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Chapter Ind 52

GENERAL REQUIREMENTS

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Ind 52.001 Design and supervision. (1) Every new building containing more than 50,000 cubic feet total volume, or addition to a building which by reason of such addition results in a building containing over 50,000 cubic feet total volume, or structural alteration to a building containing over 50,000 cubic feet total volume shall be designed by an architect or engineer in accordance with the provisions of this code; and shall be constructed under the supervision of an architect or engineer who shall be responsible for its erection in accordance with the plans and specifications of the designer. No change from the original plans and specifications shall be made except with the knowledge and consent of the designer, and as provided in Wis. Adm. Code section Ind 50.10.

(2) On completion of the construction, the supervising architect or engineer shall file a written statement with the department of industry, labor and human relations certifying that, to the best of his knowledge and belief, the construction has been performed in accordance with the plans and specifications approved by the department.

(3) No owner shall construct or alter any building, or portion of a building, or permit any building to be constructed or altered, except in accordance with the provisions of this section.

*Note:* By the term "architect" or "engineer" above is meant "registered architect" or "registered professional engineer", as defined in the Architects and Professional Engineers Registration Act, Section 101.31, Wis. Stats.

*History:* 1-2-56; cr. (2) Register, August, 1957, No. 20, eff. 8-1-57.

Ind 52.01 Height and class of construction. (1) All buildings higher than 75 feet above the adjacent grade shall be of fire-resistive construction.

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(2) Buildings of mill construction shall not exceed a height of 75 feet in which height there shall not be more than 7 stories; provided, that the height of a building erected on sloping ground may be not to exceed 75 feet plus a vertical distance equal to the vertical change in slope along the length of any side of such building, but in no case shall such height exceed 85 feet above the adjacent finished ground level. Towers, other than tanks, spires and steeples erected as a part of the building and not used for habitation or storage may extend not to exceed 20 feet above such height limit.

(3) Buildings of ordinary construction shall not exceed a height of 50 feet in which height there shall be not more than 4 stories; provided, that the height of a building erected on sloping ground may be 50 feet plus a vertical distance equal to the vertical change in slope along and in the length of any side of such building, but in no case shall such height exceed 60 feet above the adjacent finished ground level. Towers, other than tanks, spires and steeples not exceeding 20% of the roof area, erected as a part of such building and not used for habitation or storage may extend not to exceed 15 feet above such height limit.

(4) Buildings of frame construction shall not exceed a height of 35 feet in which height there shall be not more than 2 stories, except as provided in section Ind 57.01; provided, that the height of a building erected on sloping ground may be 35 feet plus a vertical distance equal to the vertical change in slope along the length of any side of such building, but in no case shall such height exceed 40 feet above the adjacent finished ground level. Spires, towers, other than tanks, or steeples not exceeding 20% of the roof area, erected as a part of such building and not used for habitation or storage may extend not to exceed 20 feet above such height limit.

(5) In every building more than 4 stories in height, all doors, windows and other openings in outside walls shall be protected with fire-resistive doors or shutters or fire-resistive windows as specified in section Ind 51.047, unless such openings are on streets or on alleys or outer courts 20 feet or more in width.

*History:* 1-2-55: am. (6). Register, February, 1971, No. 182, eff. 7-1-71.

**Ind 52.02 Windows.** (1) Every room in which one or more persons live, sleep, or are employed, (except storage rooms or other rooms where the nature of the occupancy will not permit) shall be lighted by a window or windows opening directly upon a street or alley, or upon a court (as defined in section Ind 52.04) on the same lot with the building. The windows shall be so constructed and distributed as to afford proper light and ventilation. Every building more than 40 feet deep (measuring at right angles to the windows) shall have windows on at least 2 sides. *Exception:*

(a) The provisions of this rule may be waived for factory, office, mercantile, schools or places of instruction if provisions are made for proper artificial lighting; and if ventilation is provided in accordance with the provisions of chapter Ind 59 of the Building and Heating, Ventilating and Air Conditioning Code.

1. Requirements applicable to schools or places of instruction shall be as stated in section Ind 56.05.

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(b) Every building more than one story in height which does not have windows opening directly upon a street in each story above the first, shall be provided with a suitable access for fire department use. Such access shall be a window or door opening through the wall on each floor above the first story. The opening shall be at least 66 inches in width and not less than 48 inches in height with the sill not more than 32 inches above the floor. The openings shall be so spaced that there will be one opening in each 100 feet of wall length in any accessible wall of the building. This requirement for access openings for fire department use shall not apply where a building is equipped throughout with an automatic sprinkler system approved for fire protection purposes.

**History:** 1-2-58; am. Register, December, 1962, No. 84, eff. 1-1-63; r. and rec. (1) (a). Register, October, 1967, No. 142, ed. 11-1-67; am. (1) (a). Register, May, 1971, No. 185, eff. 6-1-71.

**Ind 52.03 Window cleaning.** (1) Where the tops of windows to be cleaned are more than 20 feet above the floor, ground, flat roof, balcony, or permanent platform, one of the following means shall be provided to protect the window cleaners.

(a) Approved attachments for window cleaner safety belts to which belts may be fastened at each end. Said attachments shall be permanent devices that shall be firmly attached to the window frame, or to the building proper, and so designed that a standard safety belt may be attached thereto; or

(b) An approved portable platform that is projected through the window or supported from the ground, floor, roof or platform level, for the window cleaner to stand upon and that is designed, constructed, maintained and equipped with handrail and toeboard in compliance with the requirements of chapter Ind 1, rules on Safety.

