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(b) Skip hoists, belt manlifts, mine hoists, wharf ramps or apparatus in kindred classes, amusement devices, stage curtain hoists or lift bridges.

(c) Mechanical lifts serving only the floor level on which the lift is located.

(d) For regulations relative to the use of elevators, hoists, derricks and similar equipment during the period of construction of a building or any other structure, see Wis. Adm. Code, chapters Ind 35, Safety in Construction and Ind 44, Personnel Hoists.

(e) For belt manlift requirements, see Wis. Adm. Code, chapter Ind 1, Safety.

(f) For employment of minors under 18 years of age see Wis. Adm. Code, chapters Ind 70-73, Labor Standards.

**History:** Cr. Register, October, 1964, No. 106, eff. 11-1-64; r. and recr. Register, September, 1967, No. 141, eff. 10-1-67; am. (1) (a) and (c), Register, December, 1970, No. 180, eff. 1-1-71; am. (1) (b), (d), (e), and (f), Register, May, 1971, No. 185, eff. 6-1-71.

**Ind 4.04 Approval of plans.** (1) Every manufacturer, manufacturer's representative or distributor who furnishes elevator, power dumb-waiter, material handling elevator, moving, walk, moving ramp or escalator equipment, shall submit 3 complete plans (See subsection Ind 4.04 (3)) with 2 completed copies of Form SB-22 "Application for Erection or Remodeling" to the Department of Industry, Labor and Human Relations for any new installation or major alteration to existing equipment installations.

**Note:** Application Form SB-22 may be obtained from the Department of Industry, Labor and Human Relations, Division of Industrial Safety and Buildings, Post Office Box 2209, Madison, Wisconsin 53701.

(a) The submission of plans for installation of equipment described in subsection (1) shall be the responsibility of the building owner when the manufacturer, manufacturer's representative or distributor do not satisfy requirements of subsection (1).

(b) Minor alteration or remodeling of existing equipment installations requiring no plan submission, will require two completed copies of Form SB-22 to be submitted to the Department of Industry, Labor and Human Relations before commencing work.

(2) Plans for any new equipment installation or major alteration to existing equipment installations shall be approved before commencing work on installation of equipment.

(3) Complete plans shall include:

(a) Sectional plan of car and hoistway, showing all running clearances.

(b) Section through hoistway, machine room, pit and car showing all necessary applicable dimensions required by section Ind 4.18. All landings shall be clearly shown, indicating types of hoistway doors or gates used.

(c) Plan of machine and machine supports showing reaction loads, material and sizes of beams.

(e) The size and weight per foot of guide rails and details of their support, also their reinforcement where required.

(4) A plan examination fee in the amount established by Wis. Adm. Code section Ind 69.20 shall be paid for each installation requiring approval.

(5) Subsection (1) shall not apply in cities where permits are issued by the city in the manner approved by the Department of Industry, Labor and Human Relations.

**History:** Cr. Register, October, 1964, No. 106, eff. 11-1-64; r. and recr., Register, October, 1970, No. 178, eff. 11-1-70.

**Ind 4.05 Tests and inspections; new installations.** (1) Every elevator, power dumbwaiter, material handling elevator, moving walk or moving ramp, or escalator shall be tested and inspected in conformance with the code requirements by a representative of the industrial commission before the installation is placed in service.

(a) The party installing such an installation shall give notice to the industrial commission not less than 10 days prior to the time the installation is complete and ready for inspection.

(b) A representative of the elevator company shall be present during the final inspection of each installation.

**History:** Cr. Register, October, 1964, No. 106, eff. 11-1-64; renum. from Ind 4.08 to be Ind 4.05, Register, October, 1970, No. 178, eff. 11-1-70.

**Ind 4.06 Inspection fee.** A charge in accordance with the fee schedule established by Wisconsin Adm. Code, chapter 69, Fee Schedule, will be made by the department of industry, labor and human relations of each inspection of each elevator, power dumbwaiter, material handling elevator, moving walk or moving ramp, or escalator.

**History:** Cr. Register, October, 1964, No. 106, eff. 11-1-64; renum. from Ind 4.07 to be Ind 4.06, Register, October, 1970, No. 178, eff. 11-1-70; am. Register, December, 1970, No. 180, eff. 1-1-71.

**Ind 4.07 Registration numbers.** (1) All new elevators, dumbwaiters, escalators, moving walks and ramps shall be assigned a unit number.

(2) The registration number shall be located as follows:

(a) For elevators—on the car crosshead.

(b) For dumbwaiters—in or on dumbwaiter car structure.

(c) For escalators, moving walks or ramps—in the machine room at a location easily recognized from access opening.

(3) The registration number shall be on a metal plate, which shall include state of Wisconsin identification.

(4) All existing elevators, dumbwaiters, escalators, moving walks or ramps shall retain unit number previously assigned and in existing locations.

**History:** Cr. Register, October, 1970, No. 178, eff. 11-1-70.

**Ind 4.08 Inspection by cities.** In any city which provides a competent inspector, the department of industry, labor and human relations will accept inspections by such city, provided the conditions of subsections Ind 4.09 (2) (a), (b), (c), (d) and (e) are complied with, substituting "city" for "insurance company".

**History:** Cr. Register, October, 1964, No. 106, eff. 11-1-64; renum. from Ind 4.06 to be Ind 4.08, Register, October, 1970, No. 178, eff. 11-1-70; am. Register, December, 1970, No. 180, eff. 1-1-71.

**Ind 4.09 Inspections.** (1) **INTERVAL.** Every elevator, power dumbwaiter, material handling elevator, moving walk or moving ramp, or escalator operated in the state of Wisconsin shall be subjected to a regular inspection once every 12 months.

