

adjoining the building) to the highest part of the roof, if a flat roof, or to a point 2/3 of the height of the roof, if a gabled or hipped roof. If the grade of the lot or adjoining sidewalk in the rear or alongside of the building falls below the grade at the front, the height shall be measured at the center of the lowest side.

**Ind 51.13 Basement; first floor; number of stories.** A basement is a story whose floorline is below grade at any entrance or exit and whose ceiling is not more than 5 feet above grade at any such entrance or exit. The first floor is the floor next above the basement, or the lowest floor if there is no basement. The number of stories of a building includes all stories except the basement.

**Ind 51.14 Street; alley; court.** (1) A street is any public thoroughfare 30 feet or more in width.

(2) An alley is any public thoroughfare less than 30 feet, but not less than 10 feet, in width.

(3) A court is an open, unoccupied space other than a street or alley and bounded on one or more sides by the walls of a building.

**Ind 51.15 Standard exit.** (1) Every door which serves as a required exit from a public passageway, stairway or building shall be a standard exit door unless exempted by the occupancy requirements of this code.

*Note:* For required exits see Wis. Adm. Code sections Ind 54.06, 55.10, 56.08, 57.09.

(2) Every standard exit door shall swing outward or toward the natural means of egress (except as below). It shall be level with the floor, and shall be so hung that, when open, it will not block any part of the required width of any other doorway, passageway, stairway or fire escape. No revolving door, and no sliding door except where it opens onto a stairway enclosure or serves as a horizontal exit, shall be considered as a standard exit door.

(3) A standard exit door shall have such fastenings or hardware that it can be opened from the inside without using a key, by pushing against a single bar or plate, or turning a single knob or handle; it shall not be locked, barred, or bolted at any time while the building is occupied.

(4) A standard exit doorway shall not be less than 6 feet 4 inches high by 3 feet 4 inches wide, except where especially provided under occupancy classifications and in Wis. Adm. Code section Ind 51.20. Where double doors are provided with or without mullions, the width of each single door may be reduced to 2 feet 6 inches.

(5) All exit doors, unless otherwise exempted by the occupancy requirements of this code, shall be plainly marked by a red illuminated translucent exit sign bearing the word EXIT or OUT in plain letters not less than 5 inches in height and in such other places as may be necessary to direct the occupants to the exit doorways.

(6) Doors, windows or other openings which are not exits but which give the appearance of exits shall be effectively guarded.

(7) Safeguards for physically handicapped persons:

(a) Every public building, the construction of which is commenced after January 1, 1964, shall be so designed and constructed to provide

a reasonable means of ingress and egress for physically handicapped persons with the exception of those listed in subsection (j).

(b) There shall be at least one grade or street level entrance without steps. The door shall be at least 6 feet 4 inches high and not less than 3 feet 4 inches wide and shall comply with all other requirements of this section.

(c) Where the door sill or floor is above or below grade or street level, the difference in elevation shall be accomplished by a ramp with a slope of not more than one foot of rise in 12 feet, and shall be finished with a non-slippery surface.

(d) Other grade or street level entrances not so designed or constructed shall be marked with a sign indicating the location of the entrance or exit available for wheel chair service.

(e) The ramp shall be at least 3 feet 8 inches in width of which not more than 4 inches on each side may be occupied by a handrail.

(f) All ramps shall have a handrail on each side. Handrail shall not be less than 2 feet 6 inches in height with an intermediate rail at mid-height.

(g) The floor on the inside and outside of each ramp doorway shall be level for a distance of 6 feet from the door.

(h) Every ramp shall have at least 6 feet of level clearance at the bottom.

(i) All ramps shall have a level platform at 30-ft. intervals and shall have a level platform at least 6 feet in length wherever they turn.

(j) *Exceptions.*

1. Apartment buildings with less than 20 living units.
2. Row houses.
3. Convents and monasteries.
4. Jails and other places of detention.
5. Garages, service stations, hangers, boathouses, and other buildings in the hazardous occupancy classification.
6. Factories and mercantile buildings.
7. State owned buildings built for field service purposes such as, but not limited to, conservation commission fire towers, fish hatcheries, tree nursery buildings, and warehouses.
8. Existing buildings to be remodeled or changed in use where compliance cannot reasonably be obtained.

**History:** 1-2-56; am. Register, December, 1962, No. 81, eff. 1-1-63; am. (5) and cr. (7), Register, November, 1963, No. 95, eff. 12-1-63.

**Ind 51.16 Stairways.** (1) **DEFINITION.** By a stairway is meant one or more flights of steps and the necessary platforms connecting them to form a continuous passage from one level to another within a building or structure, except as provided in subsection (3) (b).

