

1. What is the minimum safe clearance distance that must be maintained between workers or equipment and energized overhead power lines

c) 20 feet | OSHA Standard 29 CFR 1926.1408 (2) requires that workers and equipment maintain a minimum clearance of 10 feet from overhead power lines unless otherwise specified or de-energized.

2. What work can you perform without a permit?

c) 120 sq ft | IBC 105.2 .

4. Backfill shall be of concrete with a specified compressive strength of not less than 2,000 psi (13.8 MPa). The hole shall be not less than ___ inches (102 mm) larger than the diameter of the column at its bottom or ___inches (102 mm) larger than the diagonal dimension of a square or rectangular column.

b) 4,4 IBC | 1807.3.3

5. What is the distance of a smoke detector from the bathroom?

b) 3 feet | IRC R314.3

6. Sidewall sprinklers that are used to protect such areas shall be permitted to be located such that their deflectors are within _____ to _____below the structural members and a maximum distance of 14 inches (356 mm) below the deck of the exterior balconies

a) 1 inch (25 mm) to 6 inches (152 mm) | Sprinkler system, IBC section 903.3.1.2.1

8. what is the minimum fire separation distance required between a roof edge and a lot line for non-classified roof coverings on buildings of Group R-3 and Group U occupancies?

a) 6' | IBC TABLE 1505.1 MINIMUM ROOF COVERING b. Nonclassified roof coverings shall be permitted on buildings of Group R3 and Group U occupancies, where there is a minimum fire-separation distance of 6 feet measured from the leading edge of the roof.

9. A flashing shall be installed to divert the water away from where the eave of a sloped roof intersects a vertical sidewall. Where flashing is of metal, the metal shall be corrosion resistant with a thickness of not less than ___ inch

a) 0.019 | IRC R903.2.1 Locations .Flashing is a term used in construction to describe a material that protects against water damage.

10. The estimate of the roof is called ?

d) correct is square| General Knowledge. Roof lengths are measured in linear feet and areas are measured in square feet. Sometimes a unit square (sq) is used to refer to roof related areas. A square equals 100sqft. Eg: A 10sq roof refers to a total area of 1000sqft

11. According to best practices, in what type of environment should metal pipes be stored to prevent corrosion?

b) Dry | General Knowledge

12. What is the measure of an elevator lobby?

c) Correct is 150 sq ft | IBC 3007.6.4

13. For how long does an emergency light need to stay on?

b) Duration 90 minutes | IBC 1008.3.4

14. What is the clearance between a masonry wall and a combustible wall?

a) 1 inch | IRC Figura section G 2409.2(2) 1 inc minimum airspace between masonry and combustible wall

15. When installing a window, what is the typical rough opening size relative to the window unit dimensions?

c) 1/2 inch larger on all side | For typical window installations, the rough opening should be approximately 1/2" to 1" larger than the window unit dimensions in both width and height to allow for proper installation, adjustments, and shimming.

General Knowledge

20- Scale wall 7" 1/4+= 1" What is the height?

correct 28 feet | General Knowledge

22- What is the measure of an elevator lobby?

a) 150 sq ft | IBC 3007.6.4

23- A construction supervisor needs to order a concrete slab that is 12 yards long. How many feet long is the slab?

d) 36 feet long. | general knowledge. Since 1 yard = 3 feet, multiply the length in yards by 3

25- Unless otherwise required or indicated on the project drawing, head and bed joints shall be ____ thick

a) 3/8 | IRC R606.3.1 bed and head joints

27- According to 521 CMR, what is the required minimum clear floor space in front of a door when the space provided is 60 inches in depth?

b) 18 | According to 521 CMR (Massachusetts Architectural Access Board Regulations) and IBC 2021, pg 100 26.6.3

28. sprinkler protection shall be provided for exterior balconies and decks. What is the maximum allowable distance below the structural member where sprinklers must be installed?

d) 18 inches | According to IBC 2021 Section 903.3.1.2.1, sprinkler protection is required for exterior balconies, decks, and ground-floor patios of dwelling units when a building is equipped with an automatic sprinkler system. The sprinklers must be located below the structural members with a maximum distance of 18 inches from the underside of the structural member.

29. What is the minimum required handrail height, measured vertically from the stair tread nosing or the finished surface of a ramp slope?

c) 34 inches | According to IBC 2021 Section 1014.2, the minimum height of a handrail must be 34 inches, and the maximum height must not exceed 38 inches, measured vertically from the stair tread nosing or the finished surface of a ramp slope.

35. A stairway, ladder, ramp or other safe means of egress shall be located in trench excavations that are ____ feet or more in depth so as to require no more than ____ fee of lateral travel for employees

b) 4 feet and 25 feet | OSHA 1926.651 C (2)

36.Scaffolds shall be designed by a ____

D) Qualified person | OSHA 1926.451 (a) (6)

38. Pier and curtain wall foundations shall be permitted to be used to support light frame construction not more than two stories above grade plane, provided at one that the following requirements are met:

B) The minimum actual thickness of a load-bearing masonry wall shall be not less than 4 inches

C) 3 5/8 inches actual thickness

(b,c) correct | IBC 2021 1809.10 pier and curtain wall foundation

39. Side-hinged swinging doors, pivoted doors and balanced doors shall swing in the direction of egress travel when serving a room or area containing an occupant load of _or more persons or a Group H occupancy.

b) Occupant load of 50 or more persons or a Group H occupancy | IBC 2021 1010.1.2.1 Direction of swing.

40. Prior to application of dampproofing materials on concrete walls, holes and recesses resulting from the removal of form ties shall be sealed with a bituminous material or other approved methods or materials.

b) Unit masonry walls shall be parged on the exterior surface below ground level with not less than 3/8 inch (9.5 mm) of Portland cement mortar. The parging shall be covered at the footing. | IBC 2021, 1805.2.2.1

42. How do you calculate the cost of roofing material if it is priced per 100 linear feet and you need 300 linear feet of material at \$250 per 100 linear feet?

a) $300 \div 100 \times 250$ | G.N $300 \div 100 \times 250 = \750 | General Knowledge

43. Where the groundwater table is lowered and maintained at an elevation not less than ___ inches (152 mm) below the bottom of the lowest floor, the floor and walls shall be dampproofed

b) 6 inches | IBC 1805.1.3 Ground-water control.

44. What is the minimum allowable presumptive VFP* load-bearing pressure for crystalline bedrock in pounds per square foot (psf)? (*VERTICAL FOUNDATION PRESSURE)

d) 12,000 psf | IBC 2021, Table 1806.2 – Presumptive Load-Bearing Values of Soils.

46. May elect to comply with the requirements with the requirements IECC "Zero energy" Which type of building ?

a) Residential building b) Commercial building | IRC MA amendment pg 269 , R401.2.4 appendix RC