

# SPECIFICATION DATA

## USM-IBC Guardrail

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The USM-IBC Guardrail provides permanent full perimeter fall protection with a unique design that allows 100% water tight installation. This includes 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 allow full access to the entire roof surface, wall flashings and sheet metal. USM-IBC 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**
- “Zero Penetration” attachment
  - 100% water tight installation
  - Installs under standard roofing & sheet metal details
  - Allows for complete access to the entire roof surface and flashings
  - Eliminates the need for pitch pans
  - Can be installed before construction or left in place during construction
  - Compliant; see below

<b>Installation</b>	The USM-IBC 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, it can be retrofitted with existing perimeter roof details.
<b>Materials</b>	Uprights:	1.66" x 0.140" schedule 40 pipe (ASTM A53) welded to 2"x3" x 3.5" steel block (ASTM A36) bracket with pre-punched holes and slots for permanent structural attachment
	Horizontal Rails	1.625" x 0.065" and 1.375" x 0.065" (ASTM C1008/1010) steel tube adjustable slide rails.
	Hardware	3/8"-16 x 1" zinc plated fasteners.
<b>Sizes</b>	Uprights	Custom designed to OSHA standards
	Horizontal Rails	8'-0 o.c.; 120" to 170", 70" to 43" 43" to 29" adjustable
	Corners	20.5" o.c. outside corner; 12.5" o.c. inside corner
<b>Weight</b>	Uprights	12 LBS +/-
	Horizontal Rails	1 LBS / lineal foot +/-
	Corners	2 LBS +/-
<b>Standards</b>	Meets and exceeds OSHA standard CFR 29 1910.501, 29 1910.502, 20.1910.23 CAL-OSHA §1620,, CAL-OSHA §1621, CAL-OSHA §3209, CAL-OSHA §3210, ANSI/ASSE A1264.1-2007, USACE EM 385-1-1 (21.E.01 a-c)	
<b>Warranty</b>	Manufactures limited warranty covers any defects from 1 year of purchase date	

**AutoCAD details and specifications available at [leadingedgesafety.net](http://leadingedgesafety.net)**