(2) **WIDTH.** Every required exit stairway, whether enclosed or not, shall be not less than 3 feet 8 inches wide of which not more than 4 inches on each side may be occupied by a handrail. Every platform shall be at least as wide as the stairway, measuring at right angles to the direction of travel. Every straight run platform shall measure at least 3 feet in the direction of travel. Wherever a door opens onto a stairway, a platform shall be provided extending at least the full width of the door in the direction of travel. *Exception:*

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(a) In apartment buildings not more than 2 stories in height and having not more than 2 apartments on a floor and in rooming houses, hospitals, hotels and similar buildings not more than 2 stories in height and having not more than 6 living or sleeping rooms on a floor, such stairways shall not be less than 3 feet wide.

(b) If other stairways are provided in addition to those required by this code, such additional stairways need not conform to the width requirements of this code.

(3) **HANDRAILS.** All stairways and steps of more than 3 risers shall have at least one handrail. Stairways and steps 5 feet or more in width, or open on both sides, shall have a handrail on each side. Stairways and steps which are less than 5 feet in width shall have a handrail on the left hand side as one mounts the stairs and on the open side, if any.

(a) Stairways which are more than 8 feet wide shall be divided by center rails into widths not more than 8 feet nor less than 3 feet 8 inches. Rails shall be not less than 2 feet 6 inches above the nose of the treads or 3 feet 6 inches above the platform except as specified in Wis. Adm. Code section Ind 51.20. Railings on the open sides of stairways and platforms shall be provided with an intermediate member at midheight or with vertical members having a maximum spacing of 11 inches, or its equivalent in safety.

(b) Stairways on the outside of buildings and an integral part thereof, having more than 3 risers, shall have a handrail at each side, and if the stairway is more than 50 feet wide, one or more intermediate handrails shall be provided.

(c) Where an exit door leads to an outside stairway, platform or sidewalk, the level of the platform or sidewalk shall not be more than 7 $\frac{3}{4}$  inches below the door sill except as provided in section Ind 51.20 (4) (g).

(4) **RISERS AND TREADS.** All stairways and steps required as exits by this code shall have a uniform rise of not more than 7 $\frac{3}{4}$  inches and a uniform tread of not less than 9 $\frac{1}{2}$  inches, measuring from tread to tread, and from riser to riser. No winders shall be used. There shall not be more than 18, nor less than 3 risers between platforms or between floor and platform and not more than 22 risers from floor to floor with no platform.

(a) Stairways and steps not required as exits by this code shall have a uniform rise of not more than 8 inches and a uniform tread of not less than 9 inches. If winders are used, the tread shall be at least 7 inches wide at a point one foot from the narrow end.



(b) Standpipes shall be sufficient in number so that any part of every floor area can be reached within 20 feet by a nozzle attached to not more than 75 feet of hose connected to a standpipe.

*Note:* Standpipe outlets should be located in occupied areas, and usually at interior columns in large area buildings. Asylums and places of detention may require special arrangements. It should be possible in all cases to direct the stream into all important enclosures, such as closets, etc.

(c) No required standpipe shall be less than 2 inches in diameter, and not less than 2½ inches in diameter for buildings 5 stories or more in height. Material shall be wrought iron or steel and pipe and fittings shall be of suitable weight for the pressure used. An approved 1½ inch hose valve shall be located in each story, not more than 5 feet above the floor level; valves of the gate type shall be equipped with a suitable open drip connection. An approved pressure-reducing device shall be installed at hose valves where pressure would otherwise be over 50 pounds.

(d) Not more than 75 feet of hose shall be attached to each outlet. Hose shall be of unlined linen construction, 1½ inches in diameter, with a ½ inch nozzle attached, and shall be located in approved cabinets or racks.

(e) Water supply shall be automatic, and be designed for 70 gallons per minute for 30 minutes with 25 pounds flowing pressure at the top outlet. Such supply may be from city connection, gravity tank, pressure tank or pump.

*Note:* Data on the design of standpipe systems can be found in the Standards of the National Board of Fire Underwriters for the Installation of Standpipe and Hose Systems. The Industrial commission will ordinarily approve any installation which is approved by the Underwriters.

**Ind 51.22 Fire extinguishers.** (1) Where fire extinguishers are required, they shall be of a type approved by the industrial commission. All fire extinguishers shall be charged in accordance with the instructions of the manufacturer.

(2) Extinguishers shall be conspicuously located where they will always be readily accessible and so distributed as to be immediately available in event of fire. They shall be hung on hangers or set on brackets or shelves so that the top of the extinguisher is not more than 5 feet above the floor.

*Note:* The industrial commission will ordinarily approve any extinguisher which bears the Underwriters' label and which is of the size, and suitable, for the hazard for which it is intended. Consult the industrial commission for lists of approved extinguishers.

**Ind 51.23 Automatic sprinklers.** (1) Required automatic sprinkler systems shall be designed and constructed in conformity with good established practice. Only materials and devices approved by the industrial commission may be used. Reinstallation of used sprinkler heads is prohibited, and other secondhand devices may be installed by special permission only.

