

SUNMOUNT

SOLAR MOUNTING SOLUTIONS



Reports and Certifications



TUV Certified

Component Analysis:

1. FEA analysis of all Structural Members.
2. FEA analysis of all Rails & Brackets.
3. FEA analysis of all Fasteners & Accessories.

Wind Analysis Report:

1. End and Mid Clamp Assembly – With different variations
2. Power Clamp Assembly – With different variations

ABOUT SUNMOUNT®

SunMount® is an indigenous Solar PV Modules Mounting company, specializing in the design, manufacture and supply of a diverse range of high quality and innovative rooftop solar mounting structural systems.

SunMount® provides end-to-end solutions for mounting solar PV modules on the rooftop. We provide solutions for various types of metal and asbestos roofs. We are committed to ensuring the highest quality of raw materials for all our products, top quality of finished product and on-time dispatch, backed with genuine warranty, swift and apt after-sales support.

Our mission is to promote renewable energy solutions by making solar installations easier and accessible to all and thereby eliminating the need for conventional energy resources like fossil fuels.

THE TEAM

SunMount® is an industrious & studious team of prolific & vastly experienced professionals; Engineers, Chartered Engineers, Architects and Post Graduates in Commerce & Marketing. We have a combined team experience of more than 75 years, in diversified sectors of Manufacturing, Services and Consultancy.

SunMount® aspires and aims to bridge the gap between the clients' dynamic needs and innovative solutions - with genuine & reliable scientific analysis and certifications from reputed organisations, along with being competitive in prices.

'Quality with Stability till Infinity'

SUNMOUNT® OFFERS



Most Optimum &
Cost Effective
Solutions



Best in Market
Warranty



Quick Dispatch and
Neat Installations



Design Wind Speed
up to 200 kmph*



High Strength Products
with Long Life and Easy
Maintenance



Prompt and Apt
After-Sales Support

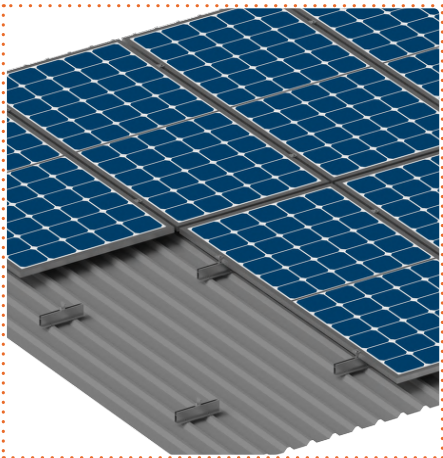
OUR PRODUCTS

SunMount® provides the following fixation systems for mounting solar PV modules on industrial metal and asbestos roof.

Solutions and Products are available in both penetrating/non-penetrating options.

