

GUARDRAIL SYSTEMS

SAFETY RAIL 2000

BASIC USE

The SafetyRail 2000 system creates a compliant barrier for roof edge protection. Its unique design eliminates the cost and danger of potential top hazards created by intermediate counterweights used in other guardrail systems. It provides the economies of a fully portable system for commercial, industrial and worksite applications including rail car platforms, manhole barricades, ramps, construction sites, dig sites, mezzanines, assembly and break areas, crowd control, hoist areas and more.



DESCRIPTION

The SafetyRail 2000 is a non-penetrating, passive fall protection system for workplace safety that can be used from rooftop to ground level applications. It can be used as a portable or permanent system.

Rail sections are constructed of 1-5/8" steel tubing. The rails secure to 96 pound cast iron bases that have four ports, allowing the rails to be placed in infinite positions. When the bases are installed in a run with a 90 degree return on each end, the combined mass and the geometry of installation creates an OSHA compliant barrier for roof edge protection.



FEATURES

- No intermediate counter weights required
- Can be used as portable or permanent guardrail
- Quick installation
- No drilling needed
- Deemed OSHA compliant by an independent accredited engineering firm
- Powder coat and galvanized finishes available
- Custom colors available from the RAIL color codes
- Optional EPDM rubber pads and BUR pads available for added roof surface protection.

OSHA COMPLIANCE

Compliant with all relevant OSHA regulations.

OPTIONS

Step-Rail: Variable height railing enables a continuous run of the SafetyRail when the roof steps up or down

Adjustable Mid-Rail: Railing to fit over duct work for continuous run of SafetyRail

LP Outrigger: Supports places under ducting or conduit to continue run of SafetyRail Guardrail System when rail section cannot be used

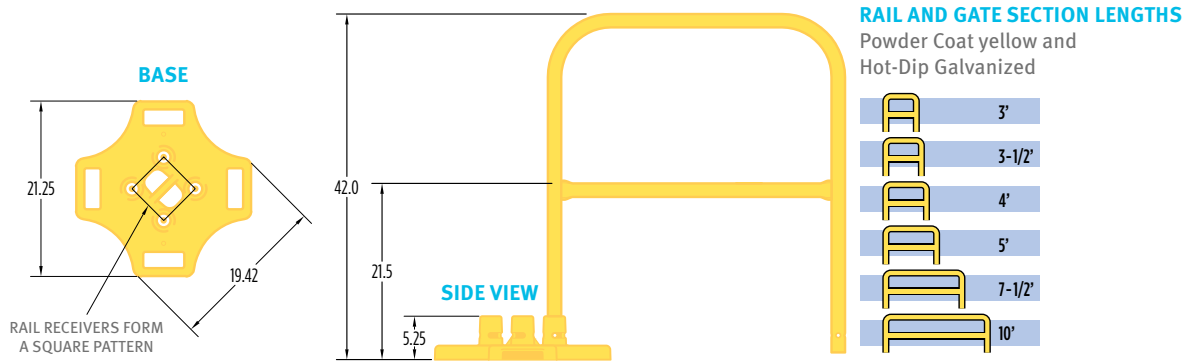
SG200: Sliding (cantilevered) gate

Finishing Rail: D-shaped railing extension for ladder landings length or rail section

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

MINIMUM REQUIREMENTS

In order to meet OSHA regulations for all 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 approximately 90 degrees to the Danger Side Run of each end rail sections.



ROOF EDGE PROTECTION:

PROVIDE FREESTANDING FALL PROTECTION SYSTEM ON ROOF TOPS

Approved product: SafetyRail 2000 Guardrail System

Standards: System shall have top and mid rail in Accordance with OSHA Standards

Structural Load: 200lb (90.7 kg), minimum, in any direction to all components in accordance with OSHA Regulations

Height: 42 inches (1067 mm)

Railings: 1-5/8 inches (41mm) O.D. hot rolled pickled electric weld tubing, free of sharp edges and snag points

Mounting Bases: Class 30 gray iron material cast with four receiver posts. Base weight 96 lb, 48 lbs per square foot. Rubber pads on base bottoms

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

Hardware: Securing pins shall be 1010 carbon steel, zinc plated and chromate dipped. Pins shall consist of collared pin and lanyard that connects to lynch pin

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

INDEPENDENT TEST RESULTS

TEST CONCLUSIONS:

- The portable guardrail system was found to comply with OSHA regulations
- The top rail is capable of withstanding a 200lb horizontal and vertical load

- The midpoint of the top rail deflected to 40.75 inches above the floor level when subjected to a 200 lb vertical load
- The midrail was capable of withstanding, without failure, a force of 150 lbs, applied in the vertical and horizontal directions.

WIND LOAD CALCULATIONS: Available on request.

PROJECT	
CONTRACTOR	
DATE	