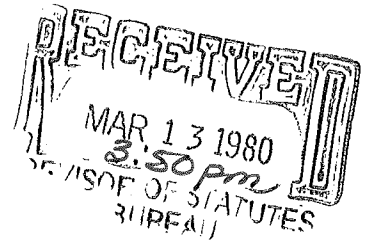


Ind 50 to 64

# RULES CERTIFICATE



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

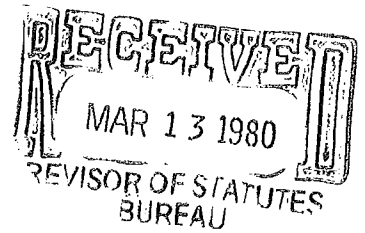
TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETINGS:

I, Joseph N. Noll, 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 Bldg. & Htg., Vent. & Air Cond. Code, were duly approved and adopted by this department on (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 11:00 am in the city of Madison, this 13<sup>th</sup> day of March A.D. 1980.

Joseph N. Noll  
Secretary



# ORDER OF ADOPTION


Pursuant to authority vested in the Department of Industry, Labor and Human Relations by section(s) 101.01 to 101.211, 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):

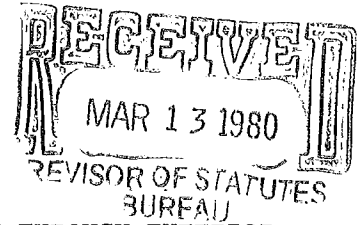
Ind. 50-64 Building & Heating, Ventilating & Air Cond. Code  
(Number) (Title)

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 13<sup>th</sup>  
day of March, A.D., 1980

DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS

  
Secretary



Ind 51.25 ADOPTION OF ASTM STANDARDS.

Subsection Ind 51.25 (55) is created to read:

(55) STANDARD METHOD OF TEST FOR RATE OF AIR LEAKAGE THROUGH EXTERIOR WINDOWS, CURTAIN WALLS AND DOORS. Part 18 ASTM Designation E 283-73.

Ind 63.11 GENERAL REQUIREMENTS.

Subsection Ind 63.11 (3) is repealed and recreated to read:

(3) Infiltration. (a) All exterior windows and doors. All exterior windows and doors shall be designed to limit air leakage into or from the building and shall be caulked, gasketed, weatherstripped or otherwise sealed.

(b) Factory manufactured exterior windows and doors. Factory manufactured exterior windows and doors shall be designed and manufactured to have a rate of infiltration equal to or less than the rates specified in Table 63.11-A.

TABLE 63.11-A  
AIR INFILTRATION RATES FOR FACTORY MANUFACTURED  
EXTERIOR WINDOWS AND DOORS

Component	Infiltration Rate (Expressed in CFM/lineal foot of perimeter crack of operable sash, unless otherwise specified)
Operable windows, prime	
Residential*	.30
All other occupancies	.15
Prehung, swing-type doors	.50
Glazed, sliding (patio type) doors	.50 CFM/square foot of door area

\*Residential occupancies include apartments, row houses, town houses, condominiums, convents and monasteries.

1. Compliance with the air infiltration rates specified in Table 63.11-A shall be certified by an independent testing laboratory or a Wisconsin registered architect or professional engineer using the criteria for air leakage specified in ASTM E-283, "Standard Method of Test for Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors" (Ind 51.25 (55)) at a pressure differential of 1.567 pounds per square foot (equivalent to effect of 25 miles per hour wind).

Note: The term "factory manufactured" does not apply to units constructed or fabricated in the field or to units assembled from individual components at a lumber yard or building material center.

Ind 63.12 DESIGN CRITERIA.

Subsection Ind 63.12 (1) is repealed and recreated to read:

- (1) Thermal performance. (a) The thermal performance values for the exterior envelope of buildings, other than residential buildings (i.e., apartments, row houses, town houses, condominiums, convents and monasteries) of 2 stories or less in height, shall not exceed the values specified in Table 63.12-A.

TABLE 63.12-A  
THERMAL PERFORMANCE VALUES

Number of Stories	Thermal Performance Values*
1-2	12
3-4	13
5-7	16
8-12	18
13-20	20
Over 20	21

\*Expressed in Btu/hour/square foot of above-grade exterior envelope.