1. Mono Rail System

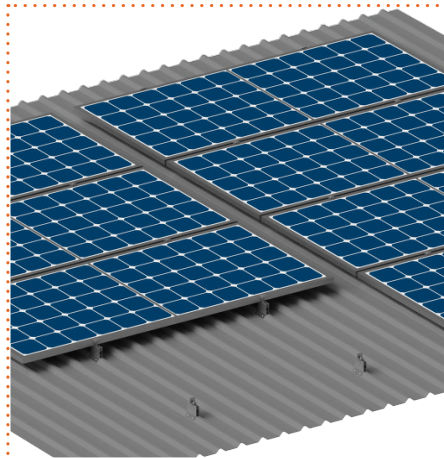
Portrait Orientation



p.08

2. Mini Rail System

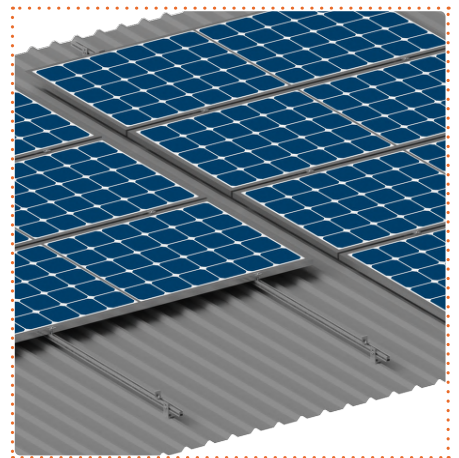
Landscape Orientation



p.10

3. Long Rail System

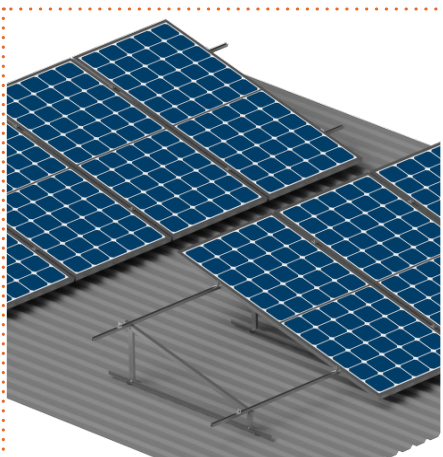
Landscape Orientation



p.12

4. Inclined System

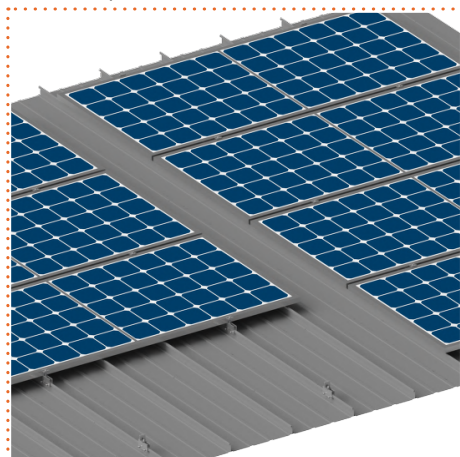
Portrait Orientation



p.14

5. Standing Seam System

Landscape Orientation

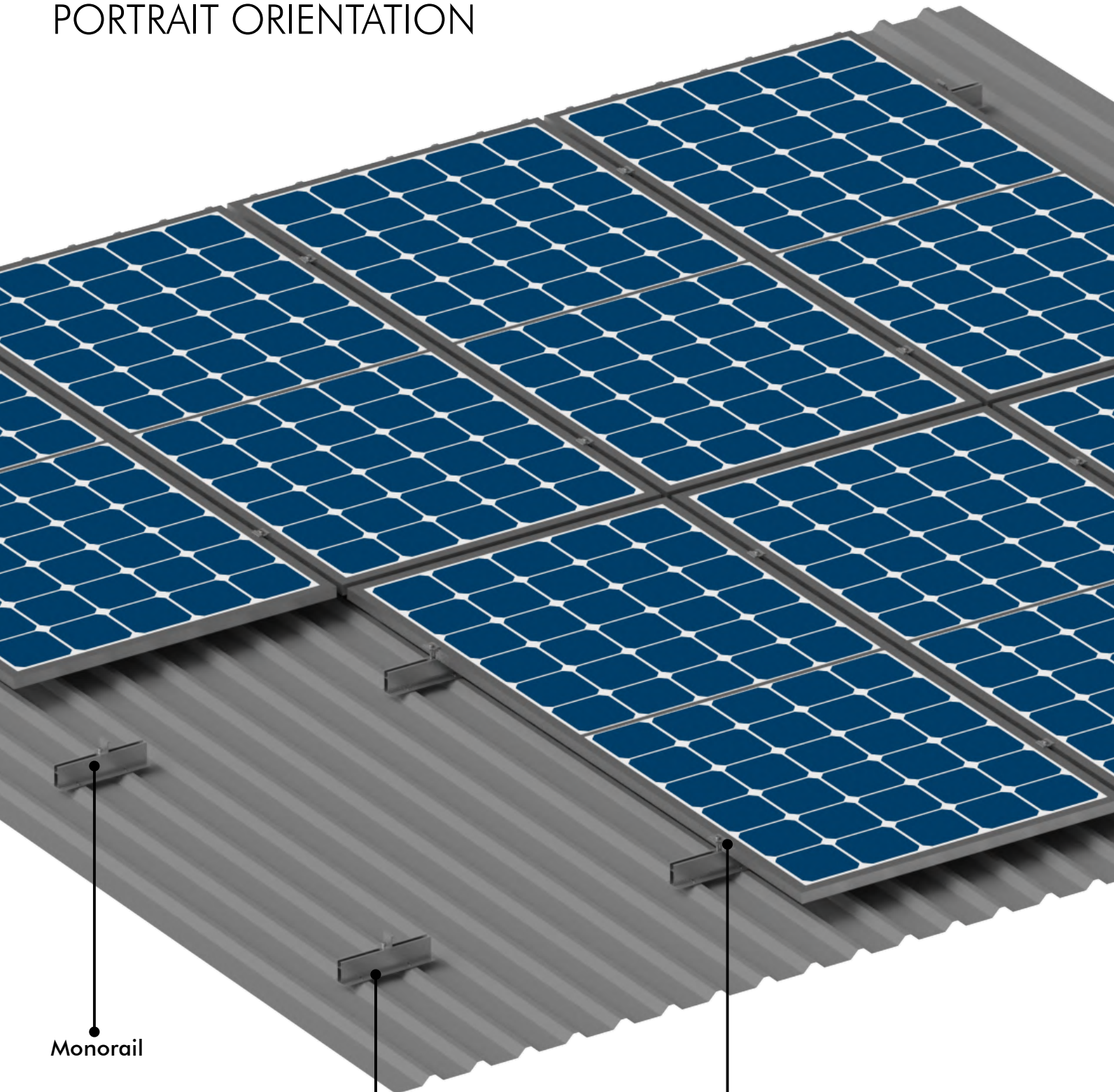


p.16

SunMount® manufactures all the fixing and fastening accessories in-house or source from genuine & reliable vendors after strict quality checks and incisive scrutiny.

MONO RAIL SYSTEM:

PORTRAIT ORIENTATION



Monorail

Rail to Roof
Fixation

Rail to Panel
Fixation

1.

SYSTEM HIGHLIGHTS

Mono Rail System is a lightweight and most optimum system for mounting solar PV panels on trapezoidal metal roof.

Its easy installation allows to install high capacity of solar panels in reasonably short amount of time.

The system is suitable for a large scale of applications.

Properties

- Lightweight & Optimised system
- Easy Installation & Maintenance
- PV Modules are installed in **Portrait** orientation.
- Suitable for any trapezoidal sheet crest width.
- Compatible with all PV module.
- Cost Effective Solution
- Roof clearance of 100mm.
- Design Wind Speed - Upto 200 kmph*
- Available in Anodized/Non-Anodized finish.



Mono Rail Dimensions:

Height: 60 mm | 70 mm | 100 mm

Length: Customised as per Crest to Crest Distance

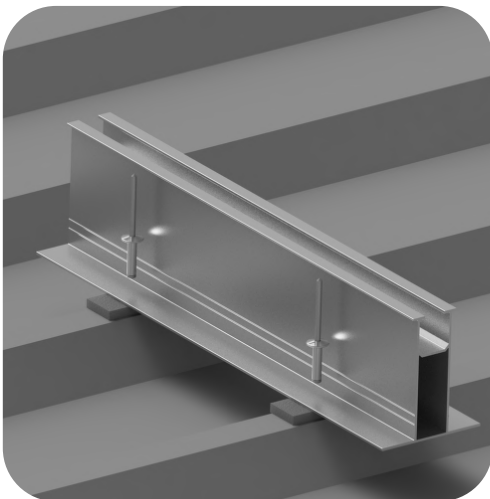
Raw Material Used:

Aluminium 6063 T6 | SS 304 | EPDM

MONO RAIL FIXATIONS

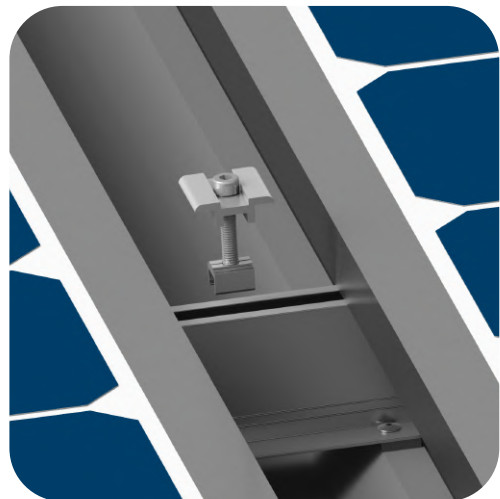
Rail to Roof

Rail to Roof fixation is provided by Rivet and EPDM tape. Suitable with any trapezoidal sheet crest width. Non-penetrative fixation can also be provided using structural adhesive.



