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Tactical Safety for Access & Falls

Product datasheet

ROOF & AREA PROTECTION

Aluminium Barricade System

The TsaF Aluminium Barricade System is a collective fall protection guardrail that creates a permanent safety barrier along roof edges, open sides and high-risk zones. It protects everyone on the roof without a harness, training or any action from the worker.

1050 mm

Upright post height

2050 mm

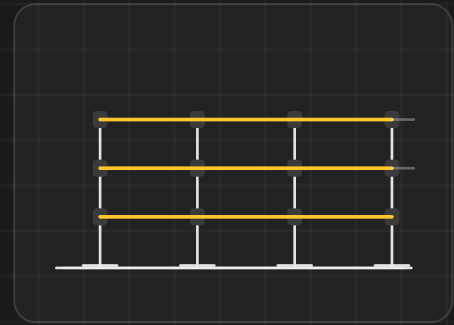
Maximum spacing between upright posts

Ø36 mm

Aluminium barricade tube, 2.0 mm wall

BS EN 13374:2018

ISO 14122-3:2016



Overview

Edge protection that stops falls before they happen

Unprotected roof edges and open sides are among the most common fall hazards on industrial buildings. Personal protective equipment helps, but it depends on every worker wearing a harness, connecting correctly and staying connected. A guardrail removes that dependence: it protects everyone on the roof, including occasional visitors and contractors, with no training or action needed from the person it protects. The TsaF Aluminium Barricade System is the aluminium tube-and-clamp guardrail at the heart of many rooftop barricade layouts.

How the system is built

Every component is engineered to fit the others. Upright posts in aluminium alloy 6063-T6, 1050 mm high, are installed at a maximum spacing of 2050 mm. They carry Ø36 mm aluminium barricade tubes with a 2.0 mm wall, fitted as 2, 3 or 4 horizontal rails depending on the design. Tubes are fixed to the posts with ADC12 aluminium alloy tube clamps, which allow the tube position to be adjusted.

Connectors and terminations

- **Linear connectors** join tubes for a continuous, straight barricade run.
- **Corner connectors** change direction with an angular adjustment range of 0 to 315°, so the barrier follows variable rooftop geometries.
- **Wall connectors** provide a door entry connection and close runs against the building.
- **Tube end caps** close exposed tube ends for protection and a finished appearance, and **tube end seals** seal tube ends and joints.

Because it is aluminium, the system is light to transport and install, gentle on roof structures and corrosion-resistant for long outdoor service with minimal upkeep. Pre-engineered components keep time on the roof short, and the continuous rail gives a clear visual boundary that marks safe working zones at a glance.

Where it is used

- **Roof edges and parapets** on industrial sheds, warehouses, factories and commercial buildings.
- **Rooftop equipment zones** around HVAC units, solar panels, chillers and exhaust fans that need routine maintenance.
- **Open sides and platforms** including mezzanines, elevated walkways, loading docks and plant platforms.
- **Access points** around roof hatches, ladder exits and skylights.

For indoor areas, machinery and floor openings, the modular safety barrier system may suit better. Where a barrier is not practical along the full route, a horizontal lifeline provides personal protection, and a skylight protection system covers fragile roof lights.

Why TsaF

The Aluminium Barricade System is designed in accordance with BS EN 13374:2018 and ISO 14122-3:2016. TsaF handles the complete life-cycle: site assessment, system design, in-house manufacturing in Jewar, installation by certified technicians, training, and inspection under the Annual Maintenance Check, which covers posts, rails, clamps, fixings and alignment and issues an annual inspection report. Request a site assessment to plan aluminium edge protection for your roof.

System types

2-rail configuration

Two horizontal Ø36 mm aluminium tubes on 1050 mm upright posts, for straightforward roof-edge runs.

3-rail configuration

Three horizontal tubes for locations where the design specifies a smaller gap between rails.

4-rail configuration

Four horizontal tubes for locations where the design calls for the closest rail spacing.

Corner and direction changes

BARR-CC315 corner connectors adjustable from 0 to 315° let the barricade follow variable rooftop geometries.

