



SOLAR

PV MOUNTING SYSTEM

Solar Panel Brackets

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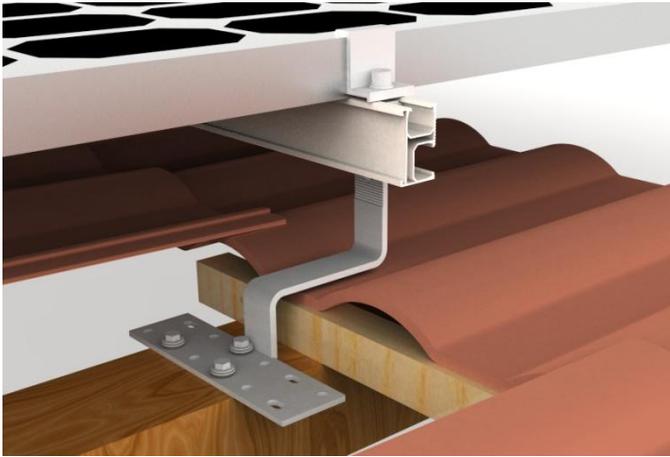
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Tile Roof Mount System

Roman Tile Roof Mount



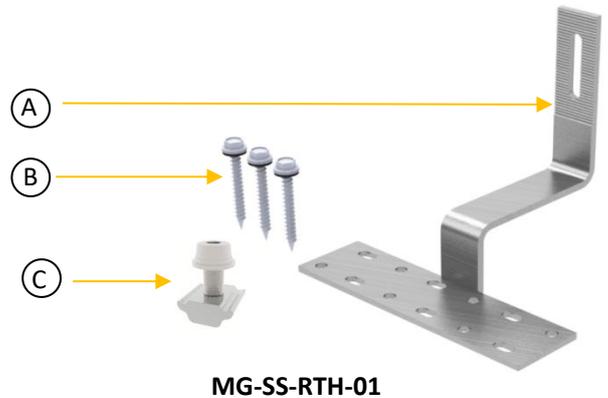
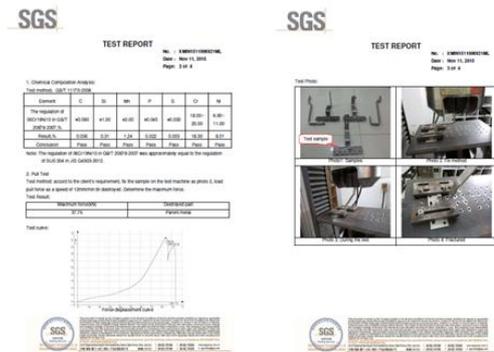
Roman Tile Hook, different options offered to install on top of roof and side of roof rafter

1. Accommodate different types of PV solar panels
2. Custom-made tile hooks based on tile specifications
3. Made of SUS 304
4. Easy and fast installation
5. No need to drill into tile
6. Slotted for easy adjustment

Component List

Component	Quantity
A. Stainless Steel 304 hook	1
B. 6.3x65mm wood screw & EPDM washer	3
C. M8x25mm SUS 304 bolt & rail nut & SUS washer	1

SGS TEST REPORT

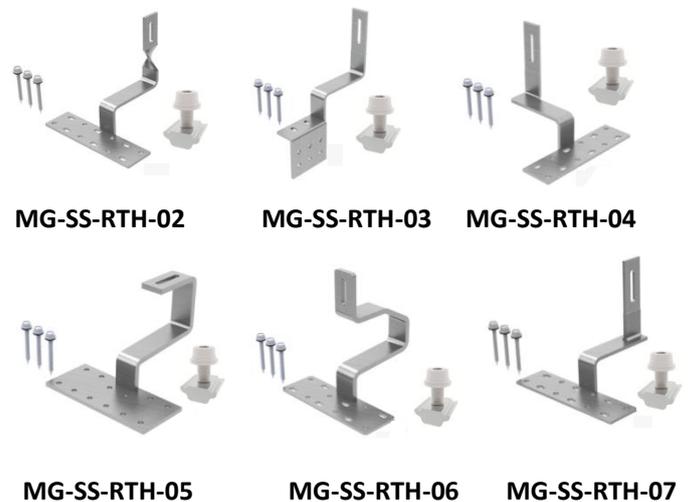


Aluminum Tile Hook



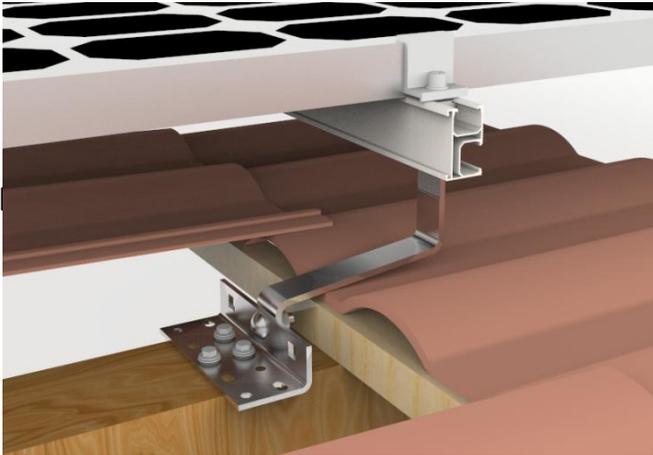
MG-AA-RTH-01

Roman Tile Hook Series



Tile Roof Mount System

Adjustable Tile Roof Mount

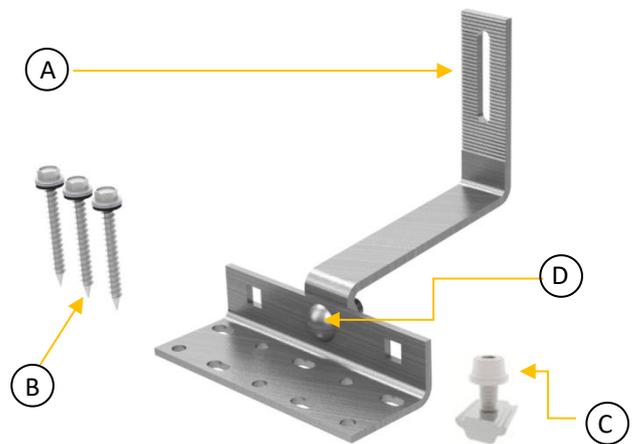


Adjustable Tile Hook can be adjusted horizontally and vertically, which extend the chance where regular tile hook can't be used.

1. Accommodate different types of PV solar panels
2. Custom-made tile hooks based on tile specifications
3. Made of SUS 304
4. Easy and fast installation
5. No need to drill into tile
6. Slotted for easy adjustment

Component List

Components	Quantity
A. Stainless Steel 304 hook	1
B. 6.3x65mm wood screw & EPDM washer	3
C. M8x25mm SUS 304 bolt & rail nut & SUS washer	1
D. M10x25mm bolt & hex nut	1



MG-SS-ATH-01

Adjustable Tile Roof Hook Series



SGS TEST REPORT



TEST REPORT

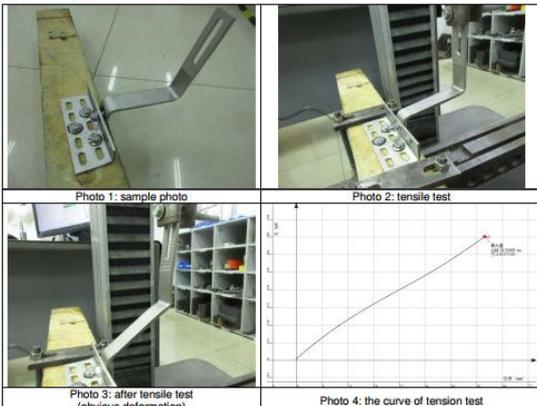
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 Date : Oct 16, 2018
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Pull test:

Test method: According to the client's requirement, the base plate of the hook was fixed to the wood with three 8*100 wood screws, while the wood was fixed to the test bench (see photo 2); Increase the tensile force as 5mm/min until the hook has obvious deformation. Record the force.

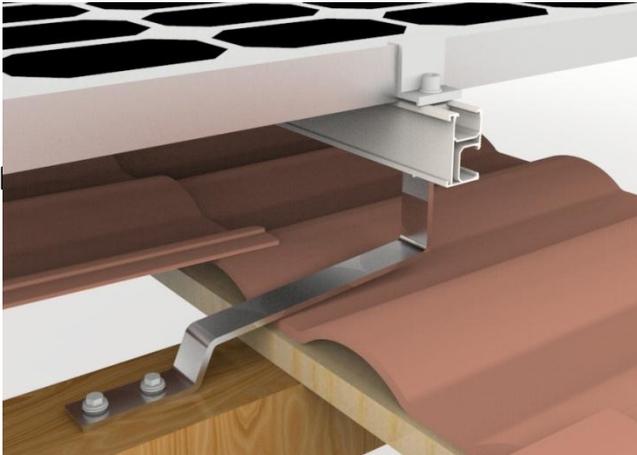
Test result: When the force increased to 4.91kN, hook presented obvious deformation (see photo 3).
 Note: Screws and wood are provided by the customer.

Test Photo(s):



Tile Roof Mount System

Flat Tile Roof Mount

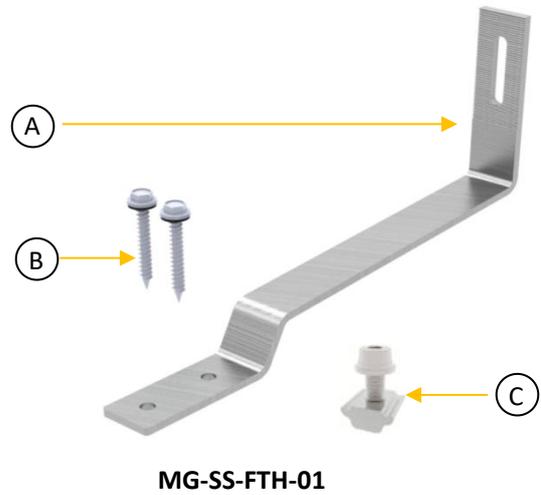


Flat Tile Hook offers the best and easiest solution when install a solar system on cement or flat tile roof.

1. Accommodate different types of flat tile roofs
2. Made of SUS 304
3. Pre-assembled parts for easy and fast installation
4. No need to drill into tile
5. Slotted for easy adjustment

Component List

Components	Quantity
A. Stainless Steel 304 hook	1
B. 6.3x65mm wood screw & EPDM washer	2
C. M8x25mm SUS 304 bolt & rail nut & SUS washer	1



Shingle Tile Roof Hook Series



MG-SS-STH-01



MG-SS-STH-02



MG-SS-STH-03



MG-SS-STH-04



MG-SS-STH-05

Flat Tile Roof Hook Series



MG-SS-FTH-02



MG-SS-FTH-03



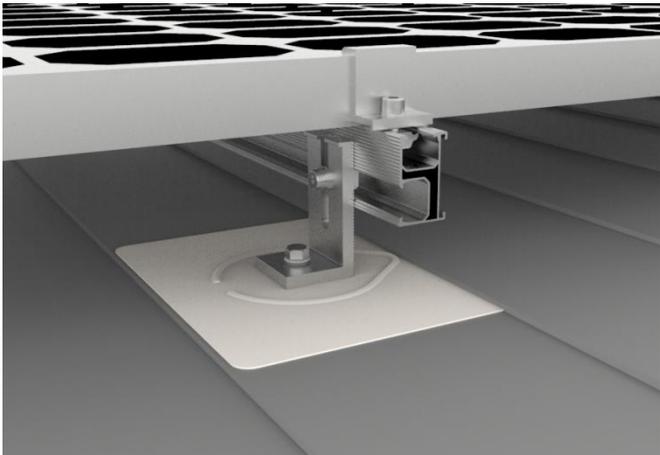
MG-SS-FTH-04



MG-SS-FTH-05

Tile Roof Mount System

Composition Shingle Roof Mount

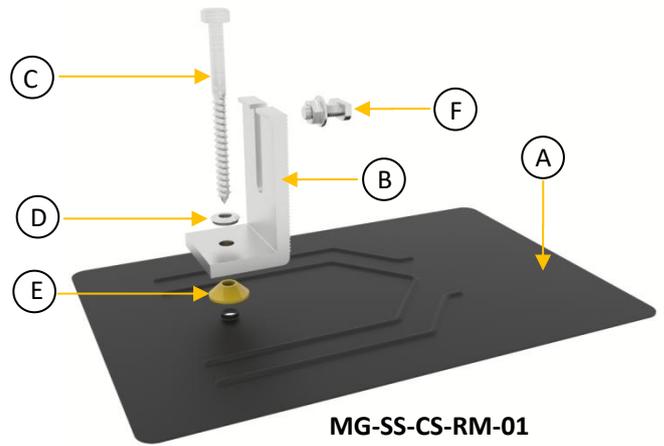


This flashing mount kit is the best solution for composition shingle roof.

1. Simple and fast installation
2. Flashing mount for high water proof protection
3. Waterproof EPDM rubber gasket integrated
4. Flashing and L Foot made of 100% aluminum
5. Hardware included

Component List

Components	Quantity
A. Aluminum flashing	1
B. Aluminum L Foot	1
C. 3/8"-5/16" SUS 304 lag screw	1
D. Waterproof Washer	1
E. Waterproof Rubber Gasket	1
F. M8x25mm T Bolt Kit	1



Composition Shingle Roof Mount Series



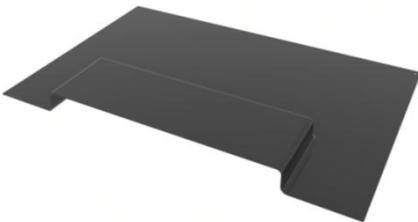
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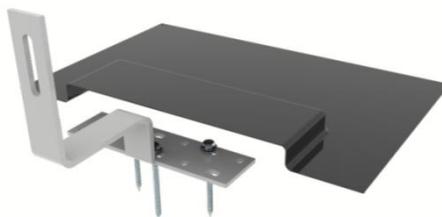
MG-SS-CS-AF-02



MG-SS-CS-AF-03

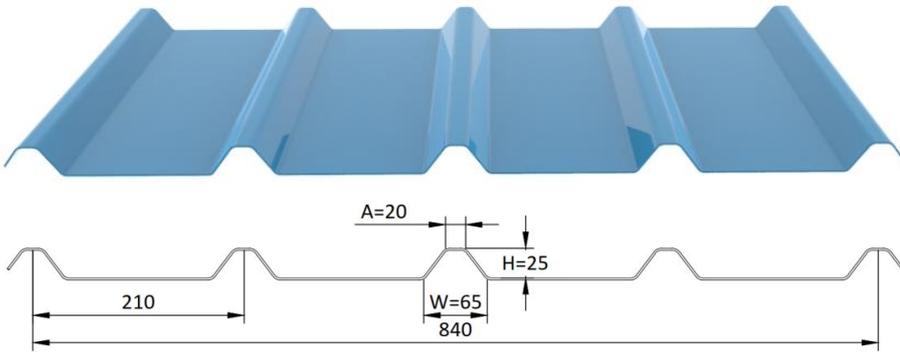


MG-SS-CS-AF-04



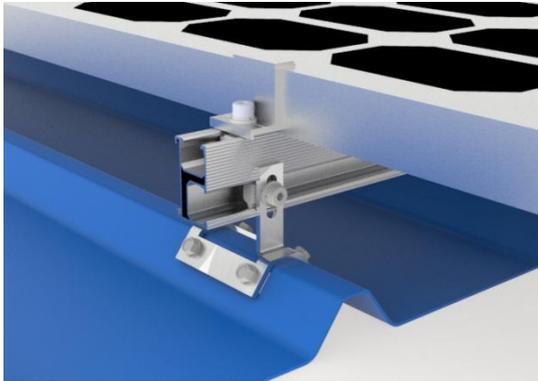
Metal Roof Mount System

Trapezoidal Metal Roof Clamps



Technical Information

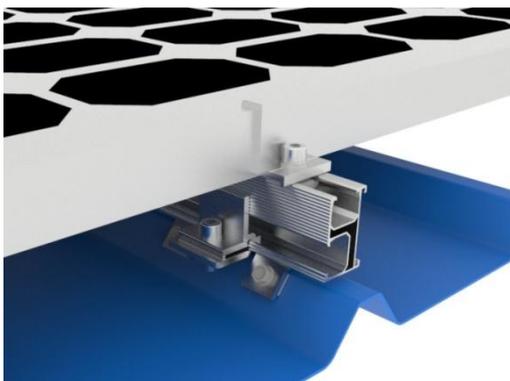
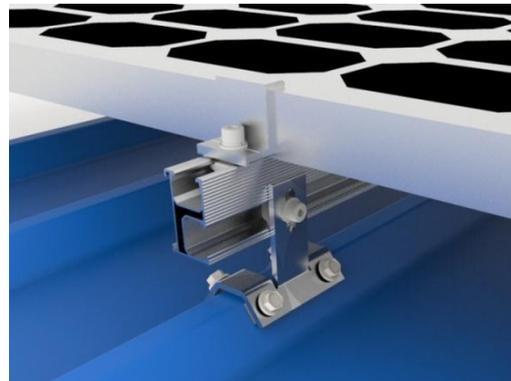
- Material: SUS304 & EPDM
- Application: Trapezoidal Metal Roof
- Fixed Way: Using self-tapping screw to fix the clamps on the roof