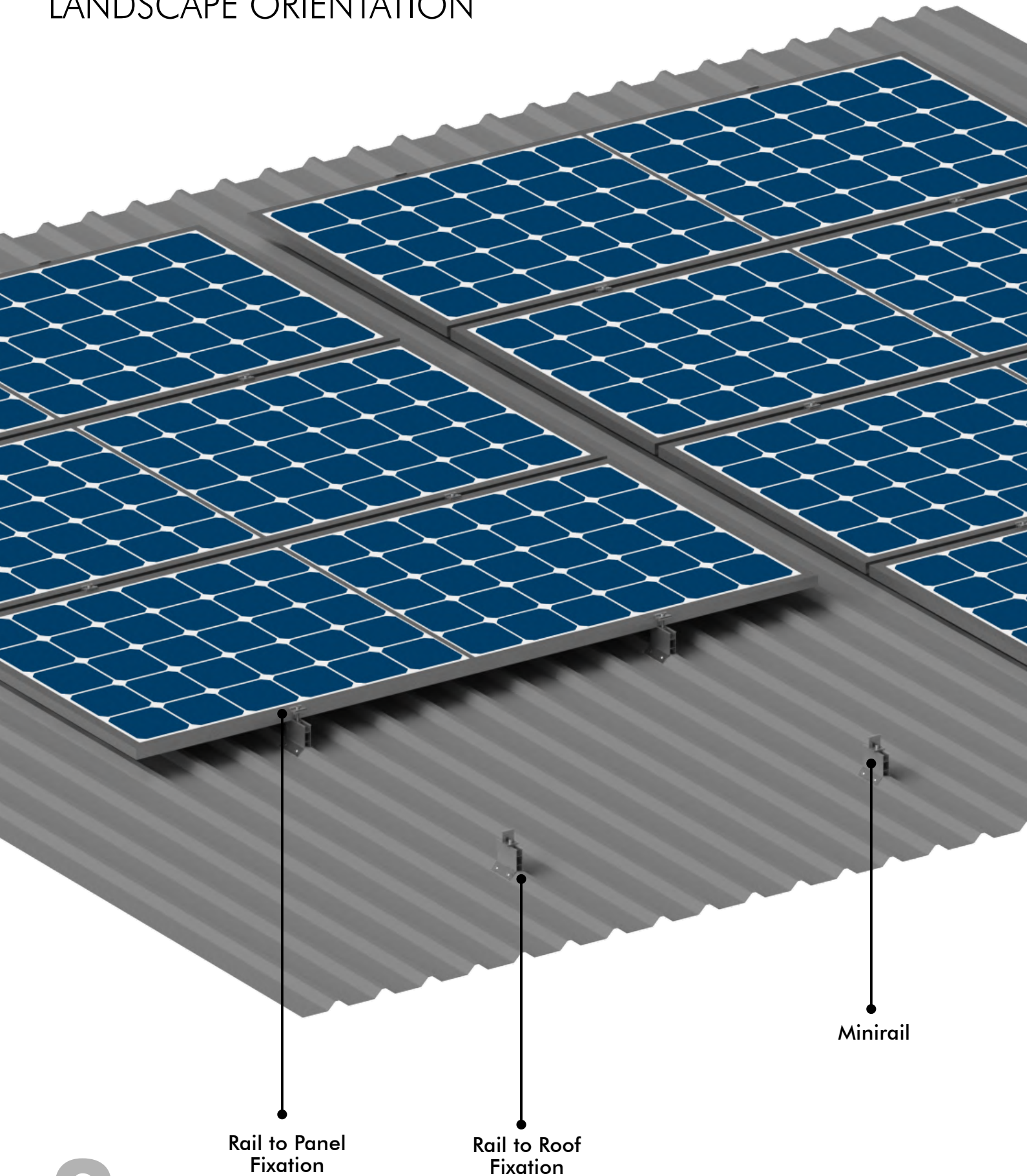
Rail to Panel

Rail to Panel fixation is provided by U-clamp or Mid-clamp. Suitable for 30mm, 35mm and 40mm thickness of solar panel.



MINI RAIL SYSTEM:

LANDSCAPE ORIENTATION



2.

SYSTEM HIGHLIGHTS

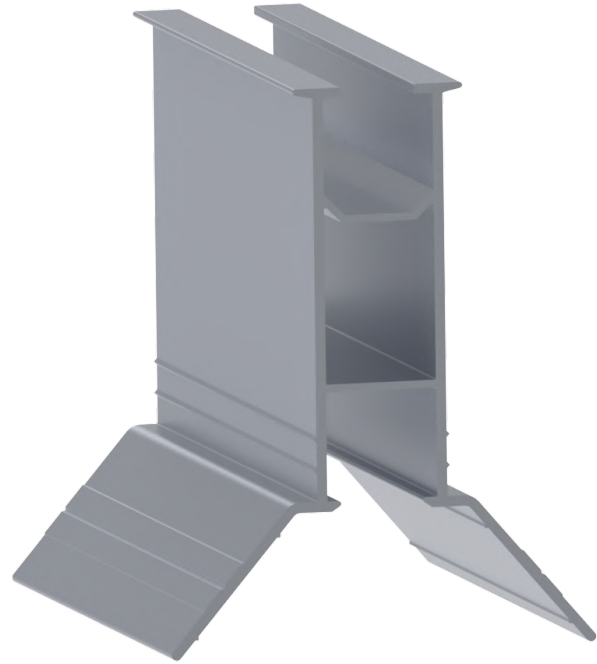
Mini Rail System is a lightweight and most optimum system for mounting solar PV panels on trapezoidal metal roof.

Its easy installation allows to install high capacity of solar panels in reasonably short amount of time.

The system is suitable for a large scale of applications.

Properties

- Lightweight & Optimised system
- Easy Installation & Maintenance
- PV Modules installed in **Landscape** orientation.
- Compatible with all PV module.
- Roof clearance of 100mm.
- Cost Effective Solution
- Design Wind Speed - Upto 200 kmph*
- Available in Anodized/Non-Anodized finish.



Mini Rail Dimensions:

Height: 70 mm | 100 mm
Length: Customizable

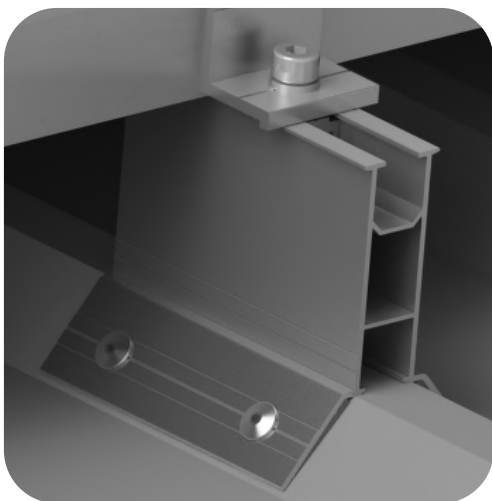
Raw Material Used:

Aluminium 6063 T6 | SS 304 | EPDM

MINI RAIL FIXATIONS

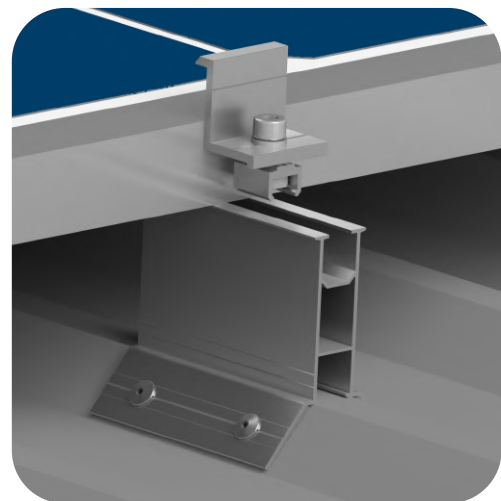
Rail to Roof

Rail to Roof fixation is provided by Rivet and EPDM tape. Non-penetrative fixation can also be provided using structural adhesive.



