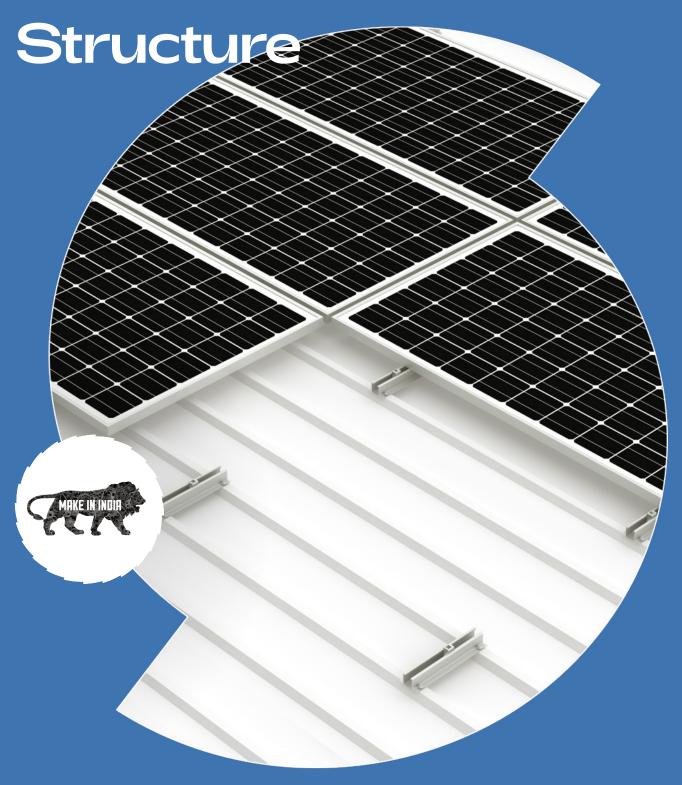
Trapezoidal Roof Solar















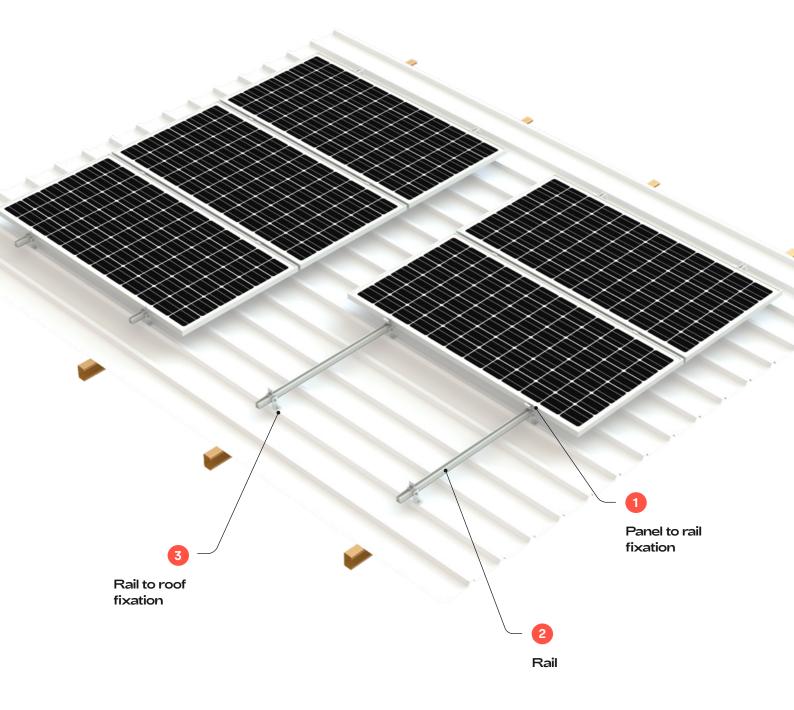


Portrait orientation

Portrait orientation on trapezoidal metal roof solar system is a lightweight complex mounting system suitable for a large scale of applications. Its easy installation allows to install high capacity of solar panels in reasonably short amount of time.

Properties

- Stightweight system
- Second Easy installation
- Structure installation parallel to roof
- O Inbuilt panel to panel grounding available







End Clamp fixation

Panel to rail fixation provided by end clamp. Suitable for 30 mm, 35 mm and 40 mm thickness of solar panel.