(c) A suspended scaffold, swinging scaffold, swinging chair scaffold, or boatswain's chair scaffold designed, constructed, equipped and maintained in compliance with the requirements of Wis. Adm. Code chapter Ind 35, rules on Safety in Construction, or

(d) Other equally effective devices.

(e) Where the window consists of a fixed panel not more than 24 inches in width alongside a removable panel, the fixed panel may be cleaned by reaching through the opening of the removable panel. Where the window consists of a fixed panel between 2 removable panels, the fixed panel may be cleaned by reaching through the openings if such fixed panel is not more than 36 inches in width.

(2) For cleaning the insides of skylights (the highest parts of which are more than 20 feet above the floor, ground, balcony or permanent platform), to which access cannot be gained by any of the means described in Wis. Adm. Code subsection Ind 1.16 (1), scaffolds as specified in chapter Ind 35, rules on Safety in Construction, shall be provided.

(3) All equipment, including building parts and attachments, used in connection with window cleaning, shall be maintained in reasonably safe condition while in use and shall be inspected at least once each month while in use, and within 30 days before their use. It shall be the responsibility of the owner of the individual safety devices or equipment to inspect and maintain the devices or equipment belonging to him so that each will comply with the requirements of this section.

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(4) Where the attachments specified in subsection (1) (a) are relied upon for compliance with the provisions of this rule, said employer shall furnish or see that there is provided, an approved suitable safety belt for each employe while cleaning windows.

*Note:* It will be the policy of the department of industry, labor and human relations to accept anchors and safety belts which have been tested and approved by the Underwriters' Laboratories.

*History:* 1-2-56; am. Register, December, 1962, No. 84, eff. 1-1-63.

**Ind 52.04 Definitions of courts.** (1) By inner court is meant an open air shaft or court surrounded on all sides by walls.

(2) By inner lot line court is meant a court bounded on one side and both ends by walls and on the remaining side by a lot line.

(3) By outer court is meant a court bounded on 3 sides with walls and on the remaining side by a street, alley or other open space not less than 15 feet wide.

(4) By outer lot line court is meant a court with one side on a lot line and opening to a street or open space not less than 15 feet wide.

**Ind 52.05 Size of courts.** (1) In applying the following requirements, a building from 30 to 43 feet high shall be considered as having at least 3 stories, and each additional 13 feet shall be considered an additional story.

(2) Outer lot line courts shall be not less than 3 feet wide for a court 2 stories or less in height and 40 feet or less in length, measured from the lot line to the wall of the building. For each additional story in height, the width of such court shall be increased one foot; and for each additional 15 feet or fraction thereof in length, the width of such court shall be further increased one foot.

(3) Outer courts between wings or parts of the same building, or between different buildings on the same lot, shall be not less than 6 feet wide for a court 2 stories or less in height and 40 feet or less in length. For each additional story in height, the width of such court shall be increased one foot, and for each additional 10 feet or fraction thereof in length, the width of such court shall be further increased one foot.

(4) Where outer courts or outer lot line courts open at each end to a street or other open space not less than 15 feet wide, the above lengths may be doubled.

(5) Inner lot line courts one story high shall be not less than 4 feet wide and not less than 40 square feet in area. Inner lot line courts two stories high shall be not less than 6 feet wide and not less than 60 square feet in area. For every additional story every such inner lot line court shall be increased by at least one lineal foot in length and one lineal foot in its width.

(6) Inner courts shall be not less than 10 feet in width nor less than 150 square feet in area for courts two stories or less in height; and for every additional story every such inner court shall be increased by at least one lineal foot in its length and one lineal foot in its width.

(7) Courts shall not be covered by a roof or skylight but the entire required area shall be open and unobstructed from the bottom thereof to the sky. No fire escape or stairway shall be constructed in any court unless the court be enlarged proportionately.

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Chapter Ind 55

**THEATERS AND ASSEMBLY HALLS**

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Ind 55.06	Capacity	Ind 55.43	Ventilation of booths
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Ind 55.14	Width of aisles	Ind 55.51	Exits
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Ind 55.23	Proscenium curtain	Ind 55.60	Fire hazards
Ind 55.24	Automatic smoke outlet	Ind 55.61	Exits
Ind 55.25	Stage vestibules	Ind 55.62	Electrical installations
Ind 55.26	Footlight trough	Ind 55.63	Fire extinguishing equipment
Ind 55.27	Fireproof paint	Ind 55.64	Illumination; exit lights and signs
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Ind 55.29	Boiler and furnace rooms	Ind 55.66	Toilet facilities
Ind 55.30	Lights and lighting	Ind 55.67	Outdoor theaters
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Ind 55.32	Staircases		
Ind 55.34	Fire extinguishers		

Ind 55.001 Theaters. In the theater classification, are included all buildings or parts of buildings, containing an assembly hall, having a stage which may be equipped with curtains or permanent or movable scenery, or which is otherwise adaptable to the showing of plays, operas, motion pictures or similar forms of entertainment.

Ind 55.01 Assembly halls. (1) In the assembly hall classification, are included all buildings, or parts of buildings, other than theaters, which will accommodate more than 100 persons for entertainment, recreation, instruction, worship or dining purposes.