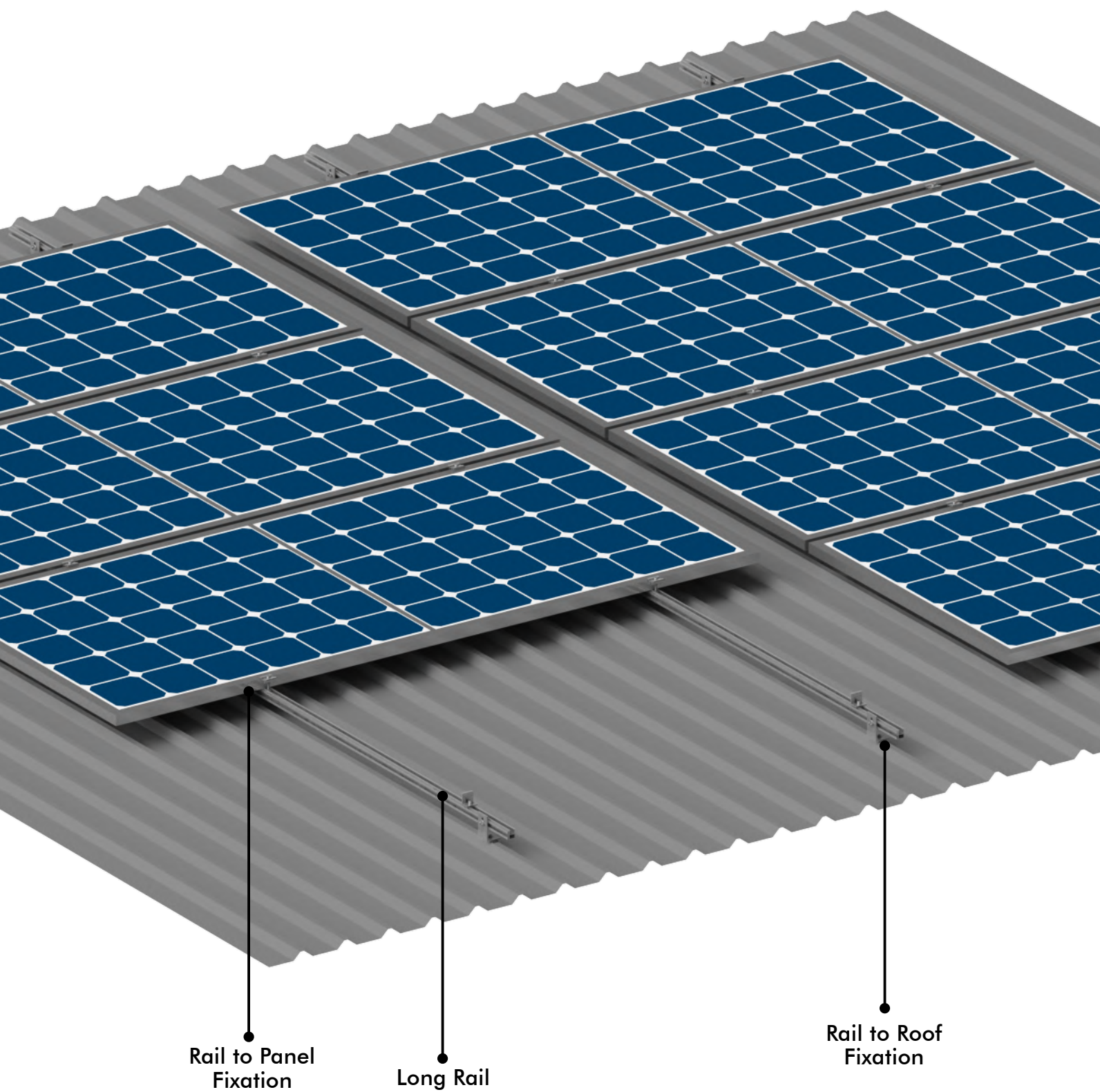
Rail to Panel

Rail to Panel fixation is provided by Z-clamp or End-clamp. Suitable for 30mm, 35mm and 40mm thickness of solar panel.



LONG RAIL SYSTEM:

LANDSCAPE ORIENTATION



3.

SYSTEM HIGHLIGHTS

Long Rail System is a high-strength system for mounting solar PV panels on trapezoidal metal or asbestos roofs.

Its easy installation allows to install high capacity of solar panels in reasonably short amount of time.

The system requires lesser number of punctures in the roof as compared to Mini rail and Mono rail systems.

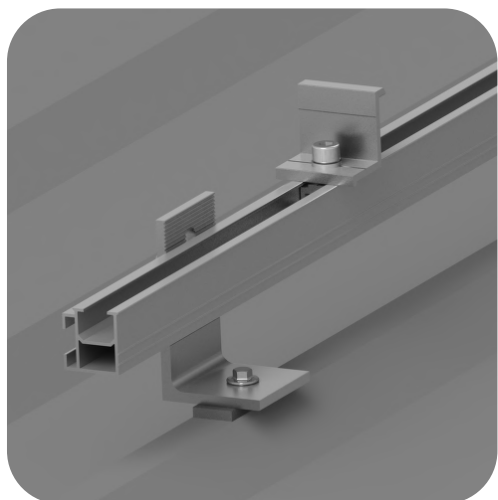
Properties

- Easy Installation & Maintenance
- PV Modules installed in **Landscape** orientation.
- Purlin mounted robust system for high wind loads.
- Universal rails suitable for any roof crest.
- Utilizes the existing holes of self-drilling screws on the roof.
- Suitable for asbestos sheet roof by fixing on existing J-bolts.
- Available in Anodized/Non-Anodized finish.
- Design Wind Speed - Upto 200 kmph*
- **Raw Material Used:** Aluminium 6063 T6 | SS 304 | EPDM

LONG RAIL FIXATIONS

Rail to Roof

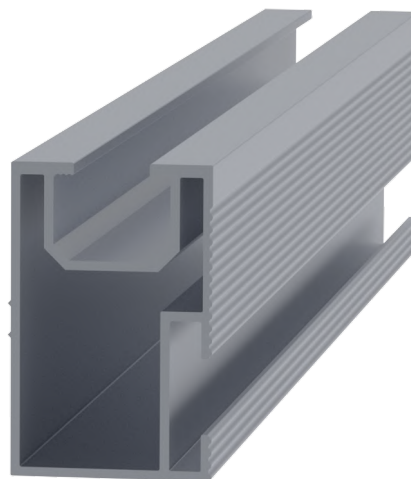
Rail to Roof fixation is provided by L-clamp which is fixed to the crest/purlin with self-drilling screw.



Long Rail - PRO:

Size: 32x50 mm

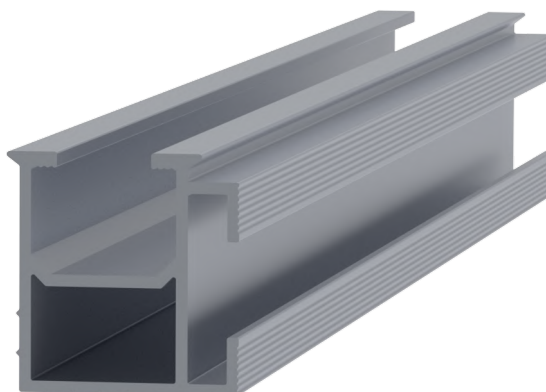
Length: Customized as per requirement



Long Rail

Size: 30x28 mm

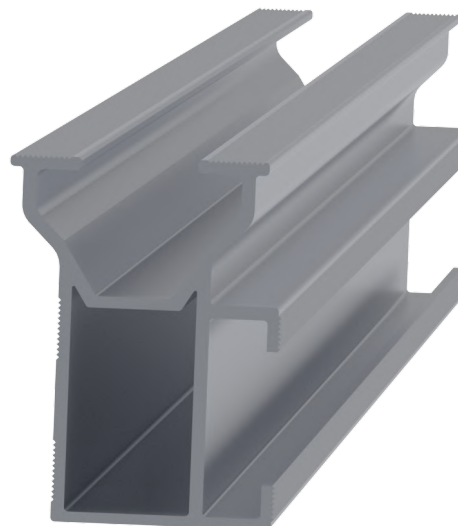
Length: Customized as per requirement



Long Rail - ULTRA:

