

SAFETY HANDRAIL



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Safety Handrails for Solar Roofs

Handrails play a crucial role in ensuring safety and accessibility on solar rooftops. They provide a secure boundary for workers and maintenance personnel, preventing accidental falls and enhancing operational safety. Designed for durability and resistance to environmental conditions, handrails for solar roofs are available in different materials, each offering unique advantages.



KEY FEATURES

- **Safety & Fall Protection** – Prevents falls and ensures a secure work environment for maintenance crews.
- **Weather Resistance** – Designed to withstand harsh weather conditions, including high winds, UV exposure, and heavy rainfall.
- **Lightweight & Durable** – Constructed from high-strength materials to ensure longevity while keeping weight minimal.
- **Easy Installation & Maintenance** – Modular designs allow for quick and hassle-free installation, reducing labor costs.
- **Corrosion Resistance** – Materials like aluminum, galvanized steel, and FRP ensure longevity even in extreme conditions.
- **Non-Conductive Options** – Certain materials like FRP provide electrical insulation, reducing the risk of shocks in solar applications.





Types of Safety Handrails

1. Aluminum Handrails

- **Lightweight & High Strength** – Excellent strength-to-weight ratio, making them easy to handle and install.
- **Corrosion & Rust Resistant** – Naturally resistant to oxidation, ensuring longevity in outdoor environments.
- **Low Maintenance** – Requires minimal upkeep, as aluminum does not rust or degrade easily.
- **Aesthetic & Modern Design** – Sleek, polished finish that complements both commercial and residential solar installations.
- **Eco-Friendly & Recyclable** – Fully recyclable material, making it a sustainable choice for green energy projects.

2. GP Handrails

- **High Strength & Durability** – Made from galvanized steel, offering superior structural integrity and load-bearing capacity.
- **Cost-Effective & Widely Available** – More affordable than stainless steel or aluminum, making it budget-friendly.
- **Corrosion & Rust Protection** – Hot-dip galvanization provides a protective coating that prevents rust formation.
- **Robust & Impact Resistant** – Can withstand harsh weather conditions and physical impacts, ideal for long-term use.
- **Versatile Applications** – Suitable for industrial, commercial, and residential solar installations.

3. FRP Handrails

- **Non-Conductive & Electrically Safe** – Ideal for solar rooftops where electrical insulation is a priority.
- **Corrosion, Chemical, & UV Resistant** – Performs well in harsh environments, including coastal and high-humidity areas.
- **Lightweight & High Strength** – Easier to transport and install while still offering strong load-bearing capacity.
- **Maintenance-Free & Long-Lasting** – Does not rust, corrode, or require frequent upkeep, reducing lifecycle costs.
- **Customizable & Aesthetic** – Available in various colors and finishes, with the option for UV-resistant coatings for added longevity.