(a) Every assembly hall which will accommodate not more than 100 persons shall conform to the requirements of Wis. Adm. Code chapter Ind 54, covering factories, office and mercantile buildings.

Ind 55.02 Class of construction. (1) The capacities of buildings or parts of buildings in this classification for the various types of construction shall not exceed, and shall comply, with the following requirements:

**MAXIMUM CAPACITIES**

Type of Construction	MAXIMUM CAPACITIES	
	With Stage	Without Stage
Fire Resistive	No Limit	No Limit
MHI	750	1,500
Ordinary	500	1,000
Frame	300	750

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(a) *Exception.* The fire protection for structural steel supporting the roof may be omitted in one-story buildings in this classification provided the roof and its supports are of incombustible or mill construction throughout.

(2) **Frame construction.** Where a building of this classification is erected of frame construction, the following restrictions shall apply:

(a) Not more than one story in height without a balcony, and with no basement except a heating and fuel room enclosed with fire-resistive construction as specified in section Ind 55.29, with all interior openings protected with self-closing fire-resistive doors as specified in section Ind 51.017.

(b) Located at least 20 feet from any other building or adjoining property line.

(c) Is not built in connection with a building used for any other purpose.

(d) Is provided with foundation walls and piers of masonry construction.

(e) Where motion picture booths are required, they shall be enclosed with 2-hour fire-resistive construction.

*Exception:* In places of worship, a full basement and a balcony seating not more than 30 persons may be provided.

(3) **Balconies** accommodating more than 100. In any theater or assembly hall, balconies which accommodate more than 100 persons shall be of fire-resistive construction as specified in section Ind 51.001.

*History:* 1-2-66: (1); (1) (a); (2); (2) (a); (2) (b); (2) (c); (2) (d); (2) (e); (2) (f); (3); am. Register, June, 1956, No. 6, eff. 7-1-56; am. (1) (a), Register, August, 1957, No. 20, eff. 9-1-57; am. Register, January, 1961, No. 61, eff. 2-1-61; am. (2) (a), Register, February, 1971, No. 182, eff. 7-1-71.

**Ind 55.03 Height above grade.** (1) **THEATERS.** The height of the sills of the principal entrance doors to any theater, as defined in section Ind 55.001, shall be not more than 18 inches above the outside grade at that point. The floor level at the highest row of seats on the main floor shall not be more than 6 feet above the outside grade at the main entrance; the floor level at the lowest row of seats on the main floor shall be not more than 6 feet below, or above, the grade at the nearest exit.

(2) **ASSEMBLY HALLS AND ROOF GARDENS ABOVE FIRST STORY.** Where assembly halls are provided above the first story, the following limitation of occupancy, type of construction and exit facilities shall apply:

Type of Construction	Maximum No. of Occupants	Height Above Grade
Fire-resistive	No limit	No limit*
Mill, or Ordinary	400	2nd story or 22 feet
Mill, or Ordinary	200	3rd story or 35 feet

\*One smokeproof stair tower from the level of the assembly hall leading directly to the exterior at street grade shall be provided for every 750 persons capacity, or fraction thereof. These stairways shall be at least 44 inches wide and shall be in addition to other required stairways in the building.

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(5) No seat bench, or other platform or floor area on which seats are placed, or the top seat of any bleachers shall be nearer to the ceiling than 8 feet, nor nearer to the bottom of any truss or girder than 6 feet 4 inches.

(6) The requirements of this section do not apply to restaurants, dining or dance halls.

History: 1-2-56; am. Register, January, 1961, No. 61, sZ. 2-1-61.

**Ind 55.14 Width of aisles.** (1) Aisles having seats on both sides shall not be less than 2 feet 10 inches wide at the beginning and shall increase in width toward the exits at the rate of  $\frac{1}{4}$  inch per foot of run; or the aisle may have a uniform width not less than the average width of the foregoing calculation. No wall aisle shall be less than 3 feet wide and no other straight aisle shall be less than 3 feet 6 inches wide.

(2) There shall be a cross aisle leading to each required side exit. Cross aisles shall not be less than 6 feet 8 inches back to back of adjacent rows of seats.

**Ind 55.15 Lobbies and foyers.** The width of lobbies and foyers shall be determined on the same basis as required for exits in section Ind 55.12, but shall in no case be less than 5 feet wide, and shall be so designed and apportioned as to prevent congestion and confusion. Lobbies and foyers which serve as means of egress shall be at least equal in combined width to the required width of the stairways, passageways, aisles or exit doorways leading to them.

**Ind 55.16 Inclines and aisle steps.** (1) To overcome any difference in level between courts, corridors, lobbies, passageways or aisles required, or used, in egress from a theater or an assembly hall, approved ramps as specified in section Ind 55.08 shall be employed where the difference in elevation does not exceed 2 feet, except that this requirement need not apply to balconies.

(2) Steps in balcony aisles shall extend the full width of the aisle and shall have a uniform rise and run as specified in section Ind 55.09. No handrails will be required.

**Ind 55.17 Obstruction.** (1) All lobbies, aisles, passageways and doorways shall be kept free from furniture, drapes, display equipment, merchandise, vending machines and other obstructions, and no person except an employe shall be allowed to stand in, or occupy, any of the aisles, passageways, corridors or lobbies during any performance or public gathering. Except that patrons may be allowed to wait in a lobby or similar space if such use does not encroach upon the required clear width of the exits. Such waiting shall be restricted to areas separated from the required exit ways by fixed railings not less than 42 inches high. In entrance lobbies only, the exit space may be divided by railings not less than 36 inches high set up in the direction of travel in an approved manner for the regulation of ingress and egress.