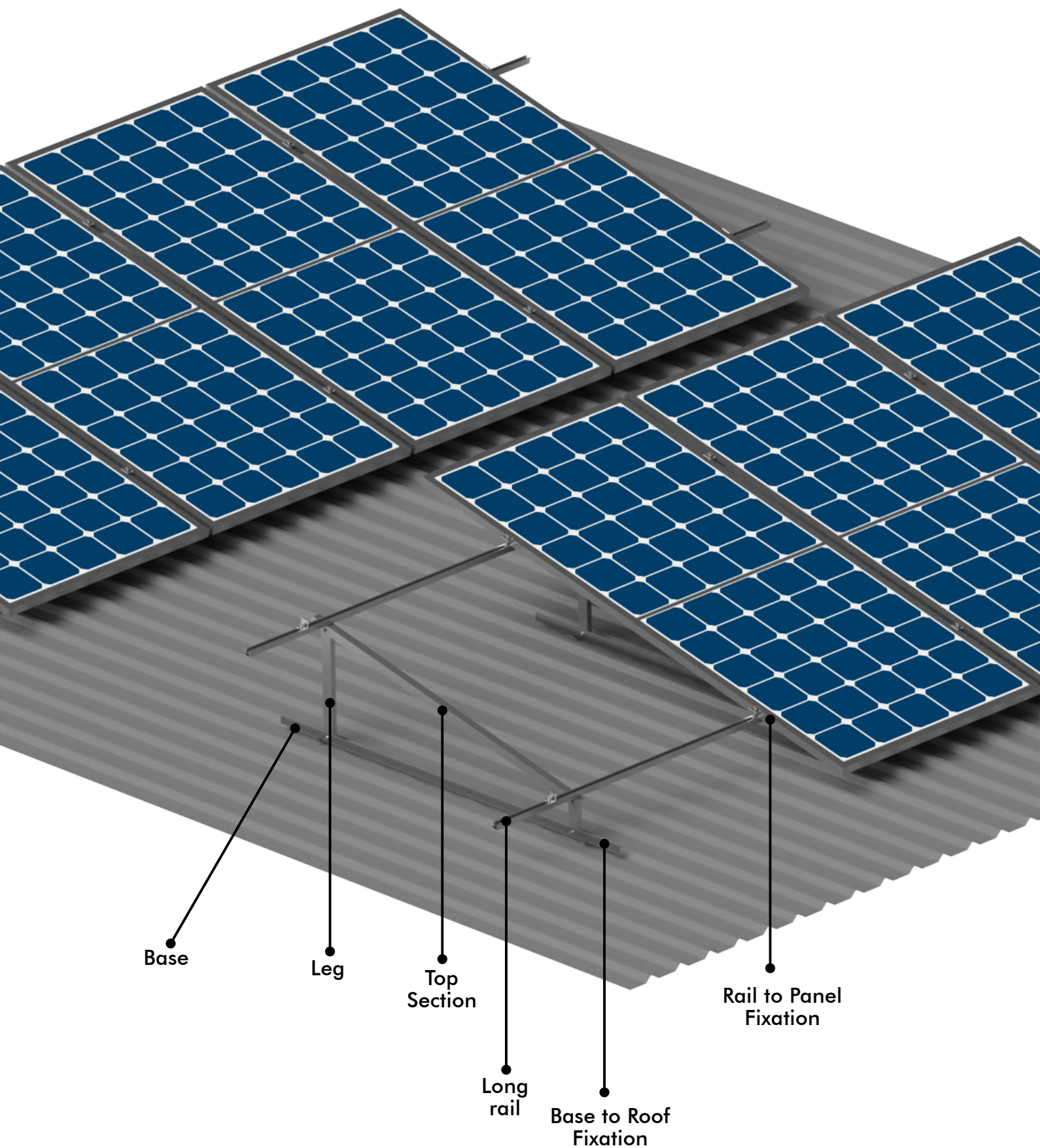
Size: 32x40 mm

Length: Customized as per requirement



INCLINED SYSTEM

PORTRAIT ORIENTATION



4.

SYSTEM HIGHLIGHTS

An Inclined system is used for mounting solar panels on trapezoidal **metal or asbestos** roofs with specially inclined solar mounting structures which can result in the higher generation of electricity from the PV system.

This system allows installing modules in a south-facing direction on roofs that are tilted towards North, East and West.

The Inclination angle can vary as per requirement from 5° to 20° tilt.

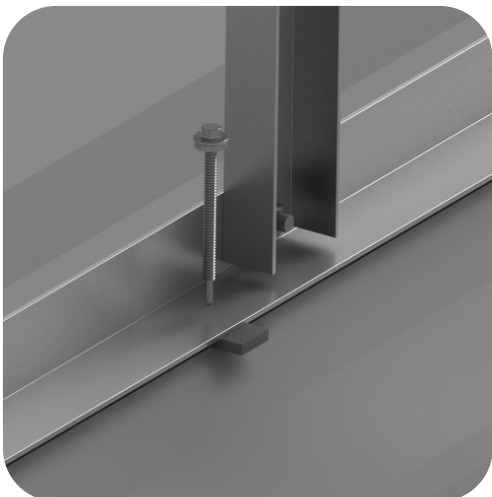
Properties

- Easy Installation & Maintenance
- PV Modules are installed in **Portrait** orientation.
- Increased height for thermal stability of system.
- Utilizes the existing holes of self-drilling screws on the roof and on purlins.
- Universal rail suitable for any roof crest.
- Compatible with all PV module.
- High roof clearance
- Available in Anodized/Non-Anodized finish.
- Design Wind Speed - Upto 170 kmph*

CHANNEL FIXATIONS

Channel to Roof

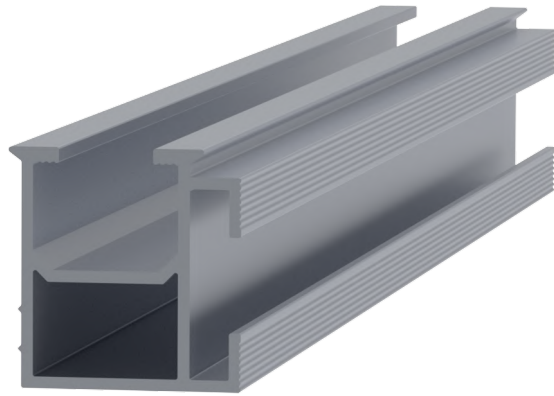
L-channel is fixed to the crest/purlin with self-drilling screw.



Long Rail – LITE:

Size: 30x28 mm

Length: Customized as per requirement



L-Channel:

Size: 38x38 mm

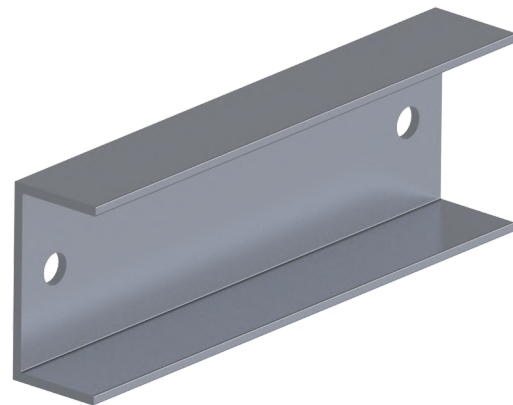
Length: Customized as per requirement



C-Channel:

