

# HOT DIP GALVANIZED STRUCTURES



## Description:

Raw materials - JSW, Jindal  
HDG Steel - 80 to 120 microns  
Yield Strength - 250 to 350mpa

## Scope of Application:

Ground mounted & RCC roofs.

**Wind Capacity:** upto 250 km/hr

**Fastening type/ Roof Fixture:** Using J bolts with civil pedestal for RCC roofs. Piling and concreting for ground mounted installation.

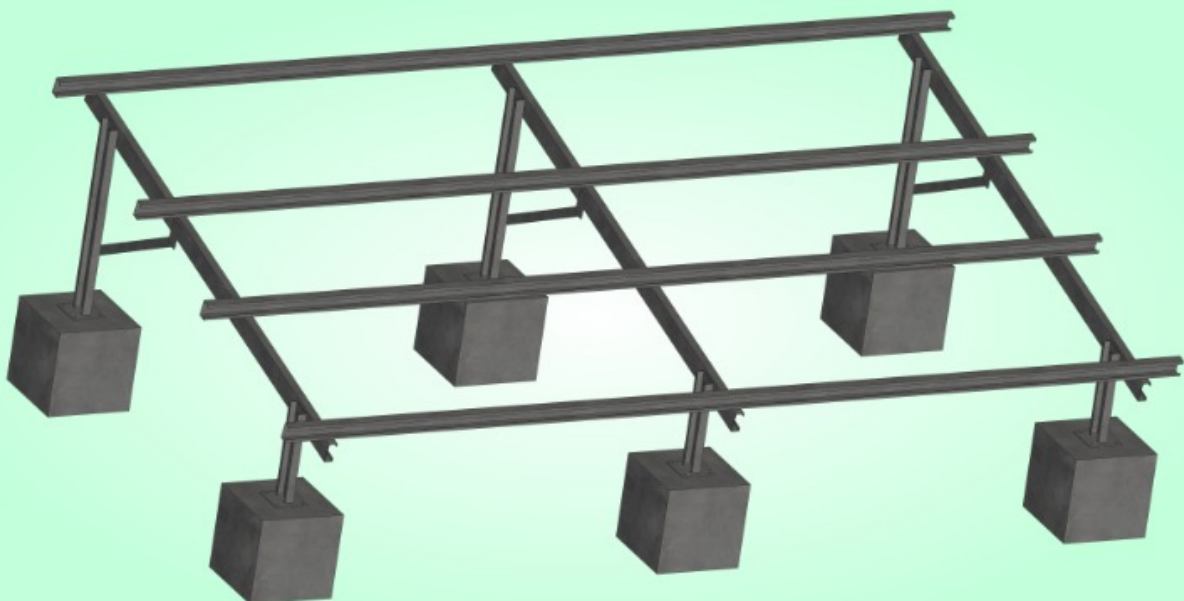
**Module Orientation:** Landscape / Portrait.

