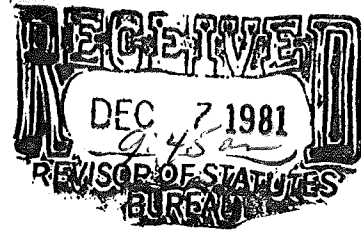


Ind 50 to 62

# RULES CERTIFICATE

STATE OF WISCONSIN )  
 ) SS  
DEPT. OF INDUSTRY, )  
LABOR & HUMAN RELATIONS)



TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETINGS:

I, Lowell B. Jackson, Secretary of the Department of Industry, Labor and Human Relations, and custodian of the official records

of said department, do hereby certify that the annexed rule(s) relating to Chs. Ind 50-64 Bldg. & Htg., Ventilating & Air Conditioning Code Hazardous Occupancies were duly

(Subject) approved and adopted by this department on Dec. 4th 1981.  
(Date)

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 Jan in the city of Madison, this 4th day of Dec A.D. 1981.

Lowell B. Jackson  
Secretary

# ORDER OF ADOPTION

Pursuant to authority vested in the Department of Industry, Labor and Human Relations by section(s) 101.02(1), 101.02(15)(h)-(j), Stats., the Department of Industry, Labor and Human Relations hereby  creates;  amends;  repeals and recreates; and  repeals and adopts rules of Wisconsin Administrative Code chapter(s):

Ind. 50-64 Bldg. & Htg., Ventilating & Air Conditioning Code  
(Number) Hazardous Occupancies (Title)

The attached rules shall take effect on The First Day Following Publication  
in the Wisconsin Administrative Register, pursuant to section  
227.026, Stats.

Adopted at Madison, Wisconsin, this 4th  
day of December, A.D., 1957.

DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS

Lawrence S. Jacobs  
Secretary



# RULES in FINAL DRAFT FORM

Rule: Chs. Ind 50-64

Relating to: Building & Heating, Ventilating & Air Conditioning  
Code - Hazardous Occupancies

Administrative rules to repeal ss. Ind 54.50, Ind 54.51, Ind 54.52, Ind 61.10 (2) (b) 2. Note; to renumber s. Ind 50.12 (1) (e) to be (f) and to amend; to amend ss. Ind 55.05 (3), Ind 62.20, Ind 62.24 (1) (intro.); to repeal and recreate ss. Ind 54.22, Ind 60.10, Ind 62.10, Ind 62.21, Ind 62.30; and to create ss. Ind 51.01 (82a), Ind 55.05 (3), Ind 62.205 and ch. Ind 59 relating to hazardous occupancies.

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#### Analysis of Rules

The Division of Safety and Buildings of the Department of Industry, Labor and Human Relations is responsible for the promulgation of the Building and Heating, Ventilating and Air Conditioning Code, chapters Ind 50-64. Sections of this code are being revised to establish minimum safety, health and welfare standards for hazardous occupancies. The proposed rules address vehicular related occupancies and will replace existing rules governing the construction of storage and repair garages.

The proposed rules include provisions for definitions for terms, construction, height and area limitations, means of egress, guardrails, illumination, sanitary facilities, occupancy separations, hazard isolation and fire protection.

The proposed rules parallel the national model building codes in rule intent and application. The chapter will be expanded in the future to address nonvehicular hazardous occupancies.

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Pursuant to the authority vested in the state of Wisconsin's Department of Industry, Labor and Human Relations by s. 101.02 (1), ss. 101.02 (15) (h) through (j), Stats., the department hereby repeals, amends, repeals and recreates and creates rules interpreting s. 101.02 (1) and ss. 101.02 (15) (h) through (j), Stats., as follows:

SECTION 1. Ind 50.12 (1) (e) is renumbered to be (f) and is amended to read:

Ind 50.12 (1) (f) Hazardous Occupancies. (~~sections Ind 54.50-50.52 and chapter Ind 62, respectively~~ ch. Ind 59). Plan submission for hangars storing one plane is ~~waived~~ not required.

SECTION 2. Ind 51.01 (82a) is created to read:

Ind 51.01 (82a) "Mini-warehouse" means an unoccupied compartmentalized warehouse building having one or more overhead doors serving each compartment.