Size: 25x50 mm

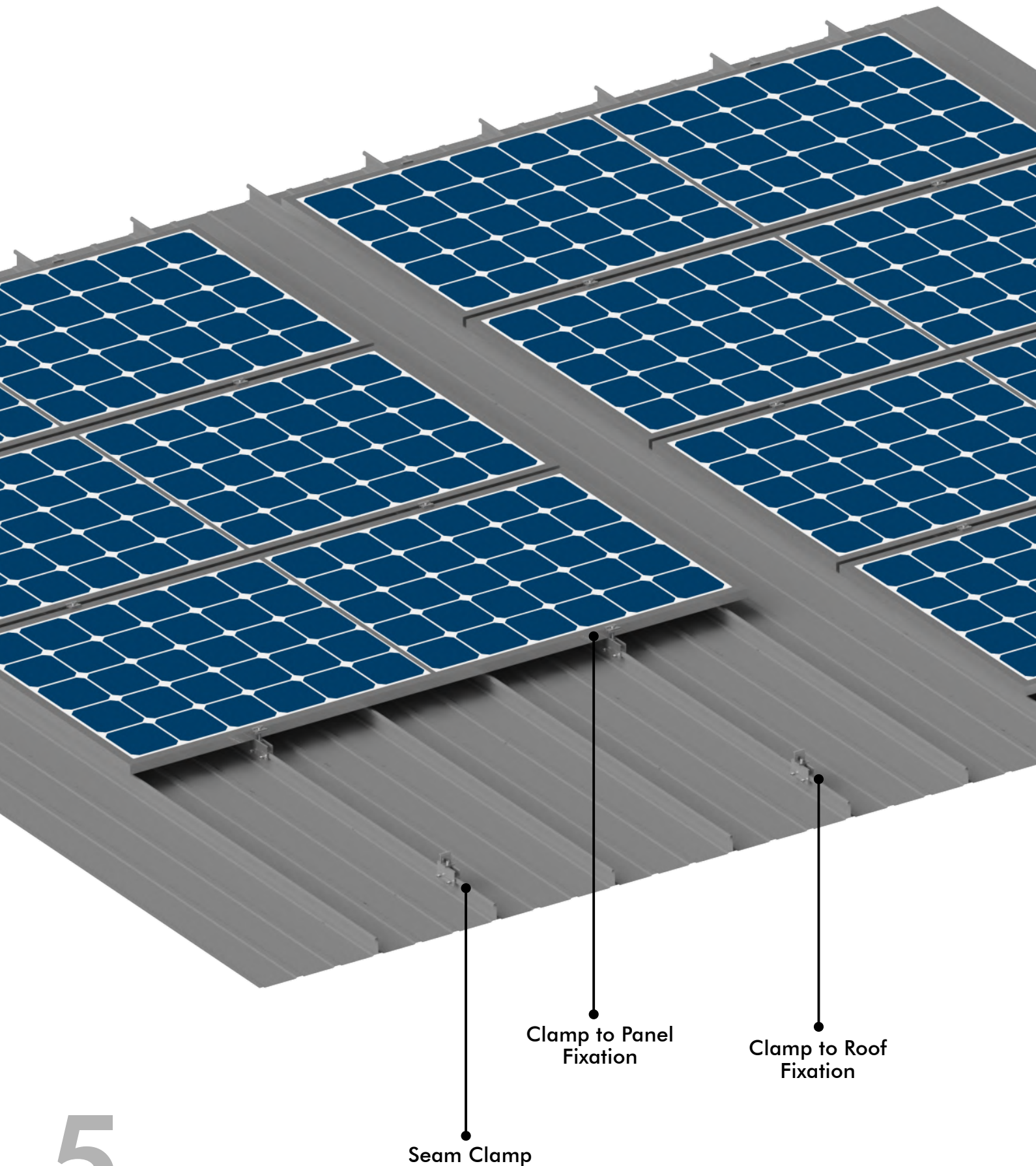
Length: Customized as per requirement



Raw Material Used: Aluminium 6063 T6 | SS 304 | EPDM

STANDING SEAM SYSTEM

LANDSCAPE ORIENTATION



5.

SYSTEM HIGHLIGHTS

Standing Seam System is a lightweight and optimum system for mounting solar PV panels on standing seam roof.

Its easy installation allows to install high capacity of solar panels in reasonably short amount of time.

The system is suitable for a large scale of applications.



Properties

- Lightweight & Optimised system
- Easy Installation & Maintenance
- PV Modules installed in **Landscape** orientation.
- Suitable for standing seam roof profile.
- Compatible with all PV module.
- Cost Effective Solution
- Design Wind Speed - Upto 200 kmph*
- Available in Anodized/Non-Anodized finish.

Seam Clamp Dimensions:

Height: 55 mm | 110 mm

Length: 60 mm | 100mm | Customizable

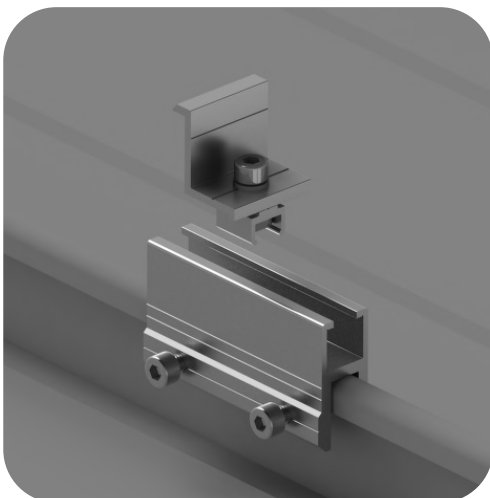
Raw Material Used:

Aluminium 6063 T6 | SS 304 | EPDM

SEAM CLAMP FIXATIONS

Seam Clamp to Roof

Seam Clamp is fixed to the standing seam profile of the roof with grub screws.



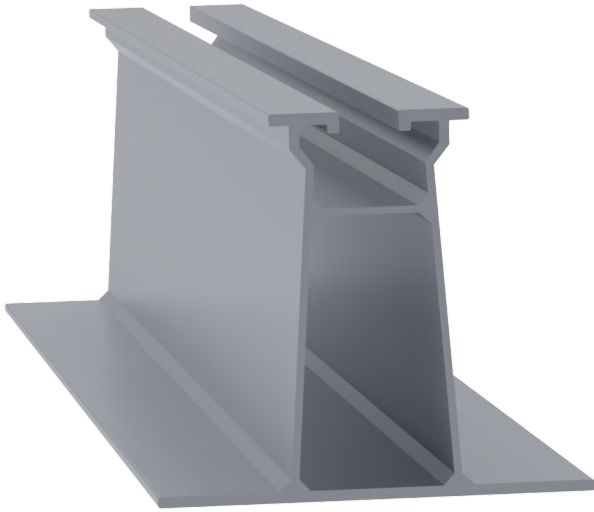
Seam Clamp to Panel

Seam Clamp to Panel fixation is provided by U-clamp or Mid-clamp. Suitable for 30mm, 35mm and 40mm thickness of solar panel.



AL BRACKETS

1. MONO RAIL BRACKET | 65MM



Height: 65mm

Length: 300mm | Customised as per Crest Distance

Raw Material Used: Aluminium 6063 T6

Certifications: TUV Certified for Tensile Strength and Chemical Composition.

2. MONO RAIL BRACKET | 70MM



Height: 70mm

Length: 300mm | Customised as per Crest Distance

Raw Material Used: Aluminium 6063 T6

Certifications: TUV Certified for Tensile Strength and Chemical Composition.

3. MONO RAIL BRACKET | 100MM



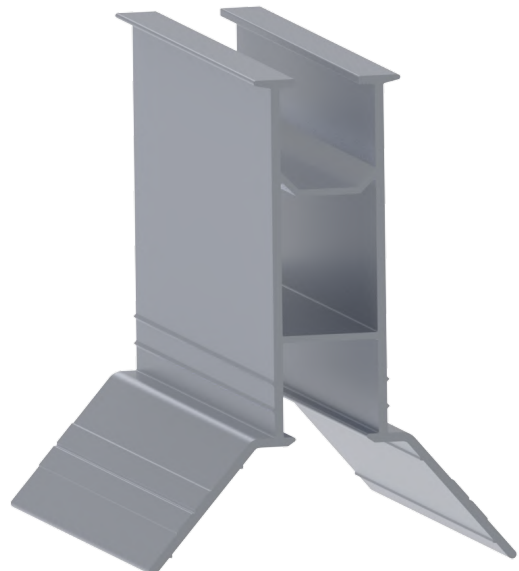
Height: 100mm

Length: 300mm | Customised as per Crest Distance

Raw Material Used: Aluminium 6063 T6

Certifications: TUV Certified for Tensile Strength and Chemical Composition.

4. MINI RAIL BRACKET



Height: 70mm | 100 mm

Length: Customizable

Raw Material Used: Aluminium 6063 T6

Certifications: TUV Certified for Tensile Strength and Chemical Composition.

5. SEAM CLAMP BRACKET | 55MM



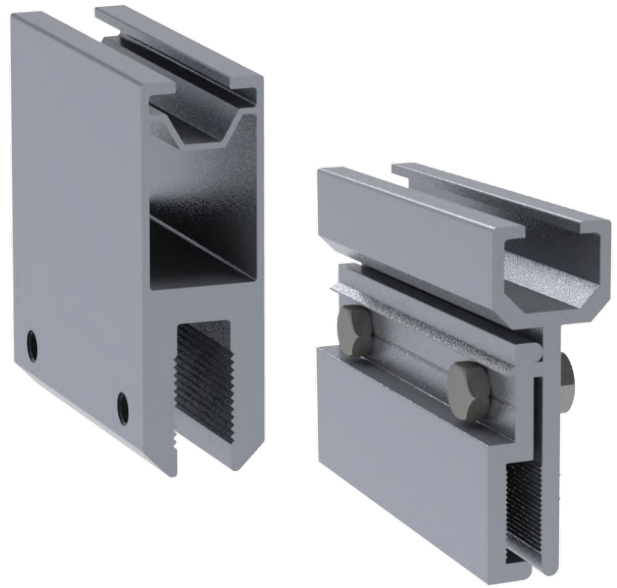
Height: 55mm

Length: 35, 60, 100mm | Customisable

Raw Material Used: Aluminium 6063 T6

Certifications: TUV Certified for Tensile Strength and Chemical Composition.