- (b) The thermal performance values for the exterior envelope of residential buildings (i.e., apartments, row houses, town houses, condominiums, convents and monasteries) of 2 stories or less in height shall not exceed 9 Btu/hour/square foot of above-grade exterior envelope.
- (c) Exception. The thermal performance values specified in (a) or (b) may be increased provided the U-value for floors over unheated spaces is decreased so that the total heat gain or loss for the entire building envelope and floor area does not exceed the total heat gain or loss resulting from conformance to the values specified in (1) and (2) of this section.

Note: To determine the thermal performance value of a building, the designer may use a static or dynamic method of calculation provided such calculation method is acceptable to the department.

Ind 63.33 INSULATION

Subsection Ind 63.33 (2) (a) is created to read:

- (a) Exception. Conformance to the minimum pipe insulation requirements specified in Table 63.22 shall be deemed as complying with the requirements of this section.

Ind 64.59 RESIDENTIAL OCCUPANCIES.

Subsection Ind 64.59 (2) (a) is created to read:

- (a) Exception. For motel or hotel sleeping rooms without openable outside windows and facing naturally lighted pool or recreation areas, see sections Ind 52.02 (1) (b) and Ind 57.19 (1) (a).

Ind 50.06 LOCAL REGULATIONS.

Subsection Ind 50.06 (1) is created to read:

- (1) Exception. Pursuant to s. 101.75 (2), Stats., all manufactured multi-family dwellings approved by the department shall be deemed to comply with the requirements of all building ordinances and regulations of any local government except those related to zoning and siting requirements including, but not limited to, building setback, side and rear yard requirements and property line requirements.

Note: This exception applies only to those building elements and building parts covered under the provisions of section Ind 50.125 Wisconsin Insignia. The exception does not apply to on-site constructed elements such as, but not limited to, footings, foundations, attached porches, steps, concrete floor slabs and on-site constructed mechanical systems.

Section Ind 50.125 is created to read:

Ind 50.125 WISCONSIN INSIGNIA. A Wisconsin insignia shall be installed on a manufactured multi-family dwelling approved by the department and inspected at the manufacturing plant.

- (1) Affixing Wisconsin insignia. Each Wisconsin insignia shall be assigned and affixed to a specific manufactured multi-family dwelling in the manner approved by the department before it is shipped from the manufacturing plant. The serial number shall be located on the manufacturer's data plate.
- (2) Manufacturer's responsibilities. (a) Insignia records. The manufacturer shall keep permanent records regarding the handling of all Wisconsin insignias indicating the number of Wisconsin insignias which have been affixed to manufactured multi-family dwellings or manufactured building components (or groups of components); which Wisconsin insignias have been applied to which manufactured multi-family dwelling or building component; the disposition of any damaged or rejected Wisconsin insignias. The records shall be maintained by the manufacturer or by the independent inspection agency for at least 10 years. A copy of the records shall be sent to the department upon request.
  - (b) Lost or damaged insignia. 1. If Wisconsin insignias become lost or damaged, the department shall be notified immediately, in writing, by the manufacturer or dealer.
    2. If Wisconsin insignias become damaged, the insignia shall be returned to the department with the appropriate fee to obtain a new insignia.

- (3) Insignia suspension and revocation. The department may suspend or revoke its approval if it determines that the standards for construction or the manufacture and installation of a manufactured multi-family dwelling do not meet this code or that such standards are not being enforced as required by this code.
- (a) Upon suspension or revocation of the approval, no further insignias shall be attached to any manufactured multi-family dwelling with respect to which the approval was suspended or revoked.
- (b) Upon suspension or revocation of the approval, all insignias allocated to the manufacturer shall be returned to the department no later than 30 days from the effective date.

Section Ind 50.13 is amended to read:

Ind 50.13 FOOTING AND FOUNDATION APPROVAL. Upon submission of the plans approval application form, at least ~~3~~ 4 sets of footing and foundation plans, a plot plan, schematic floor plans locating exits, elevations, itemized structural loads, structural foundation calculations, and a fee, the department may conditionally approve the footing and foundation plans to permit construction of the footings and foundations prior to the examination and approval of the complete plans.

Section Ind 50.14 is amended to read:

Ind 50.14\* PERMIT TO START CONSTRUCTION. Upon submission of the plans approval application form, ~~3~~ 4 complete sets of building plans and one copy of specifications, a written request by the owner to start construction, and a fee, the department may issue a permit to start construction of the footings and foundations. The ~~holder~~ holders of the permit shall proceed at ~~his-(her)~~ their own risk without assurance that a conditional approval for the building will be granted.

Note: A permit to start construction (form SB-198) is illustrated in the Appendix.

