

**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; the Safety Code for Existing Elevators and Escalators, ASME A17.3; the Safety Standard for Platform Lifts and Stairway Chairlifts, ASME A18.1; the Standard for Elevator Suspension, Compensation and Governor Systems, ASME A17.6 of the American Society of Mechanical Engineers, Three Park Avenue, New York, New York, 10016-5990, current editions within twelve (12) months after adoption by the State of Colorado Department of Labor and Employment, Division of Oil and Public Safety, 633 17th Street, Suite 500 Denver Colorado, 80202 along with all revisions, modifications and exceptions thereto appearing in 7 CCR 1101-8. 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 in their entirety.

See Appendix D of this code for additional modifications to Section 310.3 of the Pikes Peak Regional Building Code, 2017 Edition, by the City of Colorado Springs.

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

**RBC310.4.1 ASME A17.1, Section 5.8 SHIPBOARD ELEVATORS.** Delete.

**RBC310.4.2 ASME A17.1, Section 5.9 MINE ELEVATORS.** Delete.

**RBC310.4.3 ASME A17.1, Section 5.10 ELEVATORS USED FOR CONSTRUCTION.** Delete.

**RBC310.4.4 ASME A17.1, Section 8.6.5.15 Periodic Test Requirements: Category 3.** Delete.

**RBC310.4.5 ASME A17.1, Section 8.11.1.1.2 Periodic Tests.** Delete subsection (a) and replace with Table 2-3-2 from the Colorado Conveyance Regulations, 7 CCR 1101-8:

**Table 2-3-2: Frequency of Periodic Tests**

Conveyance Type	Category 1 (One Year)		Category 5 (Five Year)	
	(One Year)	(One Year)	(One Year)	(One Year)
	Perform	Witness	Perform	Witness
Traction Elevator	Annually	5 years	5 years	5 years
Hydraulic Elevators	Annually	5 years	5 years <sup>1</sup>	5 years <sup>1</sup>
Other Elevators <sup>2</sup>	Annually	5 years	5 years	5 years
Dumbwaiters	5 years	Not Required	Not Required	Not Required
Escalators & Moving Walks	Annually	Annually	Not Required	Not Required
Indoor Platform Lifts	5 years	5 years	5 years	5 years
Outdoor Platform Lifts	3 years	6 years	3 years	6 years
Private Residence Elevators installed in commercial buildings <sup>3</sup>	5 years	5 years	5 years	5 years

<sup>1</sup> A category 5 test is only required to be conducted and witnessed on a hydraulic elevator if the elevator is equipped with safeties, a plunger gripper, a governor, an oil buffer, or an over-speed valve.

<sup>2</sup>Includes roped-hydraulic elevators and Limited-Use/Limited-Application (LU/LA) elevators.

<sup>3</sup>Private Residence Elevators shall not be installed in commercial buildings after January 1, 2008, per section 2-4-2(5) of 7 CCR 1101-8. For requirements of approved installations, refer to section 2-7(5) of 7-CCR 1101-8.

**RBC310.4.6 ASME A17.1, Section 8.11.1.1.2 Periodic Tests. Subsection (a).** Delete the exception

**RBC310.4.7 ASME A17.1, Section 8.11.1.3  
Periodic Inspection and Test Frequency.**

The frequency of periodic inspections and tests shall be in accordance with 7-CCR 1101-8.

**RBC310.4.8 ASME A17.3, 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, 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 firefighter service is not present except if any of the following conditions exist:
  - (a) The elevator complies with ASME A17.1, 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 throughout with an automatic sprinkler system in accordance with NFPA 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, 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 A17.3-2008:

- (a) The hydraulic cylinder shall be provided with a safety bulkhead in accordance with ASME A17.1; or
- (b) The elevator shall be provided with car safeties conforming to ASME A17.1, Section 3.17.1, and guide rails, guide rail supports, and fastenings conforming to ASME A17.1, 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, Section 3.17.3.

