SafePro® SAFETY PRODUCTS

TECHNICAL DATA SHEET

Ballasted Component Guardrail

Description

The Ballasted Component Guardrail System provides a durable, non-penetrating rooftop fall protection solution for rooftop leading-edge and hazard protection applications, combining modular installation, architectural flexibility, and OSHA-compliant passive fall protection.

Typical Applications

- Rooftop leading-edge protection
- Equipment exclusion zones
- Maintenance access paths
- Hazard guarding
- Skylight protection
- Roof hatch corrals

Configuration Options

Vertical Post

Traditional straight-post configuration for rooftop guardrail installations.

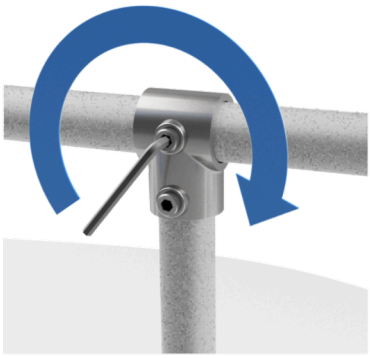
Contoured Post

Architecturally-preferred post design providing a reduced visual footprint while maintaining compliant rail heights.

System Components

Galvanized Fittings

Modular galvanized fittings secured with mechanical set screws for quick and easy installation.



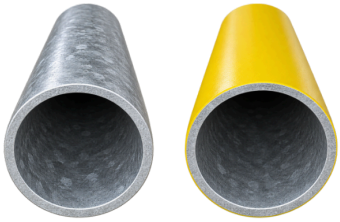
Steel Tubular Railing and Posts

Materials

- 1.66" OD x 0.140" wall (1-1/4" Sch 40 NPS)
- Fy,min = 42 KSI
- Design Weight: 2.27 lb/ft
- Also available in 1-1/2" Schedule 40

Available Finishes

- Galvanized
- Safety Yellow Powder Coat/Galvanized
- Custom colors available upon request



Counterweighted Base

Materials

- Galvanized cast iron
- Optional UV-resistant rubber protection pads

Specifications

- Weight: 84 lb
- Base contact area: 94.72 in^2
- Base bearing pressure: 0.89 PSI

