

ORDER OF THE INDUSTRIAL COMMISSION

Pursuant to authority vested in the Industrial Commission by section 101.01 to 101.29 Wis. Stats., the Industrial Commission hereby creates and adopts rules as follows:

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Amendments and Revisions
to
Wisconsin Administrative Code
Chapter 4 Elevator

Ind 4.001 (25) Repeal Introductory Paragraph only and recreate to read:

Elevator. A hoisting and lowering mechanism located in a permanent hoistway, equipped with a car or platform which moves in guides in a substantially vertical direction and the travel exceeds 56 inches.

Ind 4.001 (25) (n) Repeal and recreate to read:

Material-handling elevators. A type of elevator used exclusively for handling materials as part of a material distribution system and utilizing automatic or semi-automatic means for loading or unloading.

Ind 4.001 (25) (p) Create to read:

Machine Room. The machine room is that room or enclosed portion of an area of a building intended and used for the elevator and/or dumbwaiter equipment only.

Ind 4.001 (27) (b) Repeal and recreate to read:

Any part of an existing installation that is replaced shall comply with the applicable provision of this code.

Ind 4.03 Repeal and recreate to read:

Exemptions. (1) This code does not apply to the following.

- (a) Belt, bucket, scoop, roller or similar inclined or vertical freight conveyors, portable tiering or piling machines when not serving more than the floor on which the tiering or piling machine is located.
- (b) Skip hoists, belt manlifts, mine hoists, wharf ramps or apparatus in kindred classes, amusement devices, stage curtain hoists or lift bridges, nor to elevators with a travel less than 56 inches.
- (c) Mechanical lifts inclined not greater than 62-1/2 degrees with the horizontal and serving not more than one story and a maximum vertical rise of 14 feet.
- (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 section Ind 35.28 to 35.31 inclusive of the general orders on Safety in Construction and Ind 44.01 to 44.37 inclusive, Personnel Hoists, issued by the Industrial Commission.

- (e) For belt manlift requirements, see Wis. Adm. Code, Section Ind 1.69, Safety Code.
- (f) For employment of minors under 18 years of age see Wis. Adm. Code, section Ind 70.09 (1), Wages and Hours Code.

Ind 4.10 (2)(e) Repeal and recreate to read:

Windows and ventilator openings shall be prohibited in elevator hoistway walls.

Ind 4.16 (2); (a); (b) & (c) Repeal and recreate to read:

For every automatic-operation elevator the distance from the hoistway face of the door or gate to the edge of the hoistway sill, measured from the face of the door or gate nearest the car shall be not more than the following:

- (a) Swinging doors, 1 inch.
 - 1. Exception: On freight elevators where double swing doors are used with locks and contacts or interlocks, 4 inches is permitted, providing section Ind 4.16 (2)(d) is complied with.
- (b) Vertical or horizontal sliding doors, 2-1/4 inches.
- (c) Gates, 4 inches.

Ind 4.20 (1) Introductory paragraph only. Repeal and recreate to read.

Wires, cables, pipes or conductor enclosures shall not be installed in any hoistway nor machine room immediately offset and an integral part of the hoistway, except those needed to serve the elevator or dumbwaiter equipment, including wiring for heating, ventilating, lighting the car or hoistway and wiring for communication with the car.

Ind 4.20 (4) Repeal and recreate to read:

There shall only be elevator and/or dumbwaiter equipment located in the machine room.

- (a) Adjoining areas connected with the machine room shall be separated by the following method:
 - 1. A fixed partition not less than 6 feet in height located not less than 3 feet from elevator equipment.
 - 2. On new installations, wires, cables, pipes or conductor enclosures above the machine room area shall be separated

from the machine room area by a fixed unpierced ceiling whose height shall satisfy installation of elevator equipment but in no case be less than 7 feet above the machine room floor.

3. On new installations hazardous piping such as noxious gases, water or steam lines with pressures exceeding 15 pounds per sq. in. shall be isolated from the machine room area by the following means:
 - a. Unpierced walls, ceiling and entrance door construction.
 - b. Ceiling height shall satisfy installation of elevator equipment but in no case be less than 7 ft. above the machine room floor.
 - c. Entrance door sill shall be no less than 6 inches above machine room floor.

Ind 4.21 (4) Repeal and recreate to read.

A floor or metal grating shall be provided below all overhead sheaves and/or governors and shall cover the full area of the hoistway and shall conform with the requirements outlined in this subsection.

