



CITY OF LOS ANGELES



Title 24, California Code of Regulations
Accessibility Regulations
Supplemental Correction List No. 5
(Effective 11-01-2002)

Elevators, Egress and Areas for Evacuation Assistance

P.C. #

ELEVATORS

5. Provide the following note(s) on the plans:

NOTE: In buildings two or more stories in height, served by an elevator, or a building served by an elevator required by Chapter 11A or 11B or a building served by an elevator required for accessibility by Section 101.17, all elevators provided shall accommodate a wheelchair. (1110A.1.2, 1116B.1.2)

1. Passenger elevators shall be located near a major path of travel and provisions shall be made to assure that they remain accessible and usable at all times the building is occupied. (1110A.1.13, 1116B.1.16)

2. The car inside shall allow for the turning of a wheelchair. The minimum clear distance between walls or between wall and door, excluding return panels, shall be not less than 80" by 54" for center-opening doors, and 68" by 54" for side-slide opening doors. Minimum distance from wall to return panel shall be not less than 51". (1110A.1.7, 1116B.1.8, Fig 11A-A)

3. Minimum clear width for elevator doors shall be 36". (1116B.1.4, Fig 11A-A)

4. Provide the following note(s) or detail(s) on the plans:

a. A handrail shall be provided on one wall of the car, preferably the rear. The rails shall be smooth and the inside surface at least 1-1/2" clear of the walls at a nominal height between 31" and 33" above the floor. (1116B.1.11, Fig 11A-B)

b. The centerline of elevator floor buttons shall be no higher than 54" above the finish floor for side approach and 48" for front approach. Where possible a 48 inch maximum height for elevator floor buttons is preferred. (1110A.1.7, 1116B.1.8, Fig 11A-B)

c. Floor buttons shall be provided with visual indications to show when each call is registered. The visual indicators shall be extinguished when each call is answered. (1110A.1.7, 1116B.1.8, Fig 11A-B)

d. Except for photo electric tube by-pass switches, emergency controls, including the emergency stop and alarm, shall be grouped in or adjacent to the bottom of the panel and shall be no lower than 2'-11" from the floor. For multiple controls only, one set must comply with these height requirement (1110A.1.7, 1116B.1.8, Fig 11A-B)

e. The centerline of the hall call buttons shall be no higher than 3'-6" of the floor. The buttons shall be a minimum of 3/4" in size and shall be raised 1/8" + 1/32" above the surrounding surface. Visual indication shall be provided to show each call registered and extinguished when answered. Objects adjacent to and below hall call buttons shall not project more than 4" from the wall. (1110A.1.9, 1116B.1.10, Fig 11B-40B)

f. The emergency telephone handset shall be positioned no higher than 4' above the floor, and the handset cord shall be a minimum of 2'-5" in length. (1110A.1.7, 1116B.1.8)

a. If the telephone system is located in a closed compartment, the compartment door hardware shall be of the lever type, conforming to the provisions of Section 1004.3, type of lock or latch. Emergency intercommunication shall not require voice communication. (1116B.1.8)

b. A car position indicator shall be provided above the car operating panel or over the opening of each car to show the position of the car in the hoistway by illumination of the indication corresponding to the landing at which the car is stopped or passing. (3003.4.9)

c. The car position indicator shall be on a contrasting color background and a minimum of 1/2" in height. (3003.4.9)

d. An audible verbal announcement or signal shall sound to tell passengers that the car is stopping or passing a floor served by the elevator. The audible signal shall be no less than 20 decibels with a frequency no higher than 1500 Hz. (3003.4.9)

e. The minimum illumination at the car controls, threshold, and the landing when the car and landing doors are open shall not be less than 5 foot-candles. (1110A.1.10, 1116B.1.12)

f. Identification for the visually impaired shall be as follows: (1110A.1.8, 1116B.1.9, Fig 11A-B)

i. Passenger elevator car controls shall have a minimum dimension of 3/4" and shall be raised 1/8" + 1/32" above the surrounding surface.

ii. Control buttons shall be illuminated, shall have square shoulders, and shall be activated by a mechanical motion that is detectable.

iii. All control buttons shall be designated by a 5/8" minimum, Arabic numeral, standard alphabet character, or standard symbol immediately to the left of the control button.

iv. A Braille symbol shall be located immediately below the numeral, character, or symbol.

v. A minimum clear space of 3/8" or other suitable means of separation shall be provided between rows of control buttons.

vi. The raised character shall be white on a black background.

vii. Controls and emergency equipment identified by raised symbols shall include, but not be limited to, door open, door close, alarm bell, emergency stop, and telephone.

viii. The call button for the main entry floor shall be designated by a raised star at the left of the floor designation.