MG-SS-MRC-01



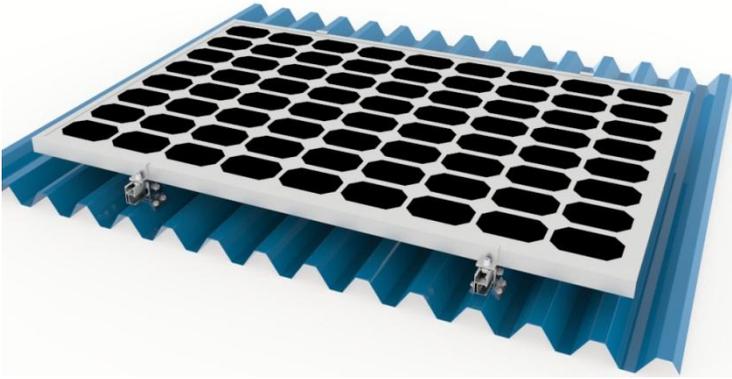
MG-SS-MRC-01-A



MG-SS-MRC-01-B

Metal Roof Mount System

Trapezoidal Metal Roof Clamps



Technical Information

- Material: AL6005-T5 & EPDM
- Application: Trapezoidal Metal Roof
- Fixed Way: Using self-tapping screw to fix the clamps on the roof
- Custom made available for different metal roof

Horizontal Solution



MG-AL-MRC-01



Vertical Solution



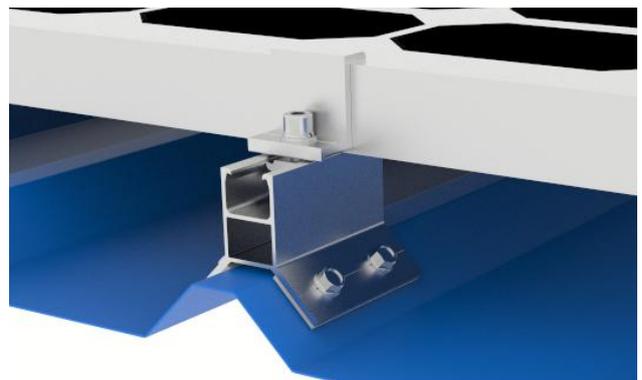
MG-AL-MRC-02



Horizontal & Rail-less Solution

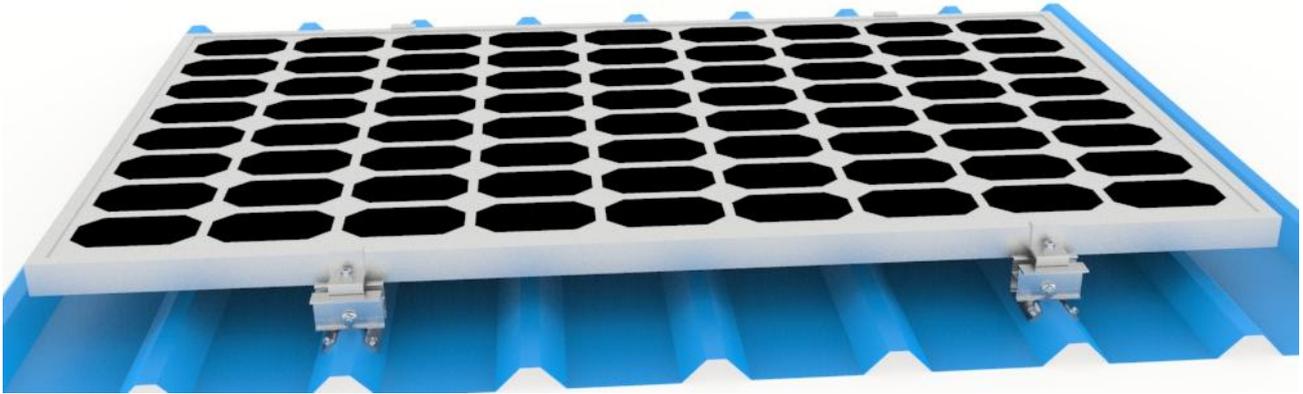


MG-AL-MRC-03

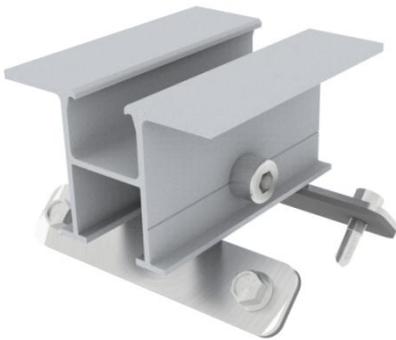


Metal Roof Mount System

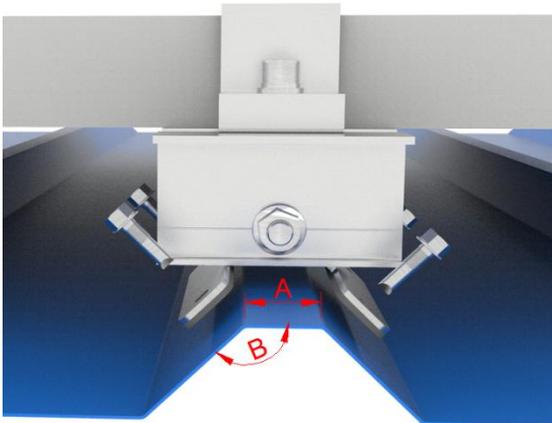
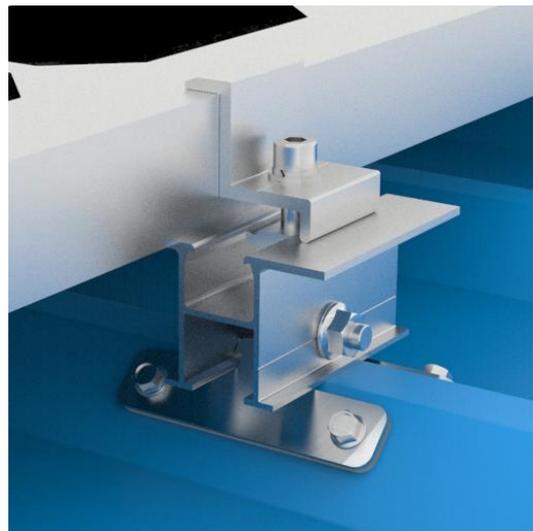
Universal Metal Roof Clamp



Universal Roof Clamp can work with all kinds of trapezoidal metal roof. It is a rail-less solution, it will help you save some cost and labor cost. Use anti-aging EPDM rubber to improve the waterproof performance. The material of this product is made by aluminum alloy (AL 6005-T5) and stainless steel 304 (SUS 304), which has strong corrosion resistance.



MG-UM-RC
Universal Roof Clamp

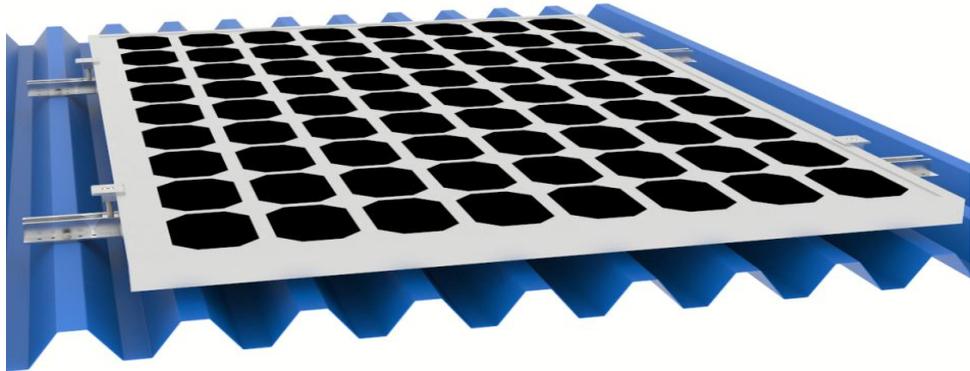


Metal Roof Sheet Specification

	Min.	Max.
A	20 mm	60 mm
B	90 degree	140 degree

Metal Roof Mount System

Universal Metal Roof Clamp



This type mini rail can work with all kinds of trapezoidal metal roof. It was made by aluminum alloy, which has strong corrosion. For this solution, it can save at least 80% cost and 50% installation time.

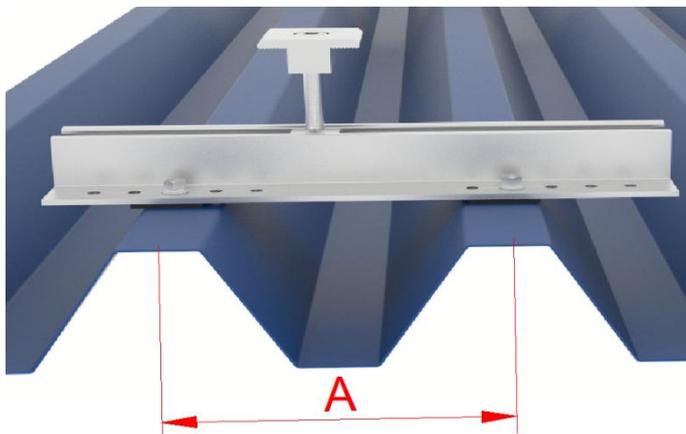
Common use length of mini rail: 250mm, 300mm and 400mm.



MG-AL-MRC-04
Vertical & Rail-less Solution



MG-AL-MRC-04-B
Vertical & Rail-less Solution

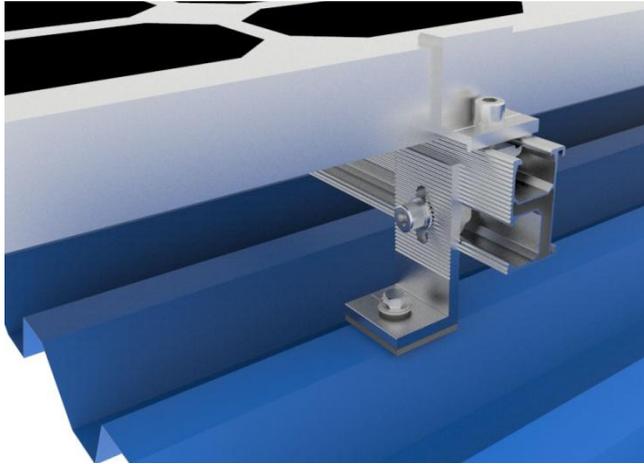


Metal Roof Sheet Specification

LENGTH		Min.	Max.
250mm	A	80mm	220mm
300mm	A	130mm	270mm
400mm	A	230mm	370mm

Metal Roof Mount System

L Foot Mount



L Foot mount have been widely used on universal corrugated metal sheet roof. It also can fix to the roof rafter directly.

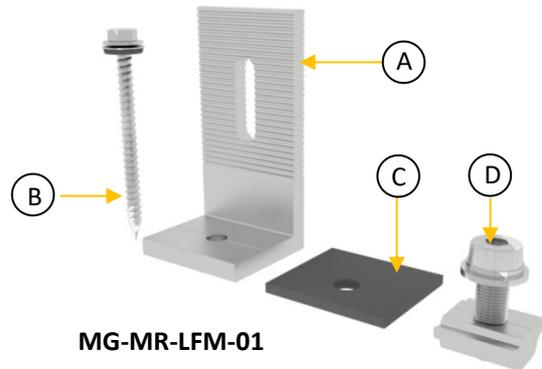
Plus, it can be applied with all kinds of hanger bolt and roof clamps.

Features

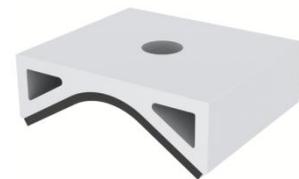
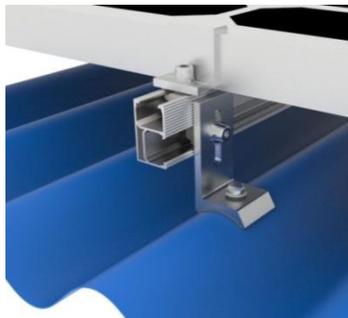
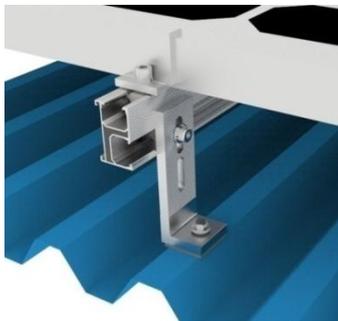
1. Simple and cost-effective installation
2. Material: Aluminum 6005-T5 & SUS 304
3. Waterproof rubber gasket integrated
4. Apply for many kinds of metal roof

Components List

Components	Quantity
A. L Foot Mount	1
B. M6.3x80mm wood screw	1
C. Rubber Gasket	1
D. M8X25 SUS 304 bolt& rail nut & SUS washer	1



Specification



Metal Roof Mount System

Hanger Bolt Mount



MG-MR-HB

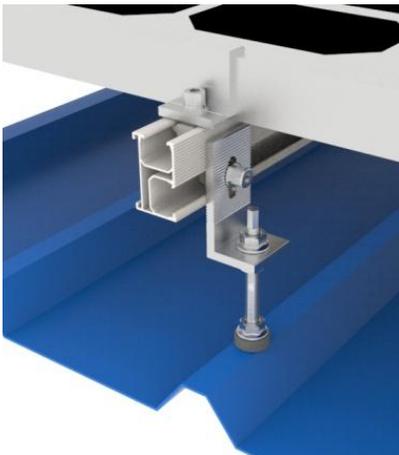
MG-MR-HB-S

Hanger Bolt apply to install on both wooden rafter and steel purlin. Both types can be applied with L Foot and plate. There are three sizes most common use, M10x200mm, M12x200mm and M12x300mm Hanger bolt.

