



Solar PV Module
Mounting Structures
for Quick and
Reliable Installations

SHORT RAIL STRUCTURES

Solar Module Mounting Structures for Metal Roofs - Short Rail

Highlights

- Optimized for cost effectiveness
- No corner clamping, design is supportive to modules
- Ease of installation
- Aerodynamic design with stability
- Validated through physical testing and FEA analysis
- Suitable for coastal regions
- High quality engineered profile extrusion made of aluminum material (AL6063-T6 Grade)
- Design for wind-speed as per IS875 part 3 code
- Special rivets for sheet joints imported from Germany
- Acrylic adhesive with accelerator for non-penetration joints



Module Orientation
Portrait



Application
Suitable for Trapezoidal GI roofs with minimum thickness of 0.5 mm

Outline

- Short rail connects on the top of the metal sheet ribs to avoid water pooling
- Suitable to be used on trapezoidal, sinusoidal and curved GI roofs with slope
- Holes to easily fix the rivet to metal roof, increases strength
- Tested on pull out strength of 1.8kN
- Use of EPDM washer between rail and sheet, which lead to leakproof installation
- Use of low-read through adhesive lead in aesthetics, convenient, non-sag and environmentally resistant installation
- Clamps with similar material allows simple and quick fixing
- Safe and Aesthetic installation
- Ease to assemble structure enabled the rapid lead period and significant upfront cost savings
- Clamp design through FEA method
- Available in mill finish as well as anodized form
- Portrait module orientation increases no's of solar panels in given length
- Widely used for any specification modules
- Having standard clearance for sheet top as per module OEM



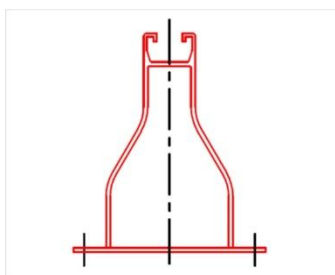
Main Components

- Short Rail – 300mm Long

Accessories

- Mid Clamp
- End Clamp
- Rail Nut with M8 Internal Thread
- Rivet M4.8 for Penetration & Adhesive for Non Penetration
- Socket Head Cap Screw

Orientation



Technical Specifications

Details	
Scope of Application	Trapezoidal, Sinusoidal and Curved roofs
Fixing type	1. Imported Rivets for Penetration Type 2. Adhesive for Non-penetration Type 3. Along with SS304 Fasteners
Module Type and orientation	Framed Modules and Portrait
Technical specifications	1. Clearance to Roof 100mm 2. As per IS875-3
Materials	Aluminum 6063-T6 Grade