6. SEAM CLAMP BRACKET | 100MM



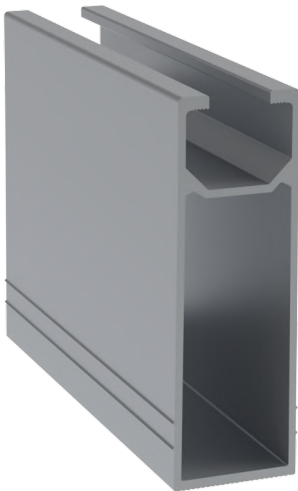
Height: 100mm

Length: 100mm | Customisable

Raw Material Used: Aluminium 6063 T6

Certifications: TUV Certified for Tensile Strength and Chemical Composition.

7. SHORT RAIL ADHESIVE BRACKET | 75MM



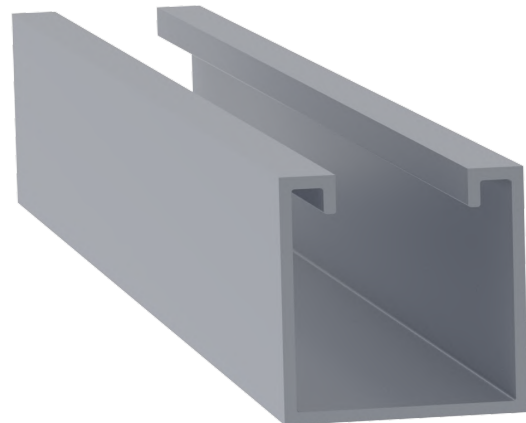
Height: 75mm

Length: 100mm | 150mm | Customisable

Raw Material Used: Aluminium 6063 T6

Certifications: TUV Certified for Tensile Strength and Chemical Composition.

8. STRUT CHANNEL BRACKET | 40MM



Height: 40mm

Length: 100mm | Customisable

Raw Material Used: Aluminium 6063 T6

Certifications: TUV Certified for Tensile Strength and Chemical Composition.

ACCESSORIES

1. U CLAMP

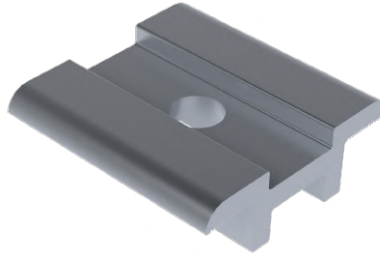


Raw Material Used

Aluminium 6063 T6
Size: Universal

- Quick and Easy Installation
- High Strength
- Compatible with all PV Module
- Long Life & Easy Maintenance
- Cost Effective

2. MID CLAMP



Raw Material Used

Aluminium 6063 T6
Size: Universal

- Quick and Easy Installation
- High Strength
- Compatible with all PV Module
- Long Life & Easy Maintenance
- Cost Effective

3. L/RAIL STAND

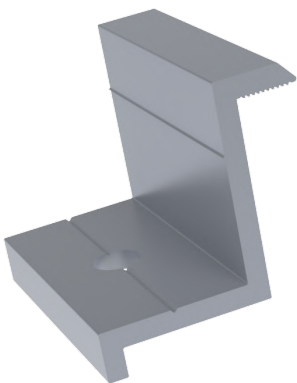


Raw Material Used

Aluminium 6063 T6
Size: 40mm

- Quick and Easy Installation
- High Strength
- Compatible with all PV Module
- Long Life & Easy Maintenance
- Cost Effective

4. END CLAMP

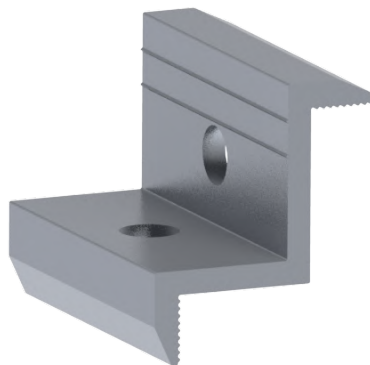


Raw Material Used

Aluminium 6063 T6
Size: 30mm, 35mm, 40mm.

- Quick and Easy Installation
- High Strength
- Compatible with 30mm, 35mm, 40mm PV Modules
- Long Life & Easy Maintenance

5. END CLAMP 30-35mm

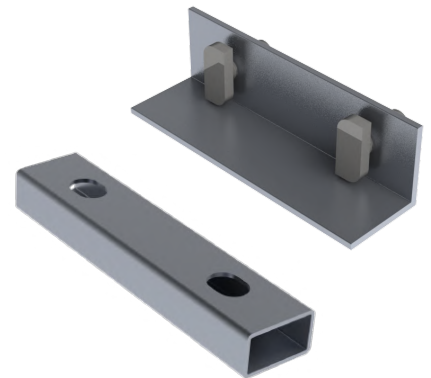


Raw Material Used

Aluminium 6063 T6
Size: 30mm, 35mm

- Quick and Easy Installation
- High Strength
- Long Life & Easy Maintenance
- Compatible with all types of Rail.

6. RAIL JOINER



Raw Material Used

Aluminium 6063 T6
Size: 100

- Quick and Easy Installation
- High Strength
- Compatible with all Rail types.
- Long Life & Easy Maintenance
- Cost Effective

7. RAILING NUT



Raw Material Used

Aluminium 6063 T6
Size: M8

- Quick and Easy Installation
- High Strength
- Long Life & Easy Maintenance
- Compatible with all types of Rail.

8. SPRING NUT



Raw Material Used

Galvanised Iron
Size: M8

- Quick and Easy Installation
- High Strength
- Cost Effective
- Long Life
- Well recognised

9. ALLEN BOLT



Raw Material Used

SS 304
Size: M8x20, 30,40, 45, 50.

- Quick and Easy Installation
- High Strength
- Long Life
- Easy Maintenance

10. T BOLT



Raw Material Used

SS 304
Size: M8x20

- Quick and Easy Installation
- High Strength
- Long Life
- Easy Maintenance

11. FLANGE NUT



Raw Material Used

SS 304
Size: M8

- Quick and Easy Installation
- High Strength
- Long Life
- Easy Maintenance
- Easy Removal

12. HEX BOLT



Raw Material Used

SS 304
Size: M8x16, 25, 35.

- Quick and Easy Installation
- High Strength
- Long Life
- Easy Maintenance

13. SPRING WASHER



Raw Material Used

SS 304

Size: M8

- Quick and Easy Installation
- Provides strength to the bolted joints.
- Prevents loosening of nuts.
- Long Life & Easy Maintenance

14. PLAIN WASHER



Raw Material Used

SS 304

Size: M8

- Quick and Easy Installation
- Provides strength to the bolted joints.
- Prevents loosening of nuts.
- Long Life & Easy Maintenance

15. HEX NUT



Raw Material Used

SS 304

Size: M8

- Quick and Easy Installation
- High Strength
- Long Life
- Easy Maintenance
- Easy Removal

16. GRUB SCREW



Raw Material Used

SS 304

Size: M8x20

- Quick and Easy Installation
- High Strength
- Long Life
- Easy Maintenance

17. BLIND RIVET



Raw Material Used

Aluminium

Size: 4.8x19, 4.8x25.

