

524: BOARD OF ELEVATOR REGULATIONS

524 CMR 15.00: ELEVATOR, DUMBWAITER, ESCALATOR AND MOVING WALK: GENERAL

Section

15.01: Elevator, Dumbwaiter, Escalator and Moving Walk Regulations: General

15.02: Age Requirement

15.03: Increase in Dead Weight

15.01: Elevator, Dumbwaiter, Escalator, and Moving Walk Regulations: General

(1) Pursuant to the provisions of M.G.L. c. 143, § 69, the Board of Elevator Regulations herewith amends existing regulations 524 CMR 1.00 through 35.00 for the construction of elevators, dumbwaiters, moving stairways (escalators), moving walks and other special hoisting equipment included therein.

(2) 524 CMR 1.00, 3.00, 7.00, 8.00, 9.00 (in part and by reference 17.00), 26.00, 27.00, 29.00, 31.00, and 35.00 shall be applicable to a new installation, a relocation, or a material change for which plans and specifications are submitted for approval on or after January 1, 1998, and subsequent amendments as published in the *Massachusetts Register*.

All plans for elevator installations, relocation, or material change shall be signed by a registered architect or a registered professional engineer and shall bear his registering stamp certifying that he has examined the plans and finds that the building structure will comply with the contract load plus its tare as they are shown on the elevator drawing. The architect or engineer shall not be responsible for any material on the elevator drawing. The complete installation shall comply with Massachusetts Elevator Code at the time of filing.

The following shall be considered material changes:

- (a) If the speed of the elevator is increased.
- (b) If the capacity of an existing elevator is increased.
- (c) If the travel of an existing elevator is extended.
- (d) If the machine room of an existing elevator is relocated; or
- (e) If the classification of an elevator is changed from freight to passenger.

NOTE: The date such plans are approved by the Commonwealth of Massachusetts Department of Public Safety, Elevator Division shall be considered the date of installation, relocation, or material change for that equipment.

(3) Any change from DC (direct current) to AC (alternating current) or any change in voltage shall not be considered a material change, provided that the speed or capacity of the installation is not increased.

Any complete part of an existing installation which is replaced, such as a machine, car, hoistway enclosure, gates, doors door locking devices, controller, operating devices, load weighing devices, *etc.*, shall be installed in accordance with the regulations for new installations; but such existing parts as remain in service (and which are properly maintained in accordance with regulations at the time of installation, relocation, or material change) need not be changed to conform with the regulations for new installations.

EXCEPTION: Existing Parts of elevators, dumbwaiters and escalators (moving stairways) that were installed in accordance with regulations prior to March 9, 1950 shall be maintained as a minimum in conformity with the applicable provisions of ELV-2, Elevator, Dumbwaiter, and Escalator Regulations, Part 1.00 through 34.00, as of March 9, 1950. If the installation was originally installed after that date, any existing parts remaining shall meet the requirements of ELV-2 or 524 CMR in effect at the time of installation.

15.02: Age Requirement

No person under the age of 18 shall be allowed to work on or operate any elevator equipment covered under 524 CMR.

15.03: Increase in Dead Weight

Where alterations, additions or changes to an elevator installed prior to March 9, 1950 result in an increase in the dead weight of the car and/or counterweight, they shall conform to the requirements of 524 CMR 1.00 through 17.00, governing the following:

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15.03: continued

- (1) Machine beams, sheave beams, supporting beams, supports and foundations, ropes, suspension rope hitch supporting beams, hoist and counterweight ropes and governor connections.
- (2) Car and counterweight guide rails.
- (3) Car and counterweight buffers.
- (4) Car frames, platforms, car safeties, counterweight safeties, if any, speed governors.
- (5) When an elevator carries or is loaded or unloaded by an industrial power truck other than a hand truck, it shall comply with 524 CMR 17.15(3).

Repairs and replacement of damaged, broken or worn parts necessary for the safe operation of the equipment installed prior to March 9, 1950 shall unless otherwise prohibited herein, be made with parts of equivalent material, strength and design.

Broken or damaged parts subject to tension, torsion or bending, or parts on which the support of the elevator car depends shall not be repaired by welding.

REGULATORY AUTHORITY

524 CMR 15.00: M.G.L. c. 143, § 69.