(2) A booth or counter for the sale of package merchandise may be placed in the lobby or foyer of a theater where there is sufficient excess space so that the front of the booth or counter can be located not less than 5 feet back of the line marking the width of the lobby or foyer required for exit purposes.

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**Ind 55.18 Mirrors and false openings.** (1) No mirror shall be placed in any part of a theater or assembly hall used by the public for exit purposes, including lobbies, corridors, stairways, ramps or any other exit facility. Where a mirror is used in an auditorium, it shall be placed flush with the wall and with the bottom at least 7 feet above any floor, balcony, gallery or platform.

(2) No false opening or decorative device giving the appearance of a door or window, where none exists, shall be placed in any part of a theater or assembly hall used by the public.

**Ind 55.19 Decorations.** Fabric decorations used in theaters and assembly halls shall be flame proof.

**Ind 55.20 Elevator and vent shafts.** Enclosures for elevator and vent shafts shall be of 2-hour fire-resistive construction as specified in section Ind 51.04 and all openings therein protected by fire-resistive doors or windows as specified in section Ind 51.047.

**History:** 1-2-56; am. Register, February, 1971, No. 122, eff. 7-1-71.

**Ind 55.21 Stage separation.** (1) In every theater and assembly hall the stage shall be completely separated from the auditorium by a proscenium wall of 4-hour fire-resistive construction as specified in section Ind 51.04, except as follows:

(a) In theaters and assembly halls having a capacity not exceeding 500 persons, the proscenium wall shall be of 2-hour fire-resistive construction as specified in section Ind 51.04, or better.

(b) In theaters and assembly halls an open stage or platform will be permitted without the proscenium wall separation from the auditorium, provided the stage or platform is not more than 6 feet higher or wider than the proscenium opening.

**History:** 1-2-56; am. (1) intro par., and (1) (b), Register, February, 1971, No. 122, eff. 7-1-71.

**Ind 55.22 Proscenium wall.** (1) The proscenium wall shall extend from an incombustible foundation, or from the lowest fireproof floor below the stage floor, to the highest adjoining roof, except that where a 4-hour fire-resistive wall is required it shall extend at least 2 feet above the highest adjoining roof.

(2) There shall be not more than 2 openings in the proscenium wall below the level of the auditorium floor, and not more than 2 openings other than the proscenium opening, in the proscenium wall above the level of the auditorium floor, except that in addition to the above openings there may be one opening to provide access through the proscenium wall to the orchestra pit.

(3) Each such opening shall not exceed 21 square feet in area and shall be protected by a fire-resistive door as specified in section Ind 51.09, or equal.

**Ind 55.23 Proscenium curtain.** Where a proscenium wall is required for the separation of a stage from an auditorium, the proscenium opening shall be provided with a curtain as approved by the department.

**Note:** The department will accept standards for the design and installation of "Proscenium Curtains" as specified in the 1970 edition of the "Uniform Building Code" published by the International Conference of Building Officials.

**History:** 1-2-56; r. and rec. Register, May, 1971, No. 125, eff. 6-1-71.

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**Ind 55.24 Automatic smoke outlet.** Where a fireproof proscenium curtain is required, or provided, the stage shall be provided with one or more automatic smoke outlets, constructed of metal or other incombustible material, placed near the center and above the highest part of the stage, and having a combined area equal to not less than 8% of the area of the stage floor. Vertical louver openings shall be placed not less than 3 feet above the roof and shall be not less than twice the area of the shaft. The smoke outlet shall be designed and constructed so as to open by gravity, and so as to effectively overcome the effects of neglect, rust, dirt, frost, snow, heat, twisting, or warping of the frame work. The louvers, or dampers in the openings shall be held closed by cotton or hemp cords running to the stage floor close to each stage door. Fusible links, or other approved heat release devices, shall be inserted in each cord near the outlets.

**Ind 55.25 Stage vestibules.** All entrances to the stage shall be vestibuled in such manner as to protect the curtain, scenery, and auditorium from drafts of air.

**Ind 55.26 Footlight trough.** The footlight trough shall be made of, or lined with, incombustible material.

**Ind 55.27 Fireproof paint.** All stage scenery, properties, curtains, and decorations made of combustible material, and all woodwork in or about the stage, shall be effectively flame-proofed.

**Ind 55.28 Stage accessory rooms.** (1) All dressing rooms, property rooms, and other storage or workrooms shall be built of incombustible material throughout, and shall be separated from the stage by a special occupancy separation as specified in Wis. Adm. Code section Ind 51.08.

(2) No dressing room or employes' room shall be placed more than one story below the grade line, and no dressing room shall be placed above or below the auditorium unless separated therefrom by a special occupancy separation as specified in section Ind 51.08.

**Ind 55.29 Boiler and furnace rooms.** (1) Every boiler or furnace room, including the breeching and fuel room, shall be enclosed with a 3-hour fire-resistive enclosure as specified in section Ind 51.04, except that in case of an assembly hall accommodating not more than 300 persons, a 2-hour fire-resistive enclosure as specified in section Ind 51.04 may be used. All openings shall be protected with self-closing fire-resistive doors as specified in section Ind 51.047.