Features

1. Fast and simple installation
2. Made of SUS 304
3. Highly corrosion resistant surface treatment
4. Waterproof EPDM rubber integrated
5. Wooden rafter and steel purlin options

Hanger Bolt Mount Series

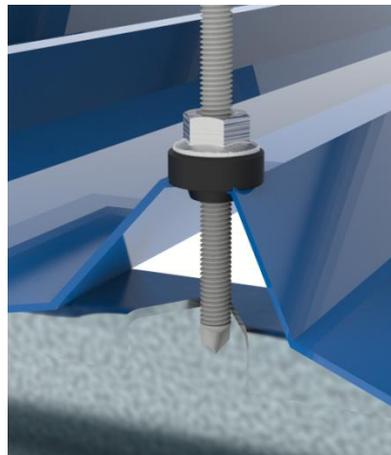


MG-MR-HB-01



MG-MR-HB-02

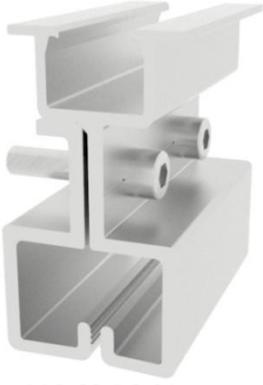
Application



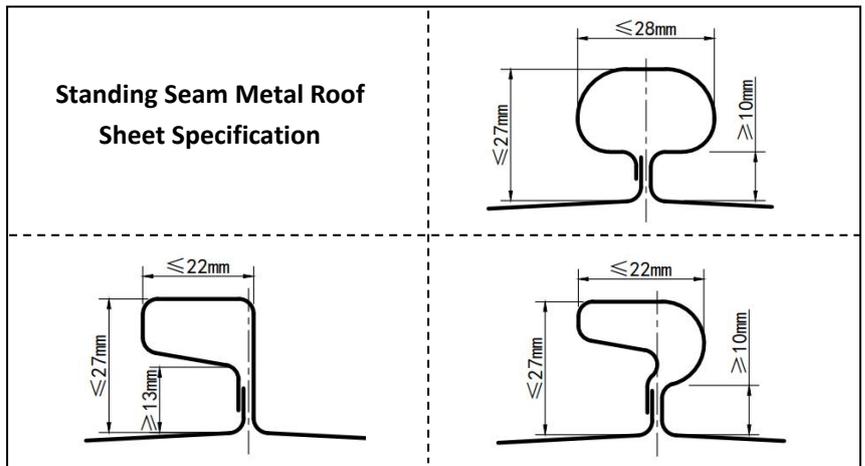
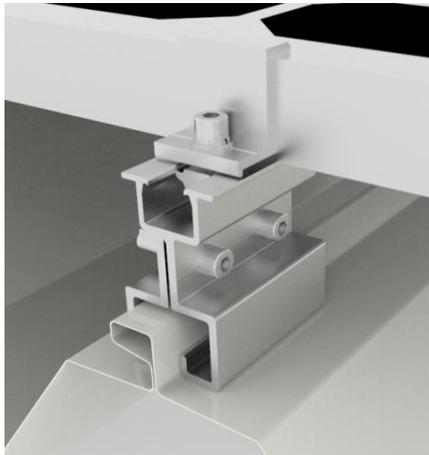
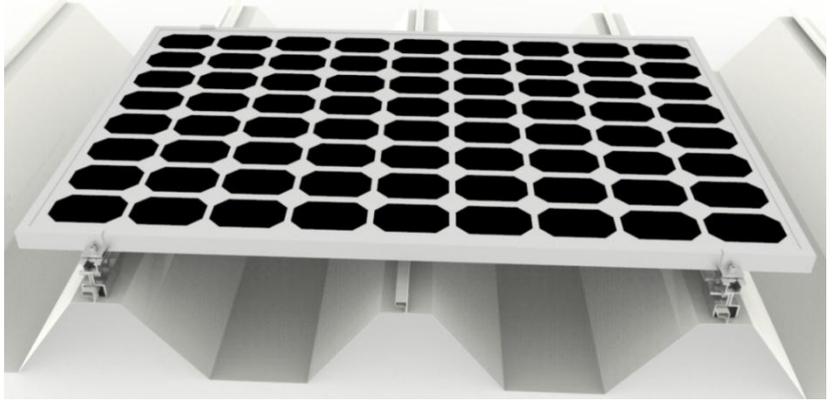
MG-MR-HB-S-01

Metal Roof Mount System

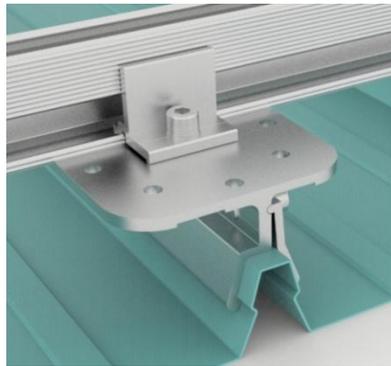
Standing Seam Roof Clamps



MG-SS-RC-01



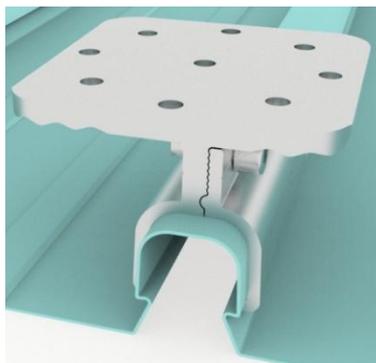
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MG-SS-RC-04

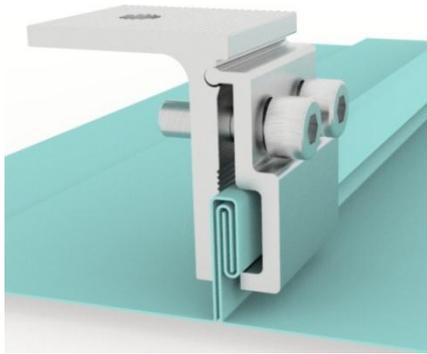


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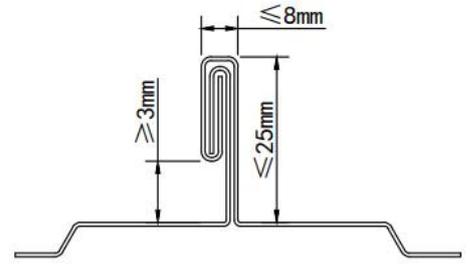


Metal Roof Mount System

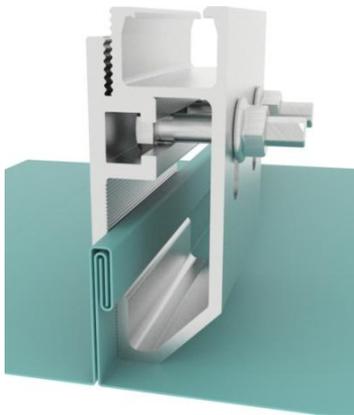
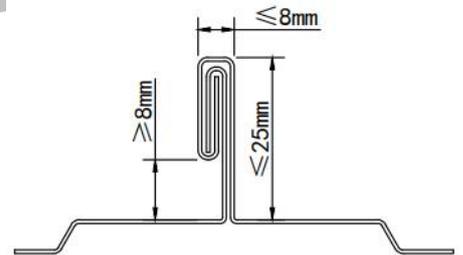
Standing Seam Roof Clamps



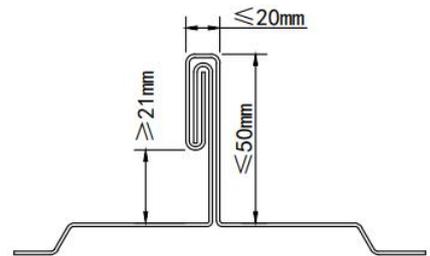
MG-SS-RC-05



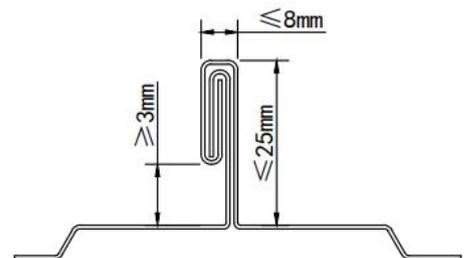
MG-SS-RC-06



MG-SS-RC-07

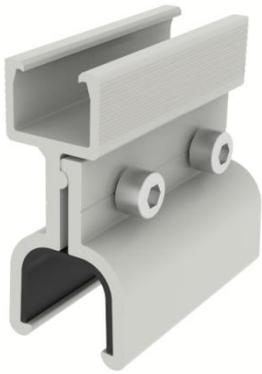
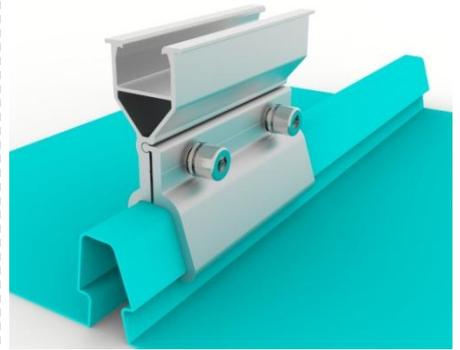
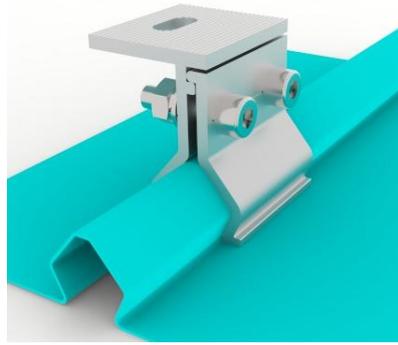
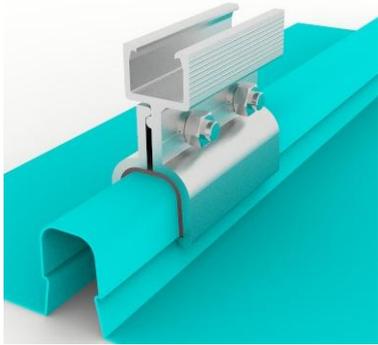


MG-SS-RC-08



Metal Roof Mount System

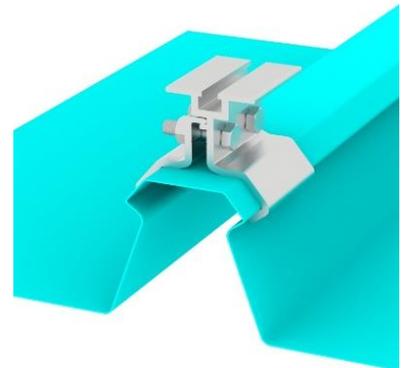
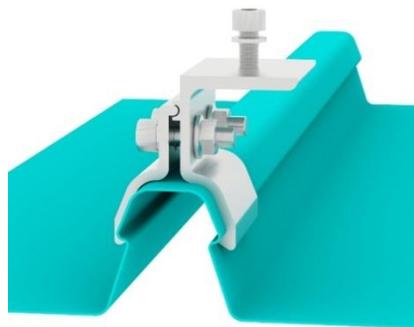
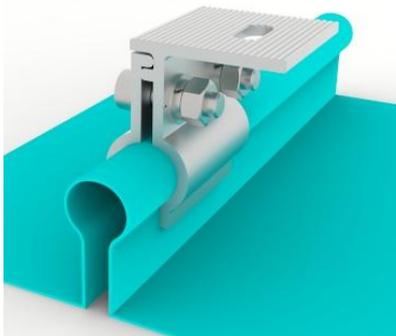
Standing Seam Roof Clamps



MG-SS-RC-09

MG-SS-RC-10

MG-SS-RC-11



MG-SS-RC-12

MG-SS-RC-13

MG-SS-RC-14

Roof Components

Rail & Splice for roof

These rails are designed for all kinds of roof type. It comes with high quality, high strength and low cost.

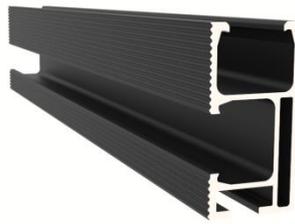
Features:

- 1. Material: Aluminum 6005-T5
- 2. Flexibility and compatible
- 3. Universal
- 4. Natural and black available

Roof Rail Series



MG-RR-CH



MG-RR-BH



MG-RR-CL1



MG-RR-BL1



MG-RR-CL2



MG-RR-BL2



Assembled Diagram

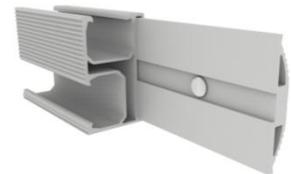
Rail Connector Series



MG-RRC-CA-01



MG-RRC-BA-01



Assembled Diagram



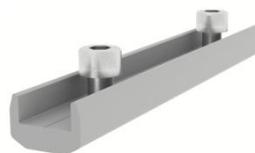
MG-RRC-CA-02



MG-RRC-BA-02



Assembled Diagram



MG-RRC-CA-04



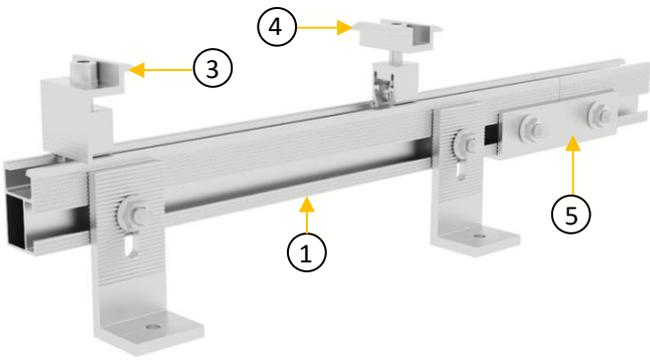
MG-RRC-BA-04



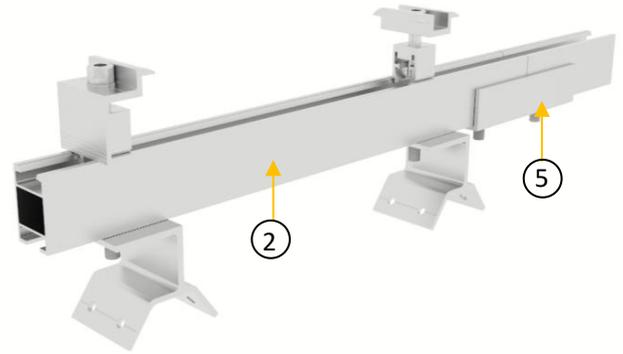
Assembled Diagram

Roof Components

Clamps fixed on the side of the rail



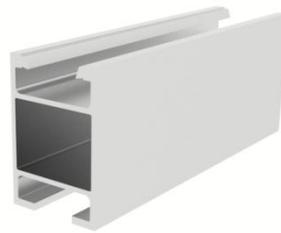
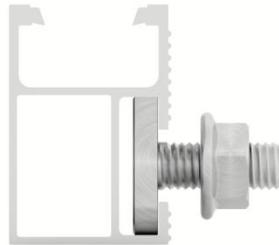
Clamps fixed on the bottom of the rail



Using T bolt to connect the rail with clamps, it is very easy to install and fix firmly.



① MG-RR-CL3



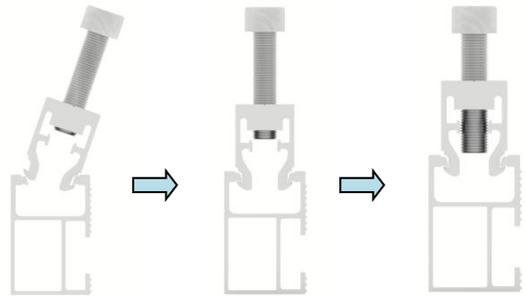
② MG-RR-CL4



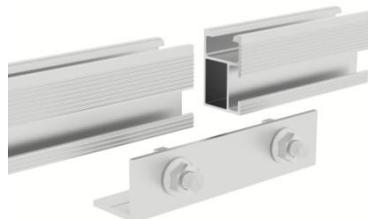
③ MG-NEC-F



④ MG-NMC-F



⑤ MG-RRC-CA-03



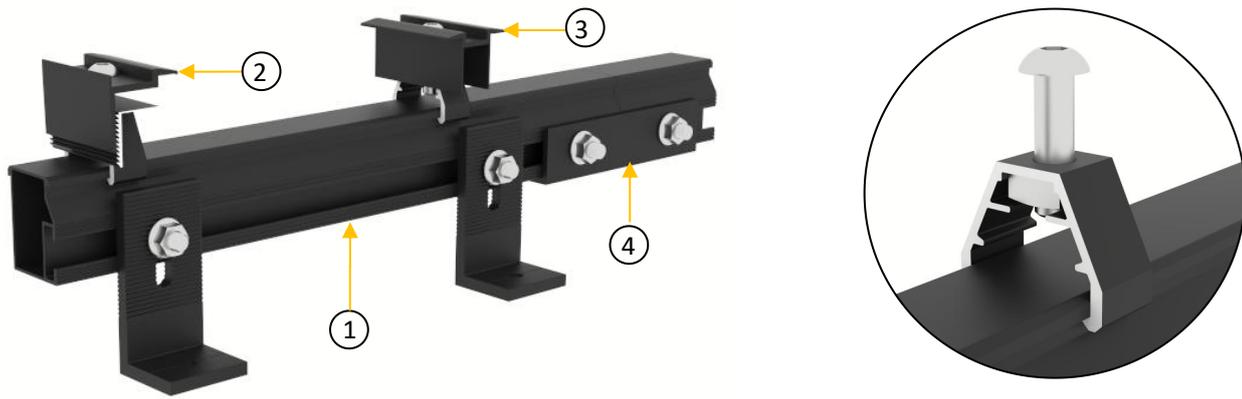
Using Rail Connector Kit to joint Roof Rail 03#



Using Rail Connector Kit to joint roof Rail 04#

Roof Components

Clamps fixed on the side of the rail



Using T bolt to connect the rail with clamps, it is very easy to install and fix firmly.