Section Ind 50.15 is amended to read:

Ind 50.15 EVIDENCE OF PLAN APPROVAL. The architect, engineer, designer, builder, manufacturer or owner shall keep at the building site one set of plans bearing the stamp of conditional approval and a copy of the specifications. The plans shall be open to inspection by an authorized representative of the department.

Section Ind 50.18 is amended to read:

Ind 50.18\* INSPECTIONS. (1) On-site. Inspections shall be conducted by an authorized representative of the department to ascertain whether or not the construction or installations conform to the conditionally approved plans, the conditional approval letter, and the conditions of this code.

(2) In-plant. Manufacturers of multi-family dwellings shall contract with the department or an independent inspection agency to conduct in-plant inspections to assure that the manufactured multi-family dwellings are in compliance with the plans approved by the department. All inspections shall be performed by a certified inspector or independent inspection agency.

Note: See Appendix A for an example of the inspection progress report (from SB-224B) and inspection report and orders (form SB-2).

Section Ind 50.25 is amended to read:

Ind 50.25\* PETITION FOR MODIFICATION. The department will consider and may grant modification to an administrative rule upon receipt of a fee, a completed petition for modification form from the owner, and a position statement from the fire department having responsibility and an interest in the rule, provided an ~~equivalent degree of safety~~ equivalency is established in the petition for modification which meets the intent of the rule being petitioned. The department may impose specific conditions in a petition for modification to promote the protection of the health, safety or welfare of the employes or the public. Violation of those conditions under which the petition for modification is granted constitutes a violation of these rules.

Note #1: See Appendix A for an example of the petition for modification (form SB-8) and the fire department position statement (form SB-8A).

Note #2: Section 101.02 (6), Stats., outlines the procedure for submitting petitions to the department and the department procedures for hearing petitions.

Ind 51.01 DEFINITIONS.

Subsections Ind 51.01 (16a), (71a) and (114a) are created to read:

- (16a) Certified inspector. Certified inspector means an individual certified by the department to administer and enforce this code.
- (71a) Independent inspection agency. Independent inspection agency means any person, firm, association, partnership or corporation, other than a municipal corporation, certified by the department to perform certified inspections under this code.
- (79a) Manufactured Multi-family Dwelling. Manufactured multi-family dwelling means any structure or component which is intended for use as a multi-family dwelling and for which certification is sought by the manufacturer, and which is of open or closed construction, fabricated or assembled on-site or off-site in manufacturing facilities for installation, or assembly and installation at the building site. For purpose of this code, a manufactured multi-family dwelling means three or more living units attached together, or two or more living units and a business occupancy attached together.
- (114a) Rural school building. A rural school building is a building used solely for instructional purposes, is located outside of the corporate limits of a city or village, is not more than one story in height and contains not more than 2 classrooms.

Ind 51.06 FOAM PLASTICS.

Subsection Ind 51.06 (3) (b) 8. a. is created to read:

- a. Exception. Foam plastic core freezer/cooler doors for refrigerated facilities used for food processing or storage may be covered with 3/32-inch fiber-reinforced plastic provided the fiber-reinforced plastic has a flame spread of 175 or less.

Ind 56.001 SCOPE.

Section Ind 56.001 Note is created to read:

Note: Section 101.02 (15) (a), Stats., exempts rural school buildings from the provisions of this code. See section Ind 51.01 (114a) for definition of a rural school building.

Section Ind 57.015 is created to read:

Ind 57.015 BASEMENT AND GROUND FLOOR PROTECTION. The ceilings of all spaces, except those within individual living units, located below the first floor (ground floor(s) and basement(s)) of all residential buildings shall be protected with at least one layer of 5/8-inch type X gypsum wallboard with taped joints, or equivalent, or such spaces shall be protected by an approved automatic sprinkler system.

Ind 60.12 DOORS.

Subsection Ind 60.12 (1) (d) is amended to read:

- (d) All such doors in centers serving ~~less than 20~~ 20 or less children need not be provided with illuminated exit signs.

Ind 60.38 EXIT AND EMERGENCY LIGHTING:

Subsections Ind 60.38 (1) and (2) are amended to read:

- (1) Exit lights. All required exit doors and exit stairways in day care centers ~~servng 20 or more children~~ more than 20 children shall be plainly marked by a red, illuminated translucent exit sign bearing the word EXIT or OUT in plain letters not less than ~~6~~ 5 inches high.
- (2) Emergency power source. All illuminated exit signs shall be supplied from an emergency source recognized by Wis. Adm. Code chapter E 700, Vol. 2, Wisconsin State Electrical Code.