ALUMINIUM HANDRAIL



MADE FROM HIGH-STRENGTH ALUMINIUM



PROVIDES ENHANCED SAFETY MEASURES



PENETRATIVE SOLUTION



25-YEAR WARRANTY





Safety Hand Rail Aluminium For Trapezoidal Metal Roof

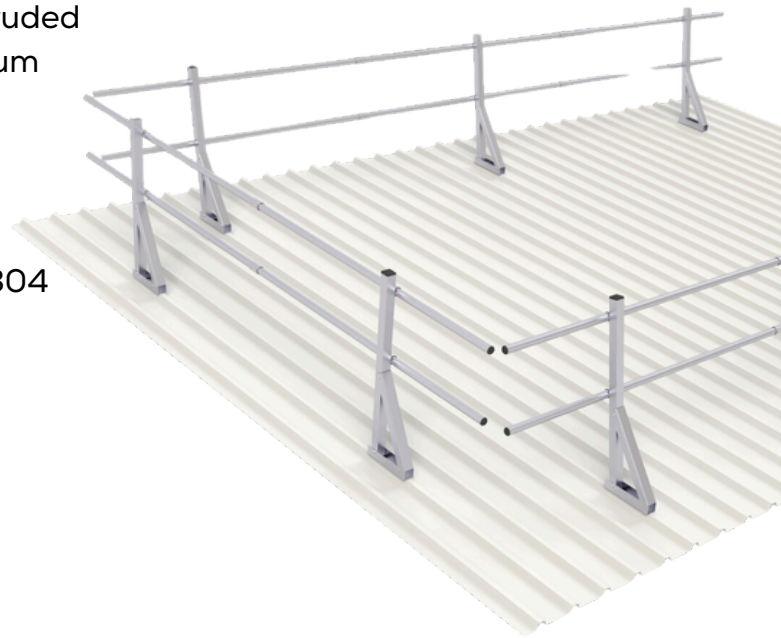
Enduring Safety Handrail Infrastructure Ensuring Optimal Safety Standards in Elevated Work Environments. The Safety Handrail System guarantees regulated entry to designated zones shielded by the enduring guardrail infrastructure.

MATERIALS

- Post assemblies, hand & profiles- extruded high grade structural (6063-T6) aluminium
- Pipe and Pipe Union - aluminium
- Self tapping screw - MS Epoxy coated
- Self Drilling screw - MS Epoxy coated
- Rivet: aluminium
- Allen bolt & Hex Nut & Plain washer- SS 304
- Saddle Clamp - GI
- End CAP - PP+ Glass +30 % UV

DIMENSIONS

- Base support - L300 mm
- Leg Profile T4 - L1000 mm
- Bracing - L500 mm
- Aluminium Pipe - L2200 mm



RELIABLE | INNOVATIVE



WORKING LOAD- 1200N



PREFABRICATED MODULAR DESIGN



DESIGNED AS PER IS 875



PENETRATIVE SOLUTION



OPTIMAL COST TO STRENGTH RATIO



CONSTRUCTED FROM HIGH-STRENGTH ALUMINUM



PROVIDES ENHANCED SAFETY MEASURES



25-YEAR WARRANTY



Provides enhanced safety measures, offering a comprehensive solution for working at elevated heights

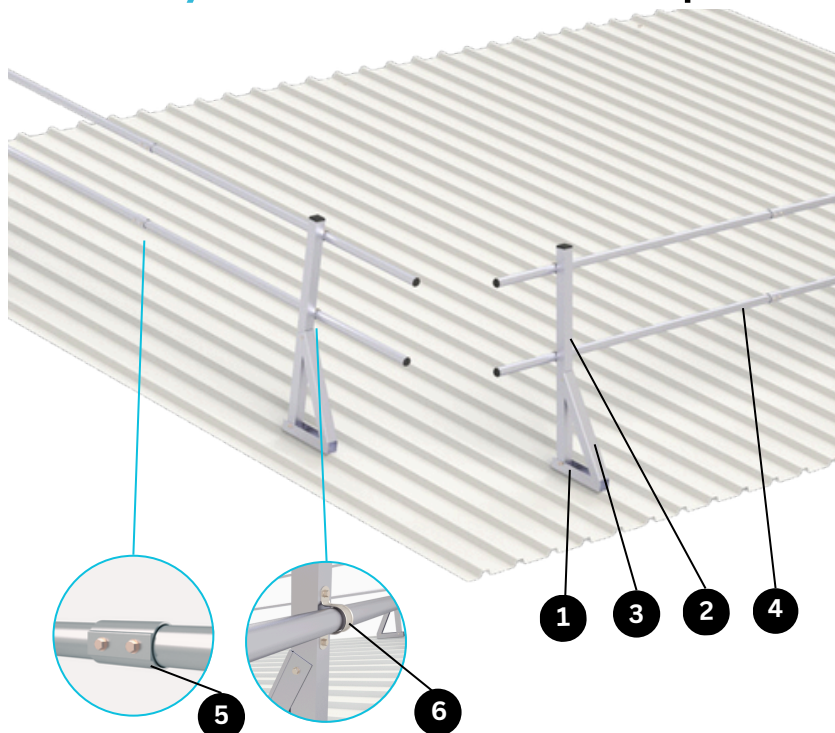
Prefabricated modular design facilitates swift and straightforward installation