(2) All appliances used for heating water which are fired with solid fuel, liquid fuel or gas shall be located in a boiler or furnace room except that gas fired booster water heaters used exclusively for sanitizing dishes and cooking utensils need not be installed in a fire-resistive enclosure.

**History:** 1-2-56; r. and recr. (2). Register, August, 1957, No. 20, eff. 8-1-57; am. (1). Register, September, 1959, No. 45, eff. 10-1-59; am. (1). Register, February, 1971, No. 182, eff. 7-1-71.

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Chapter Ind 56

SCHOOLS AND OTHER PLACES OF INSTRUCTION

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Ind 56.06	Number, location and type of exits	Ind 56.16	Sanitary facilities
Ind 56.07	Total width of exits	Ind 56.17	Lighting
Ind 56.08	Exit doors	Ind 56.18	Fire extinguishers
Ind 56.08	Passageways	Ind 56.19	Fire alarms

Ind 56.001 Scope. The requirements of this chapter, sections Ind 56.001 to Ind 56.19 inclusive, shall apply to all public and private schools, universities, colleges, academics, seminaries, libraries, museums and art galleries; including all buildings or parts of buildings used primarily for instructional purposes.

History: 1-2-56; am. Register, May, 1971, No. 185, eff. 6-1-71.

Ind 56.01 History: 1-2-56; r. Register, May, 1971, No. 185, eff. 6-1-71.

Ind 56.02 Classes of construction. (1) Every building not more than one story in height may be of frame construction as specified in Section Ind 51.03.

(2) Every 2-story building shall be not less than ordinary class of construction as specified in Section Ind 51.02 with exception that all floors and their supports shall be at least noncombustible one-hour fire-resistive rating.

(3) Every building 3 or more stories in height shall be of fire-resistive class of construction as specified in Section Ind 51.01 except that roofs may be constructed of noncombustible 1-hour construction.

(a) Exception: The fire protection for structural steel supporting the roof may be omitted in 1-story sections of this classification provided the roof and its supports are of noncombustible or mill construction throughout.

History: 1-2-56; r. and rec. Register, May, 1971, No. 185, eff. 6-1-71.

Ind 56.03 History: 1-2-56; am. Register, February, 1971, No. 182, eff. 7-1-71; r. Register, May, 1971, No. 185, eff. 6-1-71.

Ind 56.04 Subdivisions and fire stops. Every building of this classification which is built in connection with a building of a lower grade of construction shall be separated from such other building by walls of 4-hour fire-resistive construction as specified in section Ind 51.04, and all communicating openings shall be protected by fire-resistive doors as specified in section Ind 51.047 or equal. If such openings are used as a means of egress, they shall be kept normally open during the occupancy of the building.

History: 1-2-56; am. Register, February, 1971, No. 182, eff. 7-1-71.

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**Ind 56.05 Exterior wall openings.** (1) Every building more than one story shall be provided with wall openings for emergency purposes above the first story as specified in subsection Ind 52.02 (1) (b) with exception to the following:

(a) The requirement for wall openings is waived where the building design provides for installation of equipment to satisfy one of the following:

1. The building is equipped throughout with an approved automatic sprinkler system as specified in section Ind 51.23 connected to a fire alarm (see Ind 56.19).

2. The building is equipped throughout with an approved automatic fire protection device connected to a fire alarm (see section Ind 56.19), or to a sprinkler system (see section Ind 51.23).

*Note:* See definition section Ind 51.041 (2) for automatic.

(2) One story buildings with no floor levels below the first floor need not be provided with wall openings as referred to in subsection Ind 56.05 (1).

(3) Every building with floor levels below the first story shall at such levels be protected with an approved automatic sprinkler or fire protection system referred to in subsection (1) (a) 1. or 2.

*History:* 1-2-56; am, Register, January, 1961, No. 41, eff. 2-1-61; r. and rec., Register, May, 1971, No. 185, eff. 6-1-71.

**Ind 56.06 Number, location and type of exits.** (1) The number and location of exits shall be such that in case any exit is blocked at any point some other exit will still be accessible through public passages, from every room used by the public or by the occupants generally. Except that in a high school, university, college, library or museum building not more than 2 classrooms of ordinary size (900 square feet area) may be placed between an exit and the end of the building, provided that the exit doors from such classrooms are not more than 10 feet beyond the exit.

(a) Travel distance to an exterior exit door or a required fire rated enclosure from any point in a building shall not exceed 150 feet. Exception:

1. For building service and similar areas not accessible to the general public the travel distance may be increased to 300 feet.

(2) Number, location and type of exits for auditoriums, gymnasiums and field houses.

(a) Every floor and balcony shall be provided with not less than 2 exits, placed as far apart as practicable and so located that if any exit is blocked, some other exit will still be available from every part.

(b) All required exit doors from these areas shall be identified by approved exit lights.

(3) In buildings of more than one story, there shall be at least 2 stairway exits, each leading directly out of doors. The remaining exits shall be either such stairways or horizontal exits as specified in section Ind 51.19. Where such stairways lead to the basement they shall be enclosed below the first floor as specified in section Ind 51.18.

(4) In buildings of more than 2 stories, all stairways shall be enclosed as specified in sections Ind 51.17-51.18.

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(5) Fire escapes may only be used as exits from the temporary end of incomplete or unit type buildings, as approved in writing by the department of industry, labor and human relations. Such fire escapes shall be of the "B" type where more than 100 persons can be accommodated above the first story.