(2) Where an automatic sprinkler system is required throughout a building, supply shall be from a city water main, or from a gravity or pressure tank. If the city water supply is inadequate in either pressure or volume, a tank of not less than 5,000 gallons capacity shall be provided. The bottom of a gravity tank shall be not less than 35 feet above the under side of the roof.

(3) Where automatic sprinklers are required in a basement only, the supply shall be from a city water main. Where there is no city

water supply, such basement sprinklers need not be installed; but at such time as a city supply becomes available, such required basement sprinklers shall be installed.

(4) Every basement sprinkler system shall also include sprinklers in all shafts (except elevator shafts) leading to the story above.

(5) Every sprinkler system shall have a suitable audible alarm and an approved siamese connection marked "To Automatic Sprinklers", and otherwise conforming to Wis. Adm. Code section Ind 51.21 (2) (e).

*Note:* It will be the policy of the industrial commission to approve equipment conforming to standards of the National Board of Fire Underwriters for Sprinkler Equipment, also materials and devices currently listed by the Underwriters' Laboratories. The commission reserves the right to order a sprinkler system in any building, regardless of height or number of persons, if the occupancy is especially hazardous.

**Ind 51.24 Fire alarm systems.** (1) Interior fire alarm systems required under Wis. Adm. Code sections Ind 54.16, Ind 56.19 and Ind 57.22 shall be designed and constructed in conformity with the following requirements:

(2) All such alarm systems shall consist of operating stations on each floor of the building, including the basement, with bells, horns, or other approved sounding devices which are effective throughout the building. The system shall be so arranged that the operation of any one station will actuate all alarm devices connected to the system except in the case of a presignal system. Fire alarms shall be readily distinguishable from any other signalling devices used in the building. A system designed for fire alarm and paging service may be used if the design is such that fire alarm signals will have precedence over all others.

(3) Every fire alarm system shall be electrically operated except as provided in Wis. Adm. Code section Ind 56.19 and shall be operated on closed circuit current under constant electrical supervision, so arranged that upon a circuit opening and remaining open, or in case of a ground or short circuit in the ungrounded conductor, audible trouble signals will be given instantly.

(4) In buildings more than 3 stories in height, coded fire alarm systems shall be provided, and the systems shall be so arranged that the code transmitted shall indicate the location and the story of the structure in which the signal originated.

*Exception:* (a) In apartment buildings, non-coded electrically supervised continuous sounding fire alarm systems will be approved.

(5) Operating stations shall be prominently located in an accessible position at all required exit doors and required exit stairways. Operating stations shall be of an approved type and shall be conspicuously identified. All such operating stations shall be of a type, which after being operated, will indicate that an alarm has been sent therefrom until reset by an authorized means. (Operating stations having a "Break Glass" panel will be acceptable. On coded systems having a device to permanently record the transmission of an alarm, "Open Door" type stations may be used). The fire alarm operating stations shall be mounted approximately 5 feet above the finished floor as measured from the floor to the center of the box.

(6) All such alarm systems shall be tested at least once a week and a record of such tests shall be kept.

(7) Existing fire alarm systems that are effective in operation will be accepted if approved by the industrial commission.