## Requirements:

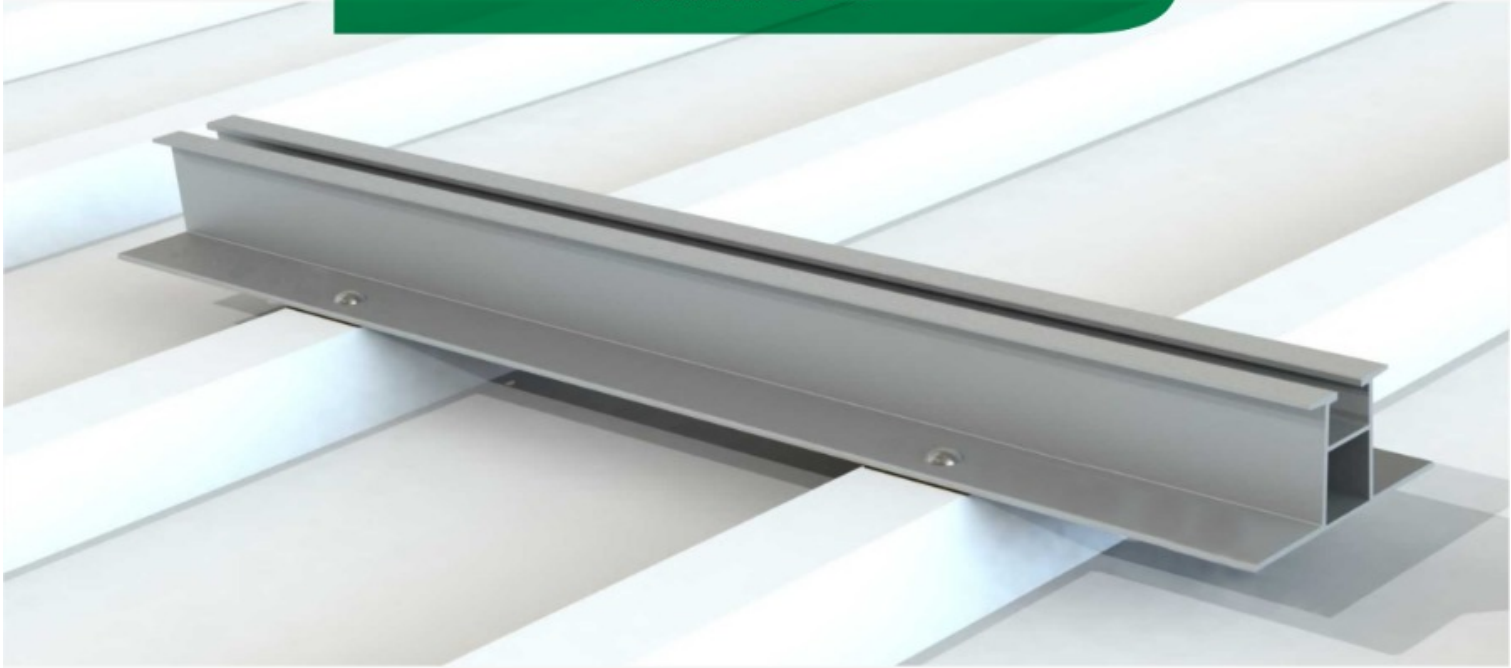
Normal RCC rooftops with or without parapet wall.  
Suitable for all types of soils with load bearing capacity test.

## Advantages:

Seasonal tilt or continuous tracking to obtain maximum efficiency.  
Fixed tilt for true south roofs.  
Engineering flexibility for car port and elevated structures.  
Special designs for coastal regions with wind speed, >200km/hr and galvanization not less than 120µm.  
High Corrosion resistance.  
Minimum micron used is 80µm.  
Elevation of 10 to 29 deg.  
STAAD analysis and design vetted by IIT, Chennai.



# MINI 300



## Description :

Length varying from 120mm to 5m and Height from 40mm to 100mm  
Profile Thickness of 2.5mm  
6063 Aluminum T6 Grade.

## Scope of Application:

Pitched roofs with Trapezoidal sheet metal or puff insulated sheet metal.

**Wind Capacity:** 150km/hr

**Fastening type / Roof Fixture:** Rivets / self tapping metal screws / Adhesive solution over roofing sheets.

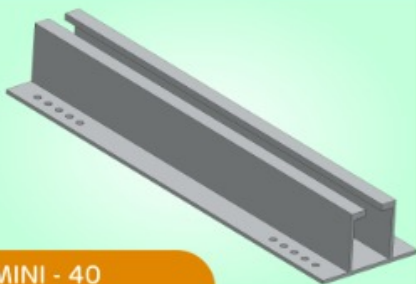
**Module Orientation:** Landscape / Portrait

## Requirements:

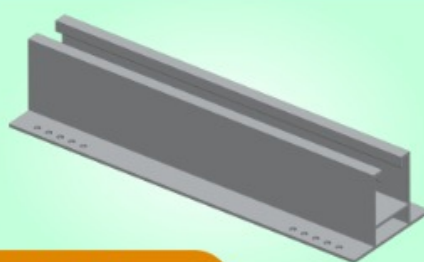
Sheet thickness: >0.5mm (steel or aluminum)  
Puff insulated sheet: Approval from manufacturer required  
Crest width: >22mm  
Module frame height: 30 - 50mm

## Advantages:

Innovative and statically optimized partial rail system that is quick and easy to mount.  
Universal module clamps are suitable for portrait and landscape orientation.  
Optimized for storage, transport and compatible with all PV module.  
Air gap of 70 to 130mm ensured for heat dissipation.  
Anodized for corrosion resistance.  
Suitable for any Trapezoidal roofing sheet crest width.  
Available with both Penetrating and Non Penetrating type.



