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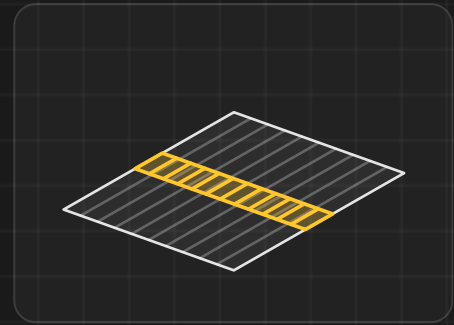
Tactical Safety for Access & Falls

Product datasheet

ROOFTOP ACCESS

Aluminium & FRP Walkway System

The TsaF Safety Plus walkway gives maintenance teams a stable, slip-resistant path across metal roofs to the plant they need to reach. Modular aluminium and FRP sections assemble without welding and can be installed penetration-free on compatible roof profiles.



2000 mm

Standard walkway module length

600 mm

Clear walking width (760 mm overall)

R11

Slip-resistance rating of the grating

EN 516

DIN 4426

R11 slip rating

Overview

Why roofs need defined walking routes

Metal roof sheets are not designed to be walked on everywhere. Ribs, fasteners, wet surfaces, fragile roof lights and pipework make every unplanned route a slip, trip and fall-through risk, and repeated foot traffic damages the sheets themselves. A walkway gives maintenance and inspection teams a clear, stable route from the access point to the plant, and keeps them off the parts of the roof they should not be on.

The TsaF Safety Plus walkway system

TsaF walkways are built from precision-engineered aluminium extrusions and components that are assembled and locked with fasteners and a patented locking system. The modular design allows almost any configuration without welding or specialised tools. A typical module is 2000 mm long with a 600 mm clear walking width (760 mm overall), and custom widths are available to suit different roofs.

The grating has an R11 slip-resistance rating for better grip in wet conditions, and additional treads can be added where needed. Adjustable supports accommodate varying roof pitches, and a specially engineered fastening arrangement allows secure, penetration-free installation on compatible profiled roofing.

Surface options

Choose from chequered, perforated, grille, ladder-rung, serrated and T-profile aluminium surfaces, or FRP grating where chemical resistance or a non-metallic surface is preferred. The system can also be retrofitted to replace existing steel or GRP walkways and railings.

Low-pitch roofs

For roof pitches below 3°, the walkway can be laid across the fall of the roof. It is fixed with a high-bond adhesive pad and a Bulb-Tite rivet through the pad and roof sheet, and the joining channels are fixed with self-drilling screws tightened to 6 Nm so that each section can accommodate thermal expansion.

Part of a complete rooftop plan

A walkway works best alongside other systems. Pair it with a horizontal lifeline where the route runs near an edge, a rooftop barricade for collective edge protection, and a skylight protection system where the route passes roof lights. A Flowlok ladder or aluminium cage ladder, with a vertical lifeline, secures the climb to the roof.

Why TsaF

The walkway is designed in accordance with the relevant requirements of EN 516 and DIN 4426. TsaF surveys the roof, plans routes to every item of plant, manufactures sections in Jewar and installs with certified technicians. Our Annual Maintenance Check then inspects sections, joints, fixings and the slip-resistant surface every year. Request a site assessment to plan walkways for your roof.

System types

Chequered and serrated aluminium

Solid or slotted aluminium surfaces with a raised pattern for grip on routine maintenance routes.

Perforated and grille aluminium

Open surfaces that let water and debris drain through, keeping the walking surface clearer in the monsoon.

Ladder-rung and T-profile aluminium

Open bar-type sections that keep weight low and are suited to sloped routes.

FRP grating

Fibre-reinforced plastic grating for areas where a non-metallic or chemical-resistant surface is preferred.

Across-the-fall installation

For roof pitches below 3°, the walkway is laid across the fall with adhesive pads and Bulb-Tite rivets.

How it works

- 01 Route survey** — TsaF maps the routes from each access point to the plant and equipment that needs maintenance.
- 02 Roof attachment** — A specially engineered fastening arrangement fixes the walkway penetration-free on compatible profiled roofs.
- 03 Adjustable supports** — Supports accommodate varying roof pitches to keep the walking surface stable.
- 04 Modular sections** — 2000 mm aluminium or FRP modules are joined with fasteners and a patented locking system, with no welding.
- 05 Slip-resistant surface** — R11-rated grating gives grip in wet conditions, with additional treads where required.

Expansion joints — Joining channels are fixed to one section only so the walkway can move with thermal expansion.

Benefits

Defined routes

Clear paths for safer maintenance access and less damage to roof sheets.

Better grip in the wet

R11-rated slip-resistant grating reduces slip and trip hazards.

Weather and chemical resistance

Aluminium and FRP sections withstand harsh weather and chemical exposure.

Lighter than fabricated steel

Lightweight aluminium keeps added load on the roof low.

No welding on site

Modular sections assemble with fasteners and a locking system.

Retrofit-ready

Can replace existing steel or GRP walkways and railings.

Applications

Access routes to rooftop HVAC, fans and chillers

Rooftop solar panel maintenance

Gutter and drainage inspection

Routes past skylights and roof lights

Emergency access across rooftops

Replacement of corroded steel or GRP walkways

Standards & specifications. Designed in accordance with EN 516, DIN 4426, R11 slip rating. 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 & frp walkway 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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