

CR 82-66

RULES CERTIFICATE

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

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TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETINGS:

I, James J. Gosling, 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. & Heating, Vent. & Air Conditioning Code were duly approved and adopted by this department on 8/9/82.
(Subject) (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 4:00 pm in the city of Madison, this 9th day of August A.D. 19 82.

James J. Gosling
Secretary

11-1-82

ORDER OF ADOPTION

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Pursuant to authority vested in the Department of Industry, Labor and Human Relations by section(s) 101.02(1), 101.02(15)(h)-(j), 101.13(1m), 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. & Heating, Ventilating and Air Conditioning Code
(Number) (Title)

The attached rules shall take effect on The first day of the month following publication in the Wisconsin Administrative Register, pursuant to section 227.026, Stats.

Adopted at Madison, Wisconsin, this 9th
day of August, A.D., 19 82.

DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS

James J. Sosnig
Secretary



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RULES in FINAL DRAFT FORM

Rule: Chapters Ind 50-64

Relating to: Building & Heating, Ventilating & Air Conditioning Code -
Miscellaneous Changes & Corrections to 1982/1983 Code

Administrative rules to amend ss. Ind 50.02, Ind 51.02 (11), Ind 51.02 (19), Ind 51.03 (5) (a), Ind 51.03 (7) (f), Ind 51.07 (5) Table 51.07, Ind 51.07 (5) Note, Ind 51.08 (2) (a) (intro), Ind 51.08 (2) (b) (intro), Ind 51.166, Ind 51.167, Ind 51.27 (7a), Ind 51.245 (2), Ind 51.245 (3) (c), Ind 52.04 (8) (e), Ind 54.08 (1), Table 54.12-B Note #1, Ind 54.14 (3), Ind 57.001, Ind 57.08, Ind 57.13 (1) (a), Ind 57.16 (1) (c) 2., Ind 57.16 (2), Ind 57.17 (1), Ind 58.01 (2) (a) 2., Ind 58.02 (3) (a), Ind 58.03 (1), Ind 58.03 (2) (a), Ind 58.06 (1) (a), Ind 58.06 (2) (a), Ind 58.23 (1) (intro), Table 58.24-B, Ind 58.25 (1) (a), Ind 58.25 (1) (b), Ind 58.30 (4) (a), Ind 58.44 (2) (a), Ind 58.45 (1), Ind 59.11 (1) (a), Ind 59.17 (2), Table 59.22, Ind 60.13 (2), Ind 60.23 (3), Ind 60.34 (1), ch. Ind 61, title only, Ind 61.001, Ind 63.12 (1) (b) 1., Ind 64.65 (1) Note #4; to repeal and recreate ss. Ind 54.12 (2) (a) 1., Ind 55.09 (1) (b), Ind 58.04 (2) (b); to create ss. Ind 54.02 (4) (d) Note, Ind 56.03 (1) Note, Ind 57.03 (2) (a) Note, Ind 58.001 (2) (c), Ind 61.14 (2) Note, Appendix A62.50 related to miscellaneous provisions of the Building and Heating, Ventilating and Air Conditioning Code.

* * * * *

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.

Smoke Detectors and Fire Alarms

The 1982 Building Code does include provisions for retroactive application of the smoke detector rules to existing buildings and expanded smoke detector requirements for new construction. The department has been made aware of potential problems in interconnecting battery or electrically operated single station type residential smoke detectors to each other or to the manual fire alarm system in the building. Interconnection of smoke detectors to the manual fire alarm system is required in all newly constructed residential occupancies. Although not required by the administrative rules, the department is aware that many owners of existing residential occupancies may elect to interconnect smoke detectors when installing them in their existing residential buildings. A series of administrative rule changes is being suggested to address the problem of this interconnection. The rules are based upon the experience of the state of New Jersey when it enacted a similar smoke detection law. The proposed rules will limit the number of single station type detectors which may be interconnected to each other and establishes design requirements when smoke detectors are interconnected to manual fire alarm systems.

The proposed rules will also include an exception to the fire alarm requirements for one story motel buildings where each living unit has its own exit to grade. This exception had been included in previous editions of the code and had been inadvertently omitted during the redrafting of chapter Ind 57.

Windows

In response to public hearing comments, the window requirements in the Wisconsin Building Code were amended to specify the "glazed area" rather than the "sash area" when determining the minimum sizes of windows required. The change was suggested so as to bring the Wisconsin Building Code requirements into conformance with the national model building codes and the National Fire Protection Association Life Safety Code. Since the rule has gone into effect, the department has learned that many manufacturers do not include information regarding the glazed area of their windows. Since Wisconsin law and administrative rule precludes bidding of projects until the plans have been approved by this office, the building owner and designer does not necessarily know which manufacturer will be providing the windows. The department has also learned that there is up to a 40% variation in the glazed area to sash area ratio depending upon the window manufacturer and the type of window. Therefore, although the current rule is consistent with the national model building codes, it is virtually unenforceable in Wisconsin. For that reason, the proposed rules will include a provision to revert back to the "sash area" concept for determining window size.