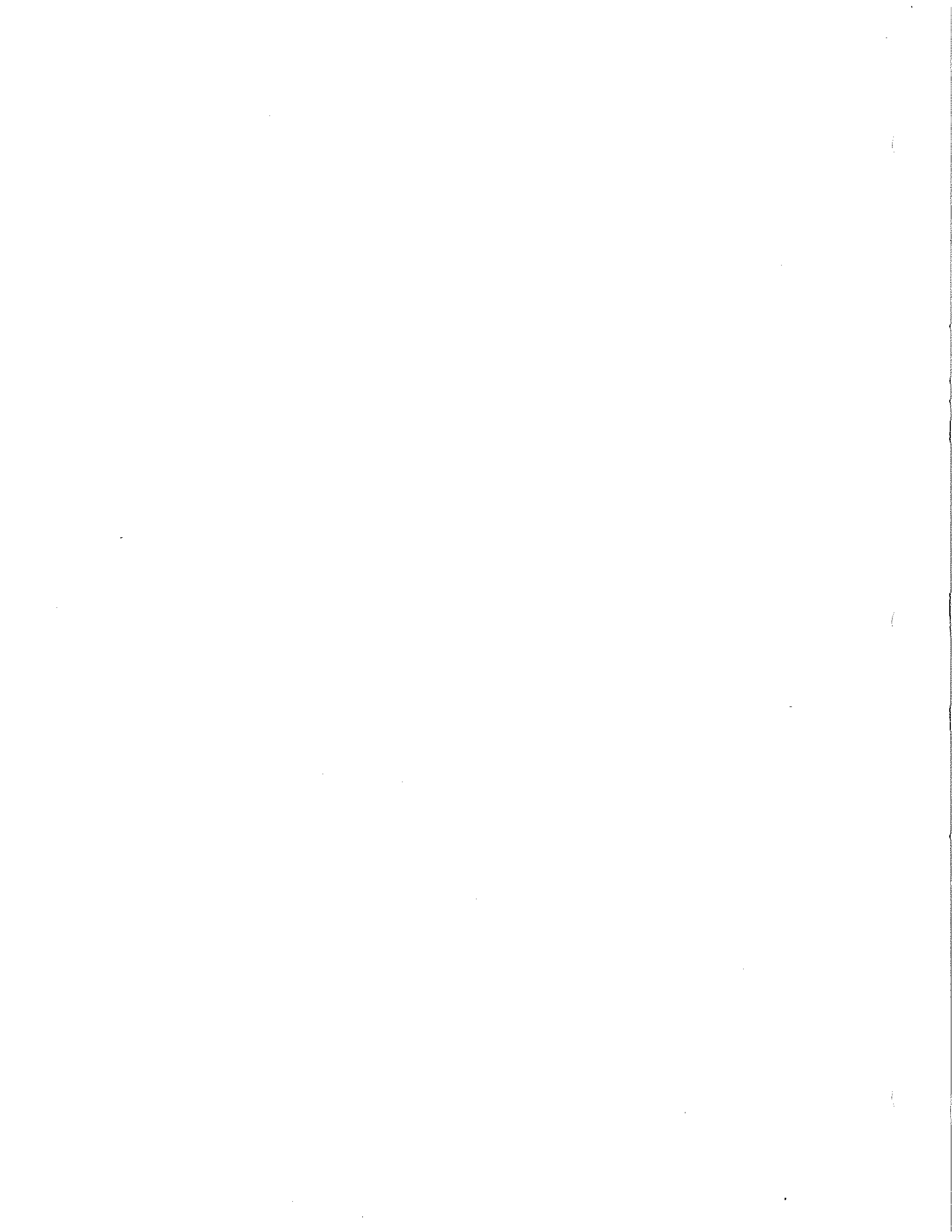
*Note:* The following sections are taken from the Wisconsin state electrical code:

(8) The energy for operation of fire alarm systems shall be taken from sources suited to the design of the system. Primary batteries shall not be used.

(9) A 3-wire 120-240 or 120-208 volt (3 phase 4 wire) service will be accepted for supervised systems provided the operating current is secured from one ungrounded conductor and the neutral, or grounded conductor, and the current for operating trouble signal or signals is secured from the other ungrounded conductor and the neutral or grounded conductor.

(10) Electrical wiring in connection with fire alarm systems shall be installed in rigid metal conduit, flexible metal conduit, electrical metallic tubing or surface metal raceway. Armored cable (metal) may be used where it can be fished in hollow spaces of walls or partitions in apartments or rooming houses not over 3 stories in height. Where the wiring is subject to excessive moisture or severe mechanical injury, rigid metal conduit shall be used. The smallest size conductor to be used in any fire alarm system in a building over 3 stories in height shall be #14 AWG or #16 AWG for buildings not over 3 stories in height. The wires shall be provided with insulation suitable for use on circuits not exceeding 600 volts. Fire alarm systems shall be connected to the line side of the service switch or to the emergency bus, where available, through an approved fire alarm cutout or equivalent.

*History:* 1-2-56; am. (3) (a). Register, November, 1963, No. 95, eff. 12-1-63.





**Ind 52.58 Walls and ceilings.** (1) The walls and ceilings of every toilet room shall be completely covered with smooth plaster, galvanized or enameled metal, gypsum wallboard  $\frac{5}{8}$  inch in thickness with taped joints, or constructed of brick, tile or other masonry units with flush joints or other equivalent smooth, non-absorbent material. Wood may be used only if it is smooth and well covered with 2 coats of body paint and one coat of enamel paint or spar varnish. Wood shall not be used for partitions between toilet rooms nor for partitions which separate a toilet room from any room used by the opposite sex. All such partitions shall be made soundproof. This is not intended to prohibit the use of wood stud partitions between rooms if partitions are lathed and plastered on both sides.

(2) The interior surface of walls and partitions shall be of light color to improve illumination and facilitate cleaning.

**History:** 1-2-56; r. and recr. Register, September, 1959, No. 45, eff. 10-1-59.

**Ind 52.59 Enclosure of fixtures.** (1) The fixtures (closets and urinals) in every toilet room shall be arranged to secure privacy in use. Water-closets shall be enclosed with partitions. Urinals shall be placed against walls and arranged individually. Individual floor type urinals shall be placed not less than 24 inches center to center and the space between urinals shall be filled flush with the front and top with non-absorbent material. *Exception:*

(a) The above requirements need not apply to toilet rooms accommodating only a single closet or urinal.