① MG-RR-CL7

Adjustable mid/end clamp can work with 30mm~45mm thickness solar panel

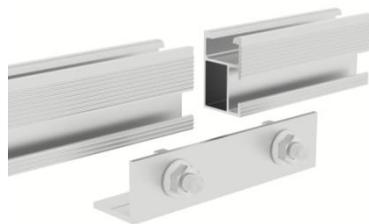


③ MG-EC-B-F30/45

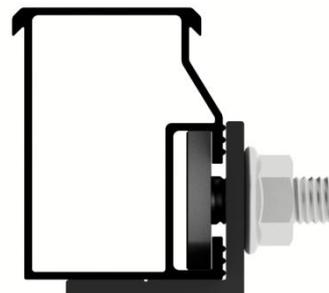
④ MG-MC-B-F30/45



⑤ MG-RRC-CA-03



Using Rail Connector Kit to joint Roof Rail 03#



Roof Components

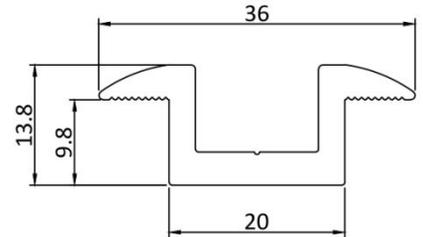
Mid Clamp Series

MG-MC-N-F Mid Clamp Kit

30/32/35/40/45/50 mm (the thickness of solar panel)



MG-MC-N Mid Clamp

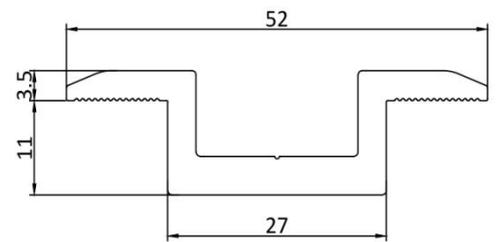


MG-AGM-MC-F Mid Clamp Kit

25/30/35/40/45/46/50 mm

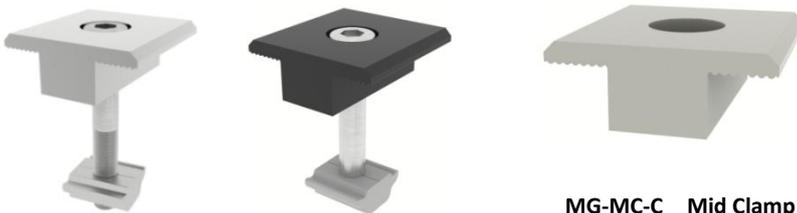


MG-AGM-MC Mid Clamp

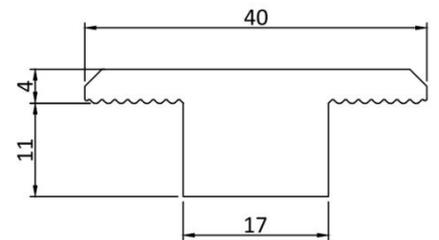


MG-MC-C-F Mid Clamp Kit

30/32/35/40/45/50 mm



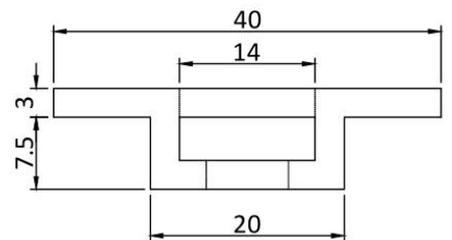
MG-MC-C Mid Clamp



MG-RV-C-MC-F Mid Clamp Kit



MG-RV-C-MC Mid Clamp

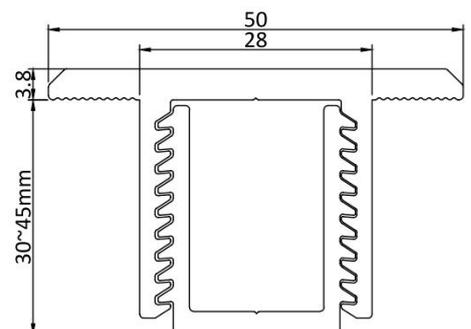


MG-AMC-K Adjustable Mid Clamp Kit

Adjustable Range: 30mm~45 mm



MG-AMC-C Adjustable Mid Clamp



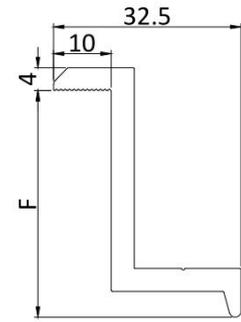
Roof Components

End Clamp Series

MG-EC-K-F End Clamp Kit
F=30/35/40/45/50 mm



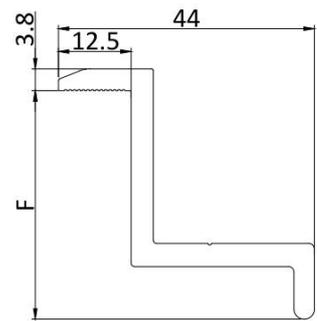
MG-EC-C-F30/35/40/45/50 End Clamp



MG-AGM-EC-K-F End Clamp Kit
F=25/30/32/35/40/45/46/50 mm



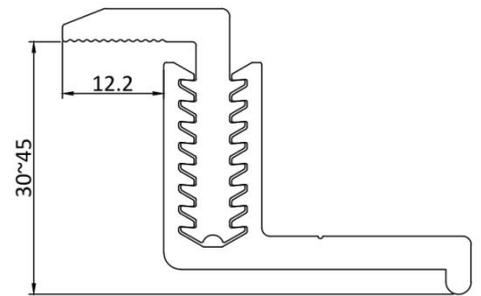
MG-AGM-EC-C-F25/30/32/35/40/45/50 End Clamp



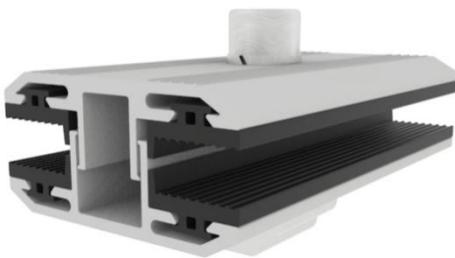
MG-AEC-K-N Adjustable End Clamp Kit



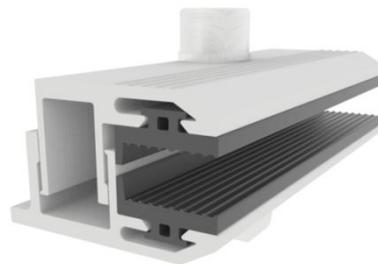
MG-AEC-C-N



MG-TF-MCK-L80 Thin Film Mid Clamp Kit, 80 mm
MG-TF-MCK-L120 Thin Film Mid Clamp Kit, 120 mm



MG-TF-ECK-L80 Thin Film End Clamp Kit, 80 mm
MG-TF-ECK-L120 Thin Film End Clamp Kit, 120 mm

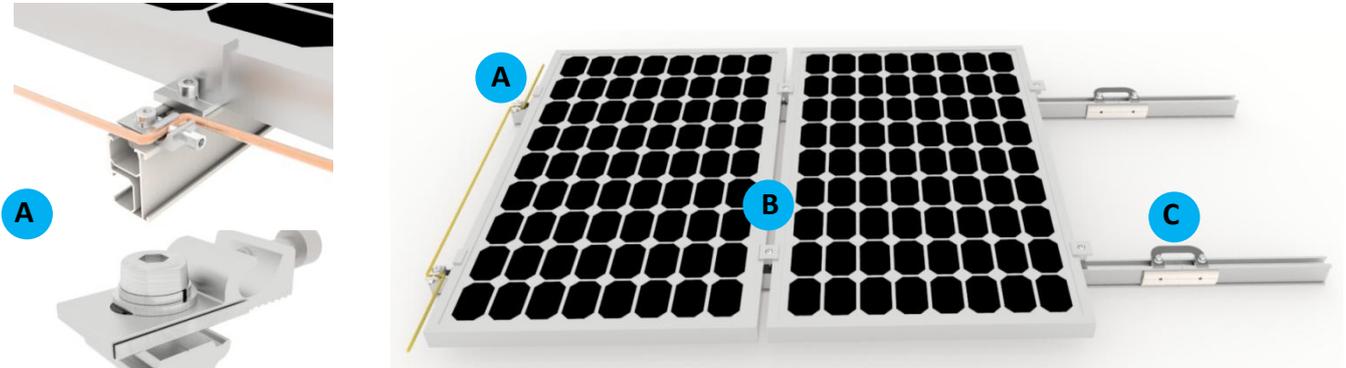


- ◆ Suitable for 5~9mm thickness solar panel;
- ◆ 80mm and 120mm length are common use;
- ◆ 150mm and 200mm length are also available;
- ◆ Customized can be accepted;

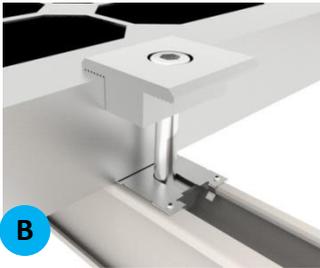
Grounding System

Grounding Accessories

Grounding products can be used to bond solar modules to the aluminum rails and the aluminum rails to ground, so that the entire solar system is grounded and safe; Grounding products include the stainless steel grounding clip, grounding lug and braided copper wire, which are all designed to comply with the requirement of AS5033, UL467 for bonding or grounding systems.



MG-GS-RGL Rail Ground Lug



MG-GS-GC-01 Grounding Clip 01#

Grounding Clip will penetrate module and rail and create an electrical path through rail.



MG-GS-GC-02



MG-GS-GC-03



MG-GS-GC-04



MG-GS-GC-05



MG-GS-GC-06



Electrically connect spliced Rails



MG-GS-BCS Braided Copper Wire

Cable Clip Series



MG-GS-CC-01



MG-GS-CC-02



MG-GS-CC-03



MG-GS-CC-04

Adjustable Tilt Roof Mount System



Features

1. Adjustable tilt angle per different request
2. Highly pre-assembled parts on factory can save installation time on site and labor cost
3. Simple and fast installation
4. Waterproof EPDM rubber integrated
5. Hardware included
6. Customized request can accept

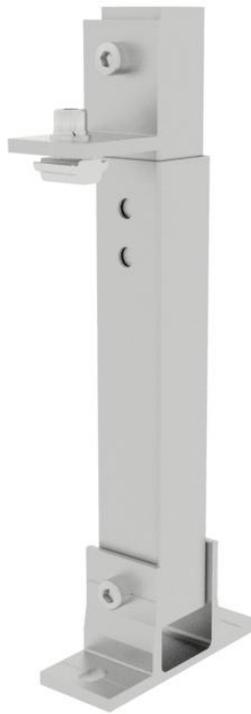
Component List



1. Front Leg



Connect to rail



2. Rear Leg

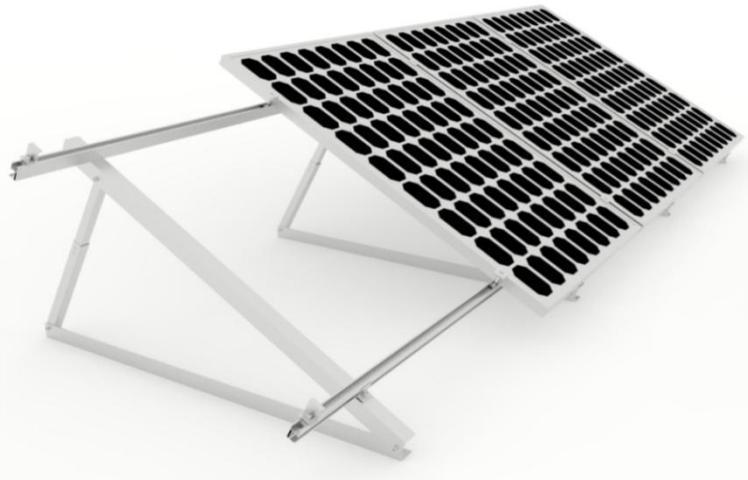


Connect to rail

Technical Information

Item No.	Description	Length of Rear Leg
MG-AD-FL	Front Leg	~
MG-AD-RL10/15	Rear Leg, adjustable angle 10~15°	240~360mm
MG-AD-RL15/30	Rear Leg, adjustable angle 15~30°	340~680mm
MG-AD-RL30/60	Rear Leg, adjustable angle 30~60°	700~1200mm

Flat Roof Mount System I



Features:

1. Adjustable tilt angle per different request;
2. Highly pre-assembled parts on factory can save installation time on site and labor cost;
3. Simple and fast installation;
4. Hardware included;
5. Customized request can accept.

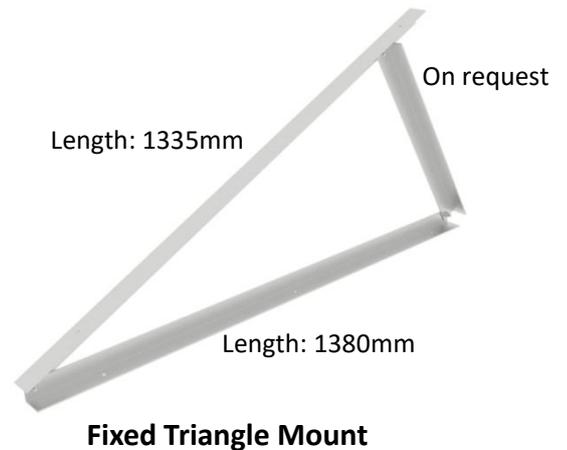
Technical information

Application: Commercial & residential area

Max Wind Speed: 60m/s

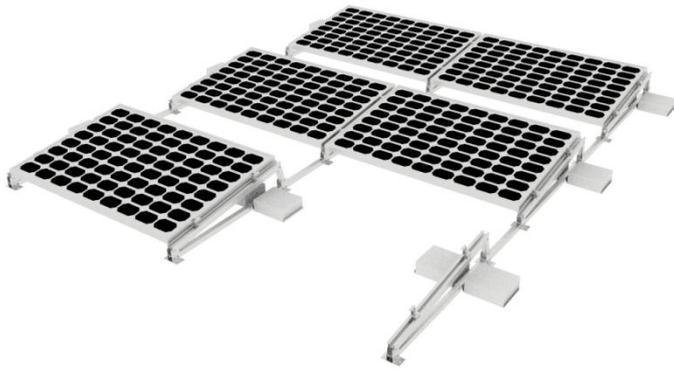
Material: Aluminum 6005-T5

Fixed Triangle Mount		
Item No.	Description	Length of Back Tilt
MG-FT-RM-15	Fixed Triangle Mount, Tilt angle 15°	405mm
MG-FT-RM-20	Fixed Triangle Mount, Tilt angle 20°	505mm
MG-FT-RM-30	Fixed Triangle Mount, Tilt angle 30°	705mm



Adjustable Triangle Mount		
Item No.	Description	Adjustable Angle Range
MG-AT-RM-10/15	Adjustable Triangle Mount, 10/15°	10~15°
MG-AT-RM-15/30	Adjustable Triangle Mount, 15/30°	15~30°

Flat Roof Mount System II



Introduction

Flat Roof Mount System II is suitable for flat roof and tilted roof. Fixed angle and adjustable angle are both acceptable, you can choose one way to install, it will improve the applicability. This system will not damage the roof waterproof structure. Products are fully used aluminum alloy AL6005-T5 and stainless steel 304, it makes products have strong corrosion resistance. The components are pre-assembled in factory, it makes installation easy and quick to save your cost and time.

