



A PART OF MT&T GROUP

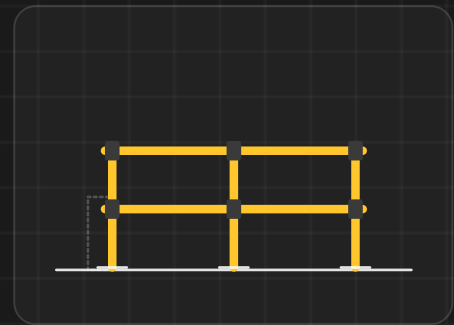
Tactical Safety for Access & Falls

Product datasheet

ROOF & AREA PROTECTION

Modular Safety Barrier System

The TsaF Modular Safety Barrier System is a robust, practical collective fall protection solution that creates a clearly defined barrier around edges and high-risk areas. Key-clamp fittings assemble without welding, bending or threading, so barriers can be built to fit almost any layout.



Free-standing · Fixed

Installation options

0

Welding, bending or threading on site

HDG

Hot-dip galvanised key-clamp fittings

EN 13374:2018

ISO 14122-3:2016

OSHA 1910.29(f)

Overview

Edges and openings are everywhere on a working site

Falls do not only happen at the roof edge. Mezzanine edges, pits and floor openings, raised platforms and areas around machinery all expose people to falls and to moving equipment. These hazards change as layouts change, so the barrier protecting them needs to be strong, clearly visible and easy to reconfigure.

How the TsaF modular barrier works

The TsaF Modular Safety Barrier System, also called TsaF Advanced Modular Edge Protection, is a collective fall protection system built from tubes joined by hot-dip galvanised key-clamp fittings, finished in high-visibility yellow. Because the fittings clamp onto the tube, the system needs no welding, bending or threading, which makes installation fast and lets the barrier be extended or reconfigured later.

Key components

- **Straight couplings** (T602) to join tubes end to end.
- **Base brackets and railing base flanges** (T612) to fix uprights to the floor or roof.
- **Handrail crossovers** (T620) and **corner sockets** (T621) for junctions and corners.
- **Rail supports and toe-board clamps** (T624) to fit intermediate rails and toe boards.
- **Plastic pipe end caps** (T615) for safe, finished ends.

Free-standing or fixed

Choose free-standing or fixed guardrails to suit the site. On metal roofs, the barrier accommodates both trapezoidal and standing seam profiles and can be fixed with self-sealing rivets or non-penetrating clamps, helping maintain the integrity of the roof surface.

Where modular barriers are used

Typical uses include roof perimeters and access zones, machine guarding, pits and floor openings, mezzanine edges and pedestrian and vehicle segregation in plants and warehouses. By separating personnel from fall hazards, the barrier allows workers to move freely within the protected area without personal tie-off, where the application permits. For long rooftop edge runs, compare the lighter aluminium barricade system, or see how both fit into a rooftop barricade layout; for skylights use the skylight protection system; and where barriers cannot cover the route, add a horizontal lifeline.

Why TsaF

The modular barrier is designed in accordance with EN 13374:2018, ISO 14122-3:2016 and OSHA 1910.29(f). TsaF surveys each area, designs the layout and fixings, supplies components and installs with trained professionals. Our Annual Maintenance Check inspects posts, rails, toe boards, clamps and fixings each year. Request a site assessment to plan barriers for your site.

System types

Free-standing guardrail

Barrier that stands on the surface without penetrating it, for roofs and areas where drilling is not wanted.

Fixed guardrail

Uprights fixed with base brackets and railing base flanges for permanent edge protection.

Roof-edge barrier

Fixed to trapezoidal or standing seam roofs with self-sealing rivets or non-penetrating clamps.

Machine guarding and segregation

Enclosures around machinery and barriers separating pedestrians from vehicles in plants and warehouses.

Barrier with toe boards

Rail supports and toe-board clamps add toe boards where objects could fall from the edge.

How it works

01 Survey and layout — TsaF maps edges, openings and traffic routes and designs the barrier layout for each area.

02 Bases — Uprights sit on free-standing bases or are fixed with base brackets and railing base flanges.

03 Key-clamp fittings — Hot-dip galvanised couplings, crossovers and corner sockets clamp onto the tubes with no welding.

04 Rails and toe boards — Top and intermediate rails and, where required, toe boards are fitted with rail supports and clamps.

Benefits

Collective protection

Protects everyone in the area without relying on personal equipment.

No hot work

Requires no welding, bending or threading, so installation is quick and clean.

Reconfigurable

Clamp fittings let the barrier be extended or moved as layouts change.

Free-standing or fixed

Choose the installation method that suits each area and surface.

Highly visible

Yellow finish clearly marks hazards and safe zones.

Low upkeep

Galvanised fittings need very little maintenance over the years.

Components & specifications

SKU	Component	Key specifications
T602	Straight Coupling	Material: MS · Finish: Hot-Dip Galvanized · Function: Linear/in-line pipe connection
T612	Base Bracket / Railing Base Flange	Material: MS · Finish: Hot-Dip Galvanized · Function: Base connection for the upright
T615	Pipe End Cap	Material: Engineering plastic · Finish/Colour: As specified · Function: Closure of open rail pipe ends
T620	Handrail Crossover Connector	Material: MS · Finish: Hot-Dip Galvanized · Function: Perpendicular/non-linear connection
T621	Corner Socket	Material: MS · Finish: Hot-Dip Galvanized · Function: Corner/change-of-direction connection
T624	Rail Support / Toe Board Clamp	Material: MS · Finish: Hot-Dip Galvanized · Function: Rail/toe-board support

Applications

Roof perimeters and roof access zones

Mezzanine edges

Pits and floor openings

Machine guarding

Pedestrian and vehicle segregation

Raised platforms and maintenance areas

Standards & specifications. Designed in accordance with EN 13374:2018, ISO 14122-3:2016, OSHA 1910.29(f). 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 modular safety barrier 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.



Phone +91 99587 88970

Sales sales@tsafsafety.com

Web tsafsafety.com

Plot No. 69, Jewar Banger, Sector 32, Yamuna
Expressway Industrial Development Area, Gautam
Buddha Nagar, Uttar Pradesh – 203135