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level are separated from the upper levels with fire-resistive rated construction as specified in Table 51.03-A or better.

(b) Conditions specified in sections Ind 55.09 (1) (a) and (b) as applied to a place of worship are acceptable.

(c) A building having 3 or more floor levels may have an open interior stairway or floor opening connecting any 2 adjacent floors providing:

1. The floors above and below said openings serve to cut off the openings at these floor levels.

a. The fire-resistive ratings of floors shall satisfy those specified in Table 51.03-A, but in no case shall the rating be less than one-hour combustible or noncombustible, whichever applies.

2. The open stairway between 2 floors is in addition to the required stairways and exit passageways specified in the occupancy chapters of this code.

3. The openings are not prohibited by the occupancy chapters of this code.

(12) PARAPET WALLS. (a) Parapet walls shall be provided on exterior walls closer than 10 feet to a property line or to other buildings on the same property except as exempted under Ind 51.02 (12) (a) 4, Wis. Adm. Code. Parapet walls shall satisfy the following requirements:

1. Parapets shall not be less than 2 feet in height.

2. The minimum thickness of masonry parapets shall be 8 inches.

3. Parapets shall have fire-resistive ratings as specified for exterior walls in Table 51.03-A.

4. Parapets are not required on exterior walls which front streets and alleys or where exterior walls connect with roofs of noncombustible construction.

(b) All parapet walls shall be properly coped with noncombustible weatherproof material.

(13) FIRE DIVISION WALLS. Fire division walls shall have not less than a 4-hour fire-resistive rating as specified in section Ind 51.04 and shall comply with one of the following conditions:

(a) The wall shall extend 3 feet above the roof.

(b) The wall shall connect and make tight contact with roof decks of at least 2-hour fire-resistive noncombustible construction on both sides of the wall.

(c) The wall shall connect and make tight contact with roofs of noncombustible construction on both sides of the walls, and the roofs shall be noncontinuous at the wall.

*See Appendix A for further explanatory material.

(14) **DETERMINATION OF NUMBER OF STORIES.*** For purposes of establishing the maximum allowable stories in the various classes of construction stated in section Ind 51.03, the number of stories shall be determined on the following basis:

(a) The first floor shall be determined first and this level shall satisfy the following conditions:

1. Is the lowest floor having one or more required exits for that floor and for any floor (s) above or below.

a. If condition stated in 1. is not satisfied, the highest floor level shall be considered the first floor.

2. The elevation of the first floor shall be at or not more than 6 feet above an exit discharge grade.

3. The door sill of all required exit discharges from the first floor shall be at or not more than 3 feet above exit discharge grade.

(b) An interior balcony or mezzanine floor which exceeds 25,000 square feet or one third ($\frac{1}{3}$), whichever is least, of the net area enclosed within exterior walls and/or fire division walls shall be counted as a story.

(c) Penthouse(s) with a total area that exceeds 50% of the total roof area shall be counted as a story (ies).

(d) Construction according to section Ind 51.02 (4) (b) 1. b. shall also be counted as a story (ies).

(e) Total number of stories shall include the first floor plus all stories above and those stories determined by sections Ind 51.02 (14) (b), (c) and (d).

1. Floor levels satisfying the definition of basement(s), ground floor (s), attic, interior balcony (ies) and/or mezzanine floor (s), unless otherwise stated, shall not be counted as a story (ies).

(15) **DECORATIVE COMBUSTIBLE MATERIALS.** Decorative combustible materials may be applied to all required noncombustible exterior surfaces of "0" hourly rated construction or better, up to a limit of 10% of the surface area within any 100 lineal feet of the building.

(16) **THERMAL PERFORMANCE STANDARDS.** (a) The design heat loss, excluding infiltration and ventilation, through above grade gross walls and roofs facing heated interiors shall not exceed 13 BTU per hour per square foot for the total building envelope.

(b) A building may exceed the requirements of paragraph (a) above, provided the designer can demonstrate additional innovative building or system designs that will achieve energy savings which equal the additional energy being used because the requirements of paragraph (a) are exceeded.

*See Appendix A for further explanatory material.

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Note #1: The intent of the department is to develop data to implement a total connected energy budget concept as soon as possible. The department requests voluntary participation from designers in establishing realistic energy allotment values for the state of Wisconsin.

Note #2: Copies of the recommended code for the energy budget concept, as outlined in Appendix A of the Report of the Special Study Committee to Review Thermal Performance Standards, may be obtained from the Department of Industry, Labor and Human Relations, Division of Safety and Buildings, P. O. Box 7946, Madison, Wisconsin 53707.

(c) The thermal performance standards need not apply to special use buildings such as greenhouses, inflatable and similar types of designs, or any building presently exempt from the heating and ventilating requirements.

(17) **INFILTRATION STANDARDS.** All exterior windows and doors shall be designed to limit air leakage into or from the building and shall be weatherstripped.

(18) **ACCESS TO ATTIC AND ROOF.** (a) *Attic.* Unless otherwise approved by the department, each individual attic compartment in all buildings must have access from the inside. The access opening shall be at least 20 by 30 inches and located above the stair landing in buildings of more than one story, or located in an accessible location in one-story buildings.

(b) *Roof.* Unless otherwise approved by the department, all buildings, or sections of buildings, of more than one story shall have a means of access to the main roof from the inside by a permanent ladder, or stairway, leading thereto from the uppermost floor. The roof opening shall be at least 20 by 30 inches. Access to the roof need not be provided if the roof has a slope greater than 6 in 12.

(19) **ATTIC COMPARTMENTALIZATION.** Attics of combustible construction, other than those above suspended ceilings, shall be divided into areas not greater than 3,200 square feet by firestopping as specified in section Ind 56.63 (1) (c).

History: Cr. Register, June, 1972, No. 198, eff. 1-1-73; r. (9) and (10), renum. (3) to be (4), (4), (5), (6), (7), (8) to be (6), (7), (8), (9), (10), am. (2) (a) cr. (3), (5), (11), (12), (13) and (14), Register, September, 1973, No. 213, eff. 10-1-73; am. (14) (d), Register, February, 1974, No. 218, eff. 3-1-74; r. and recr. (12) (a); am. (13) (c), Register, May, 1974, No. 221, eff. 6-1-74; cr. (11) (c) and (15), Register, July, 1974, No. 223, eff. 8-1-74; cr. (16) and (17), Register, December, 1974, No. 228, eff. 1-1-75; am. (5) (a) 1 and (14) (e) 1, cr. (18), Register, December, 1975, No. 240, eff. 1-1-76; am. (16) (b), Register, July, 1976, No. 247, eff. 8-1-76; cr. (2) (c), Register, December, 1976, No. 252, eff. 1-1-77; am. (15) and cr. (19), Register, December, 1977, No. 264, eff. 1-1-78.

*See Appendix A for further explanatory material.

Register, December, 1977, No. 264
Building and heating, ventilating
and air conditioning code