Stairway Enclosures

One of the significant changes in the 1982 code is the requirement that all stairways serving two or more floor levels be enclosed. Since the rule has gone into effect, the department has encountered a number of plans in smaller chapter Ind 54 and chapter Ind 57 occupancies where the enclosure of stairways does not provide any significant increase in life safety. After discussing this matter with our advisory committees, the Division of Safety and Buildings endorsed the concept of allowing building designers to design buildings with open stairways providing the distance to exit requirements specified in previous editions of the code are met. That is, exit stairways serving two floor levels in a chapter Ind 54 occupancy are allowed to be left open provided that the distance to exit does not exceed 100 feet in nonsprinklered buildings or 150 feet in sprinklered buildings. Likewise, in chapter Ind 57, exit stairways in buildings two stories or less in height and having not more than four individual living units per floor may be left open provided the distance to exit does not exceed 50 feet. In both instances, the horizontal travel distance on the stair must be included in the exit distance determination. One of the reasons for requiring the enclosed stairways in the 1982 code was that the distance to exit for both of these occupancy chapters was significantly increased. The thrust of the proposed change is to allow the open stairways but mandate a shorter distance to exit.

The stairway enclosure requirement for nursing homes in chapter Ind 58 calls for a minimum 2-hour fire resistive rating. That rule is consistent with the current provisions of chapter H32. Chapter H32 is now being revised and updated to be chapter HSS 132. The minimum 2-hour fire resistive rating for stairway enclosures will be deleted in the chapter HSS 132 rules. It is proposed to amend the provisions of chapter Ind 58 to be consistent with the chapter HSS 132 rules for stairway enclosures.

Miscellaneous Requirements

Section Ind 52.04 specifies requirements for barrier-free design in buildings. One section establishes a range of heights for water closets (toilets). The current range is inconsistent with national standards and precludes the use of many types of mandated water conserving fixtures. It is proposed to expand the range of acceptable heights for water closets.

The draft also includes a large number of changes to correct errors in cross-referencing and spelling and to eliminate any inconsistencies between the text of the most recent changes and the remainder of the code.

Pursuant to the authority vested in the state of Wisconsin's Department of Industry, Labor and Human Relations by ss. 101.02 (1) and 101.02 (15) (h) through (j), 101.13 (1m), Stats., the department hereby amends, repeals and recreates and creates rules interpreting ss. 101.02 (1) and 101.02 (15) (h) through (j), 101.13 (1m), Stats., as follows:

SECTION 1. Ind 50.02 is amended to read:

Ind 50.02 SCOPE OF CHAPTERS. The provisions of chs. Ind 50-64 apply to all public buildings and places of employment. The term "building or structure" as used in these chapters shall mean public building or place of employment. The provisions of these chapters are not retroactive unless specifically stated in the administrative rule. Where different sections of these chapters specify different requirements, the most restrictive requirement shall govern, except as specified in ss. Ind 51.02 (11) (b) 4., 58.001 (2) (c) and 64.57 (3). The appendix provides explanatory material related to specific requirements.

Note: For a definition of "public building" and "place of employment," see ss. Ind 51.01 (102b) and 51.01 (104a) or s. 101.01 (2), Stats.

SECTION 2. Ind 51.02 (11) (a) is amended to read:

Ind 51.02 (11) PROTECTION OF VERTICAL OPENINGS. (a) Except as specified in ss. Ind 54.08 and 57.08 and in par. (b), stairways, elevator shafts and other vertical openings, which serve 2 or more floor levels, shall be enclosed with fire-resistive rated construction equal to or better than the hourly ratings specified in Table 51.03-A-~~line 20~~. Stairways serving as required means of egress shall comply with the requirements specified in s. Ind 51.18.

SECTION 3. Ind 51.02 (19) is amended to read:

Ind 51.02 (19) ATTIC COMPARTMENTALIZATION. (a) Except as provided in par. (b), attics of combustible construction shall be divided into areas not greater than 3,200 square feet by firestopping as specified in s. Ind 53.63 (1) ~~(c)~~ (d).

1. Compartmentalization shall extend into the eave and soffit areas to provide a complete separation between compartments.

2. Panels for access openings in compartment walls shall be equipped with self-closing devices and shall normally be kept closed.

(b) Attic compartmentalization need not be provided in buildings completely protected, including the attic space, by an automatic fire sprinkler system.

SECTION 4. Ind 51.03 (5) (a) is amended to read:

Ind 51.03 (5) (a) A building is of protected or unprotected exterior masonry construction if all exterior walls are constructed of masonry or reinforced concrete or of other materials in combination with a minimum 6 inch nominal masonry ~~vener~~ wall and all building elements are as set forth in Table 51.03-A unless otherwise exempted.

SECTION 4a. Ind 51.03 (7) (f) is amended to read:

Ind 51.03 (7) (f) Buildings 3 stories in height of wood frame protected construction may be located between 10 feet and 30 feet from a property line or other building on the same property provided any wall within 10 feet to 30 feet from a property line or other building on the same property is a 4-hour fire division wall, without openings, as specified in s. Ind 51.02 (13).

