

NOTICE OF ADOPTION OF RULE

NOTICE IS HEREBY GIVEN, pursuant to the authority vested in the Commissioner of the Department of Buildings by Section 643 of the New York City Charter and in accordance with Section 1043 of the Charter, that the Department of Buildings hereby adopts the amendments to Subchapter K of Chapter 3600 of Title 1 of the Official Compilation of the Rules of the City of New York, regarding capacity and loading of elevators.

This rule was first published on April 19, 2018 and a public hearing thereon was held on May 21, 2018.

Dated:

8.21.18

New York, New York



Rick D. Chandler, P.E.
Commissioner

Statement of Basis and Purpose of Rule

The purpose of these rule amendments is to update requirements for the posting of information about elevator carrying capacity, and the detection and regulation of overloaded elevators.

The rule:

- adds a new requirement regarding posting of the number of persons permitted on a passenger elevator at one time;
- adds a new requirement that the weight required for a balanced load be indicated on the data plate; and
- adds a new rule regarding detection of overload on passenger and freight elevators.

The rule adds a new section 3610-05 to Title 1 of the RCNY to update the provisions of section 2.16 of American Society of Mechanical Engineers ("ASME") standard A17.1-2000, and to add requirements for the information provided on plates. Further, the rule adds language regarding detection of overload on passenger and freight elevators in order to improve public safety.

The Department of Buildings' authority for this rule is found in sections 643 and 1043 of the New York City Charter and section 28-103.19 of the New York City Administrative Code.

New material is underlined.

[Deleted material is in brackets.]

"Shall" and "must" denote mandatory requirements and may be used interchangeably in the rules of this department, unless otherwise specified or unless the context clearly indicates otherwise.

Subchapter K of Chapter 3600 of Title 1 of the Rules of the City of New York is amended by adding a new Section 3610-05, to read as follows:

§ 3610-05 Capacity and loading.

(a) New and altered elevator devices must comply with the requirements of this rule.

(b) Pursuant to Section 28-103.19 of the New York City Administrative Code, Sections 1.3 and 2.16 of American Society of Mechanical Engineers A17.1-2000, with supplements A17.1a-2002 and A17.1b-2003, as modified by Chapter K1 of Appendix K of the New York City Building Code, are amended to read as follows:

SECTION 1.3 **DEFINITIONS**

1.3 Add a new definition of "balanced load" as follows:

BALANCED LOAD. The amount of weight measured as a percentage of the car capacity that must be placed in the elevator such that the suspended load of the car side is equal to the suspended load of the counterweight side.

SECTION 2.16
CAPACITY AND LOADING

2.16.3.2 Information Required on Plates

Revise Section 2.16.3.2.1, and add a new Subsection (c) to Section 2.16.3.2.1, to read as follows:

2.16.3.2.1 Capacity plates must indicate the rated load of the elevator in pounds or kilograms and pounds (see Appendix D). In addition, this plate or a separate plate must indicate

(a) the capacity lifting one-piece loads where the elevator conforms to 2.16.7;

(b) for freight elevators designed for Class C2 loading, the maximum load the elevator is designed to support while being loaded or unloaded (see 2.16.2.2.4(c)); and

(c) Calculated per Appendix D, the number of persons on passenger elevators and freight elevators permitted by 2.16.4 to carry passengers.

Add new Subsection (f) to Section 2.16.3.2.2 to read as follows:

(f) the weight required for balanced load

Add new Section 2.16.10 to read as follows:

2.16.10 Detection of Overload on Passenger Elevators and Freight Elevators Permitted by 2.16.4 to Carry Passengers.

Passenger elevators and freight elevators permitted by 2.16.4 to carry passengers must be designed with the means to detect if the load exceeds the rated capacity of the elevator. If an overload is detected, the elevator doors must reopen and remain open and a voice notification and visual signal must indicate that the car is overloaded.