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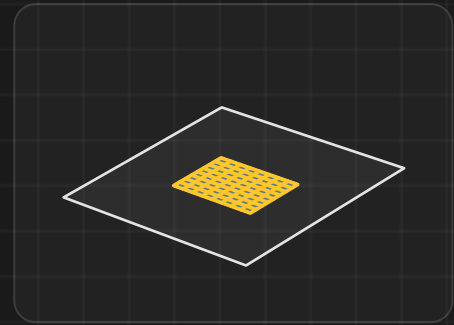
Tactical Safety for Access & Falls

Product datasheet

ROOF & AREA PROTECTION

Skylight Protection System

Skylights and translucent roof sheets look like part of the roof but are rarely designed to take a person's weight. The TsaF skylight mesh system covers roof lights with galvanised mesh panels, so maintenance can continue around them safely while daylight still reaches the floor below.



Ø3 mm

GI wire mesh

50 × 50 mm

Mesh aperture

625 · 1025 · 1225 mm

Panel widths

OSHA 1910.29

BS EN 1873

Overview

The hidden hazard on industrial roofs

Fragile skylights and polycarbonate or fibre roof lights are a serious fall-through hazard. They age and weaken in the sun, are often dirty enough to look like solid sheet, and sit right where workers walk to reach fans, gutters and plant. A person who steps or stumbles onto one can fall straight through to the floor below. Protecting skylights is one of the most important steps in making a working roof safe.

How the TsaF skylight mesh system works

The TsaF Skylight Mesh System covers each roof light with a panel of high-strength galvanised (GI) wire mesh, Ø3 mm wire at 50 × 50 mm spacing, carried on a mild steel angle frame of 32 × 32 × 3 mm with supports at 500 mm centres. The mesh securely covers the opening while allowing natural light to pass through, so the building keeps its daylight and the energy savings that come with it.

Panel types and sizes

Panels are available framed or as flat sheet, in widths of 625, 1025 and 1225 mm and lengths of 3006 and 2500 mm, with adjustable height to suit different roof light shapes and upstands. Hot-dip galvanised components help the system resist moisture and wear in outdoor conditions.

Fixing without damaging the roof

On standing seam roofs, the panels use a non-penetrating compression clamp, protecting the integrity of the roof sheet. On trapezoidal roofs, they are fixed with aluminium rivets and EPDM washers, with weatherproof adhesive tapes to prevent water leakage.

The catalogue states that the mesh is designed and tested to OSHA 1910.29 skylight screen requirements and to BS EN 1873, retaining a 50 kg mass dropped from 2.4 m. TsaF engineering will confirm the applicable test data for the

panel type and size proposed for your roof.

A complete approach to roof lights

Mesh protects the roof light itself. Around skylights that sit along busy routes, TsaF often adds a rooftop barricade or modular safety barrier, an aluminium walkway that keeps people off the sheets, and a horizontal lifeline for personal protection.

Why TsaF

TsaF has supplied skylight protection since 2010. We count and measure every roof light during the survey, manufacture panels to size in Jewar and install with certified technicians. The Annual Maintenance Check inspects mesh panels, fixings, frames and seals every year. Request a site assessment to have your skylights checked.

System types

Framed mesh panel (TSAF126)

GI mesh on a mild steel angle frame, for roof lights where a rigid, height-adjustable panel is needed.

Flat-sheet mesh panel

Flat GI mesh panel for roof lights that sit close to the roof profile.

Standing seam fixing

Non-penetrating compression clamps that grip the seam and protect the integrity of the roof sheet.

Trapezoidal roof fixing

Aluminium rivets with EPDM washers and weatherproof adhesive tapes to prevent water leakage.

How it works

- 01 Survey and measurement** — Every roof light is counted, measured and checked for shape, upstand and roof profile.
- 02 Mesh panel** — Ø3 mm GI wire mesh at 50 × 50 mm spacing covers the opening while letting daylight through.
- 03 Frame and supports** — A 32 × 32 × 3 mm mild steel angle frame with supports at 500 mm centres carries the mesh.
- 04 Height adjustment** — Adjustable height lets panels suit different roof light shapes and upstands.
- 05 Roof fixing** — Non-penetrating clamps on standing seam roofs, or aluminium rivets with EPDM washers on trapezoidal roofs.

Benefits

Fall-through protection

Mesh panels cover fragile roof lights along working routes.

Daylight retained

Open mesh lets natural light through, preserving illumination and energy efficiency.

Protects the roof

Non-penetrating clamps on standing seam roofs; sealed rivet fixings on trapezoidal roofs.

Weather-resistant

Hot-dip galvanised components resist moisture and wear.

Fits many roof lights

Three widths, two lengths and adjustable height suit different skylight shapes.

Made to size

Panels are manufactured in Jewar to the dimensions measured on your roof.

Applications

Polycarbonate and fibre roof lights on factory roofs

Skylights on warehouse and logistics buildings

Ridge ventilators and roof openings along walkways

Construction sites with open roof lights

Commercial buildings with rooftop skylights

Standards & specifications. Designed in accordance with OSHA 1910.29, BS EN 1873. 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 skylight protection 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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