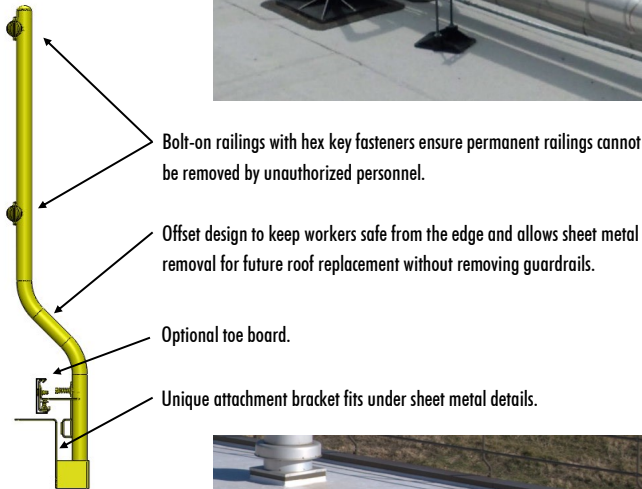


The USM Guardrail provides permanent full-perimeter fall protection with a unique design that allows 100% water-tight installation under standard roofing and sheet metal details including coping caps, drip edges, gravel stops and even inside most commercial gutters without penetrating the roof membrane. Zero Penetration attachment under standard perimeter edge details allows full access to the entire roof surface, wall flashings and sheet metal. USM Guardrail can be installed prior to roof construction and even left in place during complete roof replacement. Powder coated steel colors available to match Kynar® sheet metal or other building components and RAL colors.



KEY FEATURES

- Permanent fall protection
- Easy to install
- “Zero Penetration” attachment
- 100% water-tight installation
- Installs under standard roofing & sheet metal details
- Allows for complete access to the entire roof surface and wall flashings
- Eliminates the need for pitch pans
- Can be installed prior to roof construction
- Can be left in place during complete roof replacement
- Custom colors to match building components
- Powder coat or Hot-Dipped Galvanized finish
- Made in the U.S.A.
- Meets and Exceeds

- OSHA 29 CFR 1926.501
- OSHA 29 CFR 1926.502
- OSHA 29 CFR 1910.29
- Cal-OSHA §1620
- Cal-OSHA §1621
- Cal-OSHA §3209
- Cal-OSHA §3212
- ICC Building Codes
- ANSI/ASEE A1264.1-2007
- USACE EM 385-1-1 (21.E.01 a-c)

- Patent 9.920,543 B2

Product Name: USM Guardrail

Product Description: USM Guardrail provides permanent full-perimeter fall protection, installing under standard roofing and sheet metal details including coping caps, drip edges, gravel stops and inside most commercial gutters. USM Guardrails can be installed prior to roof construction and left in place during complete roof replacement, allowing full access to the entire roof surface, wall flashings and sheet metal. Powder coated steel colors available to match Kynar sheet metal or other building components and RAL colors.

Applications: The USM Guardrail provides perimeter fall protection for low-slope roofs.

Installation: USM Guardrail can be installed on both new and existing roof edge perimeters without penetrating the roof membrane and mounted under the outside perimeter sheet metal detail.

New Construction: Coping caps, gravel stops, drip edges and most commercial gutters.

Retrofit: Coping Caps, gravel stops, drip edges and commercial gutter retrofit is recommended during roof replacement, however, can be retrofit with existing perimeter roof details.

Materials:

Uprights: 1.66" x .140" schedule 40 pipe (ASTM A53) welded to 2" x 3" x 3.5" steel block (ASTM A36) and 3/16" steel plate (ASTM A36) bracket with pre-punched holes and slots for permanent structural attachment.

Horizontal Rails: 1.625" x .065" and 1.375" x .065" (ASTM C1008/1010) steel tube adjustable slide rails.

Finish: Powder coated steel or Hot-Dipped Galvanized to ASTM A123.

Colors: Numerous colors to match Kynar® sheet metal, building components and RAL colors.

Hardware: 3/8"-16 x 1" zinc plated steel. *(Consult LES for approved structural attachment fasteners)*

Labels: Applicable safety warnings and manufacturer's contact information.

Sizes: **Uprights:** Custom designed per project to OSHA Standards and IBC code requirements.

Horizontal Rails: 8'-0" o.c.; 120" to 70", 70" to 43", 43" to 29" Adjustable

Corners: 20.5" o.c. Outside Corner; 12.5" o.c. Inside Corner

Weight: **Uprights:** 12 lbs +/-

Horizontal Rails: 1 lbs / lineal foot +/-

Corners: 2 lbs +/-

Standards: Meets and exceeds OSHA Standard 29 CFR 1926.501, 1926.502, 1910.29, Cal-OSHA §1620, §1621, §3209, §3210, ICC 2012 Codes, ANSI/ASEE A1264.1-2007, and USACE EM 385-1-1 (21.E.01 a-c)

Warranty: 1 year manufacturer's limited warranty covering manufacturing defects.

Country of Origin: United States of America

AutoCAD details and specifications available at www.LeadingEdgeSafety.net