

## Wisconsin Commercial Building Inspector Certification Practice Exam (4)

1. Two or more buildings on the same lot shall be regulated as **separate buildings** or shall be considered as portions of one building if the height of each building and the aggregate area of buildings are within the limitations of Table 503.

- a. separate buildings
- b. one building
- c. non-combustible
- d. sprinklered

503.1.2 Buildings on same lot.

2. Exterior glazed openings shall open directly onto a public way or onto a yard or court in accordance with **Section 1206**.

- a. the lighting code
- b. section 1206
- c. chapter 14
- d. section 1205

1205.2.2 Exterior openings.

3. For Group R buildings protected throughout with an approved automatic sprinkler system installed in accordance with Section 903.3.1.2, the value specified in Table 503 for maximum height is increased by 20 feet (6096 mm) and the maximum number of stories is increased by one story, but shall not **exceed four stories or 60 feet** (18 288 mm), respectively.

- a. table 503
- b. 3 stories or 40 feet
- c. exceed four stories 60 feet
- d. unlimited height or area

504.2 Automatic sprinkler increase.

4. A roofed or covered common pedestrian area within a **covered mall building** that serves as access for two or more tenants and not to exceed three levels that are open to each other.

- a. atrium building
- b. covered mall building
- c. pedestrian bridge
- d. high rise building

402.2 Definitions.

5. Each portion of the building shall be individually classified as to use and shall be completely separated from adjacent areas by **fire barrier walls or horizontal assemblies** or both having a fire-resistance rating determined in accordance with Table 508.3.3 for the uses being separated.

- a. fire walls and fire barriers
- b. fire partitions and fire walls
- c. horizontal assemblies and fire walls
- d. fire barriers or horizontal assemblies

508.3.3 Separated uses.

6. Weep holes provided in the outside wythe of masonry walls shall be at a maximum spacing of **33** inches (838 mm) on center.

- a. 24
- b. 16
- c. 33
- d. 48

2104.1.8 Weep holes.

7. The required toilet facilities in occupancies other than covered malls, the required public and employee toilet facilities shall be located not more than one story above or below the space required to be provided with toilet facilities and the path of travel to such facilities shall not exceed a distance of **500** feet (152 m).

- a. 500
- b. 400
- c. 150
- d. 750

2902.4.1 Travel distance.

8. The ground snow loads to be used in determining the design snow loads for roofs shall be determined in accordance with **ASCE 7** or Figure 1608.2 for the contiguous United States.

- a. ASTM E 160
- b. ACI 318
- c. ASCE 7
- d. ANSI 132

1608.2 Ground snow loads.

9. Unless otherwise indicated in this section, foam plastic insulation and foam plastic cores of manufactured assemblies shall have a flame spread index of not more than **75** and a smoke-developed index of not more than **450** where tested in the maximum thickness intended for use in accordance with ASTM E 84.

- a. 75, 450
- b. 75, 150
- c. 450, 75
- d. 150, 75

2603.3 Surface-burning characteristics.

10. Ducts and air transfer openings shall not penetrate **fire walls**.

- a. fire barriers
- b. fire walls
- c. fire partitions
- d. horizontal assemblies

705.11 Ducts and air transfer openings.

11. The area of a one-story Group E building of Type **II, IIIA or IV** construction shall not be limited when the criteria are met.

- a. I and II
- b. II, IIIA or IV
- c. IV and V
- d. III

507.9 Group E buildings.

12. Duct and air transfer openings of **fire barriers** shall be protected with approved fire dampers installed in accordance with their listing.

- a. fire walls
- b. fire barriers
- c. fire partitions
- d. frame walls

716.5.2 Fire barriers.

13. Enclosed attics and enclosed rafter spaces formed where ceilings are applied directly to the underside of roof framing member shall have **cross ventilation** for each separate space by ventilating openings protected against the entrance of rain and snow.

- a. mechanical ventilation
- b. fans
- c. cross ventilation
- d. dampered openings

1203.2 Attic spaces.

14. **Structural plain concrete** exterior basement walls shall be exempt from the requirements for special exposure conditions of Section 1904.2.2.

- a. concrete block
- b. treated wood
- c. structural plain concrete
- d. grade beam

1909.6.1 Basement walls.

15. Handrail assemblies and guards shall be designed to resist a load of **50 plf** applied in any direction at the top and to transfer this load through the supports to the structure.

