

the number of occupants accommodated therein, unless this information is indicated on the plans.

Note 1: Original drawings are not considered a substitute for permanent prints.

Note 2: Duplicate information need not be submitted when heating, ventilating, air conditioning and building plans are submitted simultaneously.

Note 3: For pit depth and overhead clearance requirements applicable to design of elevator hoistways, see ch. Ind 4, Elevator Code.

Note 4: Plans for swimming pool installations are examined by the department of health and social services.

(4) **DATA REQUIRED.** All plans submitted for approval shall be accompanied by sufficient data and information for the department to judge if the design of the building, the capacity of the equipment, and the performance of the system will meet the requirements of this code. The following data shall be submitted:

(a) *Structural data.* Sample structural calculations, including assumed bearing value of soil, live loads and itemized dead loads, unit stresses for structural materials, typical calculations for slabs, beams, girders, columns and trusses shall be submitted. Typical wind and bracing calculations and diagrams including the manner in which shear transfer is made between resisting elements shall also be included. Complete structural calculations shall be furnished upon request of the department or other authorized approving official.

1. The building designer shall submit the following minimum information for structural components such as but not limited to wood trusses, precast concrete laminated wood members, steel joists and steel girders when the component fabricator is specified as being responsible for the component design:

- a. Structural framing plan;
- b. Bearing support and connection details of the component to the structure;
- c. Design loads, including location and magnitude of: uniform superimposed dead and live loads; concentrated dead and live loads; nonuniform snow loads; wind and bracing loads for component system; and wind, bracing and gravity forces required to be developed at interfaces with other materials;
- d. Required fire rating;
- e. Outside configuration of components; and
- f. Permanent bracing system.

2. The building designer shall also submit the following information with the initial building plan submittal or the component plan submittal:

- a. A framing plan showing all members and labels and special installation (e.g., handling and erection) instructions and any required permanent bracing required which was the basis for the component design;

b. Information regarding the member design of the following structural components: Web configuration, stress diagram or tabulation of axial force in the members, member size, grade of lumber, fabricated splices and member bracing for wood trusses; Web configuration, stress diagram or tabulation of axial force in the members, member size, steel yield, fabricated splices and member bracing for steel joists and joist girders subjected to nonuniform loading; Specified concrete strengths, prestressing data including final effective forces and centroids, mild reinforcing including release and confinement steel, shear reinforcing, and stripping, transportation and erection handling points for precast concrete members; Species of wood, bending stress of wood, adhesive and member sizes for laminated wood members; and

c. Information pertaining to the design of connections within or between like components for the following structural components: Web and chord connection details and connector plate holding values for wood trusses; Web and chord connection details for steel joist and joist girders subjected to nonuniform loading; Bearing confinement steel, dapped end reinforcing, corbel reinforcing, bearing pads, and loose and embedded connection steel including welding and bolting requirements for precast concrete members; Member connection and bearing details for laminated wood members.

(b) *Energy conservation data.* Calculations and specifications shall be submitted in accordance with s. ILHR 63.01.

(c) *Heating and ventilating data.* A description of the construction for the walls, floors, ceilings and roof, and the transmission coefficients of the construction materials shall be furnished. The calculations shall include heat losses for the individual rooms (including transmission and infiltration and/or ventilation losses, whichever are greater) and a summary of the total building heat loss expressed in Btu/hour or watts.

Note: The department will accept as the basis for calculations and design data, the methods and standards recommended by the Mechanical Contractors' Association of America; the American Society of Heating, Refrigerating and Air Conditioning Engineers; and the Institute of Boiler and Radiator Manufacturers.

(d) *Additional data.* When requested, additional data pertaining to design, construction, materials and equipment shall be submitted to the department for approval.

(5)\* **APPLICATION FOR APPROVAL.** A plans approval application form shall be included with the plans submitted to the department for examination and approval.

Note: See Appendix A for an example of the plans approval application (form SB-118).

(a) *Conditional approval.* If, upon examination, the department determines that the plans and the application for approval substantially conform to the provisions of this code, a conditional approval, in writing, will be granted. All non-code-complying conditions stated in the conditional approval shall be corrected before or during construction. A conditional approval issued by the department shall not be construed as an assumption of any responsibility for the design or construction of the building.

\*See Appendix A for further explanatory material.