(2) A space of 6 to 12 inches shall be left between the floor and the bottom of each partition. The top of the partition shall be from  $5\frac{1}{2}$  to 6 feet above the floor. Doors with the top  $5\frac{1}{2}$  to 6 feet above the floor, and the bottom 6 to 12 inches above the floor, shall be provided for all water-closet compartments. All partitions and doors shall be of material and finish required for walls and ceilings under Wis. Adm. Code section Ind 52.58.

(3) The water-closet compartments in toilet rooms shall be not less than 30 inches in width, and shall be not less than 54 inches in depth with a clearance of not less than 24 inches between the fixture and the compartment door when closed except as specified in subsection (4). Compartment doors which are hung to swing inward shall clear the fixture not less than 2 inches.

*Note:* Section 146.085, Wis. Stats., provides that not more than 50% of the toilet compartments of any public toilet room of any public building, other than licensed hotels and resorts, shall be kept locked.

(4) Water-closet compartments for physically handicapped persons.

(a) One toilet room for each sex in every public building or place of employment except those exempted in Wis. Adm. Code section Ind 51.15 (j) shall have at least one water-closet compartment that is not less than 36 inches in width and at least 54 inches in depth.

(b) The door shall be not less than 32 inches in width and shall be hung to swing outward.

(c) A grab bar or handrail 33 inches high and parallel to the floor shall be provided on each side of the compartment.

**History:** 1-2-56; am. (3) and cr. (4), Register, November, 1963, No. 95, eff. 12-1-63.

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**Ind 52.60 Fixtures.** (1) Only individual water-closets of porcelain or vitreous china shall be used. Water-closet seats shall be of wood or other non-heat absorbing material, and shall have a finished surface that is impervious to water or cleaning agents. In public buildings, places of employment, and all other public places except apartments, and guest rooms in hotels and motels, the water-closets shall have elongated bowls. All water-closets except in apartments shall have open front seats without cover.

(2) Only individual urinals of porcelain, vitreous china, or stainless steel shall be used. Such urinals shall be set into the floor, the floor graded to the urinal and the urinals shall be equipped with an effective automatic or foot operated flushing device.

**History:** 1-2-56; r. and recr. Register, September, 1959, No. 45, eff. 10-1-59.

**Ind 52.61 Protection from freezing.** All water-closets and urinals and the pipes connecting therewith shall be properly protected against freezing, so that such water-closets and urinals will be in proper condition for use at all times.

**Ind 52.62 Disposal of sewage.** (1) Each water-closet and urinal, and each lavatory or slop sink, located in a toilet room shall be connected with a sewer and water system, where such systems are available. In locations where a sewer system is not available, or cannot be made available, the disposal of human waste may be accomplished as follows:

(a) Sewage treatment tank and disposal system.

**Note:** For detailed requirements on such systems see state plumbing code.

(b) Where the local conditions make it impractical to install such system, outdoor toilets, as described in Wis. Adm. Code section Ind 52.63, or other facilities, such as septic toilets installed in accordance with the provisions of the septic toilet code issued by the state board of health, may be used; provided that in the case of places of employment for more than 10 persons, schools larger than 2 rooms, and apartment houses, water-flush toilets as herein described shall be provided, unless outdoor toilets or other facilities are permitted in writing by the industrial commission or the state board of health. In every case where chemical or septic toilets are installed, the approval of plans and specifications therefor by the state board of health shall be secured before work is started.

**Ind 52.63 Outdoor toilets.** (1) Outdoor toilets shall comply with Wis. Adm. Code sections Ind 52.50 to Ind 52.59, inclusive, and in addition:

(a) No privy, with or without a leaching pit or other container, shall be erected or maintained within 50 feet of any well, 10 feet of the line of any street or other public thoroughfare, 5 feet of the property line between premises or 25 feet of the door or window of any building.

(b) Located on ground that is well drained, and where there is no possibility of contaminating any drinking water supply.

(c) Provided with suitable approach, such as concrete, gravel or cinder walk.

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(d) The foundations shall be of concrete or other masonry.

(e) The vault shall extend at least 6 inches above ground, be as dark as possible, and be proof against entrance by flies, rats, or other vermin. The upper portion shall be of concrete, or of brick or stone laid in cement mortar. If in poorly drained soil, the entire vault shall be of concrete, or brick, or stone, laid in cement mortar.

(f) All windows, ventilators and other openings shall be screened to prevent the entrance of flies, and all doors shall be self-closing. A separate ventilator shall be provided for the vault and shall extend from the vault to not less than one foot above the roof and be provided with an effective ventilating hood.

