



2525 Clark St. • Detroit, Mi 48209 • (313) 842-7290
www.idealshield.com

IDEAL SHIELD ROOF GUARD RAIL SYSTEM

ROOF ACCESSORIES

SECTION 00 77 20 or SECTION 07720

PART I GENERAL

Summary: Provide and install freestanding Ideal Shield Roof Rail Fall Protection System, including railings of plastic covered pipe or galvanized pipe and base plates.

Reference: [OSHA: Regulation 29 CFR 1910.23 \(e\) \(1\) ; \(e\) \(3\) \(iv\)](#), [OSHA Regulation 29 CFR 1910.502 \(b\) \(1\) - \(b\) \(14\)](#), all applicable state, local and regional codes.

Finish:

1. Pipe for handrails, mid-rails, and uprights to be either be plastic covered or galvanized. Connection fittings are to be aluminum-magnesium 535, Speed-Rail®.
2. Base plates to be finished with cold galvanizing compound.

Design Requirements:

1. Railing shall consist of top rails, mid rails, uprights, base plates and connections.
2. All pipe connections to be aluminum Speed-Rail® fittings.
3. Fittings shall be fastened to the pipe by means of an internal/external knurl point screw. Other fasteners including pop-rivets, epoxies and plain cup screws are not acceptable.
4. Railing assembly shall be capable of withstanding a load of at least 200 pounds applied in any direction at any point on the top rail. Test in accordance with [OSHA Regulation 29 CFR 1910.23 \(e\) \(1\) ; \(e\) \(3\) \(iv\)](#).

Submittals:

1. Shop drawings: Shall be standard drawings detailing profiles, sizes, fittings, and base plate dimensions.

Field Measurements:

1. Verify field measurements prior to ordering.

PART II PRODUCTS

Manufacturer:

Ideal Shield LLC 2525 Clark Street Detroit MI 48209, Inc. PH: 888-308-7290 or
www.idealshield.com

Components:

1. Horizontal rails: ASTM A53 1-1/4 inch schedule 40 rails with thermoplastic sleeve
2. Posts: 1-1/4 inch schedule 80 pipe with thermoplastic sleeve or galvanized 1 1/2" schedule 80 pipe.

3. Speed-Rail® fittings (Elbows, Cross, Splices Tees, Couplings): aluminum 535
4. Mounting Bases: Steel plate coated with cold galvanizing compound.

Assembly:

1. Rail can be assembled in field or shop fabricated to greatest degree possible.
2. Posts shall have fittings factory installed.
3. Erection drawings provided.

PART III EXECUTION

Installation:

1. For all Speed-Rail® fittings, each set screw is to be tightened until snug.
2. Placement of uprights to meet manufacturer specifications as shown in the Erection Drawings.

Schedules:

1. Freestanding Ideal Shield roof guardrail system with 42" nominal height to provide a pedestrian egress barrier on the roof which withstands a minimum load of 200 lbs. in any direction applied to the top rail per [OSHA: Regulation 29 CFR 1910.23 \(e\) \(1\) ; \(e\) \(3\) \(iv\), OSHA Regulation 29 CFR 1910.502 \(b\) \(1\) - \(b\) \(14\)](#).

Contact USA:

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