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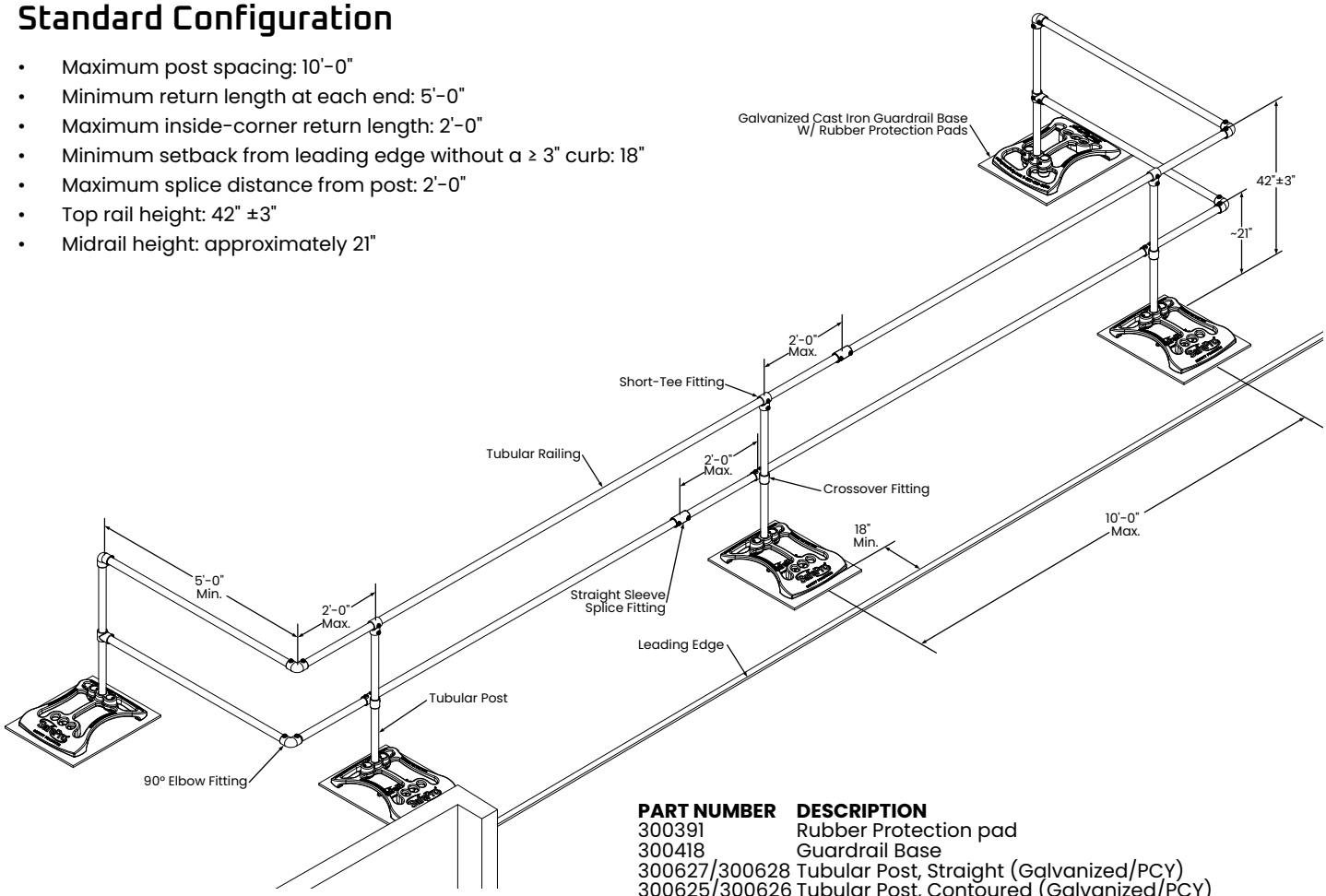
Ballasted Component Guardrail

Standard Configuration

- Maximum post spacing: 10'-0"
- Minimum return length at each end: 5'-0"
- Maximum inside-corner return length: 2'-0"
- Minimum setback from leading edge without a ≥ 3" curb: 18"
- Maximum splice distance from post: 2'-0"
- Top rail height: 42" ±3"
- Midrail height: approximately 21"



PART NUMBER	DESCRIPTION
300391	Rubber Protection pad
300418	Guardrail Base
300627/300628	Tubular Post, Straight (Galvanized/PCY)
300625/300626	Tubular Post, Contoured (Galvanized/PCY)
300633/300634	Tubular Railing, Mid and top, 21' (Galvanized/PCY)
300635/300636	Tubular Railing, Mid and top, 10.5' (Galvanized/PCY)
1507874	Straight Sleeve Splice Fitting
1507524	Crossover Fitting
1507508	Short-Tee Fitting
1507507	90° Elbow Fitting

Use & Compliance

Guardrail Performance	OSHA 29 CFR 1910.29(b) and 1926.502(b): 42 in ± 3 in top rail, intermediate protection, and resistance to a 200 lb concentrated load when installed to published layout requirements.
Wind Design Basis	Engineered for ASCE 7-22 ultimate wind loads. Baseline standard configuration: 100 mph Vult for Risk Category II, Exposure B, TPO/PVC roof ≤30 ft. Higher wind-speed ratings may be achieved under site-specific parameters, or with a combination of reduced base spacing and/or intermediate outriggers, up to 150 mph system maximum.
Application Limits	For non-public maintenance/service areas with occupant load ≤50. Published performance applies to roof slope ≤1:12 toward the protected edge. Qualification addresses the freestanding product configuration, not the supporting roof structure.

Refer to installation instructions for additional requirements