- (a) Exception: A floor or grating is not required where the governor and sheaves can be serviced from the top of the car and the governor is of a type that can be released in the up direction.
- (b) The headroom or working space shall be not less than 4 feet in height.
- (c) Access to the sheaves and/or governor from the roof shall be by means of a hinged door with latch; this door shall be not less than 20 inches by 24 inches.
 1. Where the access is 4 feet or more above the roof a stairway-type ladder shall be provided to the access door.

Ind 4.27 (9) (d) Repeal and recreate to read:

Platform stringers for passenger elevators shall be of steel or other metals or of wood. Where wood is used the underside exposed wood surfaces shall be covered with not less than No. 26 U. S. gauge metal, or by painting with an approved fire retardant paint having a flame spread rating of not over (50) applied in accordance with the instructions of the manufacturer.

Ind 4.28 (6) (a) 1. Repeal and recreate to read:

The exit cover of every elevator hereafter installed shall

open upward and shall be hinged or may be arranged to slide horizontally in guides fastened to the car top, and arranged to be opened from the top of the car only.

Ind 4.35 (1)(c) Repeal and recreate to read:

At each entrance of every continuous pressure or car switch operation elevator where the contract speed is in excess of 50 feet per minute.

1. Exception: Elevators having regular operators and operated from the car only.

Ind 4.60 (1)(h) Create to read:

Floorless Elevators and Dumbwaiters. Elevators and dumbwaiters without platforms are prohibited.

Ind 4.60 (2)(j) Repeal and recreate to read:

Hand power operated elevators shall be limited to one story of travel, and not to exceed 14 feet.

Ind 4.61 Repeal and recreate to read:

Winding drum machines. (1) Winding drum machines shall be used for freight elevators only; shall not have counterweights; and shall be limited to a capacity not to exceed 2,500 pounds. The speed shall not exceed 50 feet per minute and the travel not to exceed 35 feet.

- (2) Exception: Material handling elevators.

Ind 4.65 (7)(a) Create to read:

Where rope is used it shall be of the hawser laid type.

Ind 4.72 (1)(b) 2. Create to read:

Exception: Electrically operated hydraulic elevators.

Ind 4.83 is created to read:

MATERIAL HANDLING ELEVATORS

Ind 4.83 Special Requirements. (1) Every material handling elevator shall comply with the requirements as applied to freight elevators including hoistway enclosures, except as follows:

- (a) Material handling elevators shall be controlled from the landings only.
- (b) Emergency Stop buttons shall be provided at each landing to render the control system inoperative for the elevator and conveyor.

- (c) Key operated lock-out of service and start switch shall be located on the control station.
 - (d) No persons shall ride the elevator except for maintenance.
 - (e) Where conveyor systems are permanently located at the hoistway entrances, hoistway landing gates and car gates are not required when the following requirements are complied with.
 - 1. Guards shall be provided on each side of conveyor systems, at each landing, parallel to the conveyor.
 - 2. The clearance between the guards and the conveyor system shall be not greater than 6 inches.
 - 3. Guards shall be not less than 7 feet in height.
 - 4. Guards shall extend not less than 4 feet from the hoistway entrance.
 - 5. Guards shall be made of solid or expanded metal, rejecting a ball 1-1/2 inches in diameter.
 - (f) Means shall be provided at the entrances to the hoistway to prevent materials from entering the hoistway when the elevator is away from the landing.
- (2)(a) Where power operation of hoistway landing doors are provided they shall comply with the requirements as outlined in section Ind 4.39 (2) except that the doors are permitted to close automatically.
- 1. Means shall be provided to prevent the closing of the hoistway doors when material is within the door area.

Ind 4.85 (1)(a) 1. Create to read:

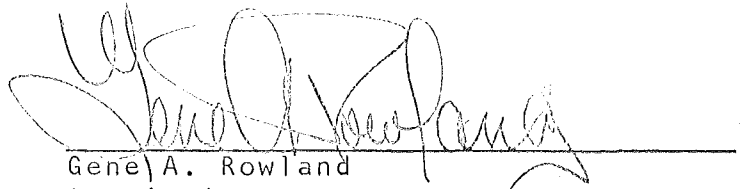
The anti-creep device shall maintain the car within (3) inches of the landing regardless of the position of the hoistway door or gate.

Ind 4.85 (3)(c) Repeal and recreate to read:

A drip ring or reservoir shall be provided at the packing gland of the cylinder on every elevator to collect the oil leakage. Collected oil shall be returned to the reservoir automatically.

The rules as created shall become effective on the first day of the month following publication in the Wisconsin Administrative Code as provided in Section 227.

INDUSTRIAL COMMISSION OF WISCONSIN



Gene A. Rowland
Commissioner

July 25, 1967