

200 RAILGUARD™

1. Product Name

Railguard 200 Fall Protection & Guardrail System

2. Manufacturer

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3. Product Description

BASIC USE

Garlock Equipment Company, in operation since 1959, designs and manufactures a variety of equipment to protect people from fall-through-opening, fall-from-height and other hazardous areas. The Railguard 200 guardrail system is the primary brand in Garlock's fall protection product line. The system has a reputation in the safety industry for exceptional performance and quality construction.

Railguard 200 can be used as a completely portable and freestanding system, or with permanently attached mounting brackets. Quick-release pins allow rail sections to be removed on either system.

Railguard 200 meets or exceeds OSHA requirements for fall protection railings. The system qualifies as a motion stopping safety device that can be used on the roof edge for fall protection. Typical applications include:

- Roof edges and roof hatches
- Construction sites and excavations
- Mezzanines and stairwells
- Skylights and open holes
- Loading docks and shipping pits
- Flatbed trailers
- Maintenance projects
- Elevated decks and walkways

Railguard 200 can also be used to establish a perimeter around equipment hazards, including:

- Industrial and manufacturing equipment
- HVAC equipment
- Dumpsters and waste containers



Withstands 200 lb (890 N) of force

Two models: Completely freestanding and portable or with permanently mounted brackets. Quick-release pins allow easy rail section removal.

- Construction equipment and supplies
- Storage facilities

COMPOSITION & MATERIALS

Railing sections and gate systems are constructed of 1 5/8" (41.3 mm) hot rolled electric welded (HREW) steel tubing. Base units are constructed of 20B cast iron. Securing pins are electroplate and zinc dichromate dipped 1038H cold rolled steel. Speed Boards are constructed of zinc plated steel.

COMPONENTS

The Railguard 200 basic system has 3 components:

- Base Units - The foundation of the system, base units are powder coated for corrosion resistance and feature low-profile design, built-in carry handles, holes for permanent mountings and built-in toeboard holders. Bases are designed so that rail sections can be turned 45 or 90 degrees. Available with optional non-slip pads



Swinging gates are available in multiple sizes to fit 4' - 10' (1.2 - 3 m) openings.

- Rail Sections - Rail sections mount to the base units and are available in three standard guardrail lengths of 5', 7 1/2' and 10' (1.5, 2.3 and 3 m). Rail sections can be positioned to form a square or rectangle, or to make turns. An optional bidirectional fixture allows 3 or 4 rail sections to be tied into the same base



4-wheel storage and transport cart

- Quick-Release Pins - Quick-release pins slide through the baseplate and rail, snapping into place to secure the system

Optional components include:

- Swinging Gates - Swinging Gates provide easy access to restricted areas. Gate kits include one gate, one base unit and two quick-release pins. Gates feature a positive locking latch, one-way reversible swing direction and a support wheel. Passage is accomplished by lifting the latch, opening the gate and relatching the mechanism. Insert padlock if desired to lock gate. Railguard 200 gate

sizes will accommodate people and large equipment and are offered in standard rough opening sizes of 4', 5' and 10' (1.2, 1.5 and 3 m) lengths. Walk-through dimensions are 14" (356 mm) less

- Centurion 4-Wheel Storage and Transport Cart - The Centurion service cart keeps Railguard 200 system components organized, and with its large flotation tires, can effortlessly move the system from one site to another. The Centurion holds eight base units, seven 5', 7 1/2' or 10' (1.5, 2.3 or 3 m) rail sections, a base transporter, eight short toeboards and six long toeboards and pins. A built-in winch enables one person to easily load bases without lifting more than 40 lb (18 kg). Lifting rings enable the cart to be hoisted to a roof or elevated platform, equipped with a drop-down tow handle/brake
- 2-Wheel Base Transport Dolly - Moves cast iron bases where they are needed with minimal effort



2-wheel, base transport dolly

- Speed Boards - In elevated environments in which there is a risk of materials dropping



Telescopic steel Speed Boards and toeboards insert into cast iron bases to protect people below from falling objects.