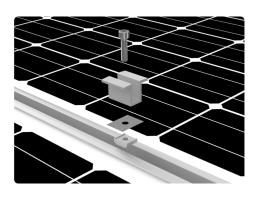




Mid Clamp fixation

Panel to rail fixation provided by mid clamp with grounding plate. Suitable for 30 mm, 35 mm and 40 mm thickness of solar panel.

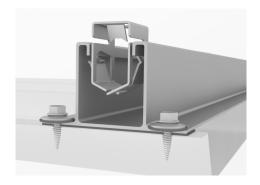




Panel Clamp fixation

Any thickness of solar panel is suitable for this type of fixation and has inbuilt grounding system.









Short Rails

Low roof clearance

- Cost effective solution
- Some statement of the statement of th

Available lengths

250 mm, 300 mm, 350mm, 400 mm Depending on crest to crest distance

Thickness

1,5 mm

Raw material used

Aluminium 6063 T6



SHORT RAIL (portrait) 30 mm height



SHORT RAIL 41 mm height

Short Rails

High roof clearance

- Increased height for thermal stability of the system and easy installation
- High roof clearance

Available lengths

250 mm, 300 mm, 350mm, 400 mm Depending on crest to crest distance



Thickness

Raw material used

Aluminium 6063 T6



SHORT RAIL (portrait) 65 mm height



SHORT RAIL 100 mm height

Long Rail

O Purlin mounted robust system for high wind loads

Available lengths

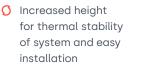
Customized as per requirement

Thickness

1,5 mm

Raw material used

Aluminium 6063 T6





LONG RAIL 40 mm height





Self Stitching Screw

- Second Second
- O Up to 15 years warranty *
- One tool approach
- Seasy maintenance

Pullout strength

SSS - A > 3270 N

TÜV certified TUV/8117614562 /DA/DEC-802







Self Drilling Screw

- Cost effective
- Second Easy installation
- One tool approach
- Second Easy removal

Pullout strength

SSS - SS > N/A SDS - GI > N/A





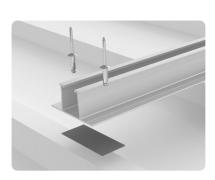
Rivet

- Cost effective
- Up to 5 years warranty *
- Well recognized

Pullout strength

Rivet - SS > 1480 N Rivet - AL > 2680 N





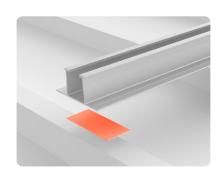
Adhesive Glue

- Non-penetrative
- O Robust
- 12 years lifespan

Pullout strength

Glue > 6500 N





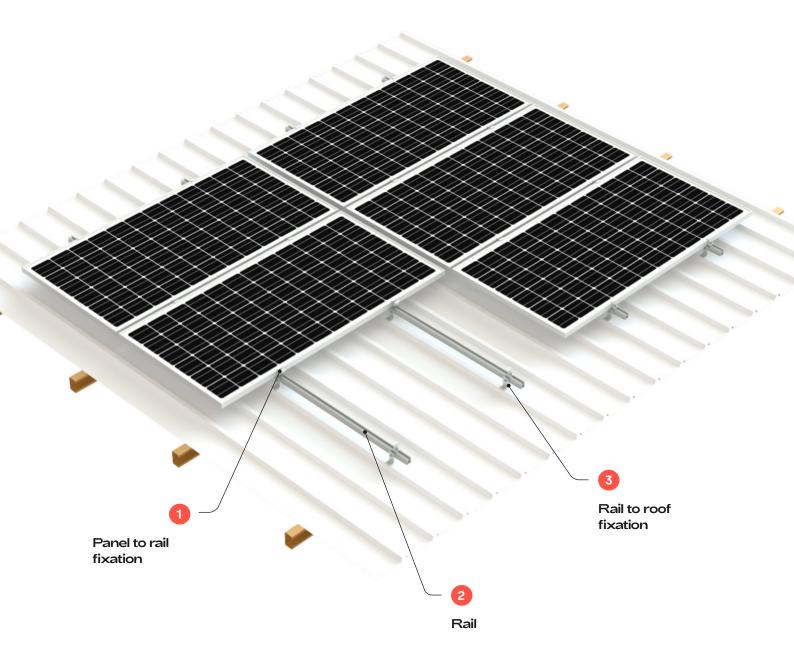


Landscape orientation

Landscape orientation on trapezoidal metal roof solar system is a lightweight complex mounting system suitable for a large scale of applications. Its easy installation allows to install high capacity of solar panels in reasonably short amount of time.