SECTION 3. Ind 54.22 is repealed and recreated to read:

Ind 54.22 MINI-WAREHOUSES. (1) SCOPE. This section applies to mini-warehouses.

(2) CLASS OF CONSTRUCTION. Mini-warehouses shall be of at least type 8, wood frame unprotected construction.

(3) CONTENTS. Storage of hazardous materials or vehicles in mini-warehouses is prohibited. The owner shall submit an affidavit to the department stating that the building will not be used for this purpose.

(4) NUMBER OF EXITS. (a) Except as provided in par. (b), 2 exits shall be required from each storage compartment.

(b) One exit is permitted from compartments of 3,000 square feet or less.

(5) TYPE OF EXITS. (a) Standard exit doors shall be required from compartments with the capacity of 25 persons or more, using the capacity ratios established in s. Ind 54.05.

(b) Nonstandard exit doors, such as overhead, sliding and similar doors, may be used for compartments with a capacity of less than 25 persons.

SECTION 4. Ind 54.50 is repealed.

SECTION 5. Ind 54.51 is repealed.

SECTION 6. Ind 54.52 is repealed.

SECTION 7. Ind 55.05 (3) is amended to read:

Ind 55.05 (3) ~~where a~~ Chemical laboratory or other occupancy where flammable or explosive liquids or gases are used or stored ~~is~~ built in connection with a building used for a theater or assembly hall, ~~it~~ shall be separated ~~therefrom by means of~~ from the theater or assembly hall by 4-hour fire-resistive walls and unpierced 4-hour fire-resistive floors above and below as specified in ~~section s.~~ Ind 51.04. All openings in the wall to adjoining parts of the building shall be protected by means of self-closing fire-resistive ~~doors~~ door assemblies as specified in ~~section s.~~ Ind 51.047.

SECTION 8. Ind 55.05 (5) is created to read:

Ind 55.05 (5) Every theater and assembly hall shall be separated from a storage garage or a repair garage as specified in s. Ind 59.22.

SECTION 9. Chapter Ind 59 is created to read:

CHAPTER IND 59  
HAZARDOUS OCCUPANCIES

Ind 59.001 SCOPE. This chapter applies to all hazardous occupancies as indicated in the scope of each subchapter.

Ind 59.01 DEFINITIONS. (1) "Combustible liquid" means a liquid as defined in s. Ind 8.01 (19), Wis. Adm. Code.

(2) "Flammable liquid" means a liquid as defined in s. Ind 8.01 (37), Wis. Adm. Code.

(3) "Motor vehicle" means any self-propelled device fueled by a flammable or combustible liquid used to transport people or goods.

(4) "Open parking structure" means a structure as defined in s. Ind 62.10.

(5) "Private garage" means a structure or a part of a structure, either attached to a one- or 2-family dwelling or unattached but serving the dwelling, housing one or more motor vehicles owned by the occupant of the dwelling and used only for personal or family service, not serving as a place of employment.

(6) "Repair garage" means a structure or any part of a structure in which one or more motor vehicles are primarily repaired or serviced.

(7) "Storage garage" means any structure or part of a structure in which one or more motor vehicles are stored or parked and which is not a repair garage, private garage or open parking structure.

SUBCHAPTER I  
VEHICULAR OCCUPANCIES

Ind 59.10 SCOPE. (1) Except as provided in sub. (2) the requirements of this subchapter apply to storage garages and repair garages.

Note: See ch. Ind 8 - Flammable and Combustible Liquids, Wis. Adm. Code, for additional requirements pertaining to structures accommodating motor vehicles.

(2) This subchapter does not apply to the following occupancies:

(a) Storage garages serving community-based residential facilities;

Note: See s. Ind 61.10 (2).

(b) Areas of factories and plants used for the manufacture or assembly of motor vehicles or their components;

(c) Drive-in or drive-through facilities not used for the storage of motor vehicles including, but not limited to those of banks, restaurants, hospitals, car washes, film processing centers or other similar occupancies; and

(d) Storage garages 500 sq. ft. or less in area serving a residential occupancy as specified in ch. Ind 57.

Note: See s. Ind 57.01 (4).