**RBC310.4.9 ASME A17.3, 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 installation of a controller.

**RBC306.2** Delete and replace with the following:

**RBC306.2 CODE ADOPTED BY REFERENCE.** There is hereby adopted by reference the Colorado Plumbing Code adopted by the Department of Regulatory Agencies, Division of Professions and Occupations, Colorado State Plumbing Board, 1560 Broadway, Suite 1350, Denver Colorado, 80202, along with all revisions, modifications and exceptions thereto made by such board, appearing at 3 CCR 720, adopted February 14, 2016 and effective February 14, 2017. Three copies of the Code are now filed in the office of the Office of the City Clerk and in the Office of the Regional Building Official and may be inspected during regular business hours. The code is being adopted in its entirety.

**RBC307.2** Delete and replace with the following:

**RBC307.2 CODE ADOPTED BY REFERENCE.** There is hereby adopted by reference the Colorado Electrical Code adopted by the Department of Regulatory Agencies, Division of Professions and Occupations, Colorado State Plumbing Board, 1560 Broadway, Suite 1350, Denver Colorado, 80202, along with all revisions, modifications and exceptions thereto made by such board, appearing at 3 CCR 720, adopted July 1, 2014, and effective July 1, 2015. Three copies of the Code are now filed in the office of the Office of the City Clerk and in the Office of the Regional Building Official and may be inspected during regular business hours. The code is being adopted in its entirety.

**RBC310.3** Delete and replace with the following:

**RBC310.3 CODES ADOPTED BY REFERENCE.** There is hereby adopted by reference the Safety Code for Elevators and Escalators, ASME A17.1, 2013; the Safety Code for Existing Elevators and Escalators, ASME A17.3, 2005; the Safety Standard for Platform Lifts and Stairway Chairlifts, ASME A18.1, 2011; the Standard for Elevator Suspension, Compensation and Governor Systems, ASME A17.6, 2010 of the American Society of Mechanical Engineers, Three Park Avenue, New York, New York, 10016-5990, adopted by the State of Colorado Department of Labor and Employment, Division of Oil and Public Safety, 633 17<sup>th</sup> Street, Suite 500 Denver Colorado, 80202 along with all revisions, modifications and exceptions thereto appearing in 7 CCR 1101-8, and effective April 1<sup>st</sup>, 2017. 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 in their entirety.

**RBC313.6** Add the following definition:

**APPEAL.** A request for a review of the Floodplain Administrator's decision or interpretation of any provision of this section, or for a review of the Drainage Board's decision on appeal, grant of relief or interpretation of any of the provisions of this part.

**RBC313.17.1** Delete and replace with the following:

**RBC313.17.1 Appeals.**

1. As established by the City, Drainage Board shall hear and decide appeals of decisions of the Floodplain Administrator (FPA) when it is alleged there is an error in any requirement, decision or determination made by the FPA in the enforcement or administration of this section.
2. Any person aggrieved by a decision of the FPA may appeal to Drainage Board, provided a written notice of appeal, stating the grounds for appeal, is filed with the City Engineer within thirty (30) days of the date of the FPA's decision. Drainage Board shall hear the appeal at the next available meeting, but not less than fourteen (14) days after receipt of the notice of appeal.
3. Drainage Board shall conduct a public hearing on the appeal and shall consider the factors set forth in section 5, below. At the conclusion of the hearing, Drainage Board shall make appropriate findings and determine whether the FPA's decision shall stand, be overturned or modified. Unless appealed to City Council, the Board's decision shall be considered final agency action for all purposes under Colorado law.
4. Those aggrieved by the decision of the Drainage Board may appeal the decision to City Council, provided that a notice of appeal, stating the grounds for appeal, is filed with the City Clerk within ten (10) days of the date of Drainage Board's decision. The City Clerk, upon receiving a perfected appeal, shall forward the record of the Drainage Board to City Council, and the matter shall be set for a public hearing at the next available City Council meeting. City Council may hear the appeal *de novo* or may