



Architectural D-300 SERIES

Description

The Safety Rail 2000 Architectural Series is a passive fall protection guard rail system that exceeds the OSHA-compliant roof safety rail requirements with a 50% increased safety factor. Along with a pleasing architectural style, it has been tested to exceed a 300 lb load requirement (50% more than the 200lb requirement required by OHSA) and has 3 horizontal rails (50% more than the 2 rail requirement required by OHSA). Moreover, it combines this increased safety factor with the advantages of a non-penetrating guard rail system with architectural appeal for applications where railing appearance is important.

Rail sections are constructed of 1.25" SCH 40 galvanized pipe and galvanized fittings. The rails secured to 96-pound cast iron bases and spaced at maximum distance of 6ft apart. When the bases are installed in a run with a 90° return on each end, the combined mass and geometry of the installation creates an OSHA compliant barrier for roof edge protection. See **Minimum Requirements** below.

Basic Use

The Architectural D300 Series is a roof [safety], fall protection guard rail system that requires no penetration to the roof surface when installed. Because they're anchored with weighted baseplates rather than bolted to the roof, D300 series ballasted guard rails are primarily used as a permanent rail solution. In the event of the roof needing to be fixed or replaced, the system can be easily disassembled to do the work and reassembled after.

OSHA Compliance

Compliant with regulations for guardrails: 29 CFR1910 Subpart D

Features

- More pleasing sightlines
- No drilling necessary to install
- No intermediate counterweight required
- Custom engineering/manufacturing available for special applications
- Curved, incline and straight stanchions available
- Deemed OSHA compliant by an independent accredited engineering firm
- Optional EPDM rubber pads and BUR pads available for added roof surface protection

Minimum Requirements

In order to meet OSHA regulations for fall protection, outriggers must be utilized (returns/counter weights). Whether the Danger Side Run is 5' or 1000' in length, you must have these in place at the beginning and at the end of the run. Outriggers are standard rail kits that are connected at approximately 90° to the Danger Side Run of each end rail section.



D-300 Series
3 rail / 300 lb load test

For applications where appearances are important.

See reverse side for additional specifications and test results



SPECIFICATIONS

Roof Edge Protection:

Provide freestanding fall protection system on roof

Approved Product: D300 Series as distributed by Dakota Safety
866-503-7245; info@dakotasafety.com

Standards: System shall have top and mid rail in accordance with OSHA Standards – 29 CFR 1926.502

Structural Load: 300 (90.7 kg), minimum, in any direction to all components in accordance with OSHA Regulations: 29 CFR 1910 Subpart D

Height: 42 inches (1067 mm), minimum top rail from work surface
Secondary rails at 14 inches (355 mm) and 28 inches (710 mm) from work surfaces

Stanchions: curved type with securing pin at base; spacing (with bases) at 6 ft intervals

Railings: 1.66" O.D. galvanized, Schedule 40 pipe

Mounting Bases: Class 30 gray iron material cast with four receiver posts. Base weight 94 lb, 48 lbs per square foot.

Receiver Posts: Shall have a positive locking system into slots that allow stanchions to be mounted in any direction. Friction locking systems are not allowed. Receiver posts shall have drain hole

Hardware: Securing pins shall be 1010 carbon steel, zinc plated and yellow chromate dipped. Pins shall consist of collared pin and securing fence to keep pin in place

Finishes: Available in standard Hot-Dip Galvanized. Custom colors available

Options

Surface Protection Pads: EDPM Rubber Pads and Bur Pads are available

Independent Test Results

Load Testing and Wind Load Calculation available on request

BASE