Ind 59.11 CONSTRUCTION. (1) FLOORS. (a) The floor areas accommodating motor vehicles shall be constructed of dirt, gravel or noncombustible, nonabsorbent materials.

(b) Service pits and other similar depressions in the floor of a storage or repair garage shall be ventilated in accordance with ch. Ind 64.

(2) CLEARANCE REQUIREMENTS. Headroom clearances shall be maintained in accordance with s. Ind 51.164.

(3) CANOPIES. Free standing canopies and their supports or other similar structures over fuel dispensing equipment, when located less than 10 feet from a property line, shall be constructed of noncombustible materials.

Ind 59.12 HEIGHT AND AREA. (1) STORAGE GARAGES. Storage garages shall not exceed the number of stories and corresponding area limitations of Table 59.12.

(2) REPAIR GARAGES. Repair garages shall not exceed the number of stories and 75% of the corresponding area limitations of Table 59.12.

(3) ALLOWABLE INCREASE OF FLOOR AREAS. (a) Sprinklers. The areas of subs. (1) and (2) may be increased by 150% for one story storage garages and repair garages, and 75% for storage garages and repair garages more than one story, where the entire structure is protected by an approved automatic sprinkler system as specified in s. Ind 51.21.

TABLE 59.12  
ALLOWABLE HEIGHT STORIES & AREA (SQ.  
(MAXIMUM GROSS FLOOR AREA PER STORY)

Class of Construction	Building Frontage Street* Exposure				
		1	2	3	4
1. Fire-Resistive Type A . . . . .	1				
	2				
	3				
	4				
2. Fire-Resistive Type B . . . . .	1	NO RE-	20,000	17,000	14,000
	2	STRIC-	25,000	22,000	18,500
	3	TION	31,000	27,000	23,000
	4		37,000	32,000	27,500
3. Metal Frame Protected . . . . .	1	21,000	18,000	15,000	12,000
	2	26,500	23,000	19,500	16,000
	3	32,000	28,000	24,000	20,000
	4	37,500	33,000	28,500	24,000
4. Heavy Timber . . . . .	1	17,000	14,000	11,000	9,000
	2	22,000	19,000	16,000	13,500
	3	27,000	24,000	21,000	18,000
	4	32,000	29,000	26,000	22,500
5A. Exterior Masonry Protected . . . . .	1	15,500	13,000	9,500	8,000
	2	20,000	17,000	14,000	12,500
	3	24,500	21,500	18,500	15,500
	4	29,000	26,000	23,000	19,500
5B. Exterior Masonry Unprotected . . . . .	1	14,000	11,500	9,000	7,000
	2	18,000	15,000	12,500	10,000
	3	22,000	19,000	16,000	13,000
	4	26,000	23,000	19,500	16,000
6. Metal Frame Unprotected . . . . .	1	14,000	11,500	9,000	
	2	18,000	15,000	12,500	
	3	22,000	19,000	16,000	-----
	4	26,000	23,000	19,500	
7. Wood Frame Protected . . . . .	1	12,500			
	2	16,000			
	3	19,000			-----
	4	22,000			
8. Wood Frame Unprotected . . . . .	1	10,000			
	2	12,000			
	3	14,000			-----
	4	16,000			

\* A 4-hour fire division wall will be considered as a street for the purpose of computation.



(b) Fire Divisions. No storage or repair garage shall be limited in area where divided into sections which do not exceed the maximum areas tabulated in this section by fire division walls as specified in s. Ind 51.02 (13). All openings in such walls shall be protected by swinging, sliding or overhead fire-resistive door assemblies as specified in s. Ind 51.047. Doors protecting such openings may be held open if equipped with rate of rise heat or photoelectric activated automatic closing devices. Doors used as required exits shall comply with the requirements of s. Ind 51.15.

Ind 59.13 TYPES OF EXITS. (1) GENERAL. (a) Only the following types of exits shall be used to comply with the provisions of s. Ind 59.14:

1. Standard exit as specified in s. Ind 51.15, except as provided in sub. (2);
2. Stairways as specified in s. Ind 51.16, except as provided in sub. (2);
3. Smokeproof stair tower as specified in s. Ind 51.17;
4. Interior enclosed stairway as specified in s. Ind 51.18;
5. Horizontal exit as specified in s. Ind 51.19;
6. Fire escapes as specified in s. Ind 51.20; and
7. Nonparking access ramps with a maximum slope of 1:8.

