

Americans with Disabilities Act for Passenger Elevators

4.10.1 - General. Accessible elevators shall be on an accessible route and shall comply with 4.10 and with the ASME A17.1 – 1990, Safety Code for Elevators and Escalators. Freight elevators shall not be considered as meeting the requirements of this section unless the only elevators provided are used as combination passenger and freight elevators for the public and employees.

ELECTRONIC DOOR REVERSAL DEVICE

4.10.6 - Door Protective and Reopening Device. Elevator doors shall open and close automatically. They shall be provided with a reopening device that will stop and reopen a car door and hoistway door automatically if the door becomes obstructed by an object or person. The device shall be capable of completing these operations without requiring contact for an obstruction passing through the opening at heights of 5 inches and 29 inches above finish floor. Door reopening devices shall remain effective for at least 20 seconds. After such an interval, doors may close in accordance with the requirements of ASME A17.1 – 1990.

EMERGENCY TELEPHONE

4.10.14 - Emergency Communications. If provided, emergency two-way communication systems between the elevator and a point outside the hoistway shall comply with ASME A17.1 – 1990. The highest operable part of a two-way communication system shall be a maximum of 48 inches from the floor of the car. It shall be identified by a raised symbol and lettering complying with 4.30 and located adjacent to the device. If the system uses a handset then the length of the cord from the panel to the handset shall be at least 29 inches. If the system is located in a closed compartment the compartment door hardware shall conform to 4.27, Controls and Operating Mechanisms. The emergency intercommunication system shall not require voice communication.

ELEVATOR CAB AND HALL BRAILLE AND SIGNAGE

Car Operating Panel Braille

4.10.12 - Car Controls. Elevator control panels shall have the following features: Tactile Braille and Visual Control Indicators. All control buttons shall be designated by Braille and by raised standard alphabet characters for letters, Arabic characters for numerals, or standard symbols as required in ASME A17.1 – 1990. Raised and Braille characters and symbols shall comply with 4.30. The call button for the main entry floor shall be designated by a raised star at the left of the floor designation. All raised designations for control buttons shall be placed immediately to the left of the button to which they apply. Applied plates, permanently attached, are an acceptable means to provide raised control designations. Floor buttons shall be provided with visual indicators to show when each call is registered. The visual indicators shall be extinguished when each call is answered.

Door Jamb Braille

4.10.5 - Raised and Braille Characters on Hoistway Entrances. All elevator hoistway entrances shall have raised and Braille floor designations provided on both jambs. The centerline of the characters shall be 60 inches above finish floor. Such characters shall be 2 inches high and shall comply with 4.30.4. Permanently applied plates are acceptable if they are permanently fixed to the jambs.

HALL CALL BUTTONS

4.10.3 - Hall Call Buttons. Call buttons in elevator lobbies and halls shall be centered at 42 inches above the floor. Such call buttons shall have visual signals to indicate when each call is registered and when each call is answered. Call buttons shall be a minimum of 3/4 inches in the smallest dimension. The button designating the up direction shall be on top. Buttons shall be raised or flush. Objects mounted beneath hall call buttons shall not project into the elevator lobby more than 4 inches.

CAR POSITION INDICATOR

4.10.13 - Car Position Indicators. In elevator cars, a visual car position indicator shall be provided above the car control panel or over the door to show the position of the elevator in the hoistway. As the car passes or stops at a floor served by the elevators, the corresponding numerals shall illuminate, and an audible signal shall sound. Numerals shall be a minimum of 1/2 inches high. The audible signal shall be no less than 20 decibels with a frequency no higher than 1500 Hertz. An automatic verbal announcement of the floor number at which a car stops or which a car passes may be substituted for the audible signal.

CAB HANDRAIL

4.9.4 - Handrails. Stairways shall have handrails at both sides of all stairs. Handrails shall comply with 4.26 and shall have the following features:

- (1) Handrails shall be continuous along both sides of stairs. The inside handrail on switchback or dogleg stairs shall always be continuous.
- (2) If handrails are not continuous, they shall extend at least 12 inches beyond the top riser and at least 12 inches plus the width of one tread beyond the bottom riser. At the top, the extension shall be parallel with the floor or ground surface. At the bottom, the handrail shall continue to slope for a distance of the width of one tread from the bottom riser; the remainder of the extension shall be horizontal. Handrail extensions shall comply with 4.4.
- (3) The clear space between handrails and wall shall be 1-1/2 inches.
- (4) Gripping surfaces shall be uninterrupted by newel posts, other construction elements, or obstructions.
- (5) Top of handrail gripping surface shall be mounted between 34 inches and 38 inches above stair noses.
- (6) Ends of handrails shall be either rounded or returned smoothly to floor, wall or post.
- (7) Handrails shall not rotate within their fittings.

ALARM BELL BUTTON (CAR CONTROLS)

4.10.12(3) - Car Controls. Elevator control panels shall have the following features:
All floor buttons shall be no higher than 54 inches above the finish floor for side approach and 48 inches for front approach. Emergency controls, including the emergency alarm and emergency stop, shall be grouped at the bottom of the panel and shall have their centerlines no less than 35 inches above the finish floor.

DIRECTION ARROWS

4.10.4(3) - Hall Lanterns. A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call. Audible signals shall sound once for the up direction and twice for the down direction or shall have verbal enunciators that say "up" or "down." Visible signals shall have the following features:
Signals shall be visible from the vicinity of the hall call button. In-car lanterns located in cars, visible from the vicinity of hall call buttons, and conforming to the above requirements, shall be acceptable.