Register, December, 1983, No. 336  
Building and heating, ventilating  
and air conditioning code

(b) *Denial of approval.* If the department determines that the plans or the application do not substantially conform to the provisions of this code, the application for conditional approval will be denied, in writing.

Note: A letter will be sent to the designer and the owner of record with a statement relating to the examination of the plans and citing the conditions of approval or denial. The plans will be dated and stamped "conditionally approved" or "not approved," whichever applies. The department will retain one copy of the plans for all projects. The department will forward one copy of the plans for projects of less than 100,000 cubic feet and alterations of less than \$100,000 estimated cost to the state building inspector of record. The remaining plans will be returned to the person designated on the plans approval application.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77; am. (1) (g) 1, Register, December, 1977, No. 264, eff. 1-1-78; am. (4) (b), Register, May, 1978, No. 269, eff. 7-1-78; am. (1) (g) (intro.), Register, December, 1978, No. 276, eff. 1-1-79; am. (2) (c) 1., (3) (intro.) and (4) (b), cr. (2) (k), Register, January, 1980, No. 289, eff. 2-1-80; am. (1) (b) and (d), (2) (c) 2., (d) and (i), (3) (d), (4) (a), renum. (1) (e), (f) and (g) to be (1) (f), (g) and (i) and am. (1) (f) and (i) (intro.), cr. (1) (e) and (h), Register, December, 1981, No. 312, eff. 1-1-82; r. and recr. (1) (i), am. (4) (a) 2. intro., Register, December, 1983, No. 336, eff. 1-1-84.

**ILHR 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.

Register, December, 1983, No. 336  
Building and heating, ventilating  
and air conditioning code

(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.

History: Cr. Register, May, 1980, No. 293, eff. 6-1-80.

**ILHR 50.13 Footing and foundation approval.** Upon submission of the plans approval application form, at least 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.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77; am. Register, May, 1980, No. 293, eff. 6-1-80.

**ILHR 50.14\* Permission to start construction.** Upon submission of the plans approval application form, 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 permission to start construction form for the footings and foundations. The holders of the permission form shall proceed at their own risk without assurance that a conditional approval for the building will be granted.

Note 1: A permission to start construction form (form SB-198) is illustrated in the Appendix.

Note 2: Section 66.036, Stats., prohibits issuance of building permits by counties, cities, towns or villages for structures requiring connection to a private domestic sewerage treatment and disposal system unless the system satisfies all applicable requirements and all necessary permits for such system have been obtained.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77; am. Register, May, 1980, No. 293, eff. 6-1-80; am. Register, December, 1983, No. 336, eff. 1-1-84.

**ILHR 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.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77; am. Register, May, 1980, No. 293, eff. 6-1-80.

**ILHR 50.16 Revocation of approval.** The department may revoke any approval, issued under the provisions of this code, for any false statements or misrepresentation of facts on which the approval was based.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77.

**ILHR 50.17 Department limitation and expiration of plan approval. (1) EXPIRATION OF PLAN APPROVAL.** Plan approval by the department or its authorized representative shall expire one year after the date indicated on the approved plans if construction has not commenced within that year.

Note: According to s. 66.05 (1) (a), Stats., the local governmental body or building inspector may order the razing of buildings or structures, or portions thereof, where there has been a cessation of normal construction for more than 2 years.

\*See Appendix A for further explanatory material.

Register, December, 1983, No. 336  
Building and heating, ventilating  
and air conditioning code

(2) **DEPARTMENT LIMITATION.** A conditional approval of a plan by the department shall not be construed as an assumption of any responsibility for the design.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77.

**ILHR 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 provisions 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 (form SB-224B) and inspection report and orders (form SB-2).

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77; am. Register, May, 1980, No. 293, eff. 6-1-80.

**ILHR 50.19 Approval of materials, equipment and devices.** All materials, equipment and devices not specifically mentioned in this code will be permitted if approved in writing by the department. Sufficient data, tests and other evidence to prove that the material, equipment or device is equivalent to the standards required in this code shall be submitted. Upon receipt of a fee and a written request, the department may issue an approval number for the material, piece of equipment or device.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77.

**ILHR 50.20\* Fees.** Fees for petitions for modification, material approval, plan examination and approval, and for inspection of buildings, structures, and heating and ventilating shall be submitted in accordance with the provisions of s. Ind 69.09. Fees shall be submitted at the time the application for approval is submitted. No plan examinations, approvals or inspections will be made until the fees are received.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77.