(b) At least half of the exits required under s. Ind 59.14 shall be standard exits, stairways, smokeproof stair towers or interior enclosed stairways to grade.

(2) EXCEPTIONS. (a) A spiral stairway shall not serve as a required exit, but may be used as an employe convenience stairway if located in nonpublic areas.

(b) The width of required exit stairways serving unoccupied areas, such as storage areas, equipment mezzanines and similar areas not exceeding 750 sq. ft. may be reduced to 3 feet 0 inches.

(c) Doors in standard exits serving rooms, spaces or areas with an occupancy load of 25 persons or less are not required to swing in the direction of egress.

(d) A door not complying with s. Ind 51.15 (2), may be used as a standard exit serving rooms, spaces or areas with an occupancy load of less than 10 persons.

Note: Where accessibility and interior circulation for persons with functional limitations must be provided, the requirements of s. Ind 52.04 (9) govern.

Ind 59.14 NUMBER AND LOCATION OF EXITS. (1) GENERAL. (a) Except as provided in par. (b), every floor level and every room, space or area of a storage garage and a repair garage shall be provided with at least 2 exits.

(b) One exit is permitted from the following:

1. Any room, space or area used for storage garage purposes with an occupancy load of 10 persons or less and which does not exceed 3,000 sq. ft. in net floor area;

2. Any room, space or area used for repair garage purposes and does not exceed 750 sq. ft. in net floor area;

3. Any room, space or area used as other than a storage or repair garage with a capacity of 25 persons or less; and

4. A mezzanine floor level, provided the mezzanine is:

a. Three thousand square feet or less in net floor area;

b. Used only for storage purposes;

c. Open on at least one side to the floor below; and

d. Not more than 12 feet above the floor below.

(2) EXIT DISTANCE. Exits shall be provided and distributed as follows:

(a) Storage Garages. 1. No area of a storage garage shall be more than 100 feet from an exit, unless the entire storage garage is protected by an automatic sprinkler system.

2. No area of a storage garage entirely protected by an automatic sprinkler system shall be more than 150 feet from an exit.

(b) Repair Garages. 1. No area of a repair garage shall be more than 75 feet from an exit, unless the entire repair garage is protected by an automatic sprinkler system.

2. No area of a repair garage entirely protected by an automatic sprinkler system shall be more than 120 feet from an exit.

(c) \*Measurement of Exit Distance. The exit distances required by this section shall be measured along public passageways and aisles to:

1. Standard exits leading to grade as specified in s. Ind 51.15;

2. Doors opening into smokeproof stair towers as specified in s. Ind 51.17, interior enclosed stairways as specified in s. Ind 51.18, or fire escapes as specified in s. Ind 51.20; or

3. Horizontal exits as specified in s. Ind 51.19.

(3) LOCATION OF EXITS. Except as provided in sub. (1) (b), exits in all storage garages and repair garages shall be located and distributed so that in the event an exit is blocked, another exit is available from every area of the storage garage or repair garage.

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\*See Appendix A for further explanatory material.

(4) EXIT MAINTENANCE. Exits shall be maintained in accordance with s. Ind 52.21.

Ind 59.15 REQUIRED EXIT WIDTH. (1) GENERAL. Every floor level of a storage garage and repair garage shall be provided with at least the required aggregate width of exits as specified in ss. Ind 51.15 (6) and Ind 51.16 (3).

(2) HORIZONTAL EXITS. Horizontal exits may provide up to one-half of the required aggregate width of exits for a floor level.

Ind 59.16 CAPACITY OF STRUCTURES. In calculating the required aggregate width of exits under s. Ind 59.15 and the required number of sanitary facilities under s. Ind 59.20, the capacities of structures and floor levels shall be computed on the following basis:

- (1) Storage garages and repair garages - 300 sq. ft. per person.
- (2) Other areas as dictated by the appropriate sections of chs. Ind 54-62.

Note: See ss. Ind 54.05, Ind 55.06, Ind 56.07 for additional requirements.