(6) Handrails shall be provided on both sides of all exit stairs used by pupils.

(7) No storage closet or storage space shall be placed under any stairway, platform or landing. A room may be placed under a stairway or stair landing of two-hour fire resistive construction or better provided such room does not have any combustible material or hazardous equipment, stored or operated therein. All such rooms shall have a ceiling height of not less than 7 feet and the door thereto shall be a self-closing solid flush type wood door 1½ inches in thickness or better.

(8) A room may be placed under a stairway or stair landing of 2-hour fire-resistive construction or better provided such room does not have any combustible material or hazardous equipment, stored or operated therein.

History: 1-2-56; am. (1), cr. (1) (a), Register, September, 1959, No. 46, eff. 10-1-59; am. Register, January, 1961, No. 61, eff. 2-1-61; r. and reop. (1) (a), renum. (2) to be (3), (3) to be (4), (4) to be (5), (5) to be (6) and (6) to be (7), and cr. (2) and (8), Register, May, 1971, No. 155, eff. 4-1-71.

**Ind 56.07 Total width of exits.** (1) The total width of exits from any floor shall be not less than the following rates, based on the total capacity of such floor and of the floors above.

- (a) Fire-resistive buildings, 30 inches per 100 persons.
- (b) Ordinary or frame buildings, 40 inches per 100 persons.

(2) Where permitted under Wis. Adm. Code section Ind 56.06, standard fire escapes may be used for not to exceed one-third of the above total widths.

(3) The capacity of educational buildings or any individual story or section thereof for the purpose of determining exits shall be the maximum capacity designated on approved plans.

(a) The maximum capacity shall not exceed the requirements of subsection (b).

(b) The computed capacities of all rooms and spaces as listed below shall be determined on the basis of the minimum net square feet area per person shown for that occupancy unless otherwise designated on the plans.

	Minimum Square Feet Per Occupant
1. Administrative and office space .....	75
2. Auditoriums, gymnasiums, field houses, theatres, lecture rooms (fixed seating) .....	6
3. Gymnasiums, field houses, multipurpose rooms, cafeterias, study halls, commons and other level floor areas with nonfixed individual seating .....	10
4. Bleachers (one seat per 18 inches of bench length)	
5. Regular academic classrooms .....	20
6. Libraries and resource centers .....	20
7. Laboratories—Science (fixed lab. tables) .....	30

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8. Home economics, business education .....	30
9. Music	
a. Vocal .....	10
b. Instrumental .....	20
10. Arts, crafts, drafting .....	30
11. Industrial arts—vocational shop .....	50
12. Special education	
a. Mentally retarded, physically handicapped, etc.	35

**History:** 1-2-56; r. and rec. (3), Register, May, 1971, No. 185, eff. 6-1-71.

**Ind 56.09 Exit doors.** Exit doors shall comply with the requirements of Wis. Adm. Code section Ind 51.15, except that in elementary schools the width may be reduced to 3 feet. The aggregate width of exit doors shall be as required in section Ind 56.07. No single door or leaf of a double door shall be more than 42 inches wide.

**Ind. 56.09 Passageways.**

(1) The minimum unobstructed width of corridors and passageways which are used by the public or by the occupants generally, shall be determined in the same manner as specified for stairways in section Ind 56.07, but in no case shall this width be less than 4 feet. Corridors and passageways serving as a means of egress shall be at least equal in combined width to the required width of the stairways or passageways leading to them.

**History:** 1-2-56; r. (1) and renum. (2) to be (1), Register, May, 1971, No. 185, eff. 6-1-71.

**Ind 56.10 Access to attic and roof.** Every building more than one story in height shall have permanent means of access to the roof and attic space from inside the building. Where a scuttle opening is provided, the opening shall be not less than 20 x 30 inches, with a permanent enclosure for a stairway or ladder leading thereto.

**Ind 56.11 History:** 1-2-56; am. (3), Register, September, 1959, No. 47, eff. 10-1-59; am. Register, January, 1961, eff. 2-1-61; r. Register, May, 1971, No. 185, eff. 6-1-71.

**Ind 56.12 History:** 1-2-56; am. Register, December, 1962, No. 84, eff. 1-1-63; am. (1) (intro. par.) Register, October, 1967, No. 143, eff. 11-1-67; r. Register, May, 1971, No. 185, eff. 6-1-71.

**Ind 56.13 Auditoriums, gymnasiums and field houses.** (1) AUDITORIUMS, GYMNASIUMS, field houses and other large group occupancy areas shall comply with the requirements of Chapter 56. Where any area of building in this category has a stage loft in excess of 25' 0" in height above the stage floor and is equipped with permanent or movable scenery, it shall comply with sections Ind 55.21 to 55.24 inclusive.

**Note:** 1. It is the intent to differentiate between a theatre and an auditorium, gymnasium, field house or other large group occupancy area.

(2) SEATING. (a) All seats, chairs and benches shall be placed so as to provide a minimum unobstructed passage of 12 inches measured horizontally between plumb lines at the farthest projection of the back of one seat and the front of seat immediately behind.

**Note:** 1. Above measurements are relative to the furthest projection when seat is in its normal unseated position such as self-rising seat. 2. See allowable occupant space capacity under subsection Ind 56.07 (3) (b) 3. For exception see Ind 56.13 (3) (b) 3.