(g) The entire installation shall be kept clean and sanitary. Milk of lime (freshly slaked lime) or other equally effective disinfectant shall be used in the vault and in the urinal trough in sufficient quantities, and at frequent intervals. The floors, seats and urinals shall be scrubbed as often as necessary. The vault shall be cleaned out at proper intervals.

*Note:* See the Wisconsin code for rural school privies issued by the state board of health.

**Ind 52.64 Maintenance and housekeeping.** (1) **MAINTENANCE OF TOILETS.** Every toilet room, and every part thereof, including walls, floor, ceiling and fixture therein, shall be kept clean, efficient, and in good repair.

(2) **PAPER.** In every toilet room, sufficient toilet paper made of material which will not interfere with the operation of the system or obstruct the fixtures, shall be provided.

(3) **DEFACEMENT.** Indecent or suggestive marks, pictures, or words are forbidden in toilet rooms, and such defacement when found shall be removed at once.

(4) **SERVICE CLOSET.** A service closet conforming with requirements for construction of toilet rooms shall be provided and supplied with mop, broom, bucket, soap, toilet paper, and toweling necessary for sanitary upkeep of toilet rooms.



than 4 feet above the ground. Where the front foot rest of any grandstand is more than 2 feet above the ground, a guard rail extending not less than 36 inches above such front foot rest shall be provided.

**Ind 55.56 Portable grandstands or bleachers.** (1) Portable grandstands or bleachers shall be self-contained units having all necessary parts to withstand and restrain all forces which may be developed during occupancy. They shall be so designed and constructed that if any structural member essential to the strength and stability of the structure is omitted during erection, the presence of unused connections or fittings will make the omission self-evident.

(2) A portable grandstand shall not be used for public occupancy until it has been securely assembled in accordance with this requirement.

(3) Portable grandstands shall be provided with base plates, sills, floor runners, or sleepers of sufficient area and strength to support safely the total live and dead loads.

(4) Where portable grandstands rest directly on the ground, mud sills of suitable material and having sufficient area to prevent dangerous settlement shall be provided under the base plates or sleepers. All mud sills shall be properly anchored to the ground and all bearing surfaces shall be in contact.

(5) A-frames or other supports and seat stringers for portable grandstands or bleachers shall be secured to prevent accidental displacement during occupancy.

(6) Field connections to wood members shall be by means of rivets, bolts, connectors, lag screws, friction or other approved devices. Lag screws shall not be used for direct tension. The use of nails and wood screws is permissible for holding wood posts together except that they shall not be used for demountable connections.

(7) Wood members in tension shall be connected at each end by not less than 2 bolts or lag screws or by approved connectors or other approved devices. Adequate provision shall be made to prevent the splitting or shearing of wood at such connections.

(8) The following requirements shall apply to folding and movable bleachers used in places of assembly in addition to the other requirements of Wis. Adm. Code sections Ind 55.56 and Ind 55.57.

(a) Shop drawings, specifications and calculations or a test report made by a recognized testing agency covering each bleacher model shall be submitted to the industrial commission by an architect or professional engineer registered in Wisconsin, for approval.

(b) No required exit doors or exit passageways shall be obstructed by any bleacher installation. Floor plans, elevations, and typical structural information showing the location of bleachers, exit doors, and exit passageways, for each installation shall be submitted to the industrial commission in triplicate for approval before work on the installation is commenced. The plans shall be made by and bear the seal of an architect or professional engineer registered in Wisconsin.

(c) All bleachers shall be designed to resist a horizontal swaying force applied to the seats in a direction parallel to the length of the seats of at least 24 pounds per lineal foot of seats and in a direction perpendicular to the seats of not less than 10 pounds per lineal foot of seats.

(d) Seat board and foot boards shall be designed to safely support a live load of not less than 120 pounds per lineal foot.

(e) All bleachers shall be equipped with sockets or holders along the back and ends to support guard rails. A guard rail not less than 42 inches in height and having two intermediate rails shall be provided along the back of the top row of seats. Guard rails not less than 42 inches in height above foot boards and having an intermediate rail at mid-height shall be provided at the open end of all bleachers where the seats are more than 4 feet above the floor.

(f) The highest level of seat platforms of any forward folding or movable bleachers shall not be more than 12 rows or 11 feet above the floor.

(g) Forward folding bleachers shall be securely anchored to the floor with bolts, lag screws, or other approved devices.

**History:** 1-2-56; cr. (8), Register, November, 1963, No. 95, eff. 12-1-63.

**Ind 55.57 Inspection.** Every portable grandstand or bleacher shall be carefully inspected by a building official before each period of public occupancy and any loose connections, defective or broken members or loose supports shall be properly repaired before the structure is used. In cities or towns which do not have a building official, such inspections shall be made by the chief of the fire department or other public official designated by the industrial commission.

**Ind 55.58 Tents.** (1) For the purpose of this section, a tent is a portable, temporary shelter or a structure, the covering of which is made of pliable material.