(2) **INSPECTION BY INSURANCE COMPANIES.** The industrial commission may accept inspections of elevators, power dumbwaiters, material

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handling elevators, moving walks or moving ramps, and escalators reported by certified inspectors subject to the following conditions:

(a) Each installation shall be inspected at least once every 12 months.

(b) A detailed report of each unit inspected shall be filed with the commission within 14 days after inspection on a printed form approved by the commission. Such report shall show all respects in which the installation fails to comply with the code requirements.

(c) A certificate of inspection on a form approved by the commission shall be posted by the insurance company in a conspicuous place in the elevator car, dumbwaiter cage, material handling elevator, moving walk or moving ramp, or escalator, as the case may be, and shall show the date of inspection, name of insurance company, name of inspector, and rated capacity.

(d) The insurance company shall use all reasonable diligence to secure compliance with the commission's rules. If unsuccessful, it shall so report to the department. If it then becomes necessary for the department to make an inspection, the statutory fee for each unit inspected will be charged. (See section Ind 4.06.)

(e) The competency of each elevator inspector shall be certified by each insurance company to the commission in writing prior to making inspections. Insurance company inspectors will be approved by the commission only after the receipt of acceptable evidence of competency and a satisfactory examination has been passed consisting of written tests.

1. Evidence of approval noted under subsection (2) (e) shall be confirmed on form SB-12 "Certificate of Competency Elevator Inspector" issued by the department to qualified inspectors after their competency has been examined and approved.

(3) A certificate for operation will be issued by the department of industry, labor and human relations upon finding said equipment meeting the applicable safety standards covered in this code.

(a) Certificates shall be effective for one year following the date of issuance.

(4) The department may revoke the certificate for operation if said equipment is found to be in non-compliance with the applicable safety rules.

(5) Whenever the department under the authority of subsection (4) revokes a certificate, the department shall immediately notify the owner, defined in section 101.01 (13), Wis. Stats., of the equipment in writing and shall afford him an opportunity for a hearing within 30 days time after revocation of certificate.

**History:** Cr. Register, October, 1964, No. 106, eff. 11-1-64; renum. from Ind 4.05 to be Ind 4.09, Register, October, 1970, No. 178, eff. 11-1-70; am. (2) (d), cr. (3), (4) and (5), Register, December, 1970, No. 180, eff. 1-1-71; am. (2) (d) and recr. (2) (e) 1., Register, May, 1971, No. 185, eff. 6-1-71.

**Ind 4.10 Hoistway enclosures. (1) EXISTING INSTALLATIONS.** (a) The hoistway of every existing passenger or freight elevator or power dumbwaiter where the travel does not exceed 2 stories, and where a fire-resistive enclosure is not required, shall be solidly enclosed with

wood or metal to not less than 6 feet in height, and shall withstand a horizontal force of 100 pounds with not more than 1 inch deflection at any point.

(2) NEW INSTALLATIONS. (a) The hoistway of every passenger elevator shall comply with the requirements as described in this subsection.

1. The hoistway enclosure in buildings of ordinary or frame construction shall be not less than 1-hour, fire-resistive construction. (See subsection (2) (c) and (d) and Wis. Adm. Code section Ind 4.31 for hoistway landing doors.)

2. The hoistway, regardless of travel in buildings of fire-resistive or mill construction, shall be enclosed with not less than 2-hour, fire-resistive construction. (See Wis. Adm. Code section Ind 4.31 for hoistway landing doors.)

(b) The hoistway of every freight elevator or power dumbwaiter shall comply with the requirements as described in this subsection.

1. The hoistway in buildings of ordinary or frame construction, where the travel does not exceed 2 stories, shall be solidly enclosed with wood or metal and shall withstand a horizontal force of 100 pounds with not more than 1 inch deflection at any point. (See subsection (2) (d).)

2. The hoistway in buildings of ordinary or frame construction 3 stories or more in height, shall be enclosed with not less than 1-hour, fire-resistive construction. (See Wis. Adm. Code sections Ind 4.38 and 4.79 for hoistway landing doors.)

3. The hoistway regardless of travel in buildings of fire-resistive or mill construction shall be enclosed with not less than 2-hour, fire-resistive construction. (See Wis. Adm. Code sections Ind 4.38 and 4.79 for hoistway landing doors.)

a. *Exception.* 1. An elevator or power dumbwaiter hoistway which is placed in a fire-resistive stair enclosure, need not have an additional fire-resistive enclosure, but the hoistway shall be solidly guarded above each floor and every stairway with incombustible material and shall withstand a horizontal force of 100 pounds with not more than 1 inch deflection at any point.

b. *Exception.* 2. Elevators installed in power plants or similar buildings where landings consist of grille work, perforated metal or catwalks, the hoistway may be enclosed to a height of not less than 7 feet above each landing, provided the space in front of each car entrance opening shall be enclosed with a solid guard the full height of the hoistway. This guard shall be in a plane not more than 7 inches from the edge of the car.

(c) Where a passenger or freight elevator or power dumbwaiter is installed in a building which includes a *theatre or assembly* hall the hoistway enclosure shall be not less than 2-hour, fire-resistive construction. (See Wis. Adm. Code sections Ind 4.31, 4.38 and 4.79 for hoistway landing doors.)

(d) Where a passenger or freight elevator or power dumbwaiter is installed in an *apartment building, hotel, dormitory, convent, monastery, hospital, nursing home, or place of detention*, the hoistway shall comply with the requirements described in this subsection.