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(b) The maximum number of seats in a row.

1. With aisles on both sides of row the maximum number of seats shall be 14.

2. With an aisle on only one end of row the maximum number of seats shall be 7.

3. The number of seats in a row may be increased to 100 where:

a. A minimum unobstructed passage of 18 inches between rows of seats measured horizontally between plumb lines at the farthest projection of the back of one seat and the front of seat immediately behind.

Note: For measurements see "Note No. 1" under Ind 56.13 (2) (a).

b. The unobstructed passage between rows leads to a side aisle on each end of row where exit doors are located at no more than 20 feet intervals leading to an exit corridor or exit court.

(c) No platform on which seats are placed shall be more than 22 inches in height of riser.

(d) The highest level of any floor or platform whether level, tiered or sloped, shall provide no less than 7 feet vertical clearance between floor and any ceiling construction or projection beneath the ceiling.

(3) WIDTH OF AISLES. (a) Aisles having seats on both sides shall not be less than 2 feet 10 inches wide at the beginning and shall increase in width toward the exits at the rate of  $\frac{1}{4}$  inch per foot of run; or the aisle may have a uniform width not less than the average width of the foregoing calculation. No wall aisle shall be less than 3 feet wide and no other straight aisle shall be less than 3 feet 6 inches wide.

(b) There shall be a cross aisle leading to each required side exit. Cross aisles shall not be less than 6 feet 8 inches back to back of adjacent rows of seats.

History: 1-2-56; r. and rec., Register, May, 1971, No. 185, eff. 6-1-71.

Ind 56.11 Seats, desks and aisles. (1) Seats, desks, tables and other loose equipment need not be fastened to the floor or to each other provided that any seating arrangement used, will maintain during occupancy, free and unobstructed intermediate, cross and wall aisles leading to the exit.

(a) Stepped floors or tiered platforms shall be no less than 48 inches in width to permit the above arrangement.

(b) Seats, desks, tables and other loose equipment used in instructional occupancies shall be of a durable type of construction to assure safety and stability.

History: 1-2-56; r. and rec., Register, May, 1971, No. 185, eff. 6-1-71.

Ind 56.15 Heating plants. (1) In every building more than one story in height, all heating plants and fuel rooms shall be enclosed with not less than 4-hour fire-resistive construction as specified in Wis. Adm. Code section Ind 51.04. All openings shall be protected with self-closing fire-resistive doors as specified in section Ind 51.047.

(2) In one story buildings all heating plants and fuel rooms shall be enclosed with not less than 2-hour fire-resistive construction as specified in section Ind 51.04, except that this requirement shall not apply to buildings where jacketed stoves or school room heaters

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are permitted. All openings shall be protected by self-closing fire-resistant doors as specified in section Ind 51.047.

**History:** 1-2-56; am. Register, February, 1971, No. 182, eff. 7-1-71.

**Ind 56.16 Sanitary facilities.** (1) The following tabulated groups or combinations thereof shall be provided with one fixture of each type to serve the maximum number of persons designated for the appropriate group or groups.

Type of Fixture	K-6	7-12	Post High School	Large Group Occupancy Areas	Administrative Areas
Water Closets (F).....	35	50	100	200	10
Water Closets (M).....	75	100	200	500	15
Urinals.....	35	50	100	150	10
Lavatories.....	75	100	100	150	15
Drinking Fountains . . . . .	1 per 6,000 sq. ft. floor area and or 1 per floor				

(a) Where a theatre is a part of an educational facility the requirements listed under "large group occupancies" shall apply.

**History:** 1-2-56; am. (2), (3), (4) and (4) (a), Register, September, 1959, No. 45, eff. 10-1-59, r. and recr. (4), Intro. par., Register, December, 1967, No. 141, eff. 1-1-68; r. and recr. Register, May, 1971, No. 185, eff. 6-1-71.

**Ind 56.17 Lighting.** (1) **ELECTRIC LIGHTING.** Every class, study or recitation room shall be equipped with sufficient electrical lighting units to maintain the illumination required in Wis. Adm. Code Chapter Ind 19, Illumination Code.

(2) **GENERAL.** All other rooms and spaces in school buildings shall be equipped with means for supplying electric illumination in the quantity required for the purpose for which the room or space is used. All electrical work shall be installed to conform to the requirements of the Wisconsin State Electrical Code.

**History:** 1-2-56; am. Register, January, 1961, No. 61, eff. 2-1-61; cr. (3), Register, November, 1963, No. 95, eff. 12-1-63; am. (3) (c), Register, February, 1971, No. 182, eff. 7-1-71; r. and recr. Register, May, 1971, No. 185, eff. 6-1-71.

**Ind 56.18 Fire extinguishers.** In every building, standard fire extinguishers, as specified in Wis. Adm. Code section Ind 51.22, shall be provided in the proportion of one extinguisher to each 2,500 square feet, or fraction, of floor area, but there shall be at least the fire extinguisher on each floor including basement. In addition to the fire extinguishers for general protection there shall be at least one extinguisher of appropriate type and size in each laboratory, art, shop or other vocational room. Every fire extinguisher shall be prominently exposed to view and always accessible.

**History:** 1-2-56; am. Register, May, 1971, No. 185, eff. 6-1-71.

**Ind 56.19 Fire alarms.** Every building shall be provided with a proper alarm system complying with Wis. Adm. Code section Ind 51.24.

