

Chapter ILHR 50

ADMINISTRATION AND ENFORCEMENT

Subchapter I — Purpose and Scope

- ILHR 50.01 Purpose of code
ILHR 50.02 Scope

Subchapter II — Application of Building Code

- ILHR 50.03 Application
ILHR 50.04 Buildings exempt from code requirements
ILHR 50.05 Existing buildings code
ILHR 50.06 Local regulations

Subchapter III — Design and Supervision

- ILHR 50.07 Design
ILHR 50.08 Plans, specifications and calculations prepared outside Wisconsin
ILHR 50.10 Supervision
ILHR 50.11 Owner's responsibility

Subchapter IV — Department Approval

- ILHR 50.12 Plan examination and approval
ILHR 50.125 Wisconsin insignia
ILHR 50.13 Footing and foundation approval

- ILHR 50.14 Permission to start construction
ILHR 50.15 Evidence of plan approval
ILHR 50.155 Sprinkler documents
ILHR 50.16 Revocation of approval
ILHR 50.17 Expiration of plan approval and extension of plan approval
ILHR 50.176 Department limitation
ILHR 50.18 Inspections
ILHR 50.19 Building material approvals
ILHR 50.20 Fees

Subchapter V — First Class City and Certified Municipal Approvals

- ILHR 50.21 Certified municipalities and counties

Subchapter VI — Enforcement, Petition for Variance, Appeals and Penalties

- ILHR 50.23 Enforcement
ILHR 50.24 Appeals
ILHR 50.25 Petition for variance
ILHR 50.26 Penalties

Note: Chapter Ind 50 as it existed on December 31, 1976, was repealed and a new chapter Ind 50 was created effective January 1, 1977; chapter Ind 50 was renumbered to be chapter ILHR 50, effective January 1, 1984.

Subchapter I — Purpose and Scope

ILHR 50.01 Purpose of code. The purpose of this code is to protect the health, safety and welfare of the public and employes by establishing minimum standards for the design, construction, structural strength, quality of materials, adequate egress facilities, sanitary facilities, natural lighting, heating and ventilating, energy conservation, and fire safety for all public buildings and places of employment.

Note 1: The purpose as stated can be traced to the terms used in the "safe place" statutes, ch. 101, Stats.

Note 2: This code is intended for the protection of the public and is not intended as a design manual, a textbook or a construction manual.

Note 3: The code cannot address every conceivable design option; points of code application and clarification will be addressed and issued from time to time and will be published in the Wisconsin Building Codes Report available from the Safety and Buildings Division, P. O. Box 7969, Madison, Wisconsin 53707.

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

ILHR 50.02 Scope. The provisions of chs. ILHR 50-64 apply to all public buildings and places 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. ILHR 51.02 (11) (b) 4., 52.012, 52.013, 58.001 (2) (c), 62.93 and 64.57 (4). No part of this code is intended to prohibit or discourage the design and construction of innovative buildings or the use of new materials or systems provided written approval from the department is obtained. Under this section, written approval from the department shall include, but is not limited to, an acceptance through preliminary design consul-

tation, plan review, petition for variance, official code interpretation, material approval or other written forms of communication.

Note 1: For a definition of "public building" and "place of employment," see ss. ILHR 51.01 (102b) and 51.01 (104a) or s. 101.01 (2), Stats.

Note 2: Other state agencies and local municipalities may have adopted building or construction requirements that are either more restrictive or address other issues than those specified in this code.

Note 3: The overall enforcement responsibility for this code is equally shared by the building inspector and the fire inspector. Normally, the building inspector has primary responsibility during construction of the building, while the fire inspector has primary responsibility after the building is completed. The enforcement of many of the provisions of the code is the primary responsibility of the fire inspector, and compliance with these provisions should be of primary concern while conducting the fire prevention inspections mandated by s. 101.14, Stats. See Appendix B for a listing of the code sections for which the fire inspector has the primary enforcement responsibility.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77; am. Register, December, 1981, No. 312, eff. 1-1-82; am. Register, October, 1982, No. 322, eff. 11-1-82; am. Register, December, 1983, No. 336, eff. 1-1-84; am. Register, August, 1985, No. 356, eff. 1-1-86; emerg. am. eff. 9-6-86; am. Register, November, 1986, No. 371, eff. 12-1-86; am. Register, March, 1991, No. 423, eff. 4-1-91.