Streamlined assembly with minimal components, reducing on-site labor requirements

Constructed from high-strength aluminum, combining durability with a lightweight, user-friendly design
Unobtrusive aesthetics, with an optional powder coating for seamless integration with the surroundings.

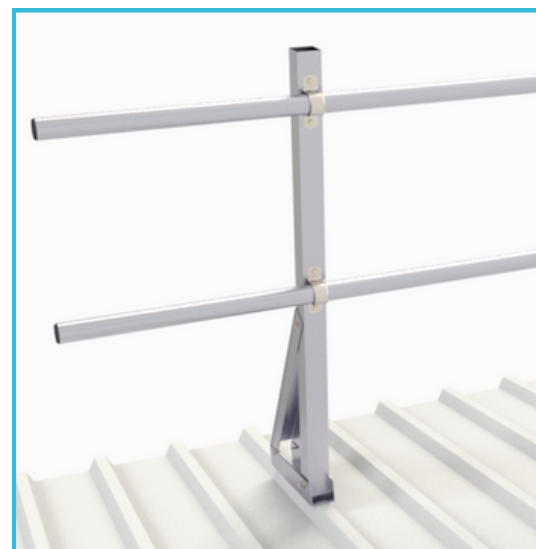
-  25 Years of Warranty
-  24X7 support
-  Competitive price and quality
-  Tested, safe & certified system
-  Smart Mounting System
-  Excellent quality/price ratio

Safety Hand Rail For Trapezoidal Metal Roof



- 1 BASE SUPPORT L300
- 2 LEG PROFILE T4 - L1000
- 3 BRACING L 500
- 4 AL PIPE L 2200
- 5 PIPE UNION
- 6 SADDLE CLAMP
- 7 END CAP
- 8 ALLEN BOLT & HEX NUT
- 9 SELF TAPPING & DRILLING SCREW
- 10 RIVET
- 11 PLAIN WASHER