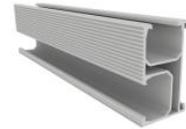
Technical Information:

- Installation Site: Flat Roof or Pitched Roof
- Max Wind Speed: <math>< 60\text{m/s}</math>
- Max Snow Load: <math>< 1.4\text{KN/M}^2</math>
- Fixed Angle: $5^\circ \sim 60^\circ$
- Adjustable Angle: $5^\circ \sim 15^\circ, 15^\circ \sim 30^\circ, 30^\circ \sim 60^\circ$
- Anti-corrosion: Anodized Aluminum 6005-T5 & Stainless Steel 304
- Warranties: 12 years warranties & 20 years service life

Components List



Pre-assembled Flat Roof Mount II



Roof Rail



Ballast Plate



Rail Clamp



Mid Clamp

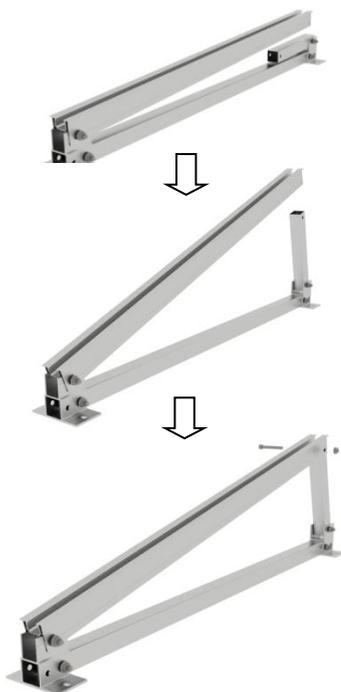


End Clamp



Rail Connector

Pre-assembled Part Installation



Foundation Type



Rail-less & Ballast Foundation



Ballast Foundation



Concrete Block Foundation

Flat Roof Mount System III(East-West)



Technical Information:

- Installation Site: Flat Roof
- Module Orientation: Landscape
- Material: Aluminum 6005-T5
- Max Wind Speed: <60m/s
- Max Snow Load: <1.4 KN/M²
- Tilt Angle: 5° ~ 30°
- Warranties: 12 Years

Features & Benefits

- Non-Penetrating to roof
- Pre-assembled parts for simple and fast installation
- Minimize roof space limitation
- Fixed angle or adjustable angle both acceptable
- Rail-less
- Suitable for all orientations installation
- Optimize high power production

Components List



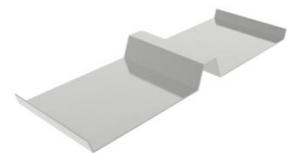
East-West Flat Roof Mount



Mid Clamp



End Clamp

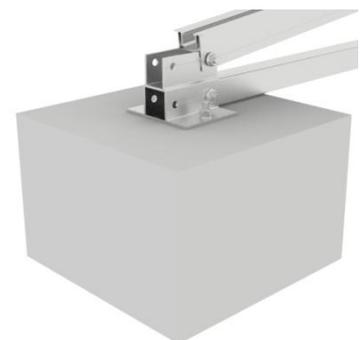


Ballast Plate

Pre-assembled Mount Installation



Specification



Flat Roof Mount System IV (Two Rows)



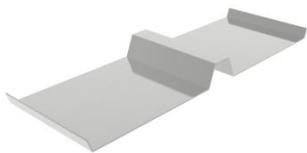
Features & Benefits

- a) Non-Penetrating to roof
- b) Pre-assembled parts for simple and fast installation
- c) Rail-less
- d) Hardware included
- e) Customized request can be accepted

Technical Information:

- Installation Site: Flat Roof
- Module Orientation: Landscape
- Material: Aluminum 6005-T5
- Max Wind Speed: <60 m/s
- Max Snow Load: <1.4 KN/M2
- Tilt Angle: 5° ~ 30°
- Warranties: 12 Years

Components List



Ballasted Plate



Mid Clamp

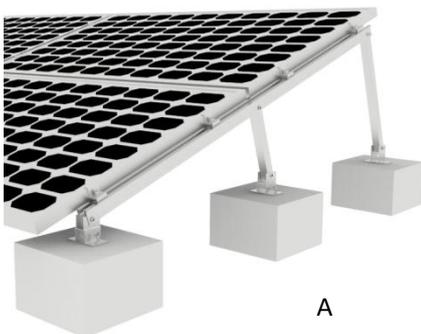


End Clamp

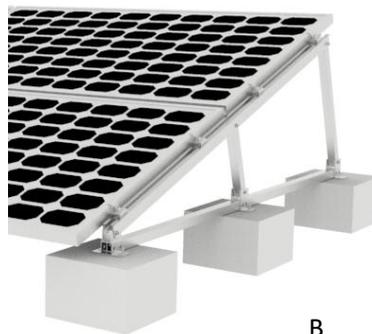


Pre-assembled Flat Roof Mount

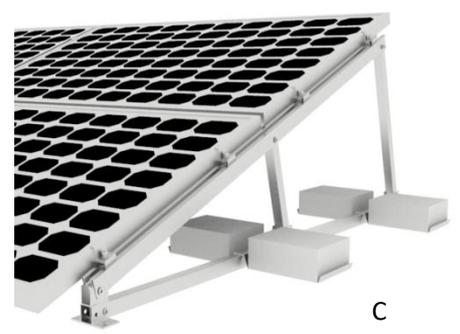
Application Type



A



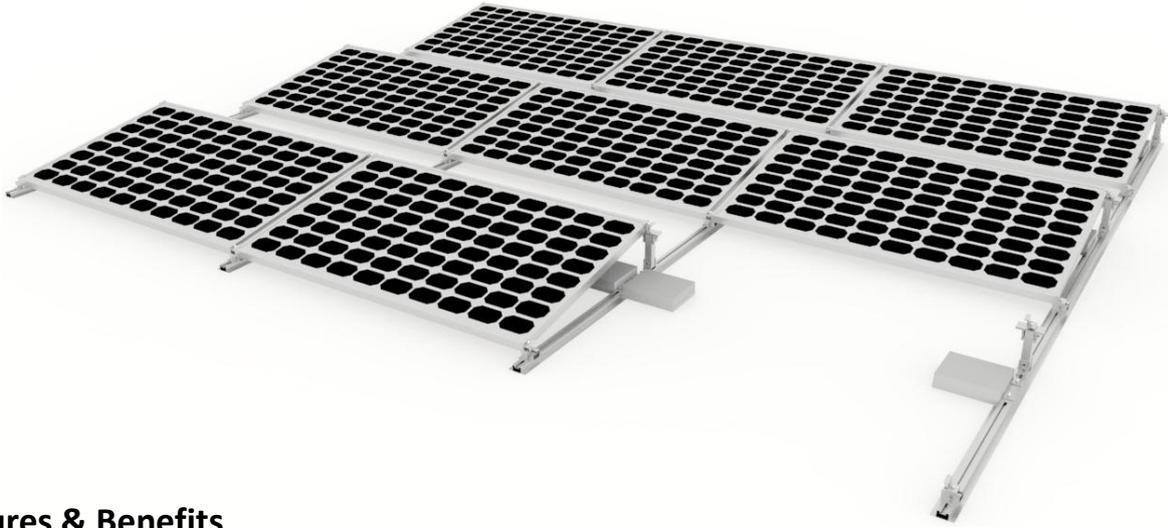
B



C

Flat Roof Mount SystemV

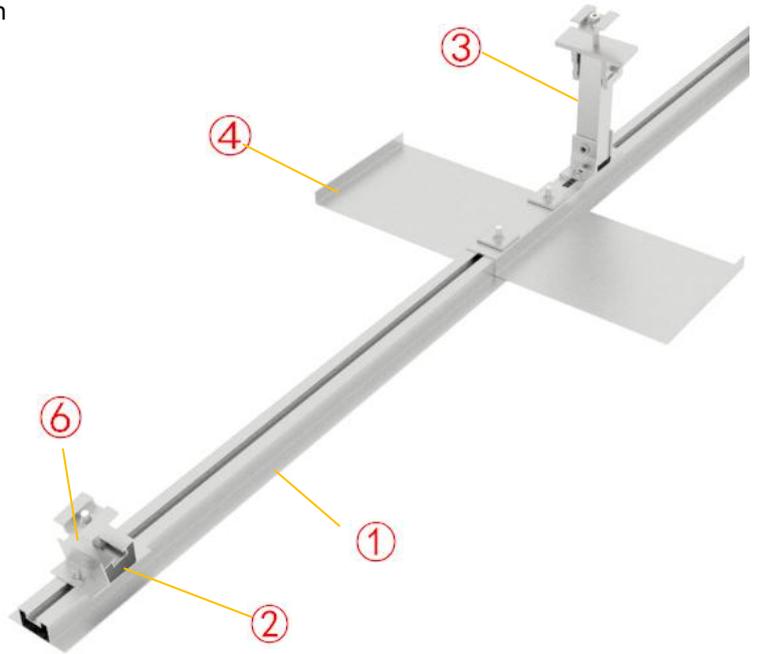
Aluminum Ballasted Flat Roof Mount



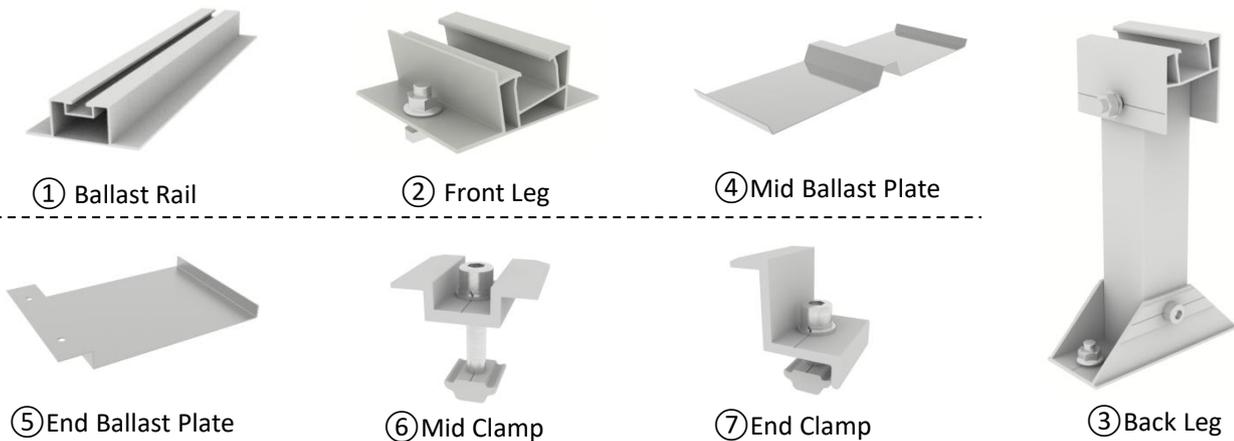
Features & Benefits

1. Pre-assembled parts for simple and fast installation
2. Non-Penetrating to rafters
3. Easily works around obstacles and uneven terrain
4. Light, sturdy material for a cost-efficient system

Specification	
Tilt Angle	5° 、 10° 、 15°
Max Wind Speed	42m/s
Max Snow load	1.4KN/m ²
Material	AL6005-T5 & SUS304

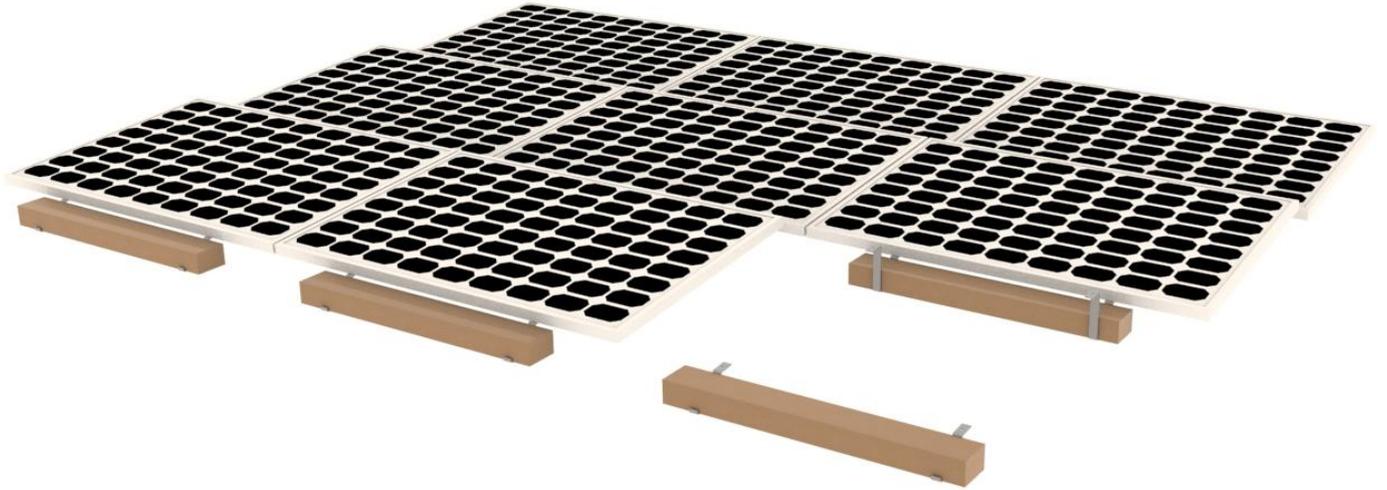


Components List



Flat Roof Mount SystemVI

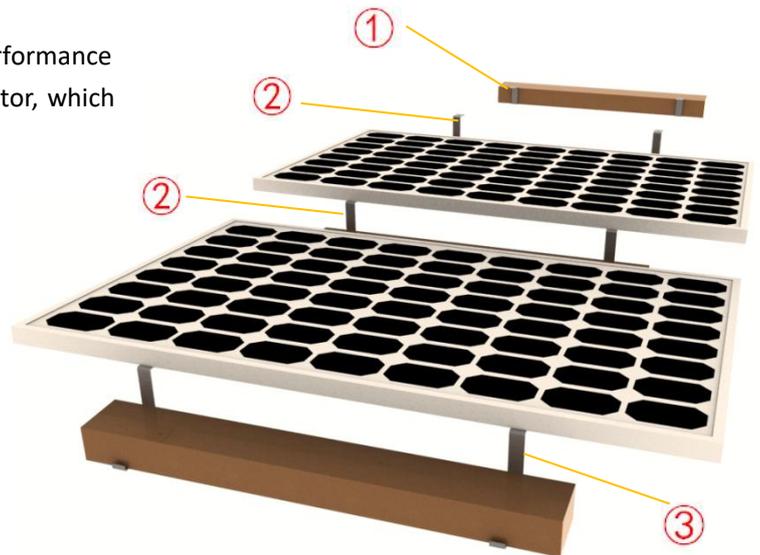
Stainless Steel Ballasted Flat Roof Mount



Features & Benefits

1. Few component and easy install
2. Stainless Steel 304 Material, high anti-corrosion performance
3. Using long-span cement block replace wind deflector, which has strong windproof performance and low cost.

