

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.

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 7398, 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.

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.

Ind 51.03 Classes of construction standards. (1) FIRE RESISTIVE TYPE A (NO. 1):

*See Appendix A for further explanatory material.

Register, July, 1976, No. 247
Building and heating, ventilating
and air conditioning code

(a) A building is of fire-resistive construction if all the walls, partitions, piers, columns, floors, ceilings, roof and stairs are built of noncombustible material, with a fire-resistive rating as specified in table 51.03-A.

1. Concealed draft openings in columns, walls and partitions shall be firestopped with noncombustible material at each floor level.

(b) All buildings of this classification shall not be restricted in height.

(c) Stairs and stair platforms shall be constructed of noncombustible material.

(d) Doors and windows may be of wood except as otherwise specified in section Ind 51.02 (5), Table 51.03-B, sections Ind 51.17, 51.18, 51.19 and 51.20, or in the occupancy chapters of this code.

1. Doors leading into main public corridors other than rated exit corridors shall be noncombustible or 20-minute fire door assemblies, or equivalent, unless otherwise specified above.

Note: Public corridors are intended to include principal corridors serving a floor and leading directly to building exits, but do not include communicating passageways within a given use area.

(e) Bays, oriels, and similar exterior projections from the walls shall be constructed of material with fire-resistive ratings as required for exterior walls.

(f) Mansards shall be of noncombustible construction.

1. The wall construction behind mansard shall extend to underside of roof deck and shall have a fire-resistive rating of not less than that specified for exterior walls in table 51.03-A.

(g) Penthouses and other roof structures shall have enclosing walls of noncombustible construction and roof framing and coverings shall be equal to that specified in table 51.03-A. Wood cooling towers are permitted.

(h) Wood may be used for finished floors, trim and wall paneling if open spaces behind the material are completely firestopped with noncombustible materials unless prohibited under the occupancy requirements of this code.

(i) Acoustical materials may be used on ceilings and walls provided they are noncombustible and the open spaces between furring on walls are completely firestopped with noncombustible material.

(j) In required fire-resistive floor and roof assemblies one electric outlet box, not exceeding 16 square inches in area, may be installed in such ceilings in each 90 square feet of ceiling area. Recessed electric fixtures shall have protection boxes built above the fixture, constructed of approved fire-resistant material of rating equal to that of the ceiling, to cover the opening in case fixture is displaced. Duct openings in ceilings shall be protected by fire dampers.

*See Appendix A for further explanatory material.

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Definitions and standards

(2) FIRE-RESISTIVE TYPE B (NO. 2):

(a) A building is of fire-resistive construction if all the walls, partitions, piers, columns, floors, ceilings, roof and stairs are built of noncombustible material, with a fire-resistive rating as specified in table 51.03-A.

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*See Appendix A for further explanatory material.