

Trapezoid Metallic Roof Solution

Technical Sheet



Clamping solution for Trapezoidal Metal Roofs

GIPL clamp based solution for Trapezoidal metal sheet rooftops is among the best & innovative products to mount solar PV modules.

The modules can be mounted quickly and safely directly on to the roof membrane using self-tapping fasteners. This clamping solution will help reduce your project capital expenditure by improving the stability with lower material usage. Fewer clamps will help in reducing transport costs and warehouse space too. The complete substructure for 1 Kwp of PV capacity can fit into a shoe box.

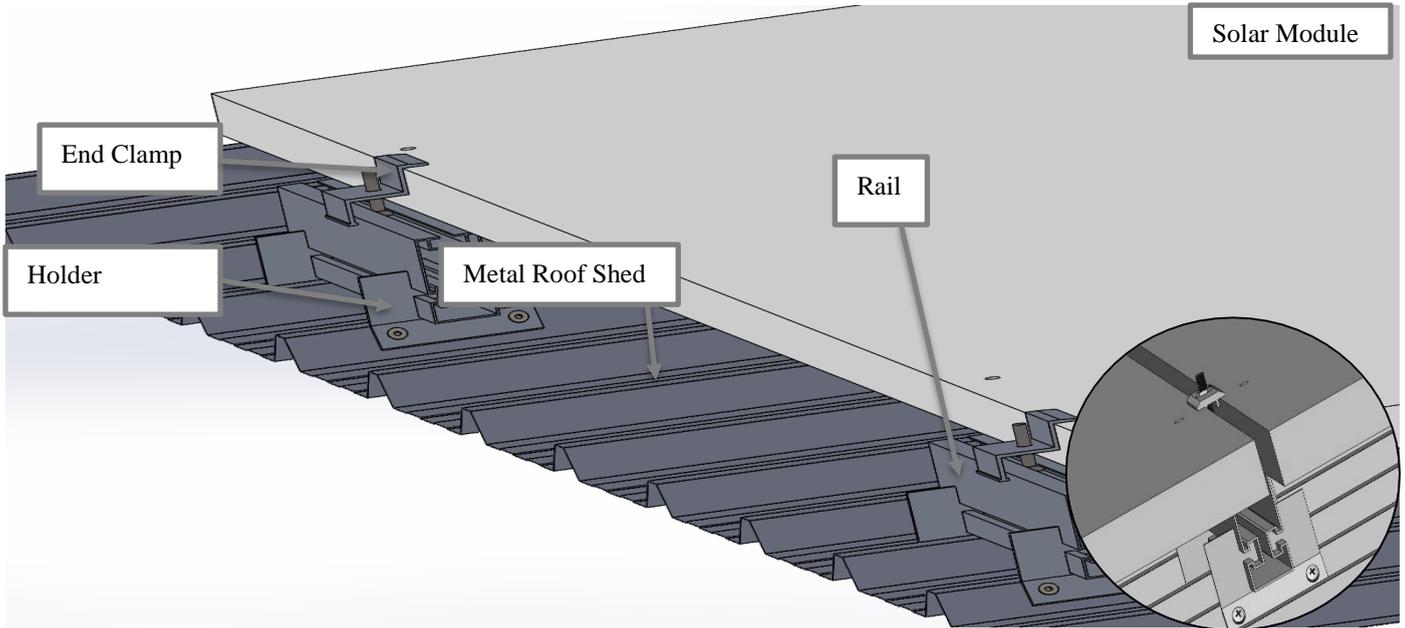
For roofs, which do not allow for the direct mounting of modules, the clamp for sheet metal can be used in combination with the rails.

Advantages of the GIPL's Clamp

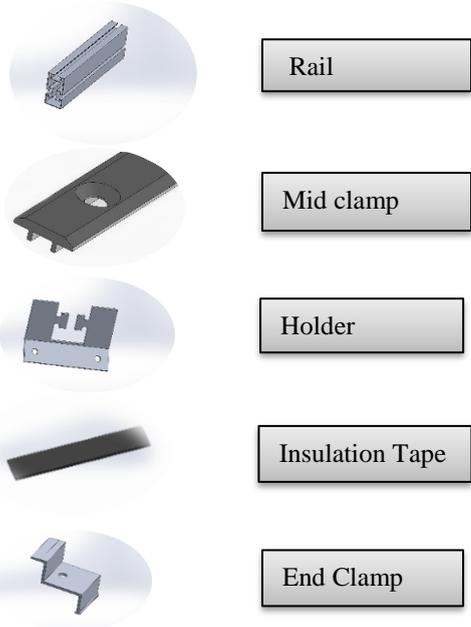
- Helps in quick PV installation on the site
- Fastening the modules directly on to the metal roof
- Minimal roof penetration – low risk of leakage
- Adjustable for all framed modules
- Wide clamp style ensures the distributed application of force
- Manufactured from weatherproof aluminium and stainless steel
- Proven load bearing capacity
- Lower logistics costs due to use of few components and compact construction without lengthy items



Technical Layout



Key Components



Application: Trapezoidal sheet Roof (Industrial Shed)

Fastening: Self-Tapping screws / Rivets

Roof pitch: Flushed with Roof

Module type: 60/72 cells of modules

Module orientation: Portrait/Landscape

Advantages:

- Wind Speed – Upto 240 Km/hr.
- Height compensation- 80 mm in the rail zone
- For all common Metal roof pitches

Technical Specifications	
Description	Specification
TILT ANGLE	Flushed with Roof
ORIENTATION OF PANEL	Portrait/Landscape
WIND SPEED	240 KM/HR
MATERIAL	Aluminium 6063 T6
SECTIONS USED	Aluminium RAIL 80 mm Height, Mid Clamp, End Clamp and SS fasteners
WEIGHT OF STRUCTURE	1KG /Module
STANDARDS	IS8147, IS875-1987, AL-6063-T6, Fasteners-SS304,