*Also available with Toe-Guard on demand



GP HANDRAIL



ENHANCED SAFETY MEASURES



PENETRATIVE SOLUTION



STANDARD TOOL APPROACH



10-YEAR WARRANTY





SAFETY-HANDRAIL

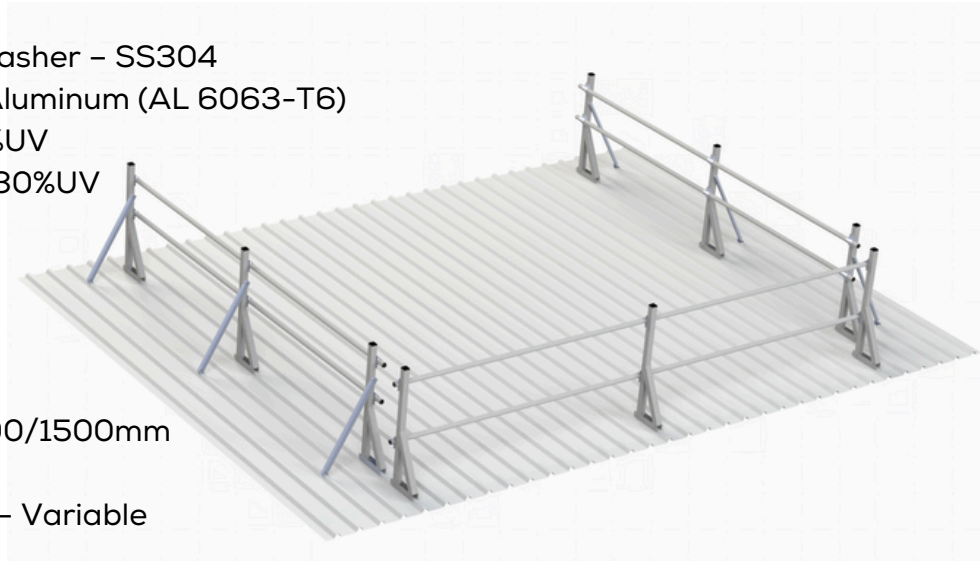
GP

Safety Hand Rail – For Trapezoidal Metal Roof

Enduring Safety Handrail Infrastructure Ensuring Optimal Safety Standards in Elevated Work Environments. The Safety Handrail System guarantees regulated entry to designated zones shielded by the enduring guardrail infrastructure.

MATERIAL -

- Post Assemblies Hand & profile (Vertical Support) – Pre make high Grade Structure (GP).
- Horizontal Support (Round Pipe) – Pre make high Grade Structure GP (Galvanized Plain).
- Self-Drilling Screw – MS Epoxy Coated
- Rivet – Aluminium
- Allen Bolt & hex Nut & Plain Washer – SS304
- Saddle Clamp / Connector – Aluminum (AL 6063-T6)
- End Cap (SQ) – PP+Glass+30%UV
- End Cap (Round) – PP+Glass+30%UV



DIMENSION -

- Base Support - L-300mm
- Vertical Support - L-500/1000/1500mm
- Bracing - L500/800mm
- Horizontal Pipe (Round Pipe) – Variable as per the Required.

RELIABLE | INNOVATIVE



WORKING LOAD 1200N



OPTIMAL COST TO STRENGTH RATIO



PREFABRICATED MODULAR DESIGN



STANDARD TOOL APPROACH



DESIGNED AS PER IS875



PROVIDES ENHANCED SAFETY MEASURES



PENETRATIVE SOLUTION



10-YEAR WARRANTY



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SRPL-GROUPTM
SOLAR RACKING & SERVICES

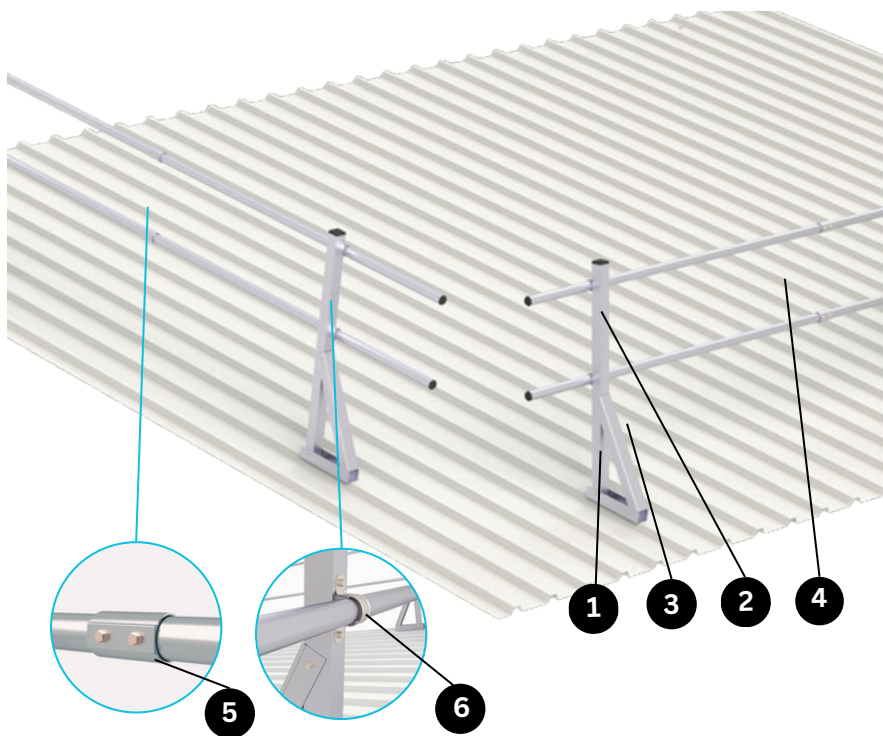
Provides enhanced safety measures, offering a comprehensive solution for working at elevated heights