SECTION 5. Ind 51.07 (5) Table 51.07 is amended to read:

TABLE 51.07
MINIMUM INTERIOR FINISH REQUIREMENTS

OCCUPANCY	REQUIRED EXIT ENCLOSURES ¹		EXIT ACCESS ^{1,2}		ROOMS OR ENCLOSED SPACES ^{1,2}	
	WALLS & CEILINGS ⁴	FLOOR ⁵	WALLS & CEILINGS ⁴	FLOOR ⁵	WALLS & CEILINGS ⁴	FLOOR ^{3,5}
Ch. Ind 54 Occupancies Other than Storage and Warehouses	A	II	A or B	II	A, B or C	DOC FF-1 ⁶
Ch. Ind 54 Storage and Warehouse Occupancies	A or B	DOC FF-1 ⁶	A or B	DOC FF-1 ⁶	A, B or C	DOC FF-1 ⁶
Ch. Ind 55 Places of Assembly	A	I	A	II	A or B ⁷	DOC FF-1 ⁶
Ch. Ind 56 Places of Instruction	A	I	A or B	II	A, B or C	DOC FF-1 ⁶
Ch. Ind 57 Residential Occupancies	A	II	A or B	II	A, B or C	DOC FF-1 ⁶
Ch. Ind 58 Health Care and Places of Detention	SEE CHAPTER IND 58 FOR SPECIFIC REQUIREMENTS					
Ch. Ind 59 Hazardous Occupancies	A	DOC FF-1 ⁶	A or B	DOC FF-1 ⁶	A, B or C	DOC FF-1 ⁶
Ch. Ind 60 Day Care Centers (20 Children or Less)	A or B	DOC FF-1 ⁶	A or B	DOC FF-1 ⁶	A, B or C	DOC FF-1 ⁶
Ch. Ind 60 Day Care Centers (More than 20 Children)	A	II	A or B	II	A, B or C	DOC FF-1 ⁶
Ch. Ind 62 Specialty Occupancies	A, B or C	DOC FF-1 ⁶	A, B or C	DOC FF-1 ⁶	A, B or C	DOC FF-1 ⁶

SECTION 6. Ind 51.07 (5) Note is amended to read:

Ind 51.07 (5) Note: See s. Ind 51.01 (75a) for further explanatory information.

Class A Interior Finish -- flame spread 0-25, smoke developed 0-450.
Class B Interior Finish -- flame spread 26-75, smoke developed 0-450.
Class C Interior Finish -- flame spread 76-200, smoke developed 0-450.
Class I Interior Floor Finish -- critical radiant flux - .45 watts/cm²
Class II Interior Floor Finish -- critical radiant flux - .22 watts/sm² cm²

SECTION 7. Ind 51.08 (2) (a) (intro) is amended to read:

Ind 51.08 (2) (a) An absolute occupancy separation shall consist of walls or floors or both of not less than 4-hour fire-resistive construction as specified in ss. Ind 51.04 to 51.049. All openings in walls forming such a separation shall be protected by self-closing fire-resistive door assemblies as specified in s. Ind 51.047. The total width of all openings in any such separating wall in any one story shall not exceed 25% of the length of the wall in that story and no single opening shall have an area greater than 120 square feet. Floor openings shall be protected by 4-hour rated shaft enclosures or fire ~~dampers~~ curtain doors as specified in s. Ind 64.42.

SECTION 8. Ind 51.08 (2) (b) (intro) is amended to read:

Ind 51.08 (2) (b) A special occupancy separation shall consist of walls or floors, or both, of not less than 3-hour fire-resistive construction as specified in ss. Ind 51.04 to 51.049. All openings in walls forming such separation shall be protected by self-closing fire-resistive door assemblies as specified in s. Ind 51.047. The total width of all openings in any such separating wall in any one story shall not exceed 25% of the length of the wall in that story and no single opening shall have an area greater than 120 square feet. Floor openings shall be protected by 3-hour rated shaft enclosures or fire ~~dampers~~ curtain doors as specified in s. Ind 64.42.

SECTION 9. Ind 51.166 is amended to read:

Ind 51.166 ~~BASEMENT STAIRWAYS~~ STAIRWAY DISCHARGE. Where a ~~basement~~ stairway ~~from the level below the exit discharge~~ and a stairway ~~to from~~ an upper floor terminate ~~in at~~ the same exit ~~enclosure~~ discharge level, an approved barrier shall be provided to prevent persons from continuing ~~on into the basement~~ down one or more full floor levels below the exit discharge level unless the exit discharge level has a vision panel to the outside or is otherwise made readily apparent. ~~Illuminated exit signs shall be provided to clearly indicate the direction of egress.~~

SECTION 10. Ind 51.167 is amended to read:

Ind 51.167 ~~Exit Access~~ EXITING THROUGH AREAS OF HAZARD. (1) GENERAL. Except as provided in subs. (2) and (3), exit access shall be so arranged that it will not be necessary to travel through any area of hazard in order to reach the exit.