Ind 59.17 ENCLOSURE OF STAIRWAYS AND SHAFTS. (1) GENERAL. (a) Except as provided in par. (b), all stairways and shafts within a storage garage and a repair garage shall be fully enclosed with smoke partitions. Smoke partitions shall be constructed of solid and rigid materials. Openings in such enclosures shall be protected with doors equipped with automatic closing devices.

(b) Stairways to open storage mezzanines 3,000 square feet or less in area are not required to be enclosed.

(2) THREE OR MORE FLOOR LEVELS. Stairways and shafts serving 3 or more floor levels shall be enclosed with fire-resistive rated construction as specified in Table 51.03-A, line 21.

Ind 59.18 VEHICULAR GUARDRAILS. Vehicular guardrails shall be provided at all floor openings and at all differences in floor level elevations as follows:

(1) DRIVE LANES. Vehicular guardrails shall be installed at the end of drive lanes and shall be designed for a minimum horizontal live load of 1000 pounds per linear foot acting at 18 inches above the floor level; and

(2) PARKING STALLS. Vehicular guardrails shall be installed at the end of parking stalls and shall be designed for a minimum horizontal live load of 500 pounds per linear foot acting at 18 inches above the floor level.

Ind 59.19 ILLUMINATION LEVELS. (1) EXITS. All stairways and exits and the passageways leading to them shall be illuminated to facilitate egress. The intensity of illumination shall be not less than 10 footcandles at the floor or step level.

(2) DRIVING AREAS. The minimum illumination level for driving areas at a horizontal plane 30 inches above the floor shall be an intensity of at least 2 footcandles.

Ind 59.20 SANITARY FACILITIES. (1) GENERAL. Sanitary facilities shall be provided as specified in ss. Ind 54.12, Ind 55.32 or Ind 56.16, as appropriate for the use of the building.

(2) UNATTENDED STORAGE GARAGES. Sanitary facilities are not required to be provided in unattended storage garages.

Ind 59.21 ISOLATION OF HAZARDS AND SEPARATIONS. All open-flame equipment within a storage garage and repair garage, including, but not limited to boilers, furnaces and water heaters, shall be isolated from the rest of the storage garage or repair garage by at least 2-hour fire-resistive construction as specified in s. Ind 51.04 or shall be installed in accordance with s. Ind 64.21.

(1) PROTECTION OF OPENINGS. All openings in required enclosures shall be protected with self-closing fire-resistive door assemblies as specified in s. Ind 51.047. The installation or use of hold-open devices for these doors shall be prohibited.

(2) PROHIBITED OPENINGS. (a) Except as provided in par. (b), openings shall be prohibited in any building component separating garage areas and open flame equipment where the open flame equipment is located below the elevation of the garage floor.

(b) Supply and return air grills or registers in garage areas are permitted if the bottom of the grill or register opening is at least 18 inches above the garage floor.

Ind 59.22 OCCUPANCY SEPARATIONS - MIXED OCCUPANCIES. (1) GENERAL. (a) Where a storage garage or a repair garage is located in a building used for other purposes, not within the scope of this chapter, the storage garage or repair garage shall be separated from any other occupancy by construction having at least the fire-resistive ratings as specified in Table 59.22.

(b) Where a storage garage or a repair garage is located below an exit court of any occupancy, the storage garage or repair garage shall be separated from the exit court by construction having at least the fire-resistive ratings as specified in Table 59.22.

(2) PARAPETS. (a) All walls with a 3-hour fire-resistive rating serving as a required occupancy separation shall be provided with a 3-hour fire-resistive rated parapet at least one foot in height.

(b) All walls with a 4-hour fire-resistive rating serving as a required occupancy separation shall be provided with a 4-hour fire-resistive rated parapet at least 3 feet in height.

(3) OPENINGS. (a) All openings in walls serving as a required occupancy separation shall be protected by means of self-closing fire-resistive door assemblies as specified in s. Ind 51.047.

(b) All floors and ceilings serving as a required occupancy separation shall be unpierced, except for plumbing or electrical components.

Note: See s. Ind 51.049 for plastic plumbing and electrical components penetrating fire-rated construction.

