City of Pittsburg
Community Development - Building Division
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## Guardrails 2016 CBC, Section 1015


1015.3 Where required. Guards shall be located along opensided walking surfaces, mezzanines, industrial equipment platforms, stairways, ramps and landings hat are located more than 30 inches ( 762 mm ) above the floor or grade below. Guards shall be adequate in strength and attachment in accordance with Section 1607.7. Where glass is used to provide a guard or as a portion of the guard system, the guard shall also comply with Section 2407. Guards shall also be located along glazed sides of stairways, ramps and landings that are located more than 30 inches ( 762 mm ) above the floor or grade below where the glazing provided does not meet the strength and attachment requirements in Section 1607.7.

Exception: Guards are not required for the following locations:

1. On the loading side of loading docks or piers.
2. On the audience side of stages and raised platforms, including steps leading up to the stage and raised platforms.
3. On raised stage and platform floor areas, such as runways, ramps and side stages used for entertainment or presentations.
4. At vertical openings in the performance area of stages and platforms.
5. At elevated walking surfaces appurtenant to stages and platforms for access to and utilization of special lighting or equipment.
6. Along vehicle service pits not accessible to the public.
1015.3 Height. Guards shall form a protective barrier not less than 42 inches ( 1067 mm ) high, measured vertically above the leading edge of the tread, adjacent walking surface or adjacent seatboard.

Exceptions:

1. For occupancies in Group R-3, and within individual dwelling units in occupancies in Group R-2, guards whose top rail also serve as a handrail shall have a height not less than 34 inches ( 864 mm ) and not more than 38 inches ( 965 mm ) measured vertically from the leading edge of the stair tread nosing.
2. The height in assembly seating areas shall be in
accordance with Section 1025.14.
1015.4 Opening limitations. Open guards shall have balusters or ornamental patterns such that a 4 -inch diameter ( 102 mm ) sphere cannot pass through any opening.

## Exceptions:

1. The triangular openings formed by the riser, tread and bottom rail at the open side of a stairway shall be of a maximum size such that a sphere of 6 inches (152 mm ) in diameter cannot pass through the opening.
2. At elevated walking surfaces for access to and use of electrical, mechanical or plumbing systems or equipment, guards shall have balusters or be of solid materials such that a sphere with a diameter of 21 inches ( 533 mm ) cannot pass through any opening.
3. In areas that are not open to the public within occupancies in Group I-3, F, H or S, balusters, horizontal intermediate rails or other construction shall not permit a sphere with a diameter of 21 inches ( 533 mm ) to pass through any opening.
4. In assembly seating areas, guards at the end of aisles where they terminate al a fascia of boxes, balconies and galleries shall have balusters or ornamental patterns such that a 4 -inch diameter ( 102 mm ) sphere cannot pass through any opening up to a height of 26 inches ( 660 mm ). From a height of 26 inches ( 660 mm ) to 42 inches ( 1067 mm ) above the adjacent walking surfaces, a sphere 8 inches ( 203 mm ) in diameter shall not pass.
5. Within individual dwelling units and sleeping units in Group R-2 and R-3 occupancies, openings for required guards on the sides of stair treads shall not allow a sphere of 4,375 inches ( 111 mm ) to pass through.