#### **PART V—FIRST CLASS CITY and CERTIFIED CITIES APPROVALS**

**ILHR 50.21 First class city examination and approval.** Drawings, specifications and calculations for all buildings and structures, except state-owned buildings and structures, to be constructed within the city limits of Milwaukee shall be submitted to the inspector of buildings, Milwaukee, for examination and approval.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77.

**ILHR 50.22 Certified cities examination and approval.** Drawings, specifications and calculations for all new buildings and structures containing less than 50,000 cubic feet total volume and alterations to buildings containing less than 100,000 cubic feet total volume, except state-owned

\*See Appendix A for further explanatory material.

buildings and structures, shall be submitted to cities certified by the department for examination and approval according to requirements of this code. Drawings, specifications and calculations submitted to said cities for examination and approval need not be submitted to the department. The buildings must be located within the city limits of the certified city.

Note: The following cities have been certified by the department:

Appleton	Greenfield	Middleton	Superior
Beloit	Janesville	Muskego	Two Rivers
Brookfield	Kaukauna	New Berlin	Waukesha
Cudahy	Kenosha	Oshkosh	Wausau
Eau Claire	La Crosse	Racine	Wauwatosa
Fond du Lac	Madison	Sheboygan	West Allis
Glendale	Manitowoc	Stevens Point	West Bend
Green Bay	Marshfield	Sun Prairie	Wisconsin Rapids

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77.

#### PART VI—ENFORCEMENT, PETITION for VARIANCE, APPEALS, and PENALTIES

**ILHR 50.23 Enforcement.** The provisions of this code shall be enforced by the department, or by municipal officials or other local officials who are required by law to enforce the administrative rules of the department.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77.

**ILHR 50.24 Appeals.** Any person affected by any local order which is in conflict with a rule of the department may petition the department for a hearing on the ground that the local order is unreasonable and/or in conflict with the rule of the department.

Note: Section 101.01 (1) (g), Stats., defines "local order" as any ordinance, order, rule or determination of any common council, board of aldermen, board of trustees or the village board, of any village or city, or the board of health of any municipality, or an order or direction of any official of such municipality, upon any matter over which the department has jurisdiction.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77.

**ILHR 50.25 \* Petition for variance.** The department shall consider and may grant a variance to an administrative rule upon receipt of a fee, a completed petition for variance form from the owner, and a position statement from the fire department having responsibility and an interest in the rule, provided an equivalency is established in the petition for variance which meets the intent of the rule being petitioned. The department may impose specific conditions in a petition for variance to promote the protection of the health, safety or welfare of the employees or the

\*See Appendix A for further explanatory material.

Register, October, 1984, No. 346  
Building and heating, ventilating  
and air conditioning code

public. Violation of those conditions under which the petition is granted constitutes a violation of these rules.

Note 1: See Appendix A for an example of the petition for variance (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.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77; am. Register, December, 1978, No. 276, eff. 1-1-79; am. Register, May, 1980, No. 293, eff. 6-1-80; am. Register, October, 1984, No. 346, eff. 11-1-84.

Register, October, 1984, No. 346  
Building and heating, ventilating  
and air conditioning code

**ILHR 50.26 Penalties.** Penalties for violations shall be assessed in accordance with s. 101.02, Stats.

Note 1: Section 101.02 (13) (a), Stats., indicates penalties will be assessed against any employer, employe, owner or other person who fails or refuses to perform any duty lawfully enjoined, within the time prescribed by the department, for which no penalty has been specifically provided, or who fails, neglects or refuses to comply with any lawful order made by the department, or any judgment or decree made by any court in connection with ss. 101.01 to 101.25. For each such violation, failure or refusal, such employe, owner or other person must forfeit and pay into the state treasury a sum not less than \$10 nor more than \$100 for each violation.

Note 2: Section 101.02 (12), Stats., indicates that every day during which any person, persons, corporation or any officer, agent or employe thereof, fails to observe and comply with an order of the department will constitute a separate *and distinct violation* of such order.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77.

**ILHR 50.27 Saving and severable clauses.** If, for any reason, any one or more sections, sentences, clauses or parts of chs. ILHR 50 to 64 are held invalid, such invalidity shall not affect, impair or invalidate the remaining provisions.

History: Cr. Register, December, 1983, No. 336, eff. 1-1-84.