- Quick and Easy Installation
- High Strength
- Cost Effective
- Long Life
- Well recognised

18. SELF DRILLING SCREW



Raw Material Used

Xylan Coated

Size: 6.3x75, 5.5x75.

- Quick and Easy Installation
- High Strength
- Cost Effective
- One Tool Approach
- Long Life & Easy Maintenance

19. EPDM RUBBER

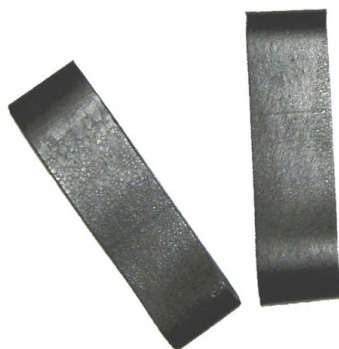


Raw Material Used

100% Genuine EPDM Rubber
Size: 35x40x2.

- 150DN/ASTM Methods Tested
- High Strength & Long life
- Moisture and Heat Resistant
- Versatile & Cost Effective
- Good electrical resistivity

20. EPDM TAPE

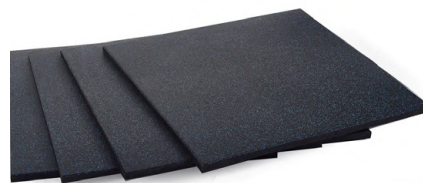


Raw Material Used

100% Genuine EPDM Rubber
Size: 100x20x3, 60x20x5.

- 150DN/ASTM Methods Tested
- High Strength & Long life
- Moisture and Heat Resistant
- Versatile & Cost Effective
- Good electrical resistivity

21. EPDM MAT

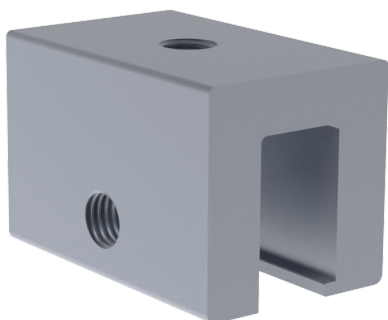


Raw Material Used

100% Genuine EPDM Rubber
Size: 1200x1200x30.

- 150DN/ASTM Methods Tested
- High Strength & Long life
- Moisture and Heat Resistant
- Versatile & Cost Effective
- Good electrical resistivity

22. SEAM CLAMP



Raw Material Used

Aluminium 6063 T6
Size: 35mm

- Quick and Easy Installation
- High Strength
- Compatible with walkway.
- Long Life & Easy Maintenance
- Cost Effective

23. M CLIP FOR WALKWAY



Raw Material Used

Aluminium 6063 T6
Size: 25mm

- Quick and Easy Installation
- High Strength
- Compatible with 25mm walkway.
- Long Life & Easy Maintenance
- Cost Effective

24. FRP WALKWAY



Raw Material Used

Fiberglass Reinforced Plastic
Size: 14mm, 25mm.

- Quick and Easy Installation
- High Strength
- Cost Effective
- Long Life
- Well recognised

Summary: Technical Specifications

Scope of Application	Industrial/ Metal/ Trapezoidal/ Standing Seam/ Asbestos Roof
Rail to Roof Fixation	Rivet/ Xylan SDS/ 150DN grade EPDM/ Adhesive
Rail to Panel Fixation	U-Clamp (Mid Clamp)/ Z-Clamp (End Clamp)
Module orientation	Portrait/ Landscape
Tilt Degree	Along the roof (Flush Mount)/ Inclined (5° to 20°)
Materials	AL 6063 T6/ SS 304/ 100% Genuine EPDM
Design Wind Speed	Up to 200 kmph*



Connect With Us

REGISTERED OFFICE

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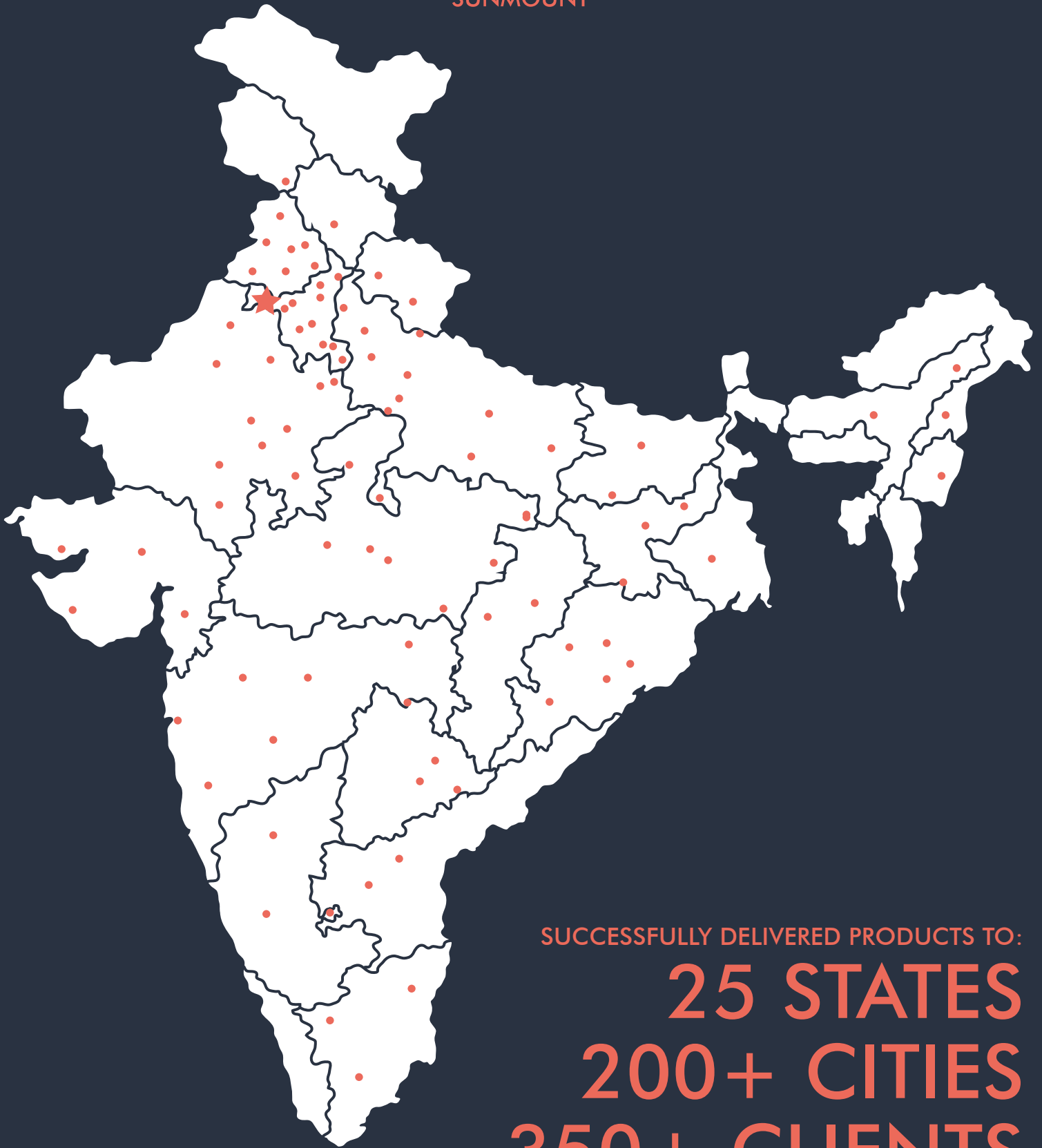


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25 STATES

200+ CITIES

350+ CLIENTS

WITHIN 3 YEARS OF INCEPTION



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www.sunmount.in