Shipping pit with permanent sidewall mounting brackets and quick-release pins that allow rail sections to be removed when access is required

onto people or objects below, OSHA requires the use of 2" x 4" (51 x 102 mm) toeboards between the bases. Available in two sizes, zinc plated steel Speed Boards are compact, noncombustible and telescope to the required dimensions in seconds

TYPES

Railguard 200 is available in freestanding and permanently mounted styles.

Freestanding

The Portable Railguard 200 is a freestanding system. It does not require anchors or drilling into the substrate.

Permanently Mounted

The Permanent Railguard 200 uses mounting brackets that bolt to a sidewall, floor or edge. Quick-release pins allow rail sections to be removed from the brackets as needed to facilitate access.

SIZES

Metal pipe rail sections are available in 5', 7.5' and 10' (1.5, 2.3 and 3 m) lengths. Custom lengths are also available. All rail sections are 42" (1067 mm) high. Heavy-wall steel tubing is used throughout. All welds are solid bead. Rail sections weigh from 17 - 28 lb (8 - 13 kg), depending on length.

Cast iron bases are 21.5" x 21.5" (546 x 546 mm) and weigh 108 lb (49 kg). Base units have built-in carrying handles. The design allows rail

sections to be turned 45 or 90 degrees. For smooth surfaced applications, optional rubber pads can be fitted to the bottom side of the base to protect the substrate and to provide added skid resistance.

Swinging Gate sections are available in 34", 46" and 106" (864, 1168 and 2692) sizes for 4', 5' and 10' (1.2, 1.5 and 3 m) openings.

COLOR, FINISH

Components are finished with a standard safety yellow powder coat epoxy. Optional custom color matching is available. Stainless steel and hot-dipped galvanized steel finishes are also available.

BENEFITS

- Meets or exceeds OSHA requirements



Permanent edge mount with quick-release pins for rail section removal

Garlock Equipment Company

- For use on any flat-surfaced substrate capable of supporting the weight of the system
- Configures easily to meet specific needs with fast, tool-free setup
- Will withstand 200 lb (890 N) of force applied in any direction without moving
- Unlimited numbers of railing sections may be linked together and only require the use of a 5' (1.5 m) outrigger at the end sections of railing termination
- Multiple railing lengths available

4. Technical Data

APPLICABLE STANDARDS

Occupational Safety and Health Administration (OSHA)

- OSHA 29 CFR 1910.23 Guarding Floor and Wall Openings and Holes
- OSHA 9 CFR 1926.500-503 Requirements for Use of Ladder Hoisting Wheels

5. Installation

PREPARATORY WORK

Deliver products in manufacturer's original, unopened, undamaged containers with identification labels intact.

Verify that site conditions are acceptable for installation. Do not proceed with installation until unacceptable conditions are corrected.

Clean surfaces thoroughly prior to installation. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions. Inspect all parts to ensure no damaged parts are used.

METHODS

Position base units where needed. Place the rail sections into the base and secure with locking pins. To guard against materials sliding underneath the bottom rails and falling onto people or equipment below, insert wood 2" x 4" (51 x 102 mm) toeboards or steel Speed Boards into the base toeboard bracket and secure with locking pins.

Repair or replace any damaged components. Protect installed products until the project is complete.

BUILDING CODES

Installation must comply with the requirements of all applicable local, state and federal code jurisdictions.

6. Availability & Cost

AVAILABILITY

Railguard 200 systems are available from certified distributors. Contact manufacturer for information on local availability.

COST

Contact a Garlock Equipment representative for detailed pricing information.

7. Warranty

Complete warranty terms and conditions are available from the manufacturer. For details, consult Garlock Equipment.

8. Maintenance

No routine maintenance is required. However, damaged or worn parts must be replaced immediately.

9. Technical Services

Technical assistance, including more detailed information, product literature, project lists and assistance in preparing project specifications, is available by contacting Garlock Equipment.

10. Filing Systems

- First Source CAD
- Additional product information is available from the manufacturer upon request.



Permanent sidewall mounting bracket with quick-release pins for rail section removal



Permanent floor mount bracket with quick-release pins for rail section removal



Permanent floor mount bracket with set screws to allow rail section removal