Subchapter II — Application of Building Code

ILHR 50.03 Application. (1) **NEW BUILDINGS AND ADDITIONS.** The provisions of this code shall apply to all new buildings and structures, and also to additions to existing buildings and structures, except those indicated in s. ILHR 50.04.

(2) **ALTERATIONS TO BUILDINGS.** The provisions of this code shall apply to all remodeling or alterations in any building or structure which affect the structural strength, fire hazard, exits, required natural lighting or replacement of major equipment. These provisions do not apply to minor repairs necessary for the maintenance of any building or structure nor to buildings exempt, as listed in s. ILHR 50.04.

ILHR 50.03

(3) **CHANGE OF USE.** (a) If the use of an existing building or structure is changed in accordance with the definition of s. ILHR 51.01 (87), and the requirements for the new use are more stringent than those for the previous use, the building or structure shall be made to comply with the requirements for the new use as provided in this code.

1. Exception. Unless the requirements for the new use are modified subject to the written approval by the department.

2. Exception. An existing building undergoing a change of use shall comply with the accessibility requirements specified in s. ILHR 69.03 (3).

(b) If, upon inspection of an existing building or structure, it is found that its use has changed and that it does not comply with the requirements of the building code in effect at the time of change, it shall be made to comply with the code requirements in effect at the time of change in use.

(4) **REST ROOM PARITY.** Rest room parity applies to any facility where the public congregates which has a general capacity or seating capacity of 500 or more persons and meets the following conditions:

(a) A new structural facility;

(b) A new facility without a permanent structure;

(c) An existing structural facility with alterations that affect 50% or more of the square footage of the facility;

(d) An existing structural facility in which an addition has a square footage equal to or greater than 51% of the square footage of the existing structure; and

(e) An existing facility with no permanent structure with an addition of land to the facility equal to or greater than 51% of the existing facility acreage.

Note: The percentage requirements established in this subsection shall apply to the accumulative sum of any remodeling or additions, or both undertaken after March 1, 1994. The addition of land applies only to that portion of added land which is specified as the expansion of the facility or event on that parcel and may not mean the total added land area to an existing facility or event.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77; am. (2), Register, August, 1985, No. 356 eff. 1-1-86; cr. (4), Register, August, 1993, No. 452, eff. 3-1-94; r. and recr. (3) (a) 2., Register, November, 1994, No. 467, eff. 12-1-94.

ILHR 50.04 Buildings exempt from code requirements. This code does not apply to the following types of buildings:

(1) One- and 2-family dwellings and outbuildings in connection therewith such as barns and private garages.

(2) Buildings used exclusively for farming purposes.

Note: For a definition of "farming," see s. 102.04 (3), Stats.

(3) Buildings used primarily for housing livestock or for other agricultural purposes, located on research or laboratory farms of public universities or other state institutions.

(4) Temporary buildings, used exclusively for construction purposes, not exceeding 2 stories in height, and not used as living quarters.

(5) Buildings located on Indian reservation land held in trust by the United States.

Register, November, 1994, No. 467

(6) Buildings owned by the federal government. Buildings owned by other than the federal government and leased to the federal government are not exempt.

(7) Bed and breakfast establishments as defined in s. ILHR 51.01 (11a).

(8) Community-based residential facilities located in existing buildings and providing care, treatment and services to 3 to 8 unrelated adults.

(9) An adult family home certified under s. 50.032 (1) (b), Stats.

(10) A one- or 2-family dwelling in which a home occupation is located.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77; am. (2) and cr. (5), Register, December, 1977, No. 264, eff. 1-1-78; cr. (6) to (8), Register, August, 1985, No. 356 eff. 1-1-86; cr. (9) and (10), Register, March, 1991, No. 423, eff. 4-1-91.