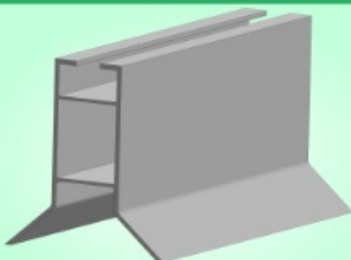
MINI - 40



MINI - 60



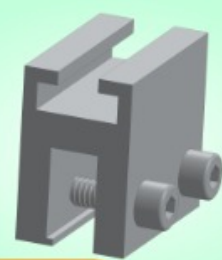
MINI - 70



ADHESIVE RAIL

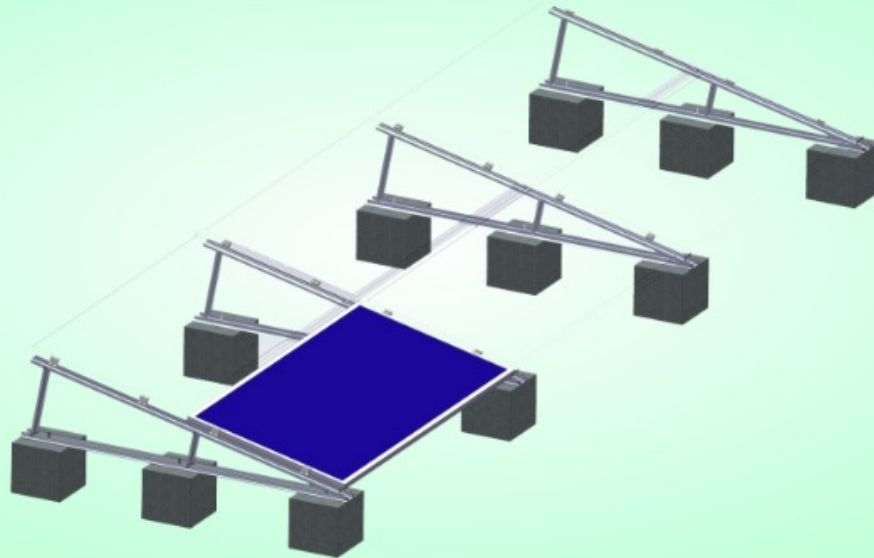


KLIPLOK



LOCKED SEAM

# BALLAST 2000



## Description :

Length of 1000mm and 2000mm  
Profile Thickness of 2.5mm  
6063 Aluminum T6 Grade.

## Scope of Application:

RCC roof or Pitched roofs with Trapezoidal sheet metal or puff insulated sheet metal

**Wind Capacity:** 170km/hr

**Fastening type/ Roof Fixture:** Dead loads or Civil pedestals with Anchor fasteners over RCC roof, Rivets or self-tapping metal screws over Roofing Sheet

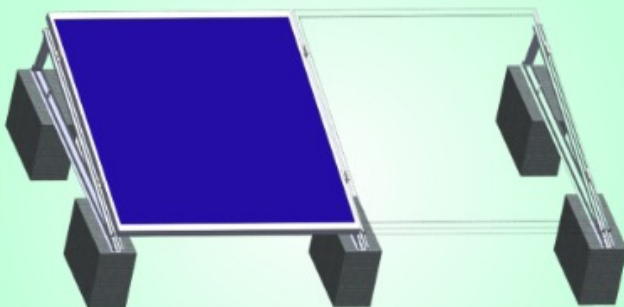
**Module Orientation:** Landscape / Portrait

## Requirements:

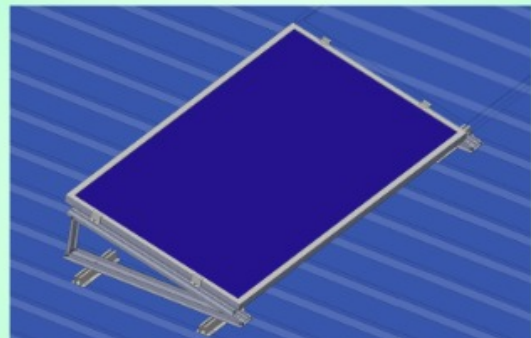
Flat or Inclined RCC roof  
Sheet thickness: >0.5mm (steel or aluminum)  
Puff insulated sheet metal: Approval from manufacturer required  
Crest width: >22mm  
Module frame height: 30 - 50mm

## Advantages:

Simple and easy installation.  
Suitable for RCC and Tin shed Roof.  
Suitable for kW to MW size projects.  
Cost effective for higher capacity projects.  
Elevation of 10 to 29 deg.  
Anodized for corrosion resistance.  
Suitable for metal shed roofs with non south slope to reverse tilt.  
Proven STAAD report will be provided for wind load analysis.  
Distributed weight of MMS over RCC roof or sheet metal roof is less when compared to HDG structure.