Specification	
Tilt Angle	5° 、 10°
Max Wind Speed	42m/s
Max Snow load	1.4KN/m2
Material	SUS304



Components List



① Front Ballast Leg



② Mid Ballast Leg

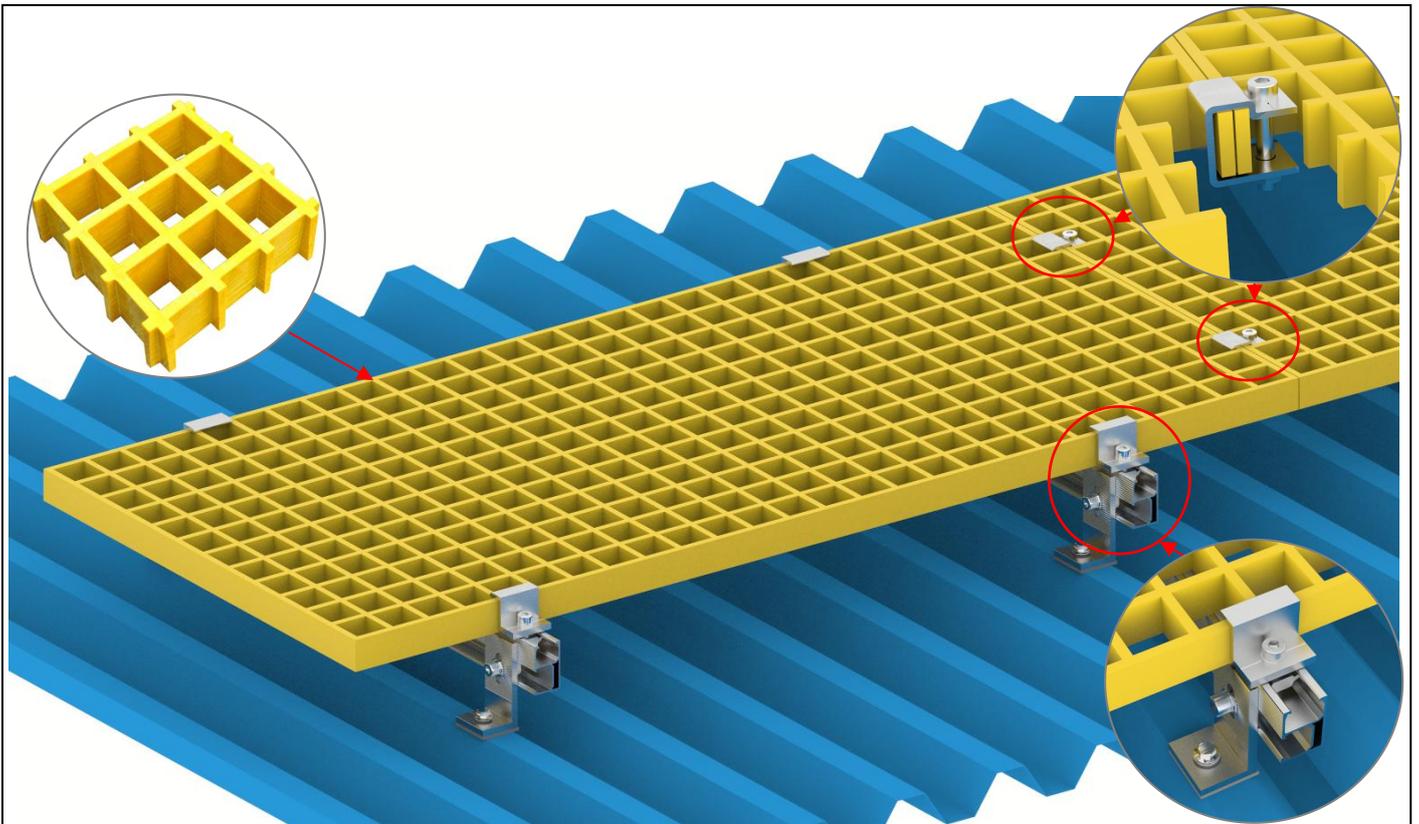


③ Back Ballast Leg

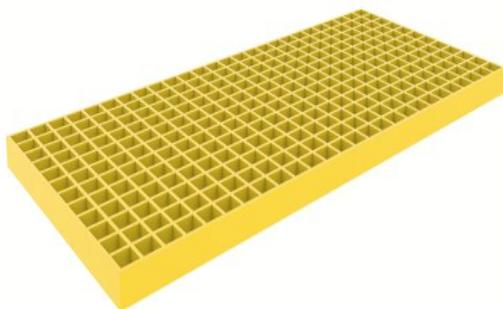
FRP Walkway

Walkway is fairly useful for a photovoltaic system, which not only makes mounting and maintenance easier, but also protect roofs during walking. Our walkway can be compatible with all our products: Rail, L-feet, clamp etc. To be more versatile, we offer multiple choice of length, width and coating thickness.

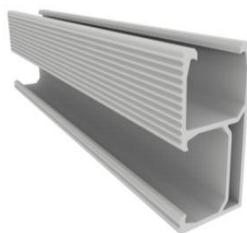
Overview



Component



RRP Walkway



Rail



End Clamp



Walkway Splice

FRP Walkway

Specification

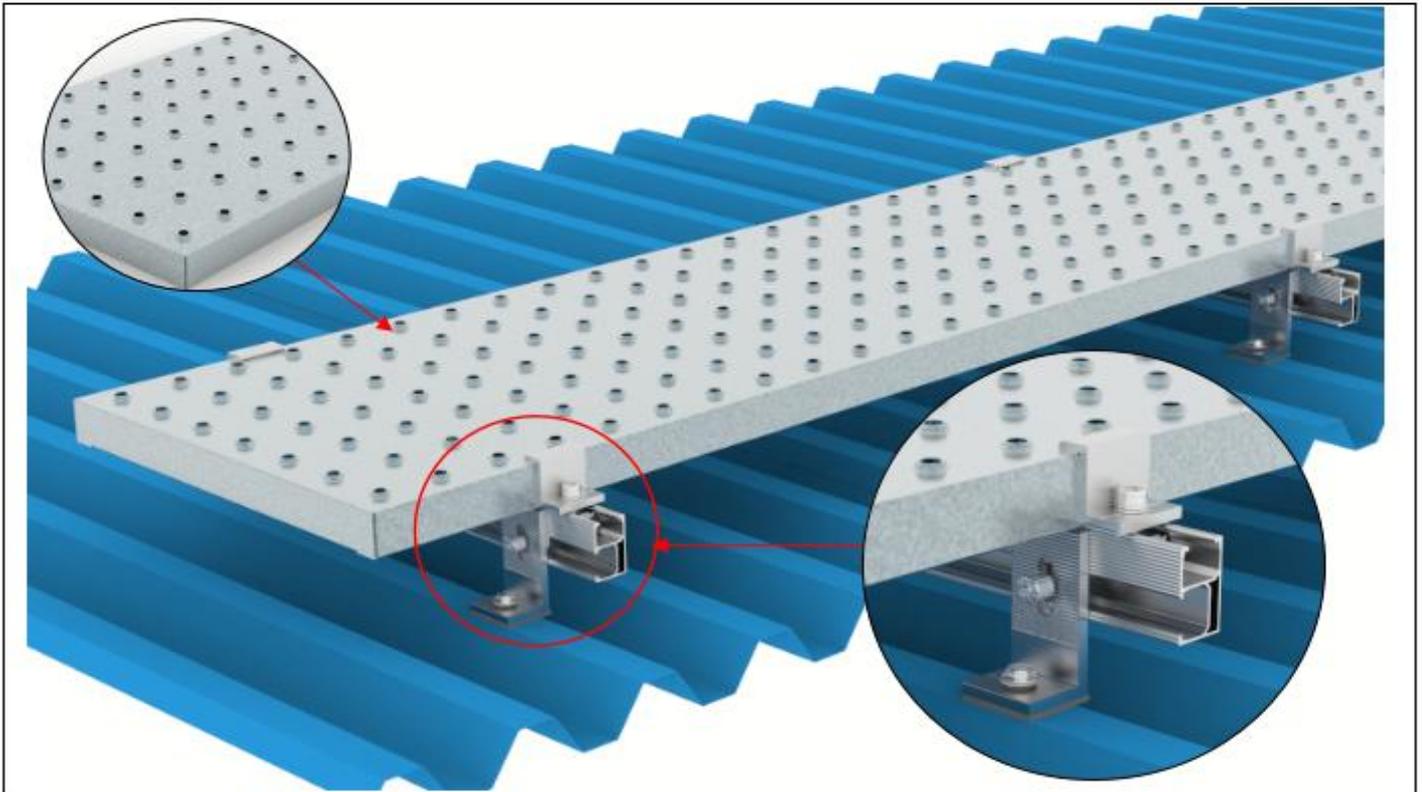
Material	Fiberglass Reinforced Plastic (FRP)
Dimensions	L3660mm*W370mm*H25mm / L3660mm*W370mm*H30mm; L3660mm*W410mm*H25mm / L3660mm*W410mm*H30mm;
Mesh Size	38mm*38mm
Color	Yellow& Green
Fixing Method	Fixing on the Rail with End Clamp and Hexagonal Bolts
Requirements	The static load per square meter should be less than 500KG
Features	Aging-Resistant, Insulation, Corrosion Resistance & Easy installation

Project Reference



ZAM Walkway

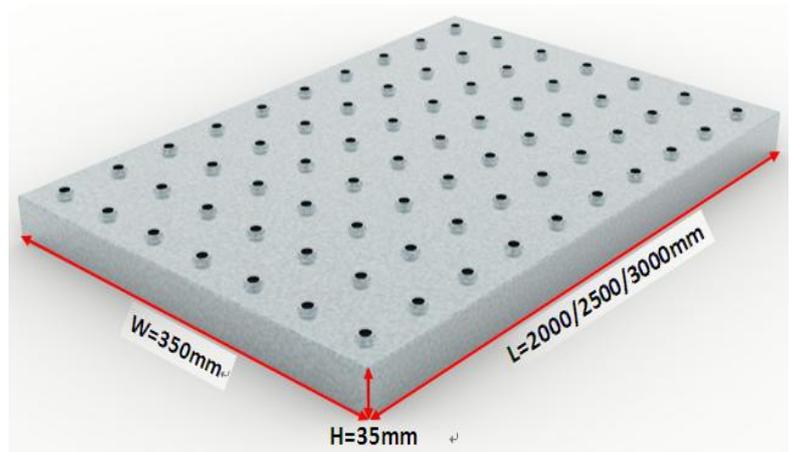
Material: ZAM galvanized steel



Features

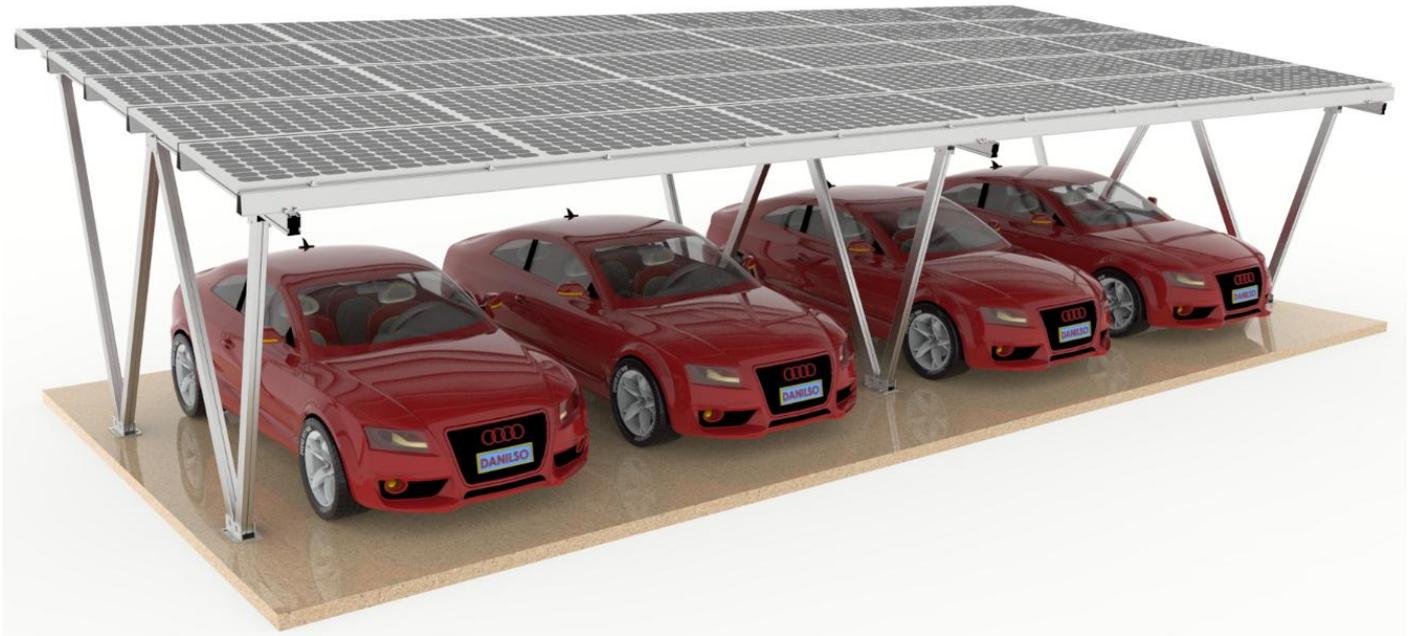
- **Corrosion Resistance:** Produced from ZAM galvanized steel, it is twice as rust resistant as standard galvanized steel giving you the confidence you need for all your PV Solar installations.
- **Lightweight**
- **High strength and high loading capacity**
- **Aging-Resistant**
- **Easy installation**

Component



Dimension

Carport Structure Mount System



Component List



Carport Structure Rail



Carport Structure Main Beam



Carport Structure Pole



Bottom Base



H Beam Connector 1#



H Beam Connector 2#

Features

Carport Structure Mount System adopts high strength Aluminum 6005-T5 material, some components are pre-assembled in factory, so that to reduce the labor cost and installation time on site.

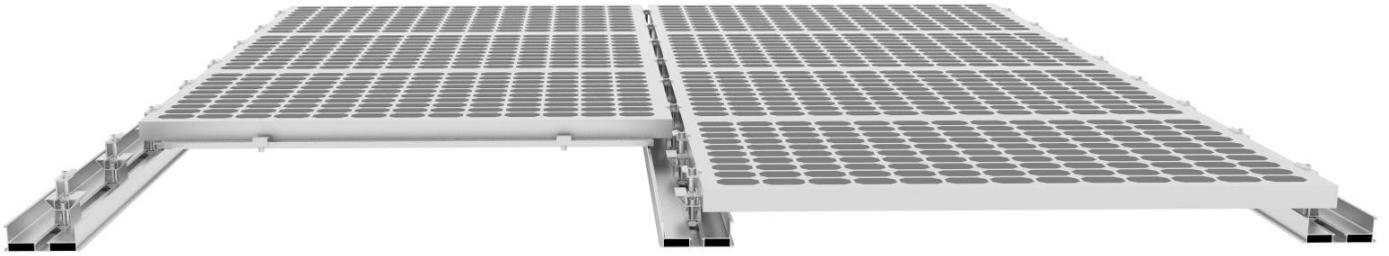
Benefits

- ★ Excellent waterproof performance
- ★ High anti-corrosion
- ★ Building on parking lot, saving land resources
- ★ Make customized as request.