Note: See ss. Ind 54.14, 55.29, 56.15, 57.14, 58.24, 58.62, 59.21, 60.25, 60.37, 62.32 for additional requirements.

(2) GARAGES. (a) Occupancies within the scope of ch. Ind 54 may exit through storage garages.

(b) Occupancies within the scope of ch. Ind 54 may not exit through repair garages.

(c) Occupancies within the scope of chs. Ind 55-62 may not exit through a storage or repair garage.

(3) KITCHENS. (a) Exiting through a kitchen within an individual living unit is permitted.

(b) Exiting through kitchens equipped with residential-type appliances in areas such as but not limited to employe lounges, activity rooms and similar areas is permitted provided the kitchen is not used for commercial purposes.

(c) Exiting through kitchens of restaurants and similar commercial operations or kitchens equipped with commercial-type appliances is prohibited.

SECTION 11. Ind 51.245 (2) is amended to read:

Ind 51.245 (2) INSTALLATION. (a) Smoke detectors and smoke detector systems shall be installed in accordance with the provisions of NFPA No. 72E-1978 - Standard on Automatic Fire Detectors or NFPA No. 74-1980 - Household Fire Warning Equipment and in accordance with the manufacturer's directions and specifications.

(b) Except as provided in s. Ind 57.16 (2) (b), all smoke detectors interconnected with each other or with the manual fire alarm system shall be installed in accordance with the provisions of NFPA No. 72A-1979 - Standard for the Installation, Maintenance and Use of Local Protective Signaling Systems for Guard's Tour, Fire Alarm and Supervisory Service. Where smoke detectors are interconnected with the manual fire alarm system, the smoke detectors shall be wired in accordance with the provisions specified in s. ILHR 16.34, Wis. Adm. Code.

SECTION 12. Ind 51.245 (3) (c) is amended to read:

Ind 51.245 (3) (c) The owner shall have 5 days upon receipt of written notice from the tenant to repair or replace the smoke detector or replace the battery. The owner shall ~~replace~~ check the batteries at the beginning of a new lease and shall replace the battery at least annually.

SECTION 13. Ind 51.27 (7a) is amended to read:

Ind 51.27 (7a) National Fire Protection Association, Batterymarch Park, Quincy, Mass. 02269; STANDARD FOR PORTABLE FIRE EXTINGUISHERS, NFPA No. 10-1978; STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, NFPA No. 13-1980; STANDARD FOR THE CARE AND MAINTENANCE OF SPRINKLER SYSTEMS, NFPA No. 13A-1978; STANDARD FOR THE INSTALLATION OF CENTRIFUGAL FIRE PUMPS, NFPA No. 20-1980; STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION, NFPA No. 22-1978; STANDARD FOR OUTSIDE PROTECTION, NFPA No. 24-1977; STANDARD FOR THE INSTALLATION OF OIL-BURNING EQUIPMENT, NFPA No. 31-1978; NATIONAL FUEL GAS CODE, NFPA No. 54-1974; STANDARD

FOR CENTRAL STATION PROTECTIVE SIGNALING SYSTEMS, NFPA No. 71-1977; STANDARD FOR THE INSTALLATION, MAINTENANCE AND USE OF LOCAL PROTECTIVE SIGNALING SYSTEMS FOR GUARD'S TOUR, FIRE ALARM AND SUPERVISORY SERVICE, NFPA No. 72A-1979; STANDARD FOR AUXILIARY PROTECTIVE SIGNALING SYSTEMS, NFPA No. 72B-1979; STANDARD FOR REMOTE STATION PROTECTIVE SIGNALING SYSTEMS, NFPA No. 72C-1975; STANDARD FOR PROPRIETARY PROTECTIVE SIGNALING SYSTEMS, NFPA No. 72D-1979; STANDARD ON AUTOMATIC FIRE DETECTORS, NFPA No. 72E-1978; STANDARD FOR HOUSEHOLD FIRE WARNING EQUIPMENT, NFPA No. 74-1980; MANUAL ON CLEARANCES FOR HEAT PRODUCING APPLIANCES, NFPA No. 89M-1976; STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS, NFPA No. 90A-1981; STANDARD FOR CHIMNEYS, FIREPLACES AND VENTS, NFPA No. 211-1980.

SECTION 14. Ind 52.04 (8) (e) is amended to read:

Ind 52.04 (8) (e) Water Closets. The seat height of the water closet shall be ~~46~~ 15 inches to ~~48~~ 20 inches above the floor.

SECTION 15. Ind 54.02 (4) (d) Note is created to read:

Ind 54.02 (4) (d) Note: Also see s. Ind 54.08 (1) for alternate exit distance provisions.

SECTION 16. Ind 54.08 (1) is amended to read:

Ind 54.08 ENCLOSURE OF STAIRWAYS AND SHAFTS. (1) (a) Except as provided in par. (b), all stairways including landings, ramps and shafts, shall be enclosed as specified in s. Ind 51.02 (11).

