

Solar PV Module  
Mounting Structures  
for Quick and  
Reliable Installations

# SINGLE PORTRAIT STRUCTURES

# Solar Module Mounting Structures For RCC Roofs - Single Portrait

## Highlights

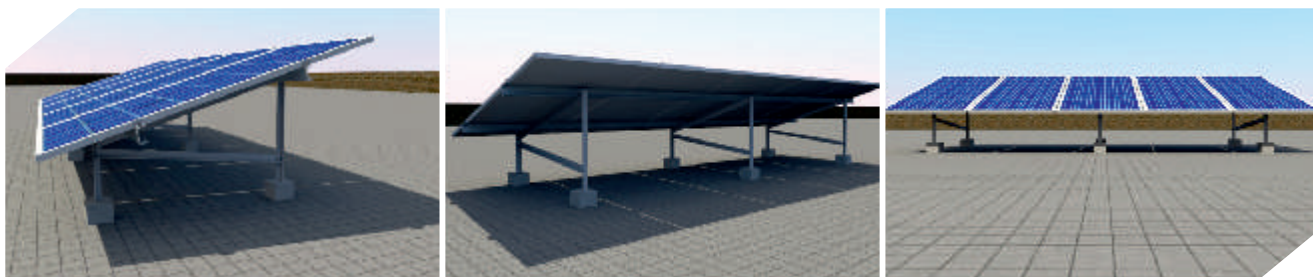
- Design is supportive to modules
- Simple in Installation
- Design with stability and with windspeed as per IS875 part 3 Code
- Validated through STAAD analysis
- Suitable for all regions
- With optimum tilt between 5 to 20 degree for higher power generation
- High quality engineered profile made of MS E250 and PosMAC material
- Maximum plant capacity can be installed on available roof

Module Orientation  
Portrait

Application  
Suitable for RCC roof with medium height parapet wall and space constraints on the roof

## Outline

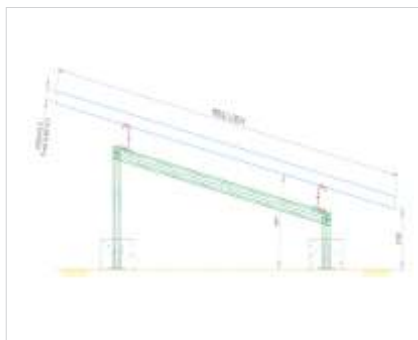
- Solar Panels installed above purlins using recommended fasteners or clamps
- Suitable to be used on Normal RCC roofs, and roofs having waterproofing layer with slope or without slope
- Fabricated structure allows simple and quick fixing
- Standard tilt angle maintained to optimize the generation
- Safe and Aesthetic installation
- Ease to disassemble and relocate
- Structure designed through STAAD method
- Portrait module orientation
- Widely used for any specification modules
- Having standard clearance from sheet top as per Module OEM
- Suitable for RCC roof with medium height parapet wall and space constraints



## Main Components

- Front Leg • Rear Leg
- Rafter • Purlin
- Bracket • Sag Angle
- Civil Foundation of Grade M20

## Orientation



## Accessories

- Fasteners for structure
- Fasteners for module
- Nitobond – EP for non-penetration
- Hilti with adhesive - for penetration

## Technical Specifications

Details	
Scope of Application	Normal RCC Roof and waterproofing of brick back coba and China mosaic.
Fixing type	1. Grade M20 concrete for dead weight for Non-penetration 2. Hilti chemical with fasteners for penetration 3. SS304 fasteners for structure components and modules
Module Type and orientation	Framed modules and portrait
Technical specifications	1. Clearance to roof 300mm to 1200mm 2. As per IS875-3
Materials	1. MS E250 With HDG (80 micron) 2. PosMAC - Magnesium Aluminum Alloy Coating (156 g/m <sup>2</sup> )