BALLAST 1000



REVERSE TILT

# STRUT RAIL & DOUBLE C RAIL



## Description :

Length varying from 1 to 5m with height of 40mm  
Profile Thickness of 2.35mm  
6063 Aluminum T6 Grade.

## Scope of Application:

Pitched roofs with Trapezoidal sheet metal or puff insulated sheet metal

**Wind Capacity:** 150km/hr

**Fastening type/ Roof Fixture:** Self tapping metal screws or Adhesive solution over roofing sheet

**Module Orientation:** Landscape / Portrait

## Requirements:

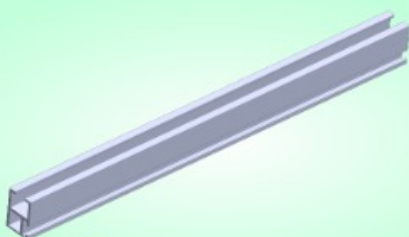
Sheet thickness: >0.5mm (steel or aluminum)  
Puff insulated sheet metal : Approval from manufacturer required  
Crest width: >22mm  
Module frame height: 30 - 50mm.

## Advantages:

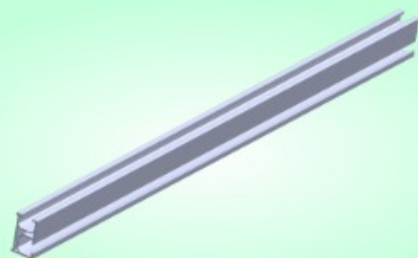
Simple and easy installation  
Available in Unistrut Channels, Plain Channels, Slotted Channels.  
Suitable for kW to MW size projects.  
Manufactured in Aluminum & Metal Sheet with hot dip galvanized.  
Anodized for corrosion resistance.  
Air gap of 70 to 130mm ensured.



STRUT CHANNEL



DOUBLE C - 1.0

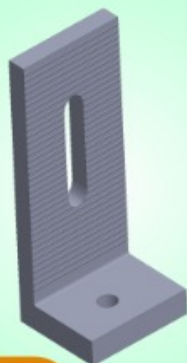


DOUBLE C - 2.0

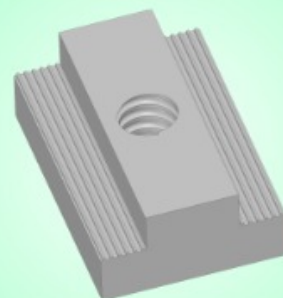
# ACCESSORIES



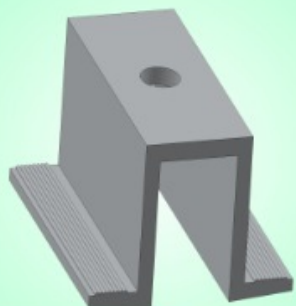
UNIVERSAL MID CLAMP



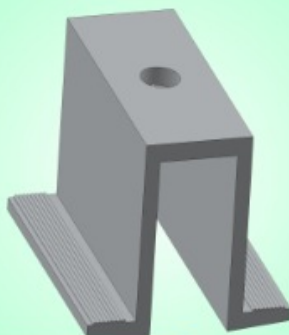
L BRACKET



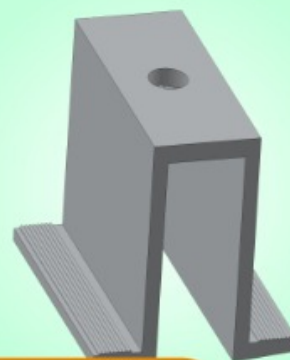
T NUT



MID CLAMP - 30 mm



MID CLAMP - 35 mm



MID CLAMP - 40 mm



END CLAMP - 30 mm



END CLAMP - 35 mm



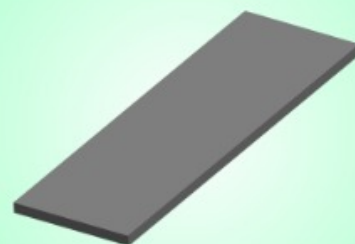
END CLAMP - 40 mm



FASTENERS



SPRING NUT



EPDM