Technical Information

Tilt Angle	5° ~ 60°
Max Wind Speed	55 m/s
Max Snow Load	1.4KN/m ²
Material	Aluminum 6005-T5
Warranty	12 years quality warranty

Waterproof Carport Structure System

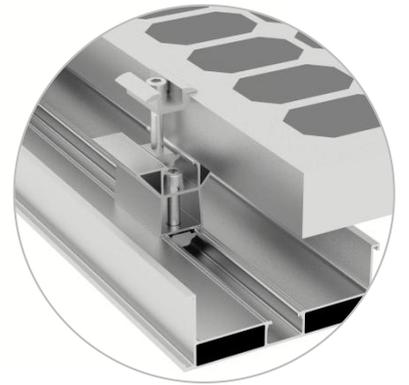
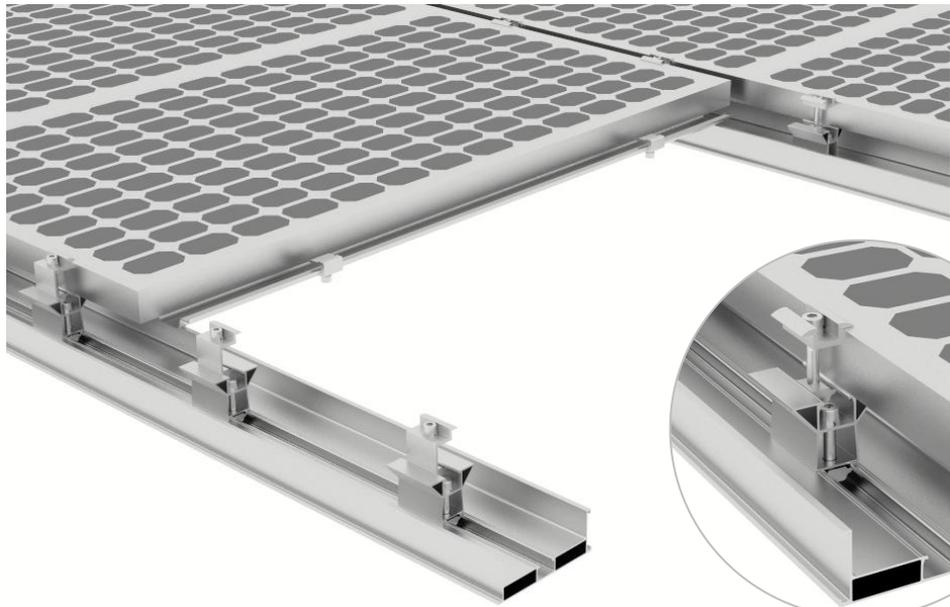


Details of structural waterproofing:

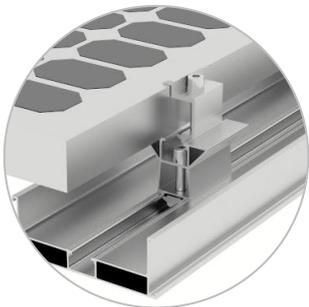
By increasing the Horizontal and Vertical Waterproof Structure, the waterproof design is carried out from the structure, which avoids the risk of leakage caused by the aging of rubber strips in the market, and truly achieves the waterproof effect of more than 25 years.



Fixed diagram of horizontal Waterproof Structure



Fixed diagram of Mid Clamp



Fixed diagram of End Clamp

Component List



Vertical Waterproof Structure



Horizontal Waterproof Structure



Solar Panel Fastener Kit



Vertical Waterproof Clamp Kit



Horizontal Waterproof Clamp

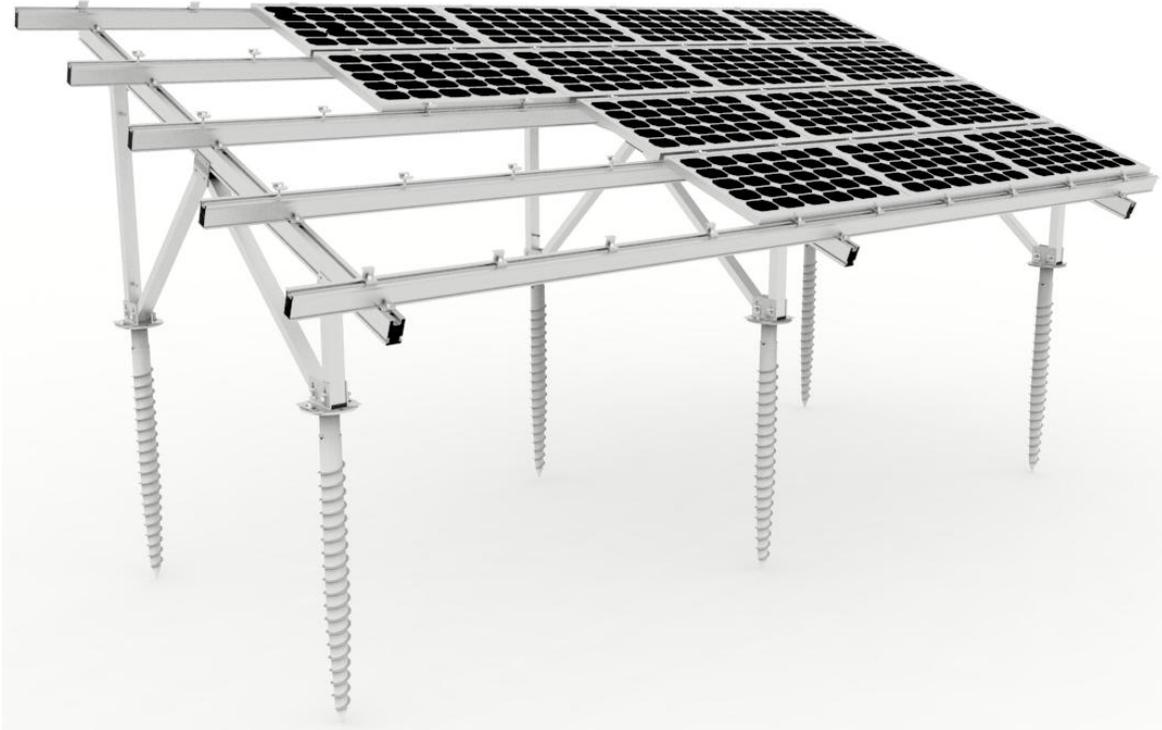


End Clamp



Mid Clamp

Aluminum Ground Mounting System



Technical Information

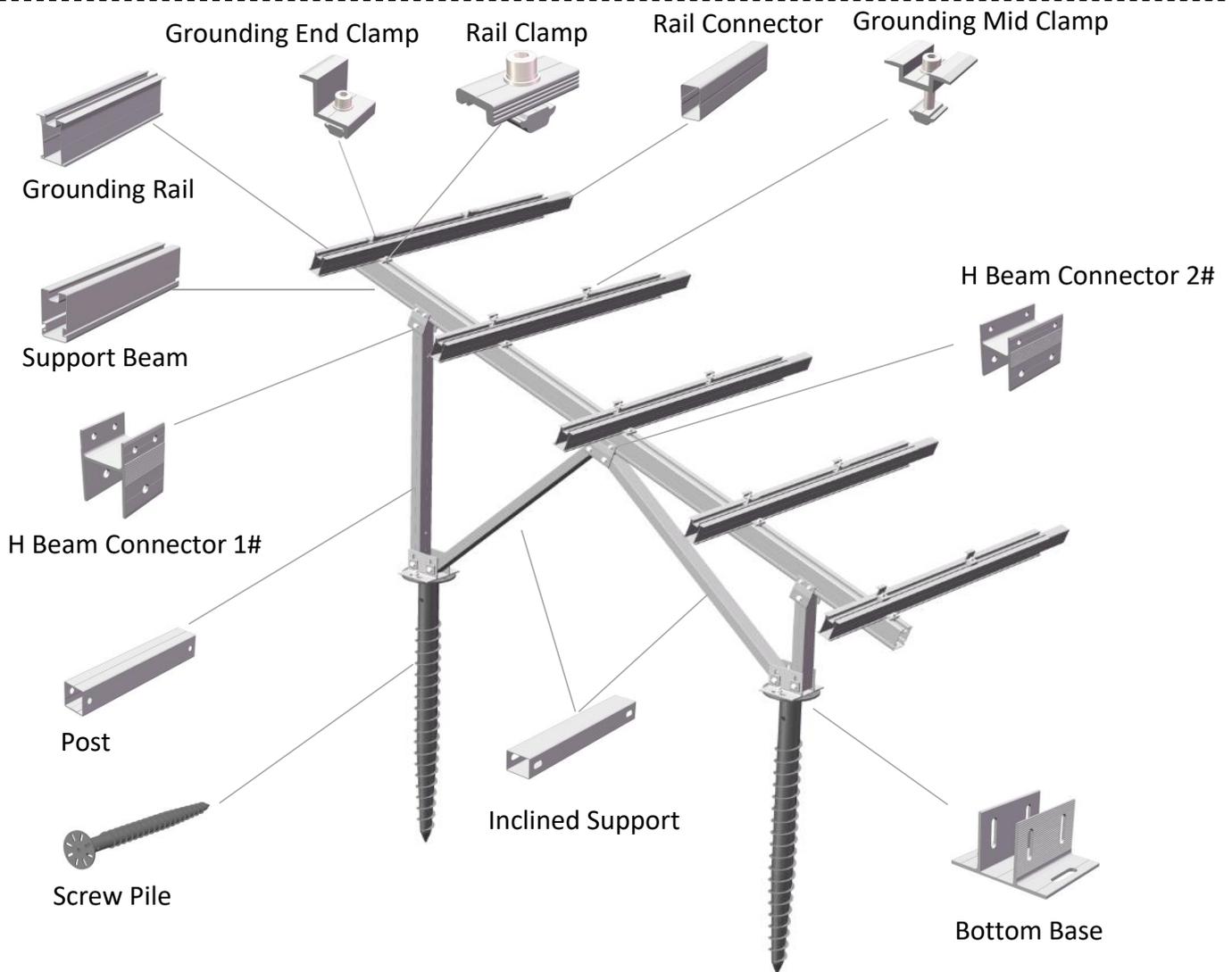
Install Site	Open Terrain
Tilt Angle	5°~60°
Snow Load	1.5KN/m ²
Module Orientation	Landscape or Portrait
Foundation Type	Concrete Base or Screw Pile
Material	Anodized Aluminum 6005-T5 (AL6005-T5), Stainless Steel 304 (SUS 304)
Design Standard	JIS C8955: 2011
Warranty	12years quality guaranty

Features

1. Products using aluminum alloy 6005-T5 (AL6005-T5) and stainless steel 304 (SUS 304), high strength, corrosion resistance is good
2. Most of the components are pre-assembled before shipment, there is no need to drilling, cutting and other operations on site, simply adjust locking to complete the installation
3. Screw Pile and concrete foundations optional
4. Compatible with most modules and most wind loads
5. Smart design reduce the difficulty of the installation on the most condition.

Aluminum Ground Mounting System

System Overview



Pre-assembled Mounting Types

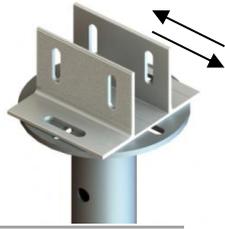
 <p>No Front Leg Type: Application for ground clearance is lower than 500mm.</p>	 <p>W Type: Application for strong wind speed and snow load area.</p>
 <p>N Type: Application for general conditions.</p>	 <p>Several V Types: Application for many rows layout.</p>

Aluminum Ground Mounting System

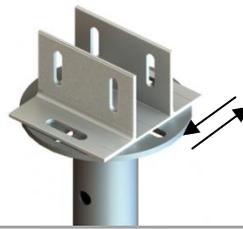
Adjustable Range



Ground Screw



45mm adjustable



40mm adjustable



30mm adjustable

Pre-assembled Mounting Parts

▼ N Type Pre-assembled



▼ N type mounting spread process



▼ N type mounting unfold status



▼ W Type Pre-assembled



▼ W type mounting spread process



▼ W type mounting unfold status



▼ No Front Leg Type Pre-assembled



▼ Spread Process



▼ Unfold Status



Aluminum Ground Mounting System

Connector

▼ Grounding Rail Connector: Use 8 pcs 6.3x25mm self-drilling screw to fix



▼ Main Beam Connector: Use 8 pcs 6.3x25mm self-drilling screw to fix



Back Structure Installation Guide



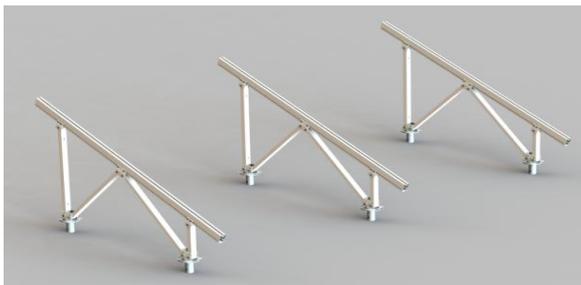
Installation Guide



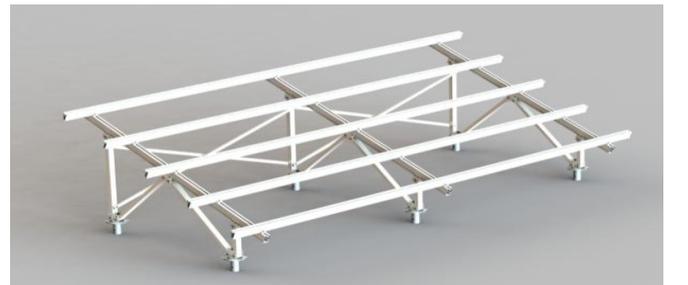
① Screw Pile Installation



② Pre-assembled Mounting Parts Installation



③ Finish the pre-assembled installation



④ Grounding Rail and Back Structure installation

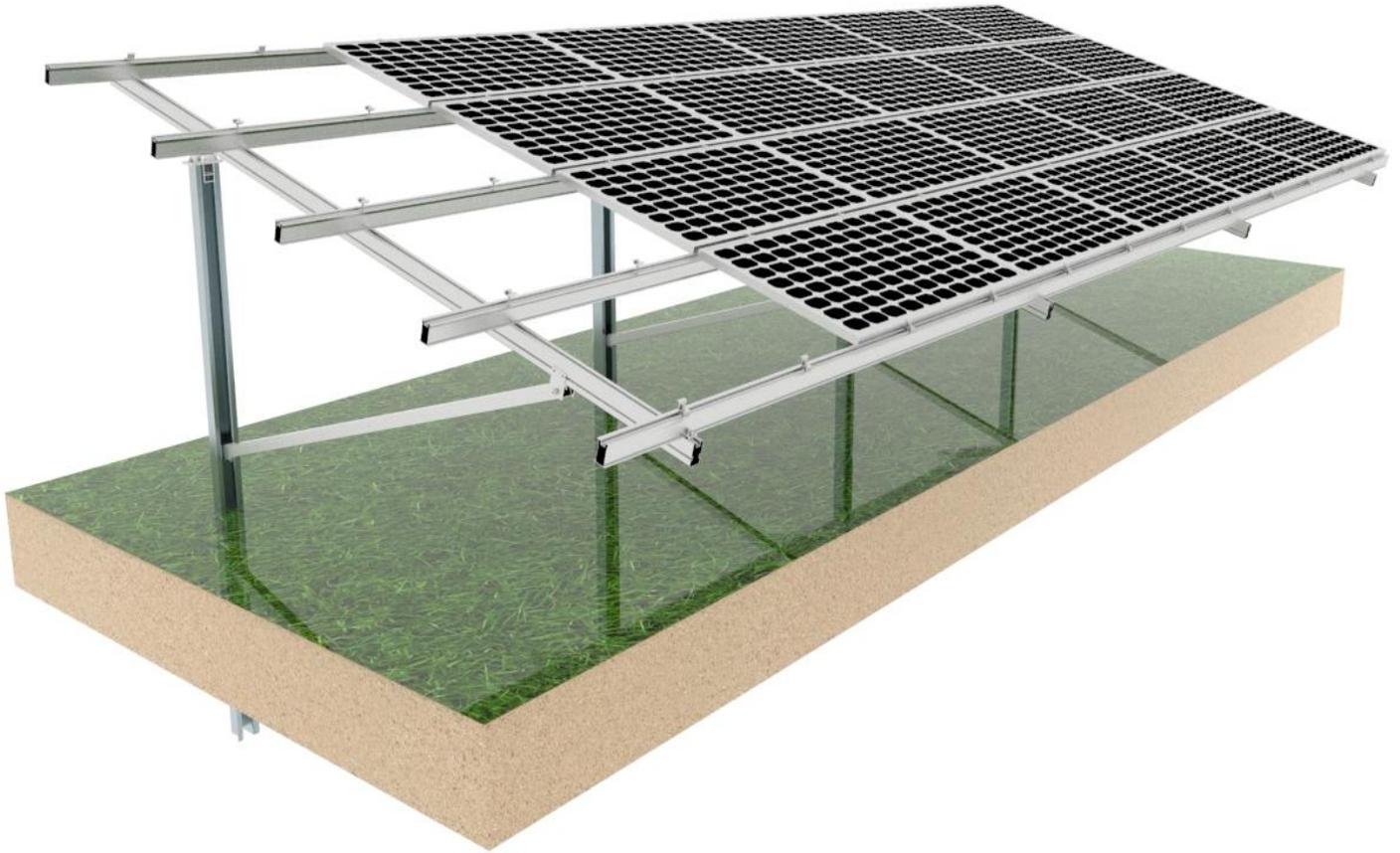


⑤ Finish Grounding Rail and Back Structure installation



⑥ Put the panel on that, use mid clamp and end clamp to fix them.