ILHR 50.05 Existing buildings code. Buildings and structures erected prior to the effective date of the first building code (October 9, 1914) shall comply with the general orders on existing buildings, chs. Ind 160-164, issued by the department. Buildings and structures constructed after October 9, 1914, shall comply with the code in effect at the time.

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

ILHR 50.06 Local regulations. (1) **AUTHORITY.** This code shall not 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.

(2) **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 s. ILHR 50.125 Wisconsin insignnia. 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.

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

Subchapter III — Design and Supervision

ILHR 50.07 Design. Every new building, or alteration to a building, shall be designed in compliance with this code.

(1) **BUILDINGS CONTAINING NOT MORE THAN 50,000 CUBIC FEET TOTAL VOLUME.** The plans and specifications for every new building, or alteration to a building, containing not more than 50,000 cubic feet total volume, or addition to a building in which the volume of the addition results in the entire building containing not more than 50,000 cubic feet total volume, may be prepared by a registered architect, engineer, designer, contractor or an authorized agent.

(2) **BUILDINGS CONTAINING MORE THAN 50,000 CUBIC FEET TOTAL VOLUME.** The plans and specifications for

every new building, or alteration to a building, containing more than 50,000 cubic feet total volume, or addition to a building in which the volume of the addition results in the entire building containing more than 50,000 cubic feet total volume, shall be designed as follows:

(a) *Building or structural design.* The plans and specifications for the design of the building or structure shall be prepared, signed and sealed by a Wisconsin registered architect or engineer.

(b) *Heating, ventilating and air conditioning design.* The plans and specifications for the heating, ventilating and air conditioning system shall be prepared, signed and sealed by a Wisconsin registered architect, engineer or designer.

(c) *Energy conservation design.* The plans and specifications for energy conservation design shall be prepared, signed and sealed by a Wisconsin registered architect, engineer or designer.

Note 1: See s. ILHR 51.01 (199a) for definition of total volume.

Note 2: The above terms "registered architect, engineer or designer" mean registered architect, registered professional engineer or designer as defined by laws regulating the practice of engineering and architecture found in ch. 443, Stats. Designers are limited to the specific limitations outlined in s. A-E 5.06. See s. A-E 2.02 for rules pertaining to signing, sealing and dating of plans prepared by a registered architect, engineer or designer.

Note 3: According to s. 87.30, Stats., the construction or placement of every building, structure, fill or development placed or maintained within any flood plain is required to satisfy local or state regulations.

(3) **ANTENNAS AND SUPPORTING TOWERS EXCEEDING 200 FEET IN HEIGHT.** The plans and specifications for antennas and supporting towers exceeding 200 feet in height shall be prepared, signed and sealed by a Wisconsin registered architect or engineer.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77; am. (2) (a) and (b), cr. (2) (c), Register, December, 1978, No. 276, eff. 1-1-79; am. (1), Register, December, 1981, No. 312, eff. 1-1-82; cr. (3), Register, December, 1983, No. 336, eff. 1-1-84; am. (2) (c), Register, December, 1985, No. 360, eff. 1-1-86.

ILHR 50.08 Plans, specifications and calculations prepared outside Wisconsin. Plans, specifications and calculations for buildings and structures under s. ILHR 50.07 (2) and (3), may be prepared by an architect or engineer registered outside of the state of Wisconsin, provided the following conditions are satisfied:

(1) **REGISTRATION.** The state agency or entity which registers the architect or engineer shall be an agency or entity recognized by the department of regulation and licensing as having equivalent standards for registration.

(2) **SEAL.** The plans, specifications and calculations shall bear the signature and seal or stamp of a registered architect or registered engineer.

(3) **CERTIFICATE.** A certificate, dated, signed and sealed by an architect or engineer registered in Wisconsin, shall be attached to the plans, specifications and calculations. The certificate shall indicate that the plans, specifications and calculations were prepared in a state other than Wisconsin by an architect or professional engineer registered in that state; describe the work performed by the Wisconsin registered architect or engineer; and include statements to the effect that the plans and specifications have been reviewed and comply with all applicable local and state buildings codes, and that the reviewing architect or

engineer will be responsible for the supervision of construction in accordance with the requirements of s. ILHR 50.10.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77; am. (intro.), Register, December, 1983, No. 336, eff. 1-1-84; renum. (1) and (2) to be (2) and (3) and am. (2), cr. (1), Register, March, 1991, No. 423, eff. 4-1-91.

