

Section 3.5. Vertical Transportation

3.5.1. General

3.5.1.1. Scope

- 1) This Section applies to vertical transportation facilities installed in a *building*, including elevators, escalators and dumbwaiters.
- 2) Elevators in a *building* within the scope of Subsection 3.2.6. shall conform to Articles 3.2.6.4., 3.2.6.5. and 3.2.6.6.

3.5.2. Standards

3.5.2.1. Elevators, Escalators and Dumbwaiters

- 1) The design, construction, installation and *alteration* of every elevator, escalator and dumbwaiter shall conform to the Elevating Devices Safety Regulation.
(See Note A-3.5.2.1.(1).)
- 2) Before being placed in service, every elevator, escalator or dumbwaiter installation, including safety and control devices, shall be inspected and tested in accordance with the Elevating Devices Safety Regulation.
- 3) Passenger elevators shall conform to Appendix E of ASME A17.1/CSA B44, “Safety Code for Elevators and Escalators.”

3.5.3. Fire Separations

3.5.3.1. Fire Separations for Elevator Hoistways

- 1) Except as permitted by Sentence (2), a *vertical service space* used as an elevator hoistway shall be separated from all other portions of each adjacent *storey* by a *fire separation* having a *fire-resistance rating* conforming to Table 3.5.3.1. for the *fire-resistance rating* required by Subsection 3.2.2. for
 - a) the floor assembly above the *storey*, or
 - b) the floor assembly below the *storey*, if there is no floor assembly above.

Table 3.5.3.1.
Fire Separation for Vertical Transportation Space
Forming Part of Articles 3.5.3.1. and 3.5.3.2.

<i>Fire-Resistance Rating of Fire Separation Required for Floor Assembly</i>	<i>Minimum Fire-Resistance Rating of Vertical Service Space for Elevator Hoistway</i>	<i>Minimum Fire-Resistance Rating of Vertical Service Space for Dumbwaiters</i>
less than 45 min	45 min	–
45 min	45 min	45 min
1 h	1 h	45 min
1.5 h	1.5 h	1 h
2 h or more	2 h	1 h

- 2) Passenger elevators, other than those provided for firefighters in accordance with Article 3.2.6.5., are permitted to be located within *interconnected floor space* without being enclosed in a hoistway separated from the remainder of the *building*, provided the elevator machinery is located in a room separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than that required for hoistways by Sentence (1).

3.5.3.2. Vertical Service Spaces for Dumbwaiters

- 1) A *vertical service space* containing a dumbwaiter shall be separated from all other portions of each adjacent *storey* by a *fire separation* having a *fire-resistance rating* conforming to Table 3.5.3.1. for the *fire-resistance rating* required by Subsection 3.2.2. for
 - a) the floor assembly above the *storey* or
 - b) the floor assembly below the *storey*, if there is no floor assembly above.

3.5.3.3. Fire Separations for Elevator Machine Rooms

- 1) Except as permitted by Sentence (2), a room containing elevator machinery shall be separated from all other parts of the *building* by a *fire separation* having a *fire-resistance rating* not less than that required for the *vertical service space* containing the elevator hoistway.
- 2) A room containing elevator machinery need not be separated from the elevator hoistway that it serves provided the room and the hoistway are separated from all other parts of the *building* by a *fire separation* having a *fire-resistance rating* not less than that required for the *vertical service space* containing the elevator hoistway.

3.5.4. Dimensions and Signs

3.5.4.1. Elevator Car Dimensions

- 1) Except as permitted in Sentence (3), if one or more elevators are provided in a *building*, each *storey* with access to an elevator shall be served by at least one elevator which has inside dimensions that will accommodate and provide adequate access for a patient stretcher 2 010 mm long and 610 mm wide in the prone position. (See Note A-3.5.4.1.(1).)
- 2) An elevator satisfying the requirements of Sentence (1) shall be clearly identified on the main entrance level of the *building*.
- 3) The requirement in Sentence (1) to accommodate and provide adequate access for a patient stretcher
 - a) is waived for a limited-use / limited-application elevator designed and installed in accordance with the *Elevating Devices Safety Regulation*, and
 - b) does not apply to a lift designed and installed in accordance with CAN/CSA-B355 “Lifts for Persons with Physical Disabilities”.

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3.5.4.2. Floor Numbering

- 1) Arabic numerals indicating the assigned floor number shall be mounted permanently on both jambs of passenger elevator hoistway entrances in conformance with Appendix E of ASME A17.1/CSA B44, “Safety Code for Elevators and Escalators.”