagonally across the slope at 1:10 with a handrail
- D. Switchback ramps at 1:12 with a handrail

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A 1:20 slope means a 5% grade (1 vertical unit per 20 horizontal units), which is slightly steeper than the ideal maximum slope for accessible ramps.

* Option C: Cutting diagonally across the slope at 1:12 (~8.33%) slope without a handrail is the most cost-effective design that still complies with accessibility standards. According to the Americans with Disabilities Act (ADA) and ICC A117.1, the maximum slope for an accessible ramp is 1:12. Handrails are required on ramps with a rise greater than 6 inches (150 mm). If the rise is less than 6 inches, handrails are not required.

Because the diagonal cut reduces the slope to 1:12 and the total rise is likely less than 6 inches given the gentle 1:20 original slope, handrails are not mandatory, making this solution economical and code compliant.

* Option A: Switchback ramps at 1:12 with handrails are compliant but more expensive due to increased construction complexity and space requirements.

* Option B: A 1:10 slope (10%) exceeds the maximum allowed slope for accessible ramps and requires handrails, thus non-compliant.

* Option D: Following the existing 1:20 slope without modification does not provide the maximum accessibility slope and may be acceptable but might not comply with certain stricter local codes for ramps.

Therefore, Option C balances accessibility, cost, and compliance optimally.

References:

ARE 5.0 Project Planning & Design Content Outline: Environmental Conditions and Context - Site Accessibility and Grading ADA Standards for Accessible Design (2010) ICC A117.1 Accessibility Standards The Architect's Handbook of Professional Practice, 15th Edition, Chapter 7: Site Planning and Accessibility

NEW QUESTION # 17

Structural costs for wind resistance increase exponentially as building height is increased, primarily due to which of the following factors? Check the two that apply.

- A. There is a need for control of excessive drift at higher floors.
- B. Use of precast panels instead of metal/glass panels increase costs.
- C. Snow and rain loads increase on the roof portion of the structure.
- D. Live load increases as the number of stories increase.
- E. Dead load increases as the number of stories increases.
- F. Wind pressure is greater at higher surfaces.

Answer: A,F

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

As building height increases, wind pressures acting on the building surfaces increase because wind speed generally increases with elevation due to reduced friction from ground features (A).

Additionally, taller buildings experience larger lateral displacements (drift), requiring more complex structural systems and stiffer frames to control excessive drift for occupant comfort and structural safety (E).

This requirement significantly increases structural costs.

Dead load (B) and live load (D) increase with stories but do not increase exponentially or primarily affect wind resistance costs.

Snow and rain loads (C) mostly affect the roof, not height-related wind loads.

Choice of cladding materials (F) impacts cost but is not a primary reason for exponential wind resistance cost increases.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Structural Wind Design The Architect's Handbook of Professional Practice, 15th Edition - Wind Loads and Structural Costs

NEW QUESTION # 18

An owner requests full height, motorized solar shades for the lobby curtainwall.

Click on the area of the section detail where the shade should be installed so that it is concealed from the lobby.

Answer:

Explanation:

Explanation:

The solar shade should be installed within the ceiling recess above the curtainwall, behind the horizontal soffit--specifically in the void space between the top of the curtainwall glazing and the structural ceiling soffit (the shaded area immediately above the curtainwall glass in the section).

NEW QUESTION # 19

The rehabilitation of a warehouse for a commercial occupancy has a heavy anticipated electrical distribution load and it is expected that the current of the electrical system will be expanded in the near future.

The least expensive and most flexible electrical distribution system would be comprised of which one of the following?

- A. Aluminum or copper bus duct with tap boxes
- B. Paralleled sets of copper wire in conduits
- C. Single large aluminum or copper conductor
- D. Paralleled sets of aluminum wire in conduits

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Bus duct systems with tap boxes offer modular, flexible electrical distribution capable of handling high loads and allowing easy future expansions with minimal disruption and cost.

Paralleled wires (A, B) increase complexity and are less flexible.

Single large conductors (C) are limited in expansion.

Bus ducts optimize installation speed, scalability, and cost in commercial building retrofits.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Electrical Systems

The Architect's Handbook of Professional Practice, 15th Edition - Electrical Distribution

NEW QUESTION # 20

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