**History:** 1-2-56; am. Register, May, 1971, No. 185, eff. 6-1-71.

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(3) In all buildings more than 2 stories in height in which the first story is used for business purposes, at least one stairway shall be enclosed in the first story with an unpierced wall of 2-hour fire-resistant construction, as specified in section Ind 51.04, and such stairway shall not connect with the basement.

(4) Every elevator shaftway, dumbwaiter shaftway, clothes chute, wastepaper chute, pipe shafts and other similar vertical shafts in buildings more than 2 stories in height shall be enclosed with 2-hour fire-resistant partitions, as described in section Ind 51.04, except that for 3 story buildings, 1-hour fire-resistant partitions may be used where the enclosure does not pass through a business portion. In all cases the basement enclosure shall be of not less than 4-hour fire-resistant construction.

History: 1-2-56; am. Register, February, 1971, No. 182, eff. 7-1-71.

**Ind 57.13 Toilet rooms.** (1) Every building within this occupancy classification shall be provided with toilet rooms meeting the requirements of this section and the requirements for general sanitation, section Ind 52.50 through 52.64.

(a) Each living unit of an apartment or row house building shall be provided with a toilet room having a water closet, lavatory and bathing facilities.

(2) Every building within this occupancy classification, except apartment buildings, shall have at least one water closet for every 10 persons or fraction thereof.

(a) Occupants of rooms with private water closets shall not be considered in counting either the number of persons or the number of fixtures.

Note: For general toilet room requirements, see sections Ind 52.50 to Ind 52.64, inclusive.

History: 1-2-56; am. (1), (2) and (3), Register, June, 1966, No. 6, eff. 7-1-69; cr. (4), Register, July, 1967, No. 139, eff. 8-1-67; r. and recr., Register, December, 1970, No. 180, eff. 1-1-71.

**Ind 57.14 Washing facilities.** Every building within this occupancy classification where water supply is available or can be made available, there shall be at least one sink or wash bowl in connection with each toilet fixture.

History: 1-2-56; r. and recr., Register, December, 1970, No. 180, eff. 1-1-71; am. Register, May, 1971, No. 185, eff. 6-1-71.

**Ind 57.15 Repairs.** Every building of this classification, and all parts thereof, shall be kept in good repair and the roof shall be maintained to prevent leakage. All rainwater shall be so drained and conveyed therefrom to prevent dampness in the walls and ceilings.

**Ind 57.16 Cleanliness.** Every building shall be kept clean, and shall also be kept free from any accumulation of dirt, filth, rubbish, garbage, or other matter in or on the same or in the yards, courts, passages, areas or alleys connected with or belonging to the same.

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**Ind 57.17 Size of rooms.** (1) Every sleeping room shall be of sufficient size to afford at least 400 cubic feet of air space for each occupant over 12 years of age, and 200 cubic feet for each occupant under 12 years, except that a minimum of 150 cubic feet may be provided for infants in hospital nurseries. No greater number of occupants than the number thus established, shall be permitted in any such rooms.

**History:** 1-2-56, r. and recr. Register, June, 1967, No. 128, eff. 7-1-67; r. and recr. (2), Register, July, 1967, No. 139, eff. 8-1-67; r. (2), Register, December, 1970, No. 180, eff. 1-1-71.

**Ind 57.18 Basement rooms.** (1) No living or sleeping room shall have its floor level below the adjoining yard, court, alley or street grade.

(2) No rooms wherein persons are forcibly confined shall be located in a basement.

**Ind 57.19 Windows.** (1) The outside windows in every sleeping or living room shall have a total sash area of at least 1/10th of the floor area of the room but not less than 12 square feet. The openable area of such windows shall be equal to not less than 5% of the floor area of the room served.

**History:** 1-2-56; r. and recr. Register, September, 1969, No. 46, eff. 10-1-69; r. and recr. Register, June, 1967, No. 128, eff. 7-1-67; r. and recr. (2), Register, July, 1967, No. 139, eff. 8-1-67; r. (2), Register, December, 1970, No. 180, eff. 1-1-71.

**Ind 57.20 Isolation of fire hazards.** (1) All boiler and furnace rooms, including fuel rooms and breeching, all laundries, drying rooms, carpenter shops, paint shops, and other hazardous work rooms and storage rooms in hospitals and buildings accommodating transients which are more than 3 stories in height and in all asylums and other places of detention shall be enclosed with a 4-hour fire-resistant enclosure as specified in section Ind 51.04. All openings shall be protected by self-closing fire-resistant doors as specified in section Ind 51.047.

(2) In all other buildings under this classification, such rooms shall be enclosed with a 2-hour fire-resistant enclosure as provided in section Ind 51.04, or better, except as otherwise provided in this section.

(3) In apartment buildings not more than 2 stories in height, such rooms shall be enclosed with a 1-hour fire-resistant enclosure as specified in section Ind 51.04, or better, except as provided in subsection (5).

(4) In one-story buildings having a floor area of not more than 3,000 square feet and two-story buildings having a floor area of not more than 1,500 square feet per floor which are used for business purposes and also accommodate not more than two families, such rooms shall be enclosed with a 1-hour fire-resistant enclosure, as specified in section Ind 51.04, or better.

(5) The enclosure for the heating plant may be omitted in apartment buildings not more than 2 stories in height and having not more than 2 apartments on a floor and in rooming houses not more

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