(b) 1. The stairways or shafts connecting the first floor with one floor level immediately adjacent to it (e.g., second story, mezzanine, ground floor or basement) may be left open in buildings 2 stories or less in height, and where the distance to an exit from anywhere in the building including the horizontal travel distance on the exit access stair, does not exceed 100 feet in buildings not completely protected by an approved automatic sprinkler system or 150 feet in buildings completely protected by an approved automatic sprinkler system; or

2. Any stairway or shaft connecting the second floor, first floor and basement or ground floor shall be separated at the first floor level or first adjacent basement or ground floor level with fire resistive construction as specified in Table 51.03-A or better in buildings 2 stories or less in height, and where the distance to an exit from anywhere in the building including the horizontal travel distance on the exit access stair, does not exceed 100 feet in buildings not completely protected by an approved automatic sprinkler system or 150 feet in buildings completely protected by an approved automatic sprinkler system.

SECTION 17. Ind 54.12 (2) (a) 1. is repealed and recreated to read:

Ind 54.12 (2) (a) 1. Taverns and restaurants shall provide at least one toilet room for each sex.

a. Taverns and restaurants accommodating 50 or less total occupants shall provide at least one water closet (WC) and one lavatory (L) for each sex.

b. Taverns and restaurants accommodating 50 to 100 occupants in total shall provide at least 2 water closets (WC) and one lavatory (L) for the females and at least one water closet (WC), one urinal (U) and one lavatory (L) for the males.

c. Taverns and restaurants accommodating more than 100 occupants in total shall be provided with sanitary fixtures as specified in Table 55.32.

SECTION 18. Table 54.12-B Note #1 is amended to read:

Table 54.12-B Note #1: Examples: Example #1: Mercantile building with 300 patrons and 50 employes = 350 total occupants; equally divided between sexes = 175 males, 175 females. From Table 54.12-A, ~~201-400 total~~ 101-200 occupants of each sex: males require one water closet, one urinal, one lavatory; females require 2 water closets, one lavatory. Check for compliance with Table 54.12-B for employes: 50 employes, equally divided between sexes = 25 males, 25 females; 16-35 employes of each sex, males require one water closet, one urinal, one lavatory; females require 2 water closets, one lavatory. Therefore, the number of fixtures required by Table 54.12-A also satisfies the requirements of Table 54.12-B for employes and governs.

Example #2: Office building with 300 employes and 50 patrons = 350 total occupants; equally divided between sexes = 175 males, 175 females. From Table 54.12-A, ~~201-400 total~~ 101-200 occupants of each sex: males require one water closet, one urinal, one lavatory; females require 2 water closets, one lavatory. Check for compliance with Table 54.12-B for employes: 300 employes, equally divided between sexes = 150 males, 150 females; 111-150 employes of each sex, males require 4 water closets, 2 urinals, 3 lavatories; females require 6 water closets, 3 lavatories. Therefore, the number of fixtures required by Table 54.12-B for employes is more restrictive and governs.

SECTION 19. Ind 54.14 (3) is amended to read:

Ind 54.14 (3) SUSPENDING EQUIPMENT. Gas and liquid fuel-fired space heaters; ~~suspended furnaces;~~ suspended furnaces; vented and unvented unit heaters; and boilers and water heaters up to 200,000 BTU input may be used without an enclosure where the installation conforms to the provisions of s. Ind 64.21 and is approved by the department. Where suspended furnaces, vented and unvented unit heaters, boilers and water heaters are used without an enclosure, all such units shall be located at least 7 feet above the floor. The blow-off pipe for suspended boilers and water heaters shall be extended down to within 6 inches of the floor.

SECTION 20. Ind 55.09 (1) (b) is repealed and recreated to read:

Ind 55.09 (1) (b) 1. In a place of worship, a monumental exit access stairway from the main floor to the first balcony having an occupant load of not more than 30 persons need not be enclosed.

2. In a place of worship, a monumental exit access stairway from the main floor to the first balcony having an occupant load of 31 to 100 persons need not be enclosed provided the balcony is served by an additional open stairway.

3. In a place of worship, stairways from the main floor to the first balcony having an occupant load greater than 100 persons shall be enclosed to the outside as specified in ss. Ind 51.02 (11) and 51.18.

4. Stairways from the basement to the first floor in a single story place of worship need not be enclosed if they lead directly to the exits.

SECTION 21. Ind 56.03 (1) Note is created to read:

Ind 56.03 (1) Note: See s. Ind 51.245 for additional requirements pertaining to smoke detectors.

SECTION 22. Ind 57.001 is amended to read:

Ind 57.001 SCOPE. (1) GENERAL. The requirements of this chapter shall apply to all places of abode, including, but not limited to, apartment buildings, garden apartments, row houses, town houses, condominiums, hotels, motels, rooming houses, dormitories, convents, monasteries, homes for the aged, sheltered facilities for battered women, as specified in s. 46.95, Stats., serving more than 20 occupants, community-based residential facilities constructed on or after the effective date of this section and serving 9 or more unrelated adults and community-based residential facilities located in existing buildings on or after the effective date of this section and serving more than 20 unrelated adults.

