

**2.1.6 Projections, Recesses, and Setbacks in Hoistway Enclosures**

Hoistway enclosures shall have flush surfaces on the hoistway side, subject to the requirements of 2.1.6.1 and 2.1.6.2.

**2.1.6.1** On sides for loading and unloading, landing sills, hoistway doors, door tracks, and hangers shall be permitted to project inside the hoistway enclosure. Sills shall be guarded as required by 2.11.10.1.

(07) **2.1.6.2** On sides not used for loading and unloading

(a) beams, floor slabs, or other building construction making an angle less than 75 deg with the horizontal shall not project more than 100 mm (4 in.) inside the hoistway enclosure unless the top surface of the projection is beveled at an angle not less than 75 deg with the horizontal

(b) separator beams between adjacent elevators are not required to have bevels

(c) where recesses or setbacks exceeding 100 mm (4 in.) occur in the enclosure wall, the top of the recess or setback shall be beveled at an angle of not less than 75 deg with the horizontal

(d) bevels are not required if the projections, recesses, and setbacks are covered with material conforming to the following:

(1) it shall be equal to or stronger than 1.110 mm (0.0437 in.) wire

(2) it shall have openings not exceeding 25 mm (1 in.)

(3) it shall be supported and braced such that it will not deflect more than 25 mm (1 in.) when subjected to a force of 4.79 kPa (100 lbf/ft<sup>2</sup>) applied horizontally at any point

**SECTION 2.2  
PITS**

**2.2.1 General**

A pit shall be provided for every elevator.

**2.2.2 Design and Construction of Pits**

**2.2.2.1** The construction of the pit walls, the pit floor, and any pit access doors (see 2.2.4) shall conform to 2.1.1 and 2.1.2.

**2.2.2.2** The floor of the pit shall be approximately level, except that

(a) trenches or depressions shall be permitted for the installation of buffers, compensating sheaves and frames, and vertically sliding biparting hoistway doors, where structural conditions make such trenches or depressions necessary

(b) in existing buildings, where new elevators are installed or existing elevators are altered, existing foundation footings extending above the general level of the

pit floor shall be permitted to remain in place, provided that the maximum encroachment of such footing shall not exceed 15% of the cubic content of the pit, and provided that it is impracticable to remove the

**2.2.2.3** Permanent provisions shall be made to prevent accumulation of ground water in the pit (see 2.1.2.2).

**2.2.2.4** Drains and sump pumps, where provided, shall comply with the applicable plumbing code, and they shall be provided with a positive means to prevent water, gases, and odors from entering the hoistway.

<p><b>2.2.2.5</b> In elevators provided with Firefighters' Emergency Operation, a drain or sump pump shall be provided. The sump pump/drain shall have the capacity to remove a minimum of 11.4 m<sup>3</sup>/h (3,000 gal/h) per elevator.</p> <p style="text-align: center;"><i>(50 GPM)</i></p>	(07)
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**2.2.2.6** Sumps and sump pumps in pits, where provided, shall be covered. The cover shall be secured and level with the pit floor.

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**2.2.3 Guards Between Adjacent Pits**

**2.2.3.1** Where there is a difference in level between the floors of adjacent pits, a metal guard, unperforated, or perforated with openings that will reject a ball 50 mm (2 in.) in diameter, shall be installed for separating such pits. Guards shall extend not less than 2 000 mm (79 in.) above the level of the higher pit floor and a self-closing access door shall be permitted.

**2.2.3.2** Where the difference in level is 600 mm (24 in.) or less, a standard railing conforming to 2.10.2 shall be permitted to be installed in lieu of the guard.

**2.2.4 Pit Access**

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Safe and convenient access shall be provided to all pits, and shall conform to 2.2.4.1 through 2.2.4.6.

**2.2.4.1** Access shall be by means of the lowest hoistway door or by means of a separate pit access door.

**2.2.4.2** There shall be installed in the pit of each elevator, where the pit extends more than 900 mm (35 in.) below the sill of the pit access door (lowest hoistway door or separate pit access door), a fixed vertical ladder of noncombustible material, located within reach of the access door. The ladder is permitted to be retractable or nonretractable. Nonretractable ladders, where provided, shall conform to 2.2.4.2.1 through 2.2.4.2.6. Retractable ladders, where provided, shall conform to 2.2.4.2.1 through 2.2.4.2.3 and 2.2.4.2.5 through 2.2.4.2.8. When in the extended position, retractable ladders shall conform to 2.2.4.2.4.