(2) No tent shall be erected to cover more than 75% of the premises on which it is located.

(3) Tents used for assembly purposes which cover 1500 square feet or more of ground area shall be located at least 20 feet from any other structure or adjoining property lines.

(4) Stake lines of adjacent tents used for assembly purposes shall be sufficient distance from each other to provide an emergency exit passageway not less than 6 feet in width between stake lines. Proper protection shall be provided along such stake lines to eliminate tripping hazards.

(5) Concession and other tents not used for assembly purposes need not be separated from each other and may be located less than 20 feet from other structures.

(6) This section does not apply to tents or shelters used exclusively for construction purposes.

**Ind 55.59 Structural requirements.** (1) Poles and other members supporting tents shall be of sufficient size and strength to support the structure safely without exceeding the stresses specified in Chapter Ind 53 of this code.

(2) All tents shall be adequately guyed, supported and braced to withstand a wind pressure or suction of not less than 10 pounds per square foot.

(3) The poles, guys, stakes, fastenings, etc., shall be of sufficient strength and so attached as to resist a wind pressure of at least 20 pounds per square foot of projected area of the tent.

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**Ind 55.60 Flame resistance.** All tents used for assembly purposes or in which animals are stabled and all other tents used by the public in places of outdoor assembly shall be effectively flame-proofed. The owner shall furnish a certificate or a test report by a recognized testing engineer or laboratory as evidence that such tents have the required flame resistance.

**Ind 55.61 Fire hazards.** (1) The ground enclosed by any tent used in connection with a place of outdoor assembly and for a distance of not less than 10 feet outside such structure on all sides shall be cleared of all flammable material or vegetation which will transmit fire. The premises shall be kept free from such flammable material during the period the premises are used by the public.

(2) No hay, straw, shavings or similar combustible materials other than that necessary for the current feeding and care of animals shall be permitted within any tents used for public assembly except that sawdust and shavings be used if kept damp.

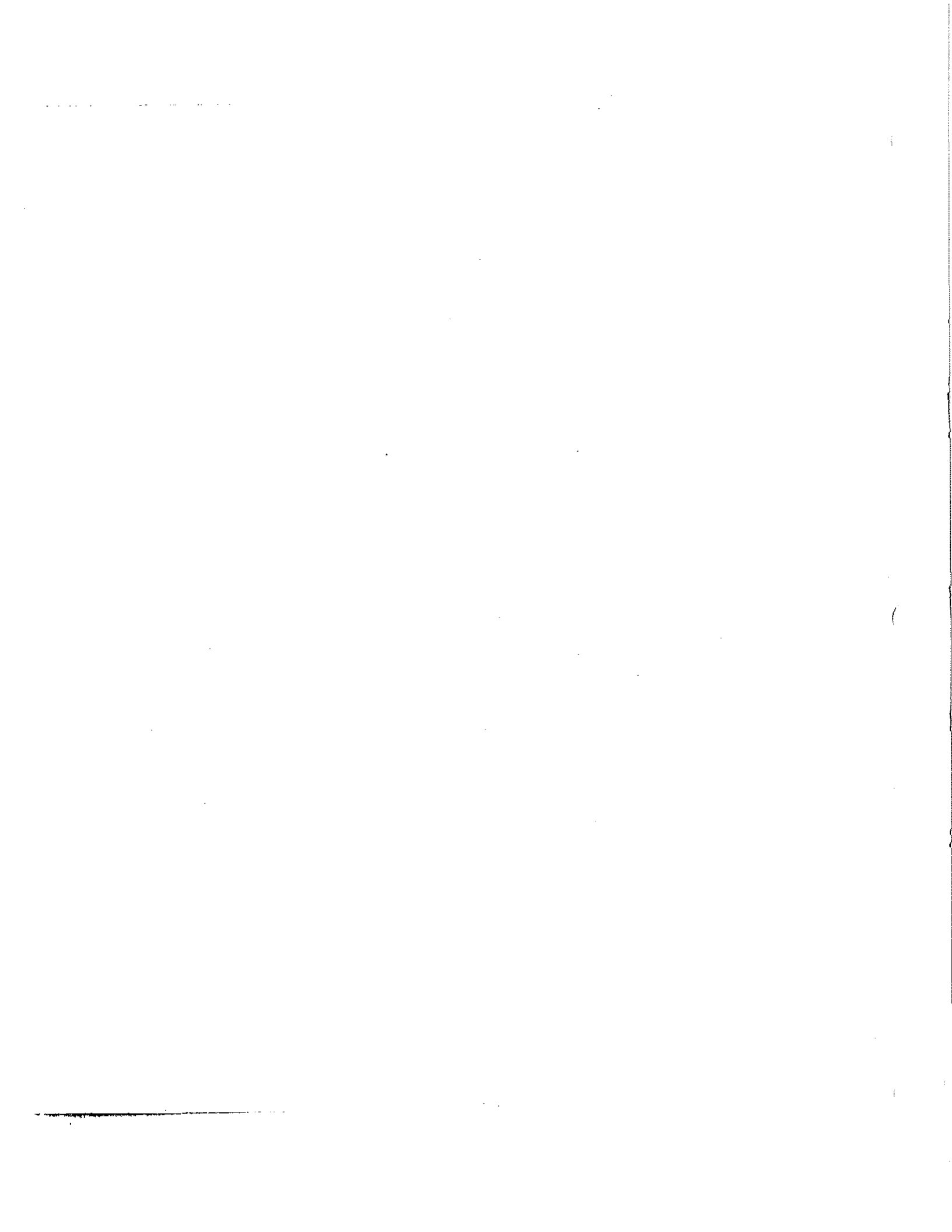
(3) No smoking or unapproved open flame of any kind shall be permitted in any tent while occupied by the public. "No Smoking" signs shall be conspicuously posted in all tents open to the public.