TABLE 59.22  
OCCUPANCY SEPARATIONS  
FIRE-RESISTIVE RATINGS IN HOURS

OCCUPANCY TYPES	CH <sup>1,3</sup> 54	CH 55	CH 56	CH 57	CH 58	CH <sup>2</sup> 59	CH 60	CH 61	CH <sup>2</sup> 62	BELOW EXIT COURTS
Storage Garage > 500 sq. ft.	2	2	2	2	3	0	2	None <sup>5</sup>	0	3
Storage Garage ≤ 500 sq. ft.	1	2	2	None <sup>4</sup>	3	0	1	None <sup>5</sup>	0	3
Repair Garage > 500 sq. ft.	3	3	3	3	4	0	3	3	0	4
Repair Garage ≤ 500 sq. ft.	2	3	3	2	4	0	2	2	0	4

<sup>1</sup> Occupancy separations are not required within a fire station or other similar occupancy to isolate vehicles from other areas of the building that are directly and permanently related to the functions of the building.

<sup>2</sup> An occupancy separation is not required to separate a storage garage, repair garage or open parking structure from each other, however, the most stringent occupancy requirements shall apply. Where these areas are to be classified as separate occupancies, a separation of at least one-hour fire-resistive construction shall be provided.

<sup>3</sup> Occupancy separations are not required within an office, factory, or warehouse occupancies only, with a storage garage accommodating one or 2 vehicles which are directly related to the functions of that occupancy. Where a storage garage accommodating one or 2 vehicles within an office, factory or warehouse is part of a multi-occupancy/multi-tenant building (i.e., strip shopping center) the occupancy separation must at least be provided at the adjoining tenant's wall.

<sup>4</sup> See s. Ind 57.01 (4).

<sup>5</sup> See s. Ind 61.10 (2).

Ind 59.23 FIRE PROTECTION. (1) STANDPIPES. (a) Except as provided in par. (f), fire department standpipes shall be provided as follows:

1. In all storage garages and repair garages 3 or more stories in height; and

2. In all storage garage and repair garage floor levels more than 500 sq. ft. in area, located below grade and not accessible to fire fighting vehicles.

(b) Required fire department standpipes with a fire department siamese connection greater than 50 feet to a street shall be interconnected to a standpipe system with such a connection 50 feet or less to a street.

(c) Required fire department standpipes shall be provided in each stair enclosure serving a storage or repair garage and shall be provided with approved 2-1/2 inch valve hose connections at each floor level with one connection in the stair tower and one immediately outside.

(d) Fire department standpipes shall conform to the requirements specified in s. Ind 51.21 (3) (e) to (i).

(e) 1. The department will recognize alternative systems and designs in lieu of required fire department standpipes if an equivalent degree of safety is provided in storage or repair garages 60 feet or less in height.

2. The department will accept storage garages and repair garages without fire department standpipes, if clearances are provided to allow fire-fighting vehicles access throughout the storage or repair garage.

(2) AUTOMATIC SPRINKLERS. Storage garages and repair garages greater than 40,000 square feet in gross floor area accommodating aircraft shall be protected by an approved automatic fire suppression system.

(3) \*FIRE EXTINGUISHERS. Portable fire extinguishers shall be provided and maintained as specified in s. Ind 51.22.

Ind 59.24 FIRE ALARMS. A fire alarm system complying with s. Ind 51.24 shall be provided in every storage garage and repair garage where more than 10 persons are employed above the second story except storage garages and repair garages which are provided with a complete automatic sprinkler system.

SECTION 10. Ind 60.10 is repealed and recreated to read:

Ind 60.10 OCCUPANCY SEPARATIONS. (1) Except as provided in sub. (2), where a day care center is located in a building used also for assembly hall or hazardous occupancy purposes, the day care center shall be separated from the assembly hall or hazardous occupancy with occupancy separations as specified in ss. Ind 55.05 and Ind 59.22, respectively.

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\*See Appendix A for further explanatory material.

(2) An occupancy separation as specified under s. Ind 55.05 is not required to separate a day care center from a church assembly hall occupancy if the day care center complies with the more stringent requirements of ch. Ind 55.

SECTION 11. Ind 61.10 (2) (b) 2., Note is repealed.