ILHR 50.10 Supervision. All constructions or installations under s. ILHR 50.07 (2) and (3) shall be supervised by a Wisconsin registered architect or engineer, except that a Wisconsin registered designer may supervise the installation of heating, ventilating and air conditioning systems and illumination systems. The person responsible for supervision shall also be responsible for the construction and installation being in substantial compliance with the approved plans and specifications. Should the supervising architect, engineer, designer, or the department, be confronted with a nonconformance to the code during, or at the end of, construction, said parties, together with the designing architect, engineer or designer shall effect compliance or shall notify the department of the noncompliance.

(1) **DEFINITION.** Supervision of construction is a professional service, as distinguished from superintending of construction by a contractor, and means the performance, or the supervision thereof, of reasonable on-the-site observations to determine that the construction is in substantial compliance with the approved plans and specifications.

(2) **NAME OF SUPERVISING ARCHITECT, ENGINEER OR DESIGNER.** Prior to the start of construction, the owner of the building or structure, whose name must be a part of, or accompany, all plans submitted for approval, as required by s. ILHR 50.12 or an authorized agent, shall designate to the department, in writing, the name and Wisconsin registration number of the architect, engineer or designer retained to supervise construction of the building or structure.

(3) **COMPLIANCE STATEMENT.** Prior to initial occupancy of a new building or addition, and prior to final occupancy of an alteration of an existing building, the supervising architect, engineer or designer shall file a written statement with the department certifying that, to the best of his or her knowledge and belief, construction of the portion to be occupied has been performed in substantial compliance with the approved plans and specifications. This statement shall be provided on a form prescribed by the department.

Note: See Appendix A for an example of the compliance statement form (SBD-4927).

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77; am. (intro.) and (2), Register, December, 1981, No. 312, eff. 1-1-82; am. (intro.), Register, December, 1983, No. 336, eff. 1-1-84; am. (2) and (3), Register, January, 1994, No. 457, eff. 2-1-94.

ILHR 50.11 Owner's responsibility. No owner may construct or alter any building or structure, or portion of a building or structure, or permit any building or structure to be constructed or altered except in compliance with the provisions of chs. ILHR 50 to 64. Compliance with the provisions of this section does not relieve the owner from compliance with the administrative rules established in other related codes.

Note 1: For definition of owner, refer to s. 101.01 (2) (e), Stats.

Register, November, 1994, No. 467

ILHR 50.11

Note 2: Section ILHR 50.07 specifies which plans and specifications must be prepared by a registered architect, engineer or designer. Section ILHR 50.10 specifies which construction must be supervised by a registered architect, engineer or designer. Section ILHR 50.10 (2) specifies the owner's responsibilities in informing the department of the construction supervisor. Section ILHR 50.10 (3) specifies the requirements for filing completion statements prior to occupancy. Section ILHR 50.12 specifies the requirements for plan submittal and approval. Section ILHR 50.12 (6) requires submittal of a plan approval application form, and that form must be signed by the owner.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77; am. Register, January, 1994, No. 457, eff. 2-1-94.

Subchapter IV — Department Approval

ILHR 50.12 Plan examination and approval. (1) TYPES OF BUILDINGS. Plans and specifications for all buildings and structures in the following classifications shall be submitted to the department or its authorized representative, as provided in s. ILHR 50.21, for examination and approved before commencing work:

Note 1: See the scope of the occupancy chapters for examples of specific types of buildings covered in pars. (a) through (f).

Note 2: Section 101.12 (3) (b), Stats., prohibits local issuance of permits or licenses for construction or use of public buildings or places of employment until drawings and calculations have been examined and approved by the department.

(a) Factories, office and mercantile buildings (ch. ILHR 54).

1. Except for public mausoleums, department examination and approval for factories, office and mercantile buildings containing less than 25,000 cubic feet total volume is waived; however, the buildings shall comply with the applicable requirements of this code.