(4) Tents shall not be used for motion picture performances unless safety film is used.

**Ind 55.62 Exits.** (1) Every tent occupied by the public shall have at least 2 standard exits located at or near opposite ends of the structure.

(2) In tents used for assembly purposes, exits shall be provided on 3 sides if the capacity exceeds 600 persons and on 4 sides where the capacity exceeds 1,000 persons. Exits shall be uniformly distributed but in no case shall the line of travel to an exit be greater than 150 feet.

(3) The total width of exits from a tent used for assembly purposes shall not be less than 44 inches per 100 persons. Exit openings shall comply in all respects with the requirements of Wis. Adm. Code sections Ind 55.10 and Ind 51.15 of this code.





floor area, or fraction. Drinking fountains shall not be installed in toilet rooms.

(3) **WASHING FACILITIES.** Lavatories shall be provided in connection with toilet rooms in the ratio of one lavatory for every 60 persons of each sex in high schools and one lavatory for every 50 persons of each sex in junior high schools and elementary schools.

(4) **CLOAKROOMS AND WARDROBES.** In every school building, there shall be provisions for the placing and storage of the wraps of occupants. Such provisions shall consist of wardrobes, open front wardrobes, lockers or cloak rooms constructed and arranged in a manner to insure and facilitate the ventilation and sanitation of the contents. Ventilation shall conform to the provisions of Wis. Adm. Code section Ind 58.47 of the heating, ventilating and air conditioning code.

(a) This prohibits the use of corridors and vestibules for cloak room purposes unless ventilated lockers, wardrobes, or open front wardrobes are provided. Open hooks and hangers in the corridors will not be approved.

*Note:* Heating and ventilation. For heating and ventilation in schools, libraries, etc., see Wis. Adm. Code Chapter Ind 58, heating, ventilating and air conditioning which code applies to all public buildings and places of employment.

*History:* 1-2-56; am. (2), (3), (4) and (4) (a), Register, September, 1959, No. 45, eff. 10-1-59.

**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.

(3) **WINDOWS.** (a) All classrooms and spaces in elementary school buildings used for instruction or study purposes shall be provided with side wall clear glass or other approved transparent material, vision panels or windows opening directly upon a street, alley, or open court as specified in Wis. Adm. Code section Ind 56.05 except gymnasiums, auditoriums, cafeterias, lunch rooms, libraries, audio-visual rooms, science rooms, homemaking rooms, art rooms, music rooms vocational shops and similar areas.

(b) The windows or vision areas shall have a total glass area of not less than 40 square feet. The sill height shall not exceed 3'6" above the floor and the horizontal width of the vision area shall not be less than 5 feet. A minimum of 10 square feet of the aggregate glass area shall be arranged to open.

(c) Glass block construction conforming with the requirements of Wis. Adm. Code section Ind 51.11 may be used in classrooms and spaces used for instruction purposes except as specified in (a) and (b).

(d) Glass block wall panels which are exposed to direct sun rays and are 5 feet or more above the floor level shall be of a type capable of directing the light rays horizontally or upward.

*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.

Register, November, 1963, No. 95  
Building Code

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 2500 square feet, or fraction, of floor area, but there shall be at least one 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, shop or other vocational room. Every fire extinguisher shall be prominently exposed to view and always accessible.

Ind 56.19 **Fire alarms.** (1) Every building 2 or more stories in height and every one-story building with 6 or more classrooms and an assembly hall or gymnasium accommodating more than 100 persons shall be provided with a proper alarm system complying with Wis. Adm. Code section Ind 51.24. *Exception:*

(a) A hand-operated alarm if permanently installed and so arranged that it can be operated from any story, including the basement, may be used in school buildings not more than 2 stories in height and having not more than 2 standard size classrooms on the second floor.