- g. A visual and audible signal shall be provided at each hoistway entrance indicating to the prospective passenger the car answering the call and its direction of travel as follows:  
(1110A.1.11, 1116B.1.14)
- i. The visual signal for each direction shall be a minimum of 2-1/2" high by 2-1/2" wide, and visible from the proximity of the hall call button.
- ii. The audible signal shall sound once for the up direction and twice for the down direction or of a configuration which distinguishes between up and down elevator travel.
- iii. The center line of the fixture shall be located a minimum of 6' in height from the lobby floor.
- h. The use of in-car lanterns, located in or on the car door jambs, visible from the proximity of the hall call button and conforming to Sections 1110A.11 or 1116B.1.14 will be acceptable.  
(1110A.1.11, 1116B.1.14)
- i. The use of arrow shapes is preferred for visible signals.  
(1110A.1.11, 1116B.1.14)
- j. Passenger elevator landing jambs on all elevator floors shall have the number of the floor on which the jamb is located designated by raised Arabic numerals which are a minimum of 2" in height and raised Braille symbols which conform to Section 1117B.5.6 located approximately 5' above the floor on the jamb panels on both sides of the door so that they are visible from within the elevator. Raised Braille symbols shall be placed directly to the left of the corresponding raised Arabic numerals. The raised characters shall be on a contrasting background.  
(1110A.1.12, 1116B.1.15)
- k. Power-operated horizontally sliding car and hoistway doors opened and closed by automatic means shall be provided.  
(3003.4.3)
- l. Doors closed by automatic means shall be provided with a door reopening device which will function to stop and reopen a car door and adjacent hoistway door in case the car door is obstructed while closing. This reopening device shall also be capable of sensing an object or person in the path of the closing door without requiring contact for activation at a normal 5" and 29" above the floor. Door reopening devices shall remain effective for a period of not less than 20 seconds. After such an interval the doors may close in accordance with the requirements of ANSI 17.1-86 of the American Society of Mechanical Engineers (ASME) document ASME 17.1-1990.  
(1110A.1.4, 1116B.1.5 Fig 11B-40B)
- m. The minimum acceptable time from notification that a car is answering a call (lantern and audible signal) until the doors of the car start to close shall be calculated in accordance with Sections 1110A.1.5 and 1116B.1.6.  
(1110A.1.5, 1116B.1.6. Fig 11A-C)
- n. For cars with in-car lanterns, the total time, T, as calculated in accordance with Section 1116B.1.6, begins when the lantern is visible from the vicinity of hall call buttons and an audible signal is sounded.  
(1110A.1.5, 1116B.1.6, Fig 11A-C)
- o. The minimum acceptable time for doors to remain fully open shall not be less than 5 seconds.  
(1110A.1.6, 1116B.1.7)
- p. The elevator shall be automatic and be provided with a self-leveling feature that will automatically bring the car to the floor landings with a tolerance of  $\pm 1/2$ " under normal loading and unloading conditions. This self-leveling shall, within its zone, be entirely automatic and independent of the operating device and shall correct the overtravel or undertravel. The car shall also be maintained approximately level with the landing irrespective of load. The clearance between the car platform sill and the edge of the hoistway landing shall be no greater than 1-1/4".  
(1110A.1.3, 1116B.1.2)

## EGRESS AND AREAS FOR EVACUATION ASSISTANCE

- NOTE: Area of Evacuation Assistance is an accessible space which is protected from fire and smoke and which facilitates a delay in egress.
- NOTE: Areas of Evacuation Assistance are not required in buildings or facilities having a supervised automatic sprinkler system.  
(1114B.2.1, Exc.1)
- NOTE: In alterations of existing buildings, Areas of Evacuation Assistance are not required.  
(1114B.2.1, Exc.2)
1. In buildings or portions of buildings required to be accessible, accessible means of egress shall be provided in the same number as required for exits by Chapter 10.  
(1114B.2.1)
  2. When an exit required by Chapter 10 is not accessible, an area for evacuation assistance shall be provided and shall adjoin an accessible route of travel.  
(1114B.2.1)
  3. An area for evacuation assistance shall be one of the following:  
(1114B.2.2.1)
    - a. A portion of a stairway landing within a smoke-proof enclosure, complying with Section 1005.3.3.  
(1114B.2.2.1.1)
    - b. A portion of an exterior exit balcony located immediately adjacent to an exit stairway when the exterior exit balcony complies with Section 1006.3. Openings to the exterior of the building located within 20' of the area for evacuation assistance shall be protected with fire assemblies having a 3/4 hour fire protection rating.  
(1114B.2.2.1.2)
    - c. A portion of a one-hour fire-resistive corridor complying with Section 1004.3.4 located immediately adjacent to an exit enclosure.  
(1114B.2.2.1.3)
    - d. A vestibule located immediately adjacent to an exit enclosure and constructed to the same fire-resistive standards as required by Section 1004.3.4.  
(1114B.2.2.1.4)
    - e. A portion of a stairway landing within an exit enclosure which is vented to the exterior and is separated from the interior of the building by not less than one-hour fire-resistive door assemblies.  
(1114B.2.2.1.5)
    - f. When approved by the Building Official, an area or room which is separated from other portions of the building by a smoke barrier. Smoke barriers shall have a fire-resistive rating of not less than one hour and shall completely enclose the area or room. Doors in the smoke barrier shall be tight-fitting smoke- and draft-control assemblies having a fire-protection rating of not less than 20 minutes and shall be self-closing or automatic closing. The area or room shall be provided with an exit directly to an exit enclosure. When the room or area exits into an exit enclosure which is required to be of more than one-hour fire-resistive construction, the room or area shall have the same fire-resistive construction, including the same opening protection, as required for the adjacent exit enclosure.  
(1114B.2.2.1.6)
    - g. An elevator lobby complying with Section 1114B.2.3. See Item No. 7 below.  
(1114B.2.2.1.7)
  4. Each area for evacuation assistance shall provide at least two accessible areas that are not less than 30" by 48". The area for evacuation assistance shall not encroach on any required exit width. The total number of such 30" by 48" areas per story shall not be less than one for every 200 persons of calculated occupant load served by the area for evacuation assistance.  
(1114B.2.2.2)
  5. Each stairway adjacent to an area for evacuation assistance shall have a minimum clear width of 48" between handrails.  
(1114B.2.2.3)

