

Design Bureau

12B-10

Pedestrian Path Guidelines: Safety Rail

Design Manual Chapter 12 Pedestrian and Bicycle Facilities

Originally Issued: 09-20-12 Revised: 06-11-24

Safety rail, sometimes referred to as pedestrian guardrail, is placed along pathways to protect pedestrians from vertical drop-offs or steep slopes. Safety rail used in conjunction with pedestrian or bicycle travel is different than guardrail used in roadway design. This section provides guidance and references to assist the designer in determining the need for, and design of, safety rail.

Determining the Need for Safety Rail

In Areas with Pedestrian Travel

In areas where pedestrians are expected, regardless of frequency, International Building Code (<u>IBC</u>) requires guards (e.g., safety rail) for vertical drop-offs of 30 inches or more (§ 1015.2). In situations where a drop-off is not adjacent to the pedestrian path but is within a reasonable clear zone, the designer should determine whether a safety rail is needed.

Other situations that should be examined for safety rail include:

- Protection of slopes.
- Slope surfaces consisting of rough materials, such as revetment, adjacent to pedestrian a
 path.
- The presence of traffic or a body of water at the bottom of a slope adjacent to a pedestrian path.
- Those listed in paragraph C.7 in Section 12B-2.

In Areas with Maintenance Personnel Only

These areas are not expected to receive any pedestrian travel but may be serviced by maintenance personnel (mowing, snow removal, graffiti cleaning, etc.). For these areas, <u>OSHA</u> requires a pedestrian safety rail where a vertical drop-off of 6 feet or more occurs (§ 1926.501.b.1).

In All Other Areas

A pedestrian safety rail is not required in areas where no pedestrian or maintenance personnel are expected.

Constructing Safety Rail

Construction of a safety rail can be a chain-link fence or pedestrian railing (typically SUDAS <u>9080.103</u>), provided it meets the strength and construction requirements set forth by ADAAG, IBC, and OSHA.

Chronology of Changes to Design Manual Section:

012B-010 Pedestrian Path Guidelines: Safety Rail

6/11/2024 Revised

Replaced logo. Revised Chapter Title. Updated IBC and OSHA references.

9/20/2012 NEW

New Replaces 11C-10