2. Upon written request, the department may conduct an examination of preliminary mausoleum plans for compliance with the provisions of this code. Results of this examination will be in writing. A fee may be charged for this type of examination. Complete plans and specifications shall be submitted in accordance with sub. (5) prior to construction.

(b) Theaters and assembly halls (ch. ILHR 55).

(c) Schools and other places of instruction (ch. ILHR 56).

(d) Apartment buildings, hotels, motels and places of abode (ch. ILHR 57).

(e) Health care facilities and places of detention (ch. ILHR 58). Plans shall be submitted for double ceiling in existing places of detention only where other alterations are being made that affect exiting, natural lighting, fire hazard or structural components. If the increased occupant load does not require physical alteration to the existing structure, plans are not required to be submitted.

(f) Hazardous occupancies (ch. ILHR 59).

1. Department examination and approval of plans shall be waived for a hangar accommodating one airplane; however, the building shall conform with the applicable requirements of this code.

2. Department examination and approval shall be waived for a storage garage which is less than 25,000 cubic feet in total volume; however, the building shall comply with the applicable requirements of this code.

Register, November, 1994, No. 467

(g) Day care facilities (ch. ILHR 60).

(h) Community-based residential facilities (CBRF) (ch. ILHR 61).

(i) 1. Except as provided in subd. 2, department examination and approval is waived for television and radio transmitting and receiving antennas, outdoor theater screens, water tanks, display signs, observation towers, docks, piers, wharves, tents or inflatable structures used temporarily, and other similar structures; however, these structures and temporary tents shall comply with the applicable structural and other requirements of chs. ILHR 50-64.

2. a. Plan examination and approval is required for the installation of roof mounted antenna structures exceeding 20 feet in height above the roof, unless the building is otherwise exempt or plan submittal is waived.

b. Plan examination and approval is required for the installation of ground mounted antenna structures exceeding 200 feet in height.

c. Plan examination and approval is required for the installation of ground mounted antenna structures exceeding 50 feet in height if the structure is located nearer to any street, public thoroughfare or property line than the height of the structure measured from the base of the structure nearest to the street, thoroughfare or property line to the highest point of the structure.

(2) TYPES OF PLAN APPROVAL. The following types of plans shall be submitted to the department or its authorized representative, as provided in s. ILHR 50.21, for examination and approval before construction is commenced:

(a) General building plans.

(b) Structural plans.

(c) 1. Heating and ventilating plans; and

2. Data and information relative to requirements of chs. ILHR 63 and 64 for the replacement of a major piece of heating or air conditioning equipment.

(d) Alteration plans for existing buildings, except for those alterations involving changes in interior finishes only.

(e) Revisions to previously examined plans.

(f) Industrial exhaust system plans within government-owned buildings.

Note: See s. ILHR 64.54 (3) relating to the types of exhaust ventilation systems requiring plan submittal.

(g) Spray booth plans (government-owned buildings only).

(h) Footing and foundation plans (see s. ILHR 50.13).

(i) Assembly seating facility plans.

(j) Fire escape plans.

(3) PLANS AND SPECIFICATIONS. At least 4 complete bound sets of plans, which are clear, legible and permanent copies, and one copy of specifications shall be submitted for examination and approval before commencing construction. The plans shall be bound in a manner that enables them to be reviewed without removing the bind-

ing. The plans and specifications shall contain the following information:

Note: Also see sub. (5) (b) note.

(a) *General*. All plans shall contain the name of the owner and the address of the building. The name and seal of the architect, engineer or person who prepared the plans shall appear on the title sheet, in accordance with s. A-E 2.02, Wis. Adm. Code.

(b) *General building plans*. The general building plans shall include the following:

1. Plot plan. a. The location of the building with respect to property lines and lot lines and adjoining streets, alleys and any other buildings on the same lot or property shall be indicated on the plot plan. For recycling space designated adjacent to a building, as specified in s. ILHR 52.24, the area and dimensions shall be indicated on the plot plan. A small scale plot plan shall be submitted on a 8½" × 11" sheet for projects containing multiple buildings. For purposes of this requirement, a plot plan does not have to be a certified survey.

b. The plot plan shall clearly indicate the location of the accessible building, its accessible entrances and the exterior accessible route to, from and between all accessible parking spaces, recreational and public facilities and areas on the site, public transportation stops adjacent to the property, public streets or sidewalks and if provided, passenger loading zones. The plans shall also indicate the size and location of the accessible parking spaces and the gradient or slope information for all walks and ramps on the accessible route.