Prefabricated Modular Design facilitates swift and Straightforward Installation
Streamlined Assembly with minimal Component Reducing on site labor Requirements

Constructed From high-Strength GP Combining Durability with a lightweight, User -friendly Design
Unobtrusive Aesthetics, With an optional powder Coating for Seamless integration with the Surroundings.

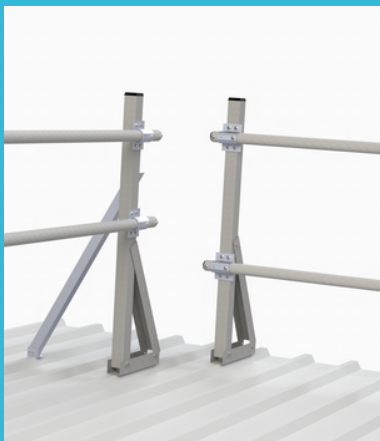
- 10 Years of Warranty
- 24X7 support
- Competitive price and quality
- Tested, safe & certified system
- Smart Mounting System
- Excellent quality/price ratio

Safety Hand Rail For Trapezoidal Metal Roof



- 1 BASE SUPPORT L300
- 2 LEG PROFILE T4 - L1000
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- 11 PLAIN WASHER

*Also available with Toe-Guard on demand



VERTICAL & HORIZONTAL



BRACING DETAILS



MID CONNECTOR



STABILIZER DETAILS



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SRPL-GROUP™
SOLAR RACKING & SERVICES

FRP HANDRAIL



FLEXIBLE & IMPACT RESISTANT



LIGHTWEIGHT & EASY TO HANDLE



RESISTANT TO CORROSION



10-YEAR WARRANTY





SAFETY-HANDRAIL

FRP

Safety Hand Rail – For Trapezoidal Metal Roof

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PROPERTIES

- **Strength** – It has greater flexural strength
- **Weight** – 75% less than Steel & 30% less than Aluminium
- **Electrical Conductivity** – Non Conductive
- **Thermal Properties** – Good insulator with low thermal conductivity.
- **Environmental Impact** – Not hazardous to the environment.
- **Color** – Color is moulded through, no painting required.

BENEFITS

- **Durable** – Corrosion & weather-resistant
- **Lightweight** – Easy to handle
- **Low Maintenance** – No rust
- **Strong** – Flexible & impact-resistant
- **Slip-Resistant** – Safe in wet conditions
- **Non-Conductive** – Safe in electrical areas
- **Cost-Effective** – Long-lasting