- a. 200 plf
- b. 50 plf
- c. 250 plf
- d. 75 plf

1607.7.1 Handrails and guards.

16. An opening not less than 20 inches by 30 inches (559 mm by 762 mm) shall be provided to any attic area having a clear height of over **30 inches** (762 mm).

- a. 30
- b. 18
- c. 24
- d. 48

1209.2 Attic spaces.

17. Fire partitions shall have a fire-resistance rating of not less than **1 hour**.

- a. 2
- b. 3
- c. 1
- d. .5

708.3 Fire-resistance rating.

18. Interior exit stairways shall be enclosed. Vertical exit enclosures four stories or more shall be **2-hour** fire-resistance rated.

- a. 1
- b. 2
- c. 3
- d. 1.5

1020.1 Vertical exit enclosures.

19. **Curved** stairways shall have a minimum tread depth and a maximum riser height in accordance with Section 1009.3 and the smaller radius shall not be less than twice the width of the stairway.

- a. Straight run
- b. Spiral
- c. Switchback
- d. Curved

1009.7 Curved stairways.

20. Clearance between wood siding and earth on the exterior of a building shall not be less than **6 inches** (152 mm) except where siding, sheathing and wall framing are of naturally durable or preservative-treated wood.

- a. 6
- b. 12
- c. 18
- d. 3

2304.11.2.6 Wood siding.

21. In Types 1 and 2 construction, sloped glazing and skylight frames shall be constructed of **noncombustible** materials.

- a. class A
- b. class B
- c. noncombustible
- d. acceptable

2405.4 Framing.

22. Approved, listed, delayed egress locks shall be permitted to be installed on doors serving any occupancy except Group **A, E and H** occupancies in buildings which are equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

- a. B and M
- b. B, M and A
- c. A, E and H
- d. A and E

1008.1.8.6 Delayed egress locks.

23. **Fire barriers** used for separation of vertical exit enclosures, exit passageways, horizontal exits or incidental use areas, to separate different occupancies or to separate a single occupancy into different fire areas.

- a. Fire walls
- b. Fire partitions
- c. Occupancy separation walls
- d. Fire barriers

706.3 Fire resistance rating.

24. Buildings and structures which contain materials that are health hazards shall be classified as Group **H-4**. Such materials shall include, but not be limited to corrosives, highly toxic materials or toxic materials.

- a. H-4
- b. H-5
- c. I-2
- d. F-1

307.6 Group H-4 structures.

25. The floor construction of the control area and construction supporting the floor of the control area shall have a minimum **2-hour** fire-resistance rating.

- a. 1
- b. 2
- c. 1.5
- d. 3

414.2.4 Fire resistance rating requirements.

26. An intermediate level or levels between the floor and ceiling of any story with an aggregate floor area of not more than **one-third** of the area of the room or space in which the level or levels are located.

- a. one-third
- b. one half
- c. one quarter
- d. two thirds

s. 505.2

27. Wood headers shall be of adequate size to transfer loads to **vertical members**.

- a. vertical members
- b. beams
- c. the foundation
- d. secondary members

s. 2304.3.2

28. The maximum number of control areas within a building shall be in accordance with **Table 414.2.2**.

- a. the hazardous control table
- b. Table 414.2.1
- c. Table 414.2.2
- d. the occupancy

414.2.3 Number.

29. A fire barrier shall not be required for a use not occupying more than **10** percent of the area of any floor of a building, nor more than the tabular values for either height or area for such use.

- a. 15
- b. 20
- c. 5
- d. 10

508.3.1 Accessory occupancies.

30. Areas that are **incidental** to the main occupancy shall be separated and protected in accordance with Table 508.2.

- a. accessory
- b. separated
- c. incidental
- d. unsepartated

508.2 Incidental uses.

31. Artificial light shall be provided that is adequate to provide an average illumination of 10 foot-candles (107 lux) over the area of the room at a height of **30** inches (762 mm) above the floor level.

- a. 36
- b. 48
- c. 24
- d. 30

1205.3 Artificial light.

32. In buildings of Types I, II, III, and IV construction that do not exceed **three stories or 40** feet (12 192 mm) in height above grade plane, exterior wall coverings shall be permitted to be constructed of wood where permitted by Section 1405.4 or other equivalent combustible material.

