

Discussion draft language for elevator car top railing subcommittee meeting

§3141.7. General Requirements.

(a) Conveyances shall comply with the following general requirements:

* * * * *

(19) Car top railings

(A) Perimeter railings required by ASME A17.1-2004 Section 2.14.1.7.1 shall be located so that the outer edge of the railing is within 50mm (2 inches) of the outside perimeter of the car top. The railing shall have a minimum vertical and horizontal clearance of not less than 305mm (12 inches) to the hoistway enclosure, counterweight, fixed electrical or mechanical devices, and structural members within the hoistway. Car rail brackets less than 457 mm (18 inches) in horizontal length are exempted from this clearance requirement. The vertical and horizontal clearances to the railings shall be maintained throughout the entire hoistway.

(B) If the minimum railing clearances cannot be met with the railing at the perimeter of the car top, one of the following provisions shall be met:

1. When horizontal obstruction(s) protrude into the required railing clearances, screening of the obstruction(s) shall be provided to cover the entire distance of the hoistway along the vertical plane. Screening shall be made from wire-mesh material equal to or stronger than .048 inch diameter wire with openings not exceeding 1/2 inch, securely fastened to keep the guard taut and plumb; or

2. The outside edge of the railings may be inset only as necessary to establish the minimum railing clearances, but no greater than 305mm (12 inches) from the perimeter of the car top and:

A. All exposed areas outside the car top railing shall preclude standing or placing objects which may fall. Such areas shall be provided with:

- a. a bevel not less than 75 degrees above horizontal, and extending from the railing to within 50 mm (2 in.) of the car top perimeter, or
- b. other alternate means acceptable to the Division.

B. All exposed areas outside the car top railing shall be clearly marked. The markings shall consist of alternating 100 mm (4 inch) diagonal red and white strips.

C. A durable sign in letters not less than 13 mm (1/2 inch) on a contrasting background permanently attached to a railing and visible from the entrance side of the car top shall be provided. The sign shall state:

CAUTION

DO NOT STAND ON OR CLIMB OVER RAILING

D. Serviceable equipment shall be positioned so that mechanics and inspectors do not have to climb on or over railings to perform adjustments, maintenance, repairs or inspections.

(C) The design of the railings shall comply with ASME A17.1-2010, section 2.10.2.