Pile Ground Mount System



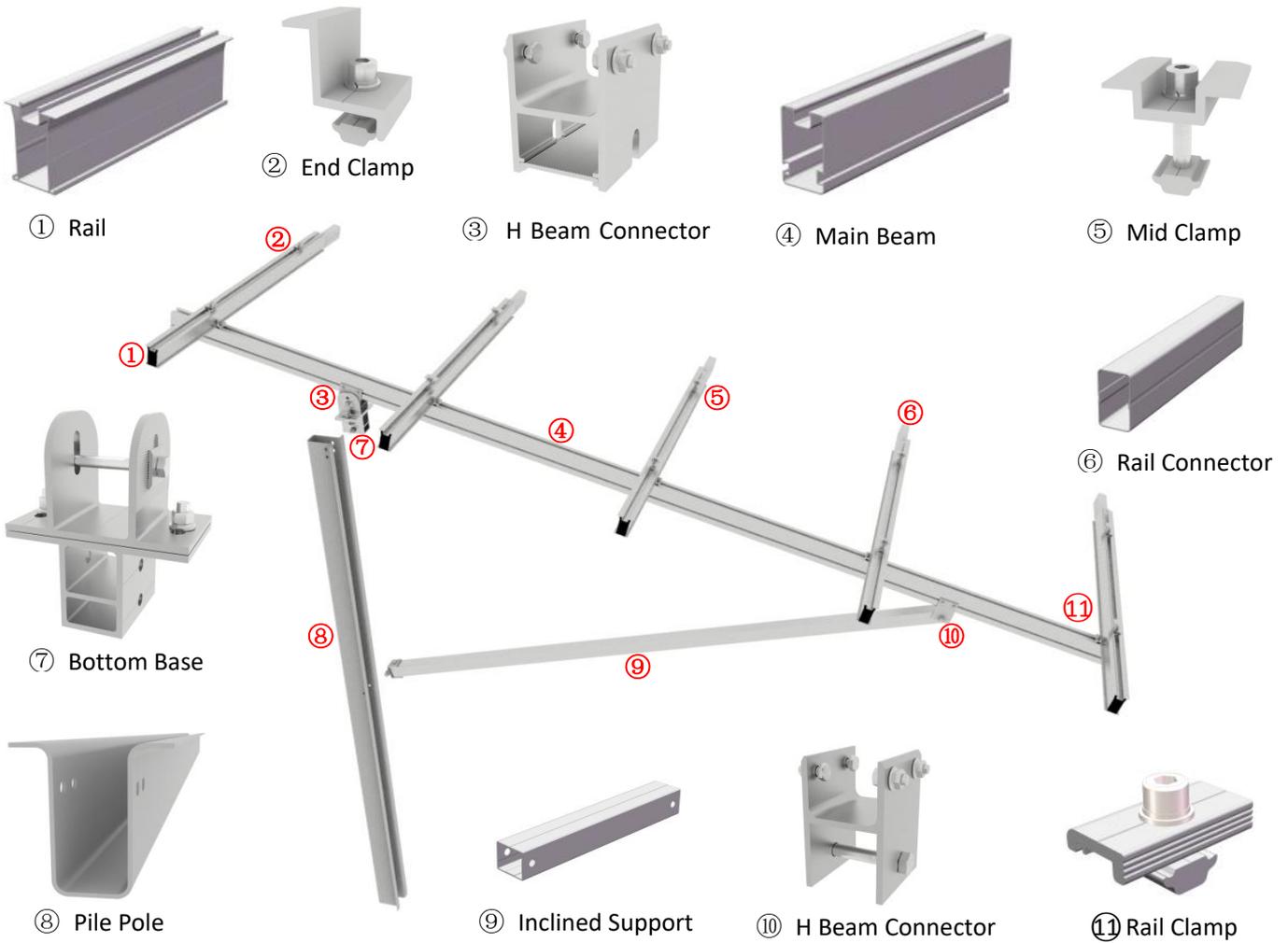
Technical Information	
Tilt Angle	5° ~ 60°
Max Wind Speed	42 m/s
Max Snow Load	1.5KN/m ²
Material	Galvanized Steel Q235& Aluminum 6005-T5
Warranty	12 years quality warranty

Features

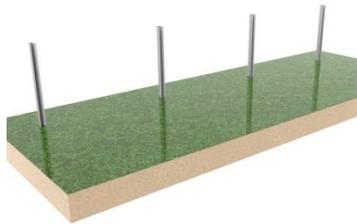
1. Suitable for different regions, such as low-cost concretes and high wind and heavy snow regions.
2. Ground screw foundation and concrete foundation can be acceptable
3. Parts have been high pre-assembly on factory to save your installation time
4. Simple and fast installation
5. High quality galvanized steel material

Pile Ground Mount System

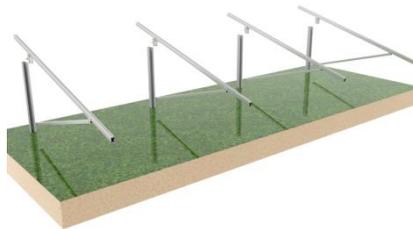
System Overview



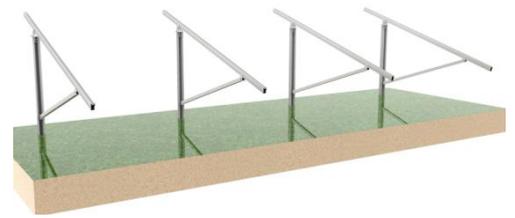
Installation Guide



① Pile Pole Installation



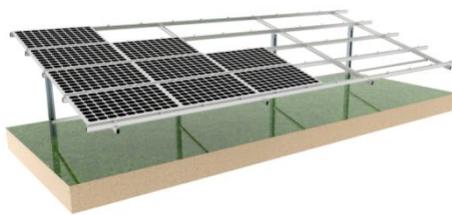
② Pre-assembled Mounting Parts Installation



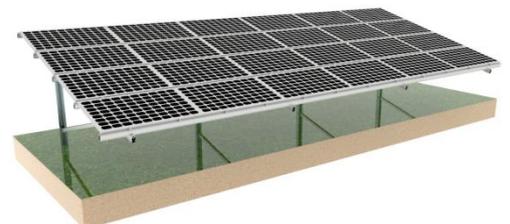
③ Finish the pre-assembled installation



④ Grounding Rail installation



⑤ Put the panel on that, use mid clamp and end clamp to fix them.



⑥ Finished

Galvanized Steel Ground Mount System



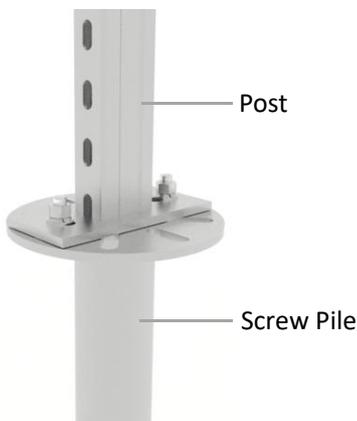
Technical Information	
Tilt Angle	5° ~ 60°
Max Wind Speed	55 m/s
Max Snow Load	1.4KN/m ²
Material	Galvanized Steel Q235
Warranty	12 years quality warranty

Features

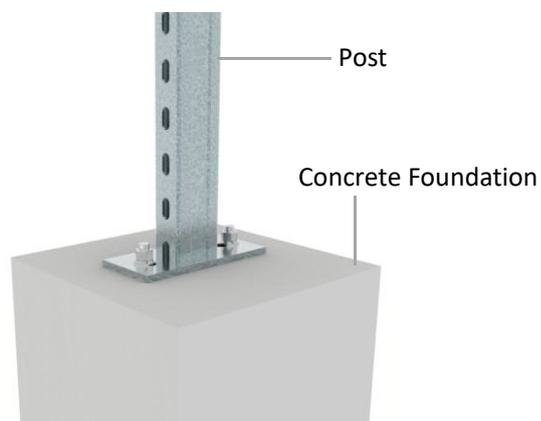
1. Suitable for different regions, such as low-cost concretes and high wind and heavy snow regions.
2. Ground screw foundation and concrete foundation can be acceptable
3. Parts have been high pre-assembly on factory to save your installation time
4. Simple and fast installation
5. High quality galvanized steel material



Foundation Types



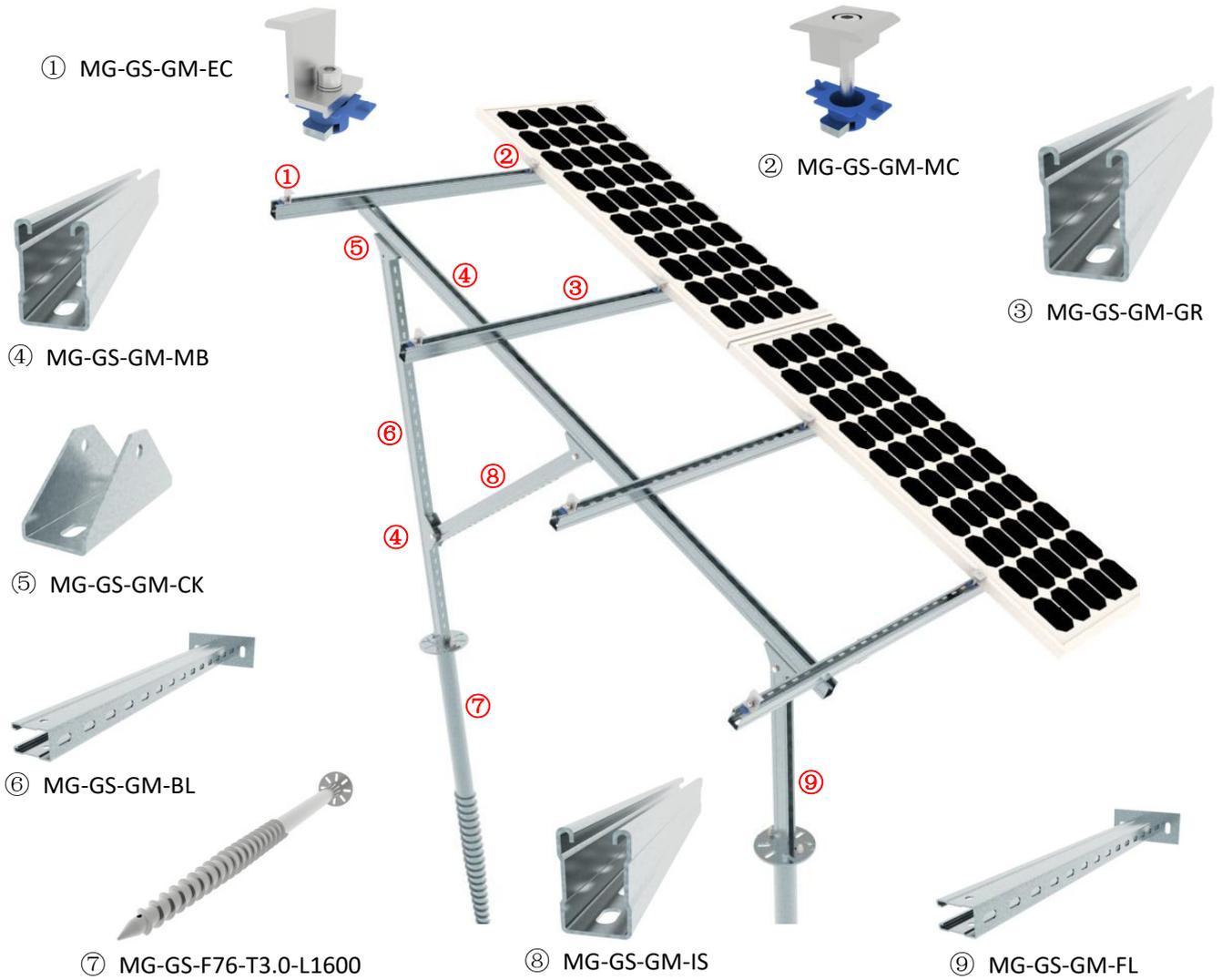
Ground Screw Pile Foundation



Concrete Foundation

Galvanized Steel Ground Mount System

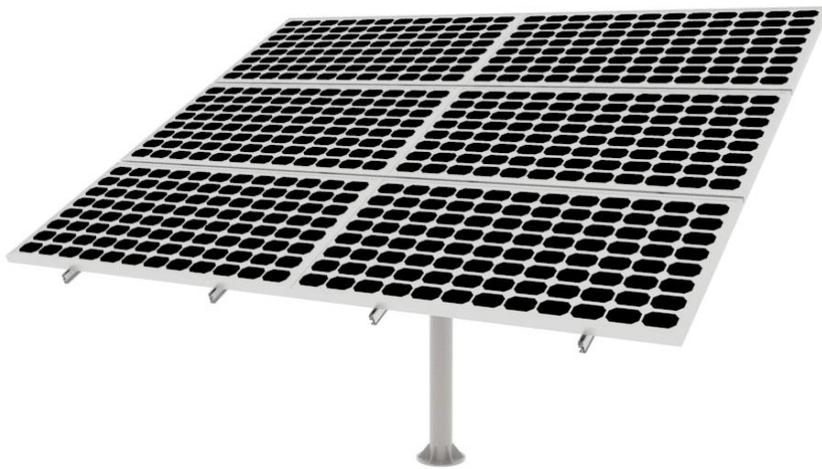
System Overview



Side View of Galvanized Steel Mount System

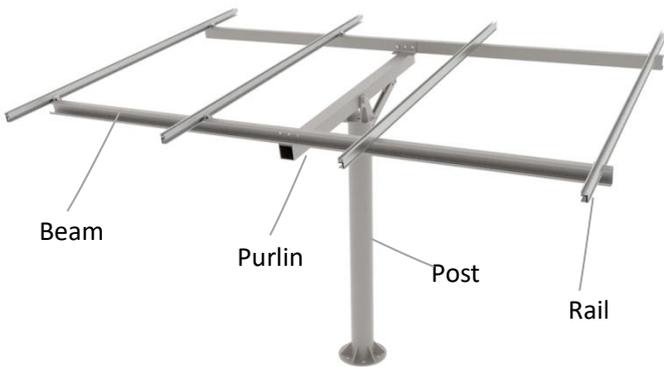


Pole Ground Mount System



Technical Information	
Installation Site	Open Field or Ground
Tilt Angle	5° ~60°
Max Wind Speed	60 m/s
Max Snow Load	1.4KN/m ²
Standard	TUV&AS-NZS 1170
Material	AL6005-T5 & Q235
Warranty	10 Years

System Overview



Pole Mount 4#

Features & Benefits

- Rails are made from 6005-T5 Aluminum, the other parts are made from galvanized steel
- Suitable for different regions, such as low-cost concretes and high wind and heavy snow regions.
- Simple and fast installation: Parts have been high pre-assembly on factory to save your installation time
- Concrete foundation can be acceptable
- High quality galvanized steel material

