

StealthRail GUARDRAIL SYSTEM

Description

The StealthRail GuardRail System provides clean site lines and preserves the architectural integrity of your building, while offering perimeter passive fall protection.

Rail sections are constructed of 1-5/8" inch steel tubing. The rails secure to 108 pound cast iron bases that have four ports, allowing the rails to be placed in infinite positions. Each section is collapsible and the one-way pivot assembly allows the rails to fold down after rooftop work has been completed. When the bases are installed in a run with a 90° return on each end, the combined mass and the geometry of installation creates an OSHA compliant barrier for roof edge protection.

The StealthRail requires no penetration to the roof surface when installed.

Basic Use

The StealthRail's fold-down design provides clean sight lines while meeting OSHA's requirements for safety guardrail systems.

OSHA Compliance

Compliant with regulations for guardrails:

- ▶ 29 CFR 1910.23
- ▶ 29 CFR 1926.502

Features

- ▶ No intermediate counter weights required
- ▶ Reduce costs over an engineered lifetime system
- ▶ Folds out of sight when not in use
- ▶ Quick installation
- ▶ No drilling needed
- ▶ Deemed OSHA compliant by an independent accredited engineering firm
- ▶ Can be used around mechanicals or for perimeter protection
- ▶ Rails can be mounted in infinite positions
- ▶ Manufactured in-house
- ▶ Powder Coat and Galvanized finishes available
- ▶ Custom colors available from the RAL Color Codes
- ▶ 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.

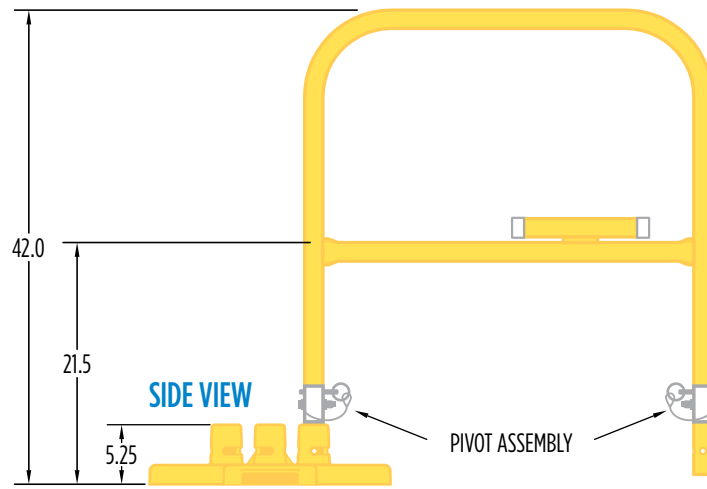
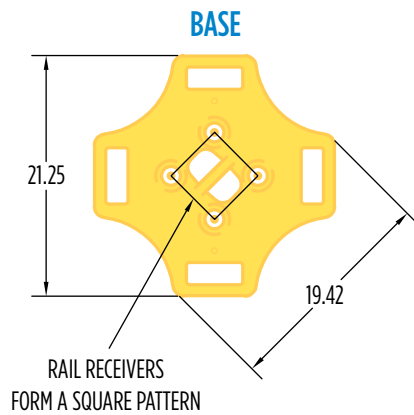
A COMPANY OF INNOVATION — **NOT** IMITATION



A collapsible, non-penetrating guardrail system that provides clean sightlines.



Product Specifications (StealthRail)



Rail Section Lengths

Powder Coat Yellow and Hot-Dip Galvanized

	3'
	3-1/2'
	4'
	5'
	7-1/2'
	10'

Approved product: StealthRail 2000 Guardrail System

Standards: System shall have top and mid rail in accordance with OSHA Standards – 29 CFR 1910.23 and 29 CFR 1926.502

Structural Load: 200 lb (90.7 kg), minimum, in any direction to all components in accordance with OSHA Regulations 29 CFR 1910.23 and 29 CFR 1926.502

Height: 42 inches (1067 mm), minimum

Railings: 1- 5/8 inch (41 mm) 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 108 lbs and 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 yellow chromate dipped. Pins shall consist of collared pin and lanyard that connects to lynch pin.

Finishes: Available in standard Powder Coat Yellow and Hot-Dip Galvanized. Custom colors available.

Options

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

Raised Mid-Rail: Railing to fit over duct work for continuous run of StealthRail

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

Finishing Rail: D-shaped railing extension for ladder landings, length or rail section and D-loop as indicated on the Drawings

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

Independent Test Results

Test Conclusions:

- ▶ The portable guardrail system was found to comply with OSHA regulation 1926.502 for Fall Protection.
- ▶ The top rail was capable of withstanding a 200 pound horizontal and vertical load.
- ▶ The midpoint of the top rail deflected to 40.75 inches above the floor level when subjected to a 200 pound vertical load.

- ▶ The mid rail was capable of withstanding, without failure, a force of 150 pounds, applied in the vertical and horizontal directions.

Tests were conducted by GME Consultants, Consulting Engineers, Minneapolis, MN 55447. Complete Report available from BlueWater.

Wind Load Calculations

Available on request.