2. Floor plans. Floor plans shall be provided for each floor. The size and location of all rooms, doors, windows, fire walls, toilet facilities, structural features, exit passageways, exit lights, fire alarms, standpipes, stairs and other pertinent information, including but not limited to adequate space within a building designated for collection, separation and temporary storage of recyclable materials, shall be indicated. Schematic exit plans shall be provided for large buildings, indicating normal paths of egress.

3. Elevations. The elevations shall contain information on the exterior appearance of the building and indicate the location and size of doors, windows, roof shape, chimneys, exterior grade, footings and foundation walls, and include information about the exterior materials.

4. Sections and details. Sections and details shall include information to clarify the building design.

5. Interior barrier-free design information. The general building floor plans, elevations and sections shall clearly show the following:

(c) *Heating, ventilating and air conditioning plans*. Heating, ventilating and air conditioning plans shall indicate the layout of the system, including location of equipment and size of all piping, ductwork, dampers (including fire dampers), chimneys, vents and controls. The quantity of outside air introduced to each zone, and the quantity of supply air and exhaust air for each room shall be listed on the plans. The type of equipment and capacity (including the input and output) shall be indicated on the plans or equipment schedules, unless indicated in the specifications.

(d) *Specialty plans*. Specialty plans for spray booths, special exhaust systems, assembly seating facilities, fire escapes and special structural systems shall include pertinent information with respect to the design and construction of the specialty.

(e) *Specifications*. The specifications shall be properly identified with the drawings and describe the quality of the materials and the workmanship.

(f) *Schedules*. Schedules shall be provided which contain information pertinent to doors, room finishes, equipment, and the use of all rooms and 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. ILHR 18, Elevator Code.

Note 4: Plans for swimming pool installations are examined by the department.

(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:

ILHR 50.12

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.

3. For the purposes of this paragraph, the department does not consider truss layout plans or truss erection plans as architectural practice or engineering practice, and therefore, such plans are not required to be signed and sealed or stamped in accordance with s. ILHR 50.07 or 50.08.

4. Information regarding reinforcement, concrete strength, fire resistive ratings for precast concrete components may be provided in either the specifications or calculations furnished with the precast concrete plans.

(b) *Energy conservation data.* Calculations and specifications shall be submitted in accordance with s. ILHR 63.01 for the types of projects outlined in s. ILHR 63.001. Thermal performance information shall be provided as specified in s. ILHR 63.12.

(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) *Data for recycling space.* Verifiable data or calculations and specifications shall be submitted in accordance with s. ILHR 52.24 for determining adequate space for the separation, temporary storage and collection of recyclable

Register, November, 1994, No. 467

materials, unless the space designated is based on the requirements identified in this code.

(dm) *Elevator and mechanical lift data.* Where an elevator, limited-access elevator, vertical wheelchair lift, inclined wheelchair lift, stairway chairlift or other mechanical lifting device is to be installed in a public building or place of employment, the following information shall be included on the building plans and submitted to the department for approval:

1. 'Elevator or limited-use elevator.' a. Size of the elevator cab or limited-use elevator cab;

Note 1: In new construction, ch. ILHR 18 requires the minimum clear platform size of an elevator to be 51 inches by 68 inches, with a minimum area not less than 24 square feet. Where elevators are provided in health care facilities, including medical clinics, and in all buildings over 3 stories in height, at least one elevator shall have the combination of car size and door opening which accommodates a 76 inch by 24 inch ambulance type stretcher in the horizontal position with no tilting at any time.