Wall and door terminations

BARR-WC165 wall connectors give a door entry connection and close runs neatly against walls and parapets.

How it works

01 Upright posts — BARR-UP1050 posts in 6063-T6 aluminium, 1050 mm high, are installed at a maximum spacing of 2050 mm.

02 Barricade tubes — BARR-BT36 tubes, Ø36 mm with a 2.0 mm wall, form the 2, 3 or 4 horizontal rails.

- 03 Tube clamps** — BARR-TC clamps in ADC12 aluminium alloy connect each tube to the upright, with an adjustable tube position.
- 04 Linear and corner connectors** — BARR-LC120 connectors make continuous straight runs, and BARR-CC315 connectors change direction from 0 to 315°.
- 05 Wall connectors** — BARR-WC165 connectors provide a door entry connection and terminate runs at walls.
- 06 End caps and seals** — BARR-TEC36 plastic end caps close exposed tube ends, and BARR-TES450 seals finish tube ends and joints.

Benefits

Collective protection

Protects every person on the roof, with no harness or anchor connection needed.

Lightweight aluminium

Easy to transport and install, and gentle on roof structures.

Corrosion-resistant

6063-T6 aluminium built for long life outdoors with minimal maintenance.

Modular design

Adapts to corners, slopes and changes in roof layout.

Quick installation

Pre-engineered components keep time on site short.

Clear visual boundary

Marks safe working zones at a glance.

Components & specifications

SKU	Component	Key specifications
TSAF-BARR-UP1050	Upright Post	Material: Aluminium Alloy 6063-T6 · Height: 1050 mm · Max. Spacing b/w Upright Posts: 2050 mm · Available configurations include: 2,3,4 horizontal tubes
TSAF-BARR-TC	Tube Clamp	Material: ADC12 Aluminium Alloy · Component: Tube Clamp · Compatible Tube Diameter: Ø36 mm · Connection Type: Tube-to-Upright Connection · Tube Position: Adjustable
TSAF-BARR-BT36	Barricade Tube	Material: Aluminium Alloy 6063-T6 · Component: Barricade Tube · Outside Diameter: 36 mm · Wall Thickness: 2.0 mm · Function: Horizontal Barrier Element
TSAF-BARR-LC120	Linear Connector	Material: Aluminium Alloy 6063-T6 · Application: Straight-Line Tube Connection · Compatible Tube Diameter: Ø36 mm · Function: Continuous Straight Barricade Run
TSAF-BARR-CC315	Corner Connector	Material: Aluminium Alloy 6063-T6 · Application: Barricade Direction Change · Angular Adjustment Range: 0°-315° · Compatible Tube Diameter: Ø36 mm · Layout Compatibility: Variable Rooftop Geometries

SKU	Component	Key specifications
TSAF-BARR-WC165	Wall Connector	Material: Aluminium Alloy 6063-T6 · Application: Door Entry Connection · Compatible Tube Diameter: Ø36 mm
TSAF-BARR-TEC36	Tube End Cap	Material: Plastic · Compatible Tube Diameter: Ø36 mm · Application: Exposed Tube End Closing · Function: Tube End Protection and Finished Appearance
TSAF-BARR-TES450	Tube End Seal	Material: Aluminium Alloy 6063-T6 · Application: Tube-End / Joint Sealing · Component: Tube End Seal · Function: Barricade System Tube Sealing Arrangement

Applications

- Roof edges and parapets on sheds, warehouses and factories
- Zones around HVAC units, solar panels, chillers and exhaust fans
- Mezzanines and elevated walkways
- Loading docks and plant platforms
- Around roof hatches, ladder exits and skylights
- Commercial building roofs

Standards & specifications. Designed in accordance with BS EN 13374:2018, ISO 14122-3:2016. Specifications are indicative and may vary with configuration. Final layouts, loads and applicable standards are confirmed by TsaF engineering for each project. Subject to technical changes.

Plan your aluminium barricade system with TsaF

Site assessment · System design · In-house manufacturing · Installation · Training · Annual Maintenance Check

We don't just install your safety system. We stand on the roof with you.

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