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FLEXIBLE & IMPACT RESISTANT



OPTIMAL COST TO STRENGTH RATIO



PREFABRICATED MODULAR DESIGN



LIGHTWEIGHT & EASY TO HANDLE



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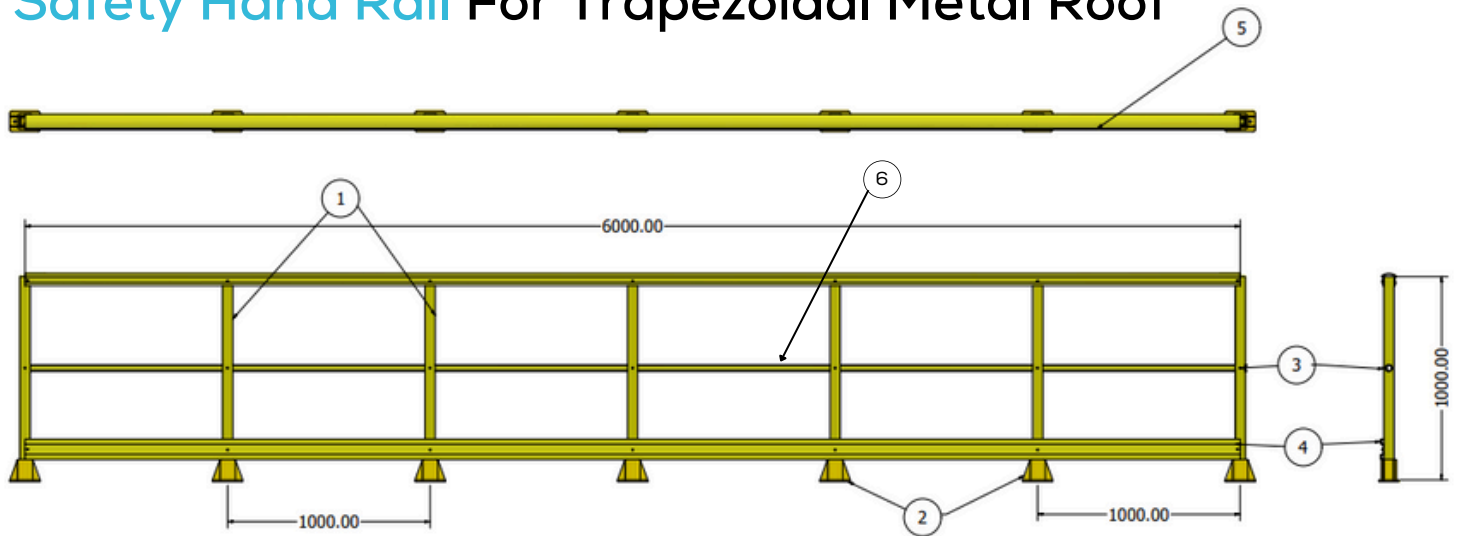
Provides enhanced safety measures, offering a comprehensive solution for working at elevated heights

FRP handrails are durable, lightweight, and low-maintenance safety solutions. Resistant to corrosion, chemicals, and weather, they offer long-lasting performance with minimal upkeep.

Their slip-resistant surfaces, customizable designs, and non-conductive properties make them ideal for both indoor and outdoor use, providing safety and reliability in various environments.

-  10 Years of Warranty
-  24X7 support
-  Competitive price and quality
-  Tested, safe & certified system
-  Smart Mounting System
-  Excellent quality/price ratio

Safety Hand Rail For Trapezoidal Metal Roof



- | | |
|------------------------------|---------------------------------|
| 1 SQ TUBE | 4 KICK PLATE (TOE GUARD) |
| 2 RAILING FRP BRACKET | 5 TOP RAIL |
| 3 NUT BOLT | 6 FLUTED PIPE DIA |

*Also available with Toe-Guard on demand



SOME OF OUR INSTALLED PROJECTS -

1) INSTALLED IN PUNE



3) INSTALLED IN AHMEDABAD



2) INSTALLED IN THANE



4) INSTALLED IN FARIDABAD



5) INSTALLED IN GUJARAT



CUSTOMIZATION OPTION AVAILABLE FOR ALL SOLAR STRUCTURES & ACCESSORIES

We offer a comprehensive range of Customized Solar Structures and Racking Solutions, designed to meet diverse project requirements and site conditions. Our expertise covers Flat Roof, Metal Roof, Carport, Ground Mount, Floating Solar, and Tracker mounting systems, ensuring durable and efficient solutions for both residential and commercial solar installations.

In addition to solar structures, we provide essential safety accessories, including Walkways, Safety Handrails, Safety Lines, and Cable Trays, enhancing the safety and accessibility of solar installations.

Customization is available in material, structure, and design to suit specific project needs, ensuring optimal performance, durability, and seamless integration. With precision engineering and a focus on quick installation, we deliver tailored solutions for every solar project.



CUSTOMIZATION