SECTION 12. Ind 62.10 is repealed and recreated to read:

Ind 62.10 DEFINITIONS. (1) "Assembly seating facilities" means structures including but not limited to, bleachers, grandstands and stadiums on which persons are seated for such purposes as entertainment, worship or deliberation.

(2) "Permanent" means in place for more than 180 consecutive calendar days.

(3) "Open parking structure" means a structure with open areas in the exterior walls or ventilation shafts, or combination of both, as specified in s. Ind 62.21 used solely for the parking of passenger vehicles without any facilities for repairing or fueling of vehicles within the structure.

(4) "Outdoor theater" means a place of outdoor assembly used for the showing of plays, operas, motion pictures and similar forms of entertainment in which the audience views the performance from self-propelled vehicles parked within the theater enclosure.

(5) "Repair garage" means a structure as defined in s. Ind 59.01 (4).

(6) "Storage garage" means a structure as defined in s. Ind 59.01 (5).

(7) "Tents" mean portable, temporary shelters or structures, the covering of which is made of pliable material.

SECTION 13. Ind 62.20 is amended to read:

Ind 62.20 SCOPE. This ~~classification~~ subchapter provides the minimum requirements for the design and construction of open parking structures ~~as defined in section Ind 62.10 (2)~~.

SECTION 14. Ind 62.205 is created to read:

Ind 62.205 CLASSIFICATIONS. Open parking structures shall be classified as either ramp access or mechanical access types as follows:

(1) Ramp access, open parking structures employ a series of continually sloped floors or a series of interconnected ramps between floors permitting the movement of vehicles under their own power between the street level and parking areas; or

(2) Mechanical access, open parking structures employ fully automated parking machines, lifts, elevators or other mechanical devices for moving vehicles between the street level and the parking area, and in which public occupancy is prohibited above street level.

SECTION 15. Ind 62.21 is repealed and recreated to read:



Ind 62.21 CONSTRUCTION REQUIREMENTS. (1) GENERAL. Open parking structures shall be provided with open areas in the exterior walls or ventilation shafts, or a combination of both, on each level of at least 4% of the total floor area of that level, distributed on at least 2 exterior sides so as to provide cross ventilation.

(2) MATERIAL. All open parking structures shall be constructed of noncombustible materials.

Note: Structural components of open parking structures are subjected to corrosive and deteriorating elements. The designer should consider the effects of such elements and should consider the use of air-entrained concrete, concrete sealers and coatings, additional cover for reinforcing and other accepted engineering practices to protect the components.

(3) FLOORS. Floors shall be provided with drainage as specified in s. H62.12, Wis. Adm. Code.

SECTION 16. Ind 62.24 (1) (intro) is amended to read:

Ind 62.24 (1) CONSTRUCTION AND HEIGHT. Open parking structures shall be of the type of construction and shall not exceed the height as specified in this section. The maximum floor area ~~per level~~ of any such structure shall not exceed that permitted for the corresponding type of construction and height as follows:

SECTION 17. Ind 62.30 is repealed and recreated to read:

Ind 62.30 STANDPIPES. (1) FIRE DEPARTMENT STANDPIPES. Except as provided in sub. (2), fire department standpipes shall be provided in all open parking structures 3 or more stories in height.

(a) Fire department standpipes shall be dry standpipe systems.

(b) Fire department standpipes with a fire department connection greater than 50 feet to a street shall be interconnected to a standpipe system with such a connection 50 feet or less to a street.

(c) Fire department standpipes shall be provided in each stair enclosure serving an open parking structure and shall be provided with approved 2-1/2 inch valve hose connections at each floor level with one valve connection in the stair enclosure and one valve connection immediately outside the enclosure.

(d) Fire department standpipes shall be as specified in s. Ind 51.21 (3) (e) to (i).

(2) EXCEPTIONS. (a) The department will recognize alternative systems and designs if an equivalent degree of safety is provided in lieu of required fire department standpipes in open parking structures 60 feet or less in height.

(b) The department will accept open parking structures without fire department standpipes if clearances are provided to allow fire-fighting vehicles access throughout the open parking structure.

\* \* \* \* \*

EFFECTIVE DATE

Pursuant to s. 227.026 (1), Intro., Stats., these rules shall take effect on the first day of the month following publication in the Wisconsin Administrative Register.

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