

Security and protection

FREESTANDING SAFETY GUARDRAIL SYSTEM

Configuration 27' (8.23 m)



Configuration 18' (5.49 m)



Configuration 9' (2.74 m)



The Millenium freestanding guardrail system stands out for its great versatility. Custom configuration is possible according to your needs. Our standard dimensions, which are pre-approved by an engineer, allow for a safe and quick installation.

In addition, all our systems comply with the requirements of the National Building Code of Canada and the standards of the various provincial codes for protection against falls from heights.

RECOMMENDED USE

- Roof guardrail systems
- Roof hatch guardrails
- Protection for rooftop access ladders
- Skylight guardrails.

ADVANTAGES

- Fully modular system according to your needs
- Height of 42 inches with a possibility to adjust to a lower or higher height
- Standard railings of 9, 18 and 27 feet pre-approved by engineers
- Durable and robust, requires no maintenance
- White, natural aluminum or painted according to our colour range
- Bases take up little room on the roof
- Possible installation in restricted areas
- Non-penetrating system
- Easy set up on all types of flat and low-sloped roofs

STANDARDS

Millenium freestanding guardrail system are designed to withstand loads in the vertical and horizontal directions, in accordance with the following standards:

1. CNBC section 4.1.5.14. and 9.8.8.2 Loads on Guardrails
2. RROHS chapter S-2.1, r. 13, section 12 Guardrail
3. CSA S269.2 sections 6.6.1 and 6.6.2

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ASSEMBLY PARTS

Cast aluminium 535 clamps fittings according to the properties in the table below with threaded holes and stainless steel set screw.

- **Elbows:** 45° or 90° clamps fittings
- **Tees:** linear clamps fittings, "T" or "Y" clamps fittings,
- **Flanges:** Wall brackets parts receiving the crossbar tube.

Physical Properties	Metric	English
Density	2.57 g/cc	0.0928 lb/in ³

Component Elements Properties	Metric	English
Aluminum, Al	91.4 - 93.3 %	91.4 - 93.3 %
Copper, Cu	<= 0.10 %	<= 0.10 %
Iron, Fe	<= 0.15 %	<= 0.15 %
Magnesium, Mg	6.6 - 7.5 %	6.6 - 7.5 %
Manganese, Mn	0.10 - 0.25 %	0.10 - 0.25 %
Other, each	<= 0.05 %	<= 0.05 %
Other, total	<= 0.15 %	<= 0.15 %
Silicon, Si	<= 0.20 %	<= 0.20 %
Titanium, Ti	<= 0.25 %	<= 0.25 %

STRUCTURAL PARTS

- **Posts and railings :** Aluminum tube 6061-T6 of 48mm (1.9") diameter with plastic caps for the end of the tubes.
- **Stackable bases :** Ballast plates of 18.91 kg (41.7 lbs) each dimension 305 mm x 406 mm (12" x 16") made of cast iron according to ASTM A-48 class 30 including a 12 mm (1/2") thick mat for the protection of the roofing system.