Note 2: In existing construction where an elevator is installed and the car size specified for new construction cannot be provided, ch. ILHR 18 will allow the minimum clear platform size to be not less than 36 inches wide by 54 inches in length, with a minimum area not less than 13.5 square feet. Information shall be submitted with the elevator plans justifying why the larger size elevator cannot be installed.

b. Size, rating and construction of the vertical shaft for the elevator or limited-use elevator;

c. Door clearances to the elevator or limited-use elevator;

d. The accessible route to the elevator or limited-use elevator; and

e. Maneuverability space at the elevator or limited-use elevator hoistway entrance doors.

Note: In accordance with ch. ILHR 18, a minimum maneuverability space of 5 feet by 5 feet with a minimum of 18 inches of clear space at the latch side of the door shall be provided when the hoistway doors are manually-opening and self-closing.

2. 'Vertical wheelchair lift.' a. Size of the platform of the vertical wheelchair lift;

b. Size and construction of the shaft for the vertical wheelchair lift, where applicable;

Note: In accordance with ch. ILHR 18, the net platform area shall not exceed 18 square feet with a minimum clear width of 32 inches and a minimum clear length of 54 inches.

c. Door clearances to the vertical wheelchair lift; and

Note: In accordance with ch. ILHR 18, a minimum maneuverability space of 5 feet by 5 feet with a minimum of 18 inches of clear space at the latch side of the door shall be provided when the hoistway doors are manually-opening and self-closing.

d. Accessible route to the vertical wheelchair lift.

3. 'Inclined wheelchair lift.' a. Size of the platform of the inclined wheelchair lift;

Note: In accordance with ch. ILHR 18, the net platform area shall not exceed 18 square feet with a minimum clear width of 32 inches and a minimum clear length of 54 inches.

b. Number of occupants in the building;

c. Location and width of all exits and stairways in the building;

d. Accessible route to the inclined wheelchair lift; and

e. Width of the stairway where the inclined wheelchair lift will be installed and verification that the installation of the lift in its operational position does not infringe into the required exit width.

4. 'Stairway chairlifts.' a. Size of the stairway chairlift;

b. Number of occupants in the building;

c. Location and width of all exits and stairways in the building;

d. Accessible route to the stairway chairlift; and

e. Width of the stairway where the stairway chairlift will be located and verification that the installation of the lift in its operational position does not infringe into the required exit width.

(e) *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. The department shall review and make a determination on an application for plan review within 15 business days of receipt of the application and all forms, fees, plans and documents required to complete the review as specified in s. ILHR 2.07 (3).

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

(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.

(6) **REVISIONS TO APPROVED PLANS.** (a) 1. All revisions and modifications, which involve provisions of this code, made to plans or specifications, which have previously been granted approval by the department, shall be submitted to the department for review.

2. All revisions and modifications to the plans shall be approved in writing by the department prior to the work involved in the revision or modification being carried out.

(b) A revision or modification to a plan, drawing or specification shall be signed and sealed in accordance with s. ILHR 50.07 (2), if applicable.

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; am. (5) (intro.), Register, January, 1985, No. 349, eff. 2-1-85; am. (1) (intro.) and (2) (intro.), Register, April, 1985, No. 352, eff. 5-1-85; am. (4) (a) 1., Register, August, 1985, No. 356, eff. 1-1-86; r. (2) (k), Register, December, 1985, No. 360, eff. 1-1-86; r. and recr. (1) (f), (i), (2) (c) and (f), am. (3) (intro.), (b) 1. and (4) (b), cr. (4) (a) 3. and 4. and (6), Register, March, 1991, No. 423, eff. 4-1-91; am. (1) (a) 1., cr. (1) (a) 2., Register, March, 1992, No. 435, eff. 4-1-92; am. (5), Register, June, 1992, No. 438, eff. 7-1-92; am. (3) (b) 1. and 2., renum. (4) (d) to be (e), cr. (4) (d), Register, October, 1992, No. 442, eff. 5-1-93; am. (1) (e), (i) 2. c., (3) (intro.) and (a), (4) (a) 2. b. and (b), Register, January, 1994, No. 457, eff. 2-1-94; cr. (4) (dm), Register, March, 1994, No. 459, eff. 4-1-94; renum. (3) (b) 1. to (3) (b) 1. a., cr. (3) (b) 1. b., 5., Register, November, 1994, No. 467, eff. 12-1-94.

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.