Properties

- S Lightweight system
- Second Easy installation
- Structure installation parallel to roof
- O Inbuilt panel to panel grounding available







End Clamp fixation

Panel to rail fixation provided by end clamp. Suitable for 30 mm, 35 mm and 40 mm thickness of solar panel.

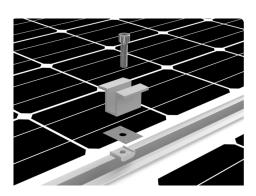




Mid Clamp fixation

Panel to rail fixation provided by mid clamp with grounding plate. Suitable for 30 mm, 35 mm and 40 mm thickness of solar panel.





Panel Clamp fixation

Any thickness of solar panel is suitable for this type of fixation and has inbuilt grounding system.









Short Rails

Low roof clearance

- Cost effective solution
- Some some statement of the contract of the

Available lengths

250 mm, 300 mm, 350mm, 400 mm Depending on crest to crest distance

Thickness

1,5 mm

Raw material used

Aluminium 6063 T6



SHORT RAIL (landscape)
30 mm height



SHORT RAIL 41 mm height

Short Rails

High roof clearance

- Increased height for thermal stability of system and easy installation
- High roof clearance

Available lengths

250 mm, 300 mm, 350mm, 400 mm Depending on crest to crest distance



Raw material used
Aluminium 6063 T6



SHORT RAIL (landscape) 65 mm height



SHORT RAIL 100 mm height

Long Rail

- Increased height for thermal stability of system and easy installation
- Purlin mounted robust system for high wind loads

Available lengths

Customized as per requirement

Thickness

1,5 mm

Raw material used

Aluminium 6063 T6



LONG RAIL 40 mm height





Self Stitching Screw

- Section Fast installation
- O Up to 15 years warranty *
- One tool approach
- Seasy maintenance

Pullout strength

SSS - SS > 1635 N





Self Drilling Screw

- Cost effective
- One tool approach
- Second Easy removal

Pullout strength

SSS - SS > N/A SDS - GI > N/A





Rivet

- Cost effective
- Up to 5 years warranty *

Pullout strength

Rivet - SS > 740 N Rivet - AL > 1430 N





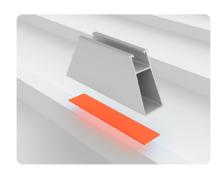
Adhesive Glue

- Non-penetrative
- O Robust

Pullout strength

Glue > 6500 N





Reports & Certifications



TÜV certification for panel clamp solution

Component Analysis:

- 1. FEA analysis of All Rails.
- 2. FEA analysis of All Fixations (End & Mid clamps, Power Clamps)
- 3. FEA analysis of All Fasteners.

Wind Analysis Report:

- 1. End & Mid Clamp Assembly With different variations of fixations
- 2. Power Clamp Assembly With different variations of fixations

Pullout test Report:

- 1. Pullout Test report SSS
- 2. Pullout Test report Rivet AL
- 3. Pullout Test report Rivet SS
- 4. Pullout Test report Adhesive Glue

Technical Specification

Scope of Application	Pitched Roof with Trapezoidal sheet metal
Rail to Roof Fixation	Self Stitching Screw / Self Drilling Screw / Rivet / Adhesive Glue
Panel to Rail Fixation	End Clamp / Mid Clamp / Panel Clamp
Roof Slope	5° to 25°
Min. Sheet Thickness	0.4 mm Steel and ≥ 0.5 mm Aluminium
Crest to Crest Distance	200 mm to 350 mm
Crest Width	At least 22 mm
Building Height	Up to 20 meter
PV - Modules	Framed
Module Orientation	Portrait / Landscape
Tilt Degree	Along the Roof (Flush Mount)
Size of Module Array	Any Size Possible
Materials	EN AW 6063 T6 / SS 304 / EPDM
Design Windspeed	Up to 200 kmph *



Mounting Solar-Kit Private Limited

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