

**STANDARDS PRESENTATION
TO
CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD**

PROPOSED STATE STANDARD,
TITLE 8, DIVISION 1, CHAPTER 4

Subchapter 4. Construction Safety Orders
Article 18. Access and Egress

§1630. Elevators for Hoisting Workers.

(a) In addition to the stairways required in ~~§~~section 1629, ~~a~~at least one construction passenger elevator for hoisting workers shall be installed and in operation on or in any building, or structure, designed to be 60 feet or more in height above or 48 feet in depth below ground level when completed unless or until a permanent passenger elevator meeting the requirements of article 14, section 1604.4 provides service to all required landings and the uppermost level the elevator is designed to service. ~~The elevator shall be installed and operational when the building or structure reaches 36 feet in height. The building or structure height shall be determined by measuring from ground level to the highest structural level including the parapet walls, mechanical rooms, stair towers and elevator penthouse structures but excluding antennas, smokestacks, flag poles and other similar attachments.~~

(1) On buildings and structures, the elevator shall be installed and operational as soon as the decking is substantially intact or welded in or other means of providing a landing exist with the first landing at a height not to exceed 36 feet.

(2) The building or structure height shall be determined by measuring from ground level to the highest structural level including the parapet walls, mechanical rooms, stair towers and elevator penthouse structures, but excluding antennas, smokestacks, flag poles and similar attachments.

(3) In excavations, the elevator shall be installed and operational as soon as practicable after the total depth of the excavation has been reached, sufficient lagging or shoring has been installed to support the elevator, and the top of the footing slab has been placed.

The building or structure depth shall be determined by measuring from ground level to the lowest floor level excluding local depression such as sumps and elevator pits.

Ground level, for the purposes of this section, is defined as the level of the primary construction entrance to the building or structure.

When computing the height, the depth shall not be considered; and when computing the depth of the building or structure, the height shall not be considered. If the height is at 60 feet or

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more above or at 48 feet or more below ground level, a construction elevator(s) shall be installed to serve both locations.

EXCEPTIONS to subsection 1630(a):

(1) Scaffolds and falsework.

~~(2) At work locations where unusual site conditions or unusual structure configurations exist, alternate means of access in conformance with Section 1630(c) shall be permitted.~~

(2) Work locations with unusual site conditions or structure configurations which provide alternate means of access in accordance with section 1630(c).

(3) Structures, such as parking structures, where the design allows vehicles to be driven to the upmost working level and a clear travel path is maintained.

~~NOTE: For the purposes of this Section, unusual site conditions and structure configurations are considered to exist at those work locations where the installation of a construction passenger elevator is not feasible.~~

EXAMPLES:

~~Unusual site conditions or structure configurations are bridges, steel tank erection, dams, water towers, antennas, cooling towers, refinery towers, stacks, prefabricated parking structures, tower cranes, etc.~~

(b) Construction passenger elevators shall be installed, operated and maintained in compliance with Article 14 of the Construction Safety Orders.

~~(c) At unusual site conditions or structure configurations, the Division shall permit alternate means of access, consisting of one or more, but not limited to, the following:~~

~~(1) Use of personnel platforms designed, constructed, and operated as specified by Section 5004 of the General Industry Safety Orders, and only under the conditions permitted by the general requirements of that section.~~

~~(2) Use of suspended power driven scaffolds where employees are protected by safety belts secured to independent safety lines by means of a descent control device acceptable to the Division.~~

~~(3) Use of appropriate vehicle mounted elevating and rotating work platforms.~~

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~~(4) Use of other means, such as inclined elevators, etc. acceptable to the Division, presented in written form and acceptance granted prior to use.~~

(c) Prior to use, the employer shall substantiate in written form alternate means of access acceptable to the Division for unusual site conditions or structure configurations. For the purposes of this section, unusual site conditions and structure configurations are considered to exist at those work locations where the installation or use of a construction passenger elevator is not feasible.

NOTE: Examples of unusual site conditions or structure configurations include bridges, steel tank erection, dams, water towers, antennas, cooling towers, refinery towers, stacks, prefabricated parking structures, tower cranes, etc.

~~(d) Landings shall be provided for, the~~ and serviced by, a passenger elevator on or in buildings or structures at the upper-most floor and at intervals not to exceed 3 floors or 36 feet, whichever is less, as soon as the structural integrity of the elevator can be maintained as a result of the building's or structure's design.

(1) Landings shall be provided for, and serviced by, a passenger elevator when the height of a building or structure initially reaches 3 floors or 36 feet whichever is less.

(2) In excavations, the first landing installed above the floor of the excavation shall be located at grade level. Additional landings shall be installed as soon as practicable when additional working levels are established.

(3) Landings are not required to any level of a building or structure where no floor exists.

(4) Where a landing location is impractical due to the design of the building or structure, the employer shall substantiate in written form the need for an alternate landing location acceptable to the Division prior to installation.

(5) Elevator access shall be provided such that employees are able to travel to a required landing from any point in the building or structure within five minutes.

(6) For the purposes of this section, a roof is an upper-most floor.

EXCEPTIONS to subsection 1630(d):

(1) Landings are not required at roofs of mechanical rooms, elevator penthouses and similar rooms located on the roof of a building or structure, nor on buildings with steep roofs, barrel

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roofs or terra cotta tile roofs, cement tile roofs, Mansard roofs or configurations that will not allow for a landing due to structural or functional limitations.

(2) On cast-in-place concrete structures, the installation of landings may be delayed if the formwork system interferes with the installation and/or use of the temporary construction passenger elevator.

NOTE: Other landing locations acceptable to the Division may be substituted where the design of the building or structure make the above impractical.

Note: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

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