(b) Upon suspension or revocation of the approval, all insignias allocated to the manufacturer shall be returned

ILHR 50.125

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. (1) The department or its authorized representative, as provided in s. ILHR 50.21, may conditionally approve footing and foundation plans to permit construction of footings and foundations prior to the examination and approval of the complete plans upon submission of:

(a) A plan approval application form, SBD-118;

(b) At least 4 bound sets of footing and foundation plans which:

1. Include a plot plan; and
2. Are signed and sealed in accordance with s. ILHR 50.07 or 50.08, if applicable.

(c) At least one set of:

1. Schematic floor plans indicating the exits;
2. Building elevations;
3. Itemized structural loads; and
4. Structural footing and foundation calculations; and

(d) The fee as specified in ch. ILHR 2.

(2) The department shall review and make a determination on an application for footing and foundation approval within 15 business days of receipt of the application and all forms, fees, plans and documents required to complete the review.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77; am. Register, May, 1980, No. 293, eff. 6-1-80; am. Register, January, 1985, No. 349, eff. 2-1-85; am. Register, April, 1985, No. 352, eff. 5-1-85; r. and recr. register, March, 1991, No. 423, eff. 4-1-91; correction in (1) (d) made under s. 13.93 (2m) (b) 7, Stats., Register, June, 1993, No. 450.

ILHR 50.14 Permission to start construction. (1) The department or its authorized representative, as provided in s. ILHR 50.21, may issue a permission to start construction form for the footings and foundations upon submission of:

(a) A completed plan approval application form, SBD-118;

(b) 1. At least 4 bound sets of building plans and one copy of specifications; or

2. At least 4 bound sets of footing and foundation plans and the information specified in s. ILHR 50.13 (1).

(c) A written request by the owner to start construction, form SBD-198; and

(d) Fees as specified in ch. ILHR 2.

(2) The holders of the permission form shall proceed at their own risk without assurance that a conditional approval for the building will be granted.

(3) The department shall review and make a determination on an application for permission to start construction within 3 business days of receipt of the application and all forms, fees, plans and documents required to complete the review.

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, Register, November, 1994, No. 467

eff. 1-1-84; am. Register, January, 1985, No. 349, eff. 2-1-85; am. Register, April, 1985, No. 352, eff. 5-1-85; r. and recr. Register, March, 1991, No. 423, eff. 4-1-91; correction in (1) (d) made under s. 13.93 (2m) (b) 7, Stats., Register, June, 1993, No. 450.

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 50.155 Sprinkler documents. (1) **PLANS.** (a) 1. Except as provided in subd. 2, where automatic fire sprinkler systems are to be installed or altered, sprinkler plans and specifications shall be present at the job site and made available, upon request, to the department, its agent or local governmental agencies exercising jurisdiction.

2. a. When a project involves the alteration or addition of 20 or less sprinkler heads to an existing automatic fire sprinkler system, sprinkler plans and specifications shall not be required to be present at the job site or made available, unless required by local ordinance.

b. When sprinkler plans and specifications are not provided for a project involving the alteration or addition of 20 or less sprinkler heads to an existing automatic fire sprinkler system, the automatic fire sprinkler contractor responsible for the work shall provide a written description of the type and scope of the work. The description shall be included with the material and test certificate, if required. The description shall be made available, upon request, to the department, its agent or local governmental agencies exercising jurisdiction.

(b) The sprinkler plans at the installation site shall be:

1. Signed and sealed in accordance with s. A-E 2.02 by an architect, engineer or sprinkler designer who is registered by the department of regulation and licensing; or

2. Signed, including license number, and dated by an automatic fire sprinkler contractor who is responsible for the installation of the sprinklers and who is licensed by the department of industry, labor and human relations.

(c) Where automatic fire sprinkler plans are required by local ordinance to be reviewed and approved by a local governmental agency, the sprinkler plans at the installation site shall bear evidence of that approval.

(d) The plans for the automatic fire sprinkler system to be at the installation site shall include at least:

1. The name of the:

a. Owner of the building; and

b. Occupant or occupants in the building;

2. The location or address of the building;

3. A full height cross section through the building;