- a. two stories or 30
- b. three stories or 50
- c. three stories or 40
- d. four stories or 40

1406.2.2 Architectural trim.

33. The aggregate length of balconies shall not exceed **50** percent of the building perimeter on each floor.

- a. 75
- b. 25
- c. 15
- d. 50

1406.3 Balconies and similar projections.

34. The maximum allowable foundation pressure, lateral pressure or lateral sliding resistance values for supporting soils at or near the surface shall not exceed the values specified in **Table 1804.2**.

- a. Table 1804.2
- b. Table 1805.1
- c. the ASCE tables
- d. the soil values table

1804.2 Presumptive load-bearing values.

35. A change in use of an elevator from freight to passenger, passenger to freight, or from one freight class to another freight class shall comply with **ASME A17.1**.

- a. Comm 16
- b. ANSI 117.1
- c. ASME A17.1
- d. the IFC

s. 3001.4

36. Compliance with this code does not relieve the **owner** of a public building or place of employment from compliance with the administrative rules established by other state jurisdictions.

- a. designer
- b. supervising professional
- c. contractor
- d. owner

s. 61.20

37. Plan approval for new buildings and additions shall expire **2 years after the approval date**.

- a. 1 year after construction commences
- b. 2 years after the approval date
- c. 2 years after construction commences
- d. 3 years after the approval date

61.36

38. The number of occupants shall be determined by this code. Occupancy classification shall be determined in accordance with Chapter **3**.

- a. 10
- b. 29
- c. 3
- d. 6

2902.1 Minimum number of fixtures.

39. Where it is **technically infeasible** to alter existing toilet and bathing facilities to be accessible, an accessible unisex toilet or bathing facility is permitted.

- a. not permitted
- b. disproportionate
- c. technically infeasible
- d. not addressed by the code

3409.8.9 Toilet rooms.

40. The building official is authorized to issue a permit for temporary structures and temporary uses. Such permits shall be limited as to time of service, but shall not be permitted for more than **180** days.

- a. 90
- b. 30
- c. 15
- d. 180

107.1 General.

41. Walkways shall be separated from the interior of the building by fire barrier walls with a fire-resistance rating of not less than **2** hours.

- a. 1
- b. 2
- c. 1.5
- d. 4

3104.5 Fire barriers between pedestrian walkways and buildings.

42. Unless otherwise specifically stated in this code, an existing building shall be maintained to conform to the building code requirements **that applied when the building, was constructed** and to conform with ch. Comm 14 wherever applicable.

- a. currently in effect
- b. of the municipality
- c. that applied when the building, was constructed
- d. determined by the designer

s. 61.03(12)

43. Handrails serving stairs and ramps are permitted to protrude **4.5 inches**.

- a. 2.5 inches
- b. 3 inches
- c. 1.5 inches
- d. 4.5 inches

1012.7 Projections

44. **An automatic sprinkler system** shall be provided throughout buildings classified as an enclosed parking garages in accordance with Section 406.4 or where located beneath other groups.

- a. An automatic sprinkler system
- b. An automatic alarm system
- c. An automatic detection system
- d. A smoke evacuation system

s. 903.2.9 Group S-2.

45. The area of a mezzanine shall be included in determining **fire area**.

- a. total stories
- b. fire area
- c. occupancy
- d. construction type

505.1

46. At least **one** accessible route shall connect accessible buildings, accessible facilities accessible elements and accessible spaces that are on the same site.

- a. two
- b. six
- c. one
- d. twenty

s. 1104.2 Within a site.

47. Dwelling and sleeping unit separations in buildings of Type IIB, IIIB and VB construction shall have fire-resistance ratings of not less than **1/2 hour** in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

- a. 15 minutes
- b. 1 hour
- c. 1/2 hour
- d. 20 minutes

s. 708.3

48. Where two means of egress are provided from both floors served by an unenclosed stairway **50%** of egress stairways are not required to be enclosed.

- a. 25%
- b. two
- c. 50%
- d. 75%

s. 1020.1 Enclosures required.

49. Class III standpipe systems shall be installed throughout buildings where the floor level of the highest story is located more than **30** feet (9144 mm) above the lowest level of the fire department vehicle access.

- a. 60
- b. 100
- c. 30
- d. 50

905.3.1 Building height.

50. In new construction, required smoke alarms shall receive their primary power from the building wiring where such wiring is served from a **commercial source**.

- a. battery backup
- b. emergency source
- c. commercial source
- d. alternate source

907.2.10.2