(2) EXEMPTIONS. The requirements of this chapter shall not apply to the following:

(a) One- and 2-family dwellings;

(b) Buildings or motels, tourist courts and similar occupancies having separate buildings containing not more than 2 rental units each;

(c) Migrant labor camps;

(d) Health care facilities;

(e) Places of detention;

(f) Community-based residential facilities constructed on or after the effective date of this section and serving 3 to 8 unrelated adults; ~~and~~

(g) Community-based residential facilities, serving 9 to 20 unrelated adults, located in existing buildings as specified in ss. Ind 61.001 (1) and 61.01 (7); and

(h) Sheltered facilities for battered women, as specified in s. 46.95, Stats., serving 20 or less occupants as specified in s. Ind 61.001 (3).

SECTION 23. Ind 57.03 (2) (a) Note is created to read:

Ind 57.03 (2) (a) Note: Also see s. Ind 57.08 (2).

SECTION 24. Ind 57.08 is amended to read:

Ind 57.08 ENCLOSURE OF INTERIOR STAIRWAYS AND SHAFTS. (1) APPLICATION. Except as provided in sub. (2), all stairways, including landings, ramps and shafts, shall be enclosed as specified in s. Ind 51.02 (11) with fire-resistive rated construction as specified in Table 51.03-A.

(2) EXCEPTIONS. (a) The exit access stairway or shaft connecting the first and second floor in residential buildings 2 stories or less in height may be left open in the following applications providing the conditions specified in par. (b) are satisfied:

1. Buildings having not more than 4 individual living units per floor each of which is served by 2 or more means of egress; or

2. Buildings having an occupancy load of 8 or less and used as rooming houses, dormitories or congregate living facilities.

(b) 1. Every exit access stairway or shaft to the basement or ground floor is cut off at the first floor or first adjacent basement or ground floor level with fire resistive construction as specified in Table 51.03-A or better; and

2. The distance to an exit, including the horizontal travel distance on the exit stair, does not exceed 50 feet.

SECTION 25. Ind 57.13 (1) (a) is amended to read:

Ind 57.13 WINDOWS. (1) GENERAL. (a) The outside windows in every habitable room shall have a total glazed sash area of at least 8% of the floor area of the room.

SECTION 26. Ind 57.16 (1) (c) 2. is amended to read:

2. Such detectors shall be electrically interconnected to the required manual fire alarm system. All smoke detectors, which are electrically interconnected to the manual fire alarm system, shall be a latching type, system detector intended for use with a control panel and shall utilize a supervised circuit.

Note: See s. Ind 51.245 for additional requirements pertaining to smoke detectors.

SECTION 27. Ind 57.16 (2) is amended to read:

(2) RETROACTIVITY. (a) The provisions of sub. (1) (a) and (b) shall apply to all buildings constructed on or after the effective date of this section and to those buildings previously constructed.

(b) 1. If the owner of a building constructed prior to the effective date of this paragraph elects to interconnect the smoke detectors with each other, no more than 6 single station, self-contained, nonlatching smoke detectors shall be so interconnected.

2. If the owner of a building constructed prior to the effective date of this paragraph elects to interconnect the smoke detectors with the manual fire alarm system, the detectors shall be a latching type, system detector intended for use with a control panel and shall utilize a supervised circuit.

SECTION 28. Ind 57.17 (1) is amended to read:

Ind 57.17 FIRE ALARMS. (1) GENERAL. (a) Except as provided in par. (b), every building, which can accommodate 20 or more persons, as determined by the requirements specified in s. Ind 57.04, shall be provided with a manual fire alarm system as specified in s. Ind 51.24.

(b) Residential occupancies not more than one story in height in which each living unit has an exit door at grade level are exempted from the provisions of par. (a).

SECTION 29. Ind 58.001 (2) (c) is created to read:

Ind 58.001 (2) (c) Where other sections of chs. Ind 50-64 specify different requirements than those contained in this subchapter, the requirements of this subchapter shall govern.

SECTION 30. Ind 58.01 (2) (a) 2. is amended to read:

Ind 58.01 (2) (a) 2. All exterior bearing walls of type 3 construction shall have a minimum fire-resistive rating of one hour.

SECTION 31. Ind 58.02 (3) (a) is amended to read:

Ind 58.02 (3) (a) Storage garages and repair garages shall be separated from health care facilities as specified in s. Ind ~~59.13~~ 59.22.

SECTION 32. Ind 58.03 (1) is amended to read:

Ind 58.03 WINDOWS. (1) OUTSIDE WINDOWS. Every habitable room shall be provided with outside windows having a total ~~glazed~~ sash area of at least 8% of the floor area of the room. The bottom of the window opening in sleeping rooms, shall be not more than 36 inches above the floor.

SECTION 33. Ind 58.03 (2) (a) is amended to read:

Ind 58.03 (2) (a) Where Required. Every patient sleeping room and every habitable room shall have an outside window or outside door located so it can be opened from the inside to permit the venting of products of combustion and to permit any occupant to have direct access to outside air in case of an emergency. Where windows require the use of tools or keys for operation, written approval from the department shall be obtained. The keys ~~of~~ or tools shall be accessible to staff and located on each floor having such windows.

SECTION 34. Ind 58.04 (2) (b) is repealed and recreated to read:

Ind 58.04 (2) (b) Door Swing. A door which is used by 25 persons or less shall not be required to open in the direction of egress.

SECTION 35. Ind 58.06 (1) (a) is amended to read:

Ind 58.06 (1) (a) All stairways and steps shall be so designed that the sum of 2 risers and a tread, exclusive of its nosing or projection, ~~should~~ shall be not less than 24 inches or more than 25 inches, with a tread not less than 11 inches. Treads of stairs shall be solid.

SECTION 36. Ind 58.06 (2) (a) is amended to read:

Ind 58.06 (2) (a) All stairways shall be enclosed as specified in s. Ind 51.18, ~~except that nursing homes are required to enclose all stairways with a minimum of 2-hour fire resistive construction.~~

SECTION 37. Ind 58.23 (1) (intro) is amended to read:

Ind 58.23 (1) INTERIOR SHAFTS. Every elevator shaft, dumbwaiter shaft, pipe shaft and other similar vertical shaft in buildings, shall be enclosed ~~with at least 2-hour fire resistive partitions~~ as specified in ~~s. Ind 51.043~~ Table 51.03-A, except as provided in pars. (a) and (b):

SECTION 38. Table 58.24-B is amended to read:

TABLE 58.24-B

HAZARDS	FIRE-RESISTIVE RATING IN HOURS ¹
†Soiled Linen Rooms	1
Kitchens	1
Handicraft Shops	1
†Carpenter Shops	1
Repair Shops	1
†Paint Shops	1
†Trash Collection Rooms	1
†Storage Rooms (containing quantities of flammable or combustible material not exceeding 1 lb. of material per square foot of floor area)	1
Gift Shops	1
Laboratories (containing quantities of flammable or combustible material not exceeding 1 lb. of material per square foot of floor area)	1
-All other laboratories	1
Employee Locker Rooms	1

†These areas are required to be protected with an automatic sprinkler system in addition to the fire-resistive enclosure requirements specified in the table.

¹The minimum hourly ratings specified may be reduced by one hour in buildings protected by an automatic sprinkler system. The separation shall be not less than a smoke separation with a self-closing door.

SECTION 39. Ind 58.25 (1) (a) is amended to read:

Ind 58.25 (1) (a) All rubbish chutes ~~shall~~ may discharge into trash collecting rooms, which are used for no other purpose and are enclosed ~~in accordance with this section as specified in Table 58.24-B.~~ The incinerator shall not be directly flue-fed nor shall any floor discharging chute directly connect with the combustion chamber.

SECTION 40. Ind 58.25 (1) (b) is amended to read:

Ind 58.25 (1) (b) All laundry chutes shall discharge into laundry rooms or laundry collecting rooms, which are used for no other purpose and are enclosed ~~in accordance with this section as specified in Tables 58.24-A and 58.24-B.~~

SECTION 41. Ind 58.30 (4) (a) is amended to read:

Ind 58.30 (4) (a) Corridor openings in smoke barriers shall be protected by a pair of swinging doors, each door to swing in a direction opposite from the other. Each door shall have a minimum width of 44 inches, except corridor openings in areas not intended for the housing, treatment, or use of patients ~~shall have~~ may be protected by a single door having a minimum width of 36 inches.

SECTION 42. Ind 58.44 (2) (a) is amended to read:

Ind 58.44 (2) (a) Storage garages and repair garages shall be separated from detention and correctional facilities as specified in s. Ind ~~59.13~~ 59.22.

SECTION 43. Ind 58.45 (1) is amended to read:

Ind 58.45 WINDOWS. (1) NATURAL LIGHTING. Every sleeping room, except holding rooms where residents are detained for a time period not to exceed 72 hours, shall be provided with natural light. The natural light may be provided directly to the sleeping room by windows or sky lights or may be transferred indirectly to the space through the use of borrowed lights. The natural light shall be provided through either clear or translucent glazing with the area of the ~~glazing~~ sash being at least 8% of the floor area served.

SECTION 44. Ind 59.11 (1) (a) is amended to read:

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

SECTION 45. Ind 59.17 (2) is amended to read:

Ind 59.17 (2) ~~TWO~~ THREE OR MORE FLOOR LEVELS. Stairways and shafts serving ~~2~~ 3 or more floor levels shall be enclosed as specified in s. Ind ~~51.02 (11)~~ 51.18 with fire-resistive construction as specified in Table 51.03-A, ~~line 24.~~

SECTION 46. Table 59.22 is amended to read:

TABLE 59.22
OCCUPANCY SEPARATIONS FIRE-RESISTIVE RATINGS IN HOURS

OCCUPANCY TYPES	CH ^{1,3} 54	CH 55	CH 56	CH 57	CH 58	CH ² 59	CH 60	CH 61	CH ² 62	BELOW EXIT COURTS
Storage Garage greater than 500 sq. ft.	2	2 <u>3</u>	2	2	3	0	2	None ⁵ See s. Ind 61.10 (2)	0	3
Storage Garage equal to or less than 500 sq. ft.	1	2 <u>3</u>	2	None ⁴ See s. Ind 57.01 (4)	3	0	1	None ⁵ See s. Ind 61.10 (2)	0	3
Repair Garage greater than 500/sq. ft.	3	3 <u>4</u>	3	3	4	0	3	3	0	4
Repair Garage equal to or less than 500 sq. ft.	2	3 <u>4</u>	3	2	4	0	2	2	0	4

¹ 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.

² 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.

³ 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.

~~4-See s. Ind 57.01 (4).~~

~~5-See s. Ind 61.10 (2).~~

SECTION 47. Ind 60.13 (2) is amended to read:

Ind 60.13 (2) The windows or vision panels shall have a total ~~glazed~~ sash area of at least 8% of the floor area of the room served. The openable area of the windows shall be equal to at least 4% of the floor area of the room served.

SECTION 48. Ind 60.23 (3) is amended to read:

Ind 60.23 (3) Stairs and shafts serving ~~3~~ 2 or more floor levels shall comply with the requirements of s. Ind 51.02 (11) and Table 51.03-A.

SECTION 49. Ind 60.34 (1) is amended to read:

Ind 60.34 (1) All stairs and vertical shafts serving ~~3~~ 2 or more floor levels shall comply with the requirements of s. Ind 51.02 (11) and Table 51.03-A. All required stair enclosures ~~must~~ shall lead to the outside without interruptions.

SECTION 50. Ch. Ind 61 Title only is amended to read:

Ch. Ind 61
COMMUNITY-BASED RESIDENTIAL FACILITIES (CBRF)
AND SHELTERED FACILITIES FOR BATTERED WOMEN

SECTION 51. Ind 61.001 is amended to read:

Ind 61.001 SCOPE. (1) CBRF SERVING 9-20. (a) The requirements of this chapter shall apply to all community-based residential facilities, herein afterwards referred to as CBRF, providing care, treatment and services to 9 through 20 unrelated adults, to be located in existing buildings.

Note: Refer to ~~the ch. HSS 3, Wis. Adm. Code,~~ rules of the department of health and social services for requirements pertaining to CBRF to be located in existing buildings providing care, treatment and services to 3 through 8 unrelated adults.

~~(a)~~ (b) Except for s. Ind 51.01, the requirements of chs. Ind 51 to 53 and 64 do not apply to existing conditions unless specifically referred to in this chapter. Additions, alterations and remodelings shall conform to the current applicable portions of these ~~sections~~ chapters.

(2) NEWLY CONSTRUCTED CBRF. (a) All newly constructed CBRF providing care, treatment and services ~~to for~~ 3 ~~or more to 8~~ unrelated adults shall be within the scope of ~~ch. Ind 57~~ chs. Ind 20-25, Wis. Adm. Code.

(b) All newly constructed CBRF providing care, treatment and services for 9 or more unrelated adults shall be within the scope of ch. Ind 57.

Note #1: This code is not intended to limit the power of cities, villages and towns to make, or enforce, additional or more stringent regulations, provided the regulations do not conflict with this code, or with any other rule of the department or law.

Note #2: CBRF intending to utilize federal funds may have to comply with other requirements in addition to those outlined herein, such as NFPA 101 - Life Safety Code, ANSI standards for barrier-free design, and miscellaneous federal regulations.

(3) SHELTERED FACILITIES FOR BATTERED WOMEN. (a) The requirements of this chapter shall apply to all sheltered facilities for battered women, as specified in s. 46.95, Stats., serving 20 or less occupants.

(b) Except for s. Ind 51.01, the requirements of chs. Ind 51 to 53 and 64 do not apply to existing conditions unless specifically referred to in this chapter. Additions, alterations and remodelings shall conform to the current applicable portions of these chapters.

Note: Refer to ch. Ind 57 for sheltered facilities serving more than 20 occupants.

SECTION 52. Ind 61.14 (2) Note is created to read:

Ind 61.14 (2) Note: See s. Ind 51.245 for additional requirements pertaining to smoke detectors.

SECTION 53. Ind 63.12 (1) (b) 1. is amended to read:

Ind 63.12 (1) (b) 1. The thermal performance values for the exterior envelope of residential buildings including but not limited to apartments, row houses, town houses, condominiums, convents and monasteries of ≥ 3 stories or less in height shall not exceed 9 Btu/hour/square foot of above-grade exterior envelope.

SECTION 54. Ind 64.65 (1) Note #4 is amended to read:

Ind 64.65 (1) Note #4: The use of wall registers within ≤ 4 inches of the floor, baseboard registers, and floor registers is prohibited in these areas. (See s. Ind 52.57, Note.)

SECTION 55. A62.50 is created to read:

A62.50 FIRE EXTINGUISHERS. See A-51.22 for related information.

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.
