

SECTION RBC310 - ELEVATOR AND ESCALATOR SAFETY CODE

RBC310.1 SHORT TITLE. This section will be known and cited as the Elevator and Escalator Safety Code.

RBC310.2 SCOPE. The Elevator and Escalator Safety Code shall regulate the design, construction, installation, operation, inspection, testing, maintenance, alteration, and repair of new and existing elevators, dumbwaiters, escalators, moving walks, material lifts, and dumbwaiters with automatic transfer devices.

RBC310.3 CODES ADOPTED BY REFERENCE. There is hereby adopted by reference the Safety Code for Elevators and Escalators, ASME A17.1 2007, including Table N-1 of Appendix N and all supplements thereto; the Safety Code for Existing Elevators and Escalators, ASME A17.3 2005 and all supplements thereto, and the ASMEA18.1 2005 Safety Standard for Platform Lifts and Stairway Chairlifts of the American Society of Mechanical Engineers, United Engineering Center, Three Park Avenue, New York, New York, 10016-5990. Three copies of these Codes are now filed in the office of the Regional Building Official and may be inspected during regular business hours. The above Codes are being adopted as if set out at length.

RBC310.4 ADDITIONS AND MODIFICATIONS. The adopted Codes are subject to the following additions and modifications:

RBC310.3.1 ASME A17.1 2007, Section 2.2.2.5. A sump pump is not required to be installed in the hoistway pit of a Hydraulic Elevator if:

- (a) The total travel of the elevator is less than 25 feet; and
- (b) The hoistway pit is less than 67 inches deep.

RBC310.4.1 ASME A17.1 2007, Section 5.8. Shipboard Elevators. Delete.

RBC310.4.2 ASME A17.1 2007, Section 5.9. Mine Elevators. Delete.

RBC310.4.3 ASME A17.1 2007, Section 5.10. Elevators Used for Construction. Delete.

RBC310.4.4 ASME A17.1 2007, Section 8.11.1.1.2. Periodic Tests.

Delete subsection (a) and replaced with the following:

(a) The tests referred to as Category 1 and Category 5 in Table N-1, of Appendix N, of ASME A17.1 2007 and A18.1 2005, shall be performed by a conveyance contractor on all existing conveyances at frequencies no greater than 1 year for Category 1 and 5 years for Category 5. A conveyance Inspector shall witness the performance of the following test: Category 1 test for (1) Elevator (2) Platform Lift (3) Personnel Hoist and

(4) Dumbwaiter at least every 5 years.

Delete subsection (b) and replace with the following:

(b) The owner or the owners authorized agent shall have all of the tests required by Sections 8.11.2, 8.11.3, 8.11.4, and 8.11.5 conducted by a licensed elevator contractor. A written document shall be provided to the Building Department within thirty (30) calendar days with the results of such tests.

Exception: Escalators and Moving Walks shall have the Category 1 Periodic Test as per Appendix N, Table N-1, witnessed by the Building Department or its authorized agent.

RBC310.4.5 ASME A17.1 2007, Section 8.11.1.3. Periodic Inspection and Test Frequency.

The frequency of periodic inspections and tests shall be in accordance with Appendix N, Table N-1.

RBC310.4.6 ASME A17.1 2007, Section 8.6.5.15. Periodic Test Requirements: Category 3. Delete.

RBC310.4.7 ASME A17.1 2007, Section 8.11.5.8. Delete.

RBC310.4.8 ASME A17.1 2007, Section 8.11.5.13. Delete.

RBC310.4.9 ASME A17.1 2007, Appendix N Table N-1. Delete the following items from the Table:

8.11.5.2. Private Residence Elevators.

8.11.5.8. Shipboard Elevators.

8.11.5.13. Elevators Used for Construction.

RBC310.4.10 ASME A17.3 2005, Section 1.2. Application of Code: Add the following exceptions after the second paragraph:

Exceptions:

(1) All conveyances prior to July 1, 2008, are exempt from complying with ASME A17.3 2005, unless the following conditions exist:

- (a) Substantial Alteration of a conveyance; or
- (b) An elevator presents a Material Risk. A risk to public safety as determined by the Authority Having Jurisdiction.

(2) Material Risk related to Firefighters' Service is not present except if any of the following conditions exist:

- (a) The elevator complies with ASME A17.1 2007, rules 211.1 and 211.3; or
- (b) The elevator travels less than 75 feet above or below the emergency personnel access; or
- (c) The building is equipped with an automatic sprinkling system according to the National Fire Protection Association 13. Any

elevator that does not meet any of the conditions listed above must comply with the Firefighters' Service requirements as described in the currently adopted version of ASME A17.1 2007, by January 1, 2015.

(3) Door Restrictors.

(a) Door Restrictors shall be installed and operational by January 1, 2012, on all elevators installed on or after January 1, 1990, and before January 1, 2008;

(b) Door Restrictors shall be installed and operational prior to the next issuance of the Certificate of Operation on all elevators installed on or after January 1, 2008;

(c) Upon review of additional information, the Authority Having Jurisdiction may determine whether Door Restrictors shall be required on any elevator installed prior to January 1, 1990.

(4) A Hydraulic Elevator that has a hydraulic cylinder buried in the ground and is not provided with a safety bulkhead, will be allowed to continue operation after January 1, 2012, if the conveyance owner completes one of the following actions in conformance with ASME A17.3 2005:

(a) The hydraulic cylinder shall be provided with a safety bulkhead in accordance with ASME A17.1 2007, Section 4.3.3; or

(b) The elevator shall be provided with car safeties conforming to ASME A17.1 2007, Section 3.17.1, and guide rails, guide rail supports, and fastenings conforming to ASME A17.1 2007, Section 3.23.1; or

(c) The elevator shall be provided with a plunger gripper that shall grip the plunger when the applicable maximum governor tripping speed is achieved per ASME A17.1 2007, Section 3.17.3.

RBC310.4.11 ASME A17.3 2005, Section 1.4.

Definitions. Add the following definitions:

Material Risk. A risk to public safety as determined by the Authority Having Jurisdiction.

Substantial Alteration. An alteration that includes:

- (a) The change in type of service of an elevator;
or
- (b) The change in type of operation control or motion control on an elevator; or
- (c) The replacement of a controller in conjunction with another alteration on an electric elevator.