

IND 52659

Filed April 27, 1971

9:15 am

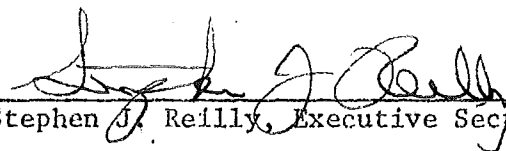
STATE OF WISCONSIN )  
 ) SS  
DEPARTMENT OF INDUSTRY, )  
LABOR AND HUMAN RELATIONS )

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETINGS:

I, Stephen J. Reilly, Executive Secretary of the Department of Industry, Labor and Human Relations, and custodian of the official records of said Department, do hereby certify that the attached rules to Wisconsin Administrative Code Chapters 50-59, Building and Heating, Ventilating and Air Conditioning, were adopted by the Department of Industry, Labor and Human Relations on April 26, 1971.

I further certify that said copy has been compared by me with the original on file in this Department and that the same is a true copy thereof and of the whole of such original.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the official seal of the Department at the Capitol, in the City of Madison, this 26 day of April, A.D., 1971.

  
Stephen J. Reilly, Executive Secretary

ORDER OF  
DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS

Pursuant to authority vested in the Department of Industry, Labor and Human Relations by Section 101.01 to 101.29 Wis. Stats., the Department of Industry, Labor and Human Relations hereby amends, repeals, recreates and adopts rules of Wisconsin Administrative Code Chapters 50-59, Building and Heating, Ventilating and Air Conditioning.

The rules attached hereto shall become effective on the first day of the month following publication in the Wisconsin Administrative Code as provided in Section 227.

Ind 52.02(1)(a) is amended to read:

- (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.

✓ Ind 56.001 is amended to read:

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, academies, seminaries, libraries, museums and art galleries; including all buildings or parts of buildings used primarily for instructional purposes.

Ind 56.01 is repealed.

Ind 56.02 is repealed and recreated to read:

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 51.001 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.

Ind 56.03 is repealed.

Ind 56.05 is repealed and recreated to read:

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 Ind 56.19), or to a sprinkler system (see Ind 51.23).

NOTE: See definition 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(i).
- (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 Ind 56.05(1)(a) 1. or 2.

Ind 56.06(1)(a) is repealed and recreated to read:

- (a) Travel <sup>distance</sup> district 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.

Ind 56.06 subsection (2) is renumbered to be (3)  
 " (3) " " " " (4)  
 " (4) " " " " (5)  
 " (5) " " " " (6)  
 " (6) " " " " (7)

Ind 56.06(2) is created to read:

- (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.

Ind 56.06(7) is created to read:

- (7) 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.

✓ Ind 56.07(3) is repealed and recreated to read:

- (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 (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
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

Ind 56.09(1) is repealed.

(2) is renumbered to be (1).

Ind 56.11 is repealed.

Ind 56.12 is repealed.

Ind 56.13 is repealed and recreated to read:

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: 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 a self-rising seat.

2. See allowable occupant space capacity under subsection Ind 56.07(3)(b).

3. For exception see Ind 56.13(2)(b) 3.

- (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 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.

Section Ind 56.14 is repealed and recreated to read:

Ind 56.14 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 use, 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.

Ind 56.16 is repealed and recreated to read:

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	LARGE GROUP				
	K-6	7-12	POST HIGH SCHOOL	OCCUPANCY AREAS	ADMINISTRATIVE AREAS
WATER CLOSETS (F)	35	50	100	200	10
WATER CLOSETS (M)	75	100	200	300	15
URINALS	35	50	100	150	40
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.

Ind 56.17 is repealed and recreated to read:

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.

Ind 56.18 is amended to read:

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.

Ind 56.19 is amended to read:

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



Section Ind 55.23 is repealed and recreated to read:

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.

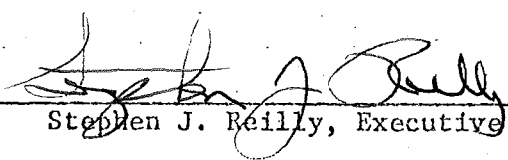
Note: The Department will accept standards for the design and installation of "Proscenium Curtains" as specified in the 1970 edition of the "Uniform Building Code" published by the International Conference of Building Officials.

*1970 copy  
accepted*

Section Ind 57.14 is amended to read:

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.

DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS

  
\_\_\_\_\_  
Stephen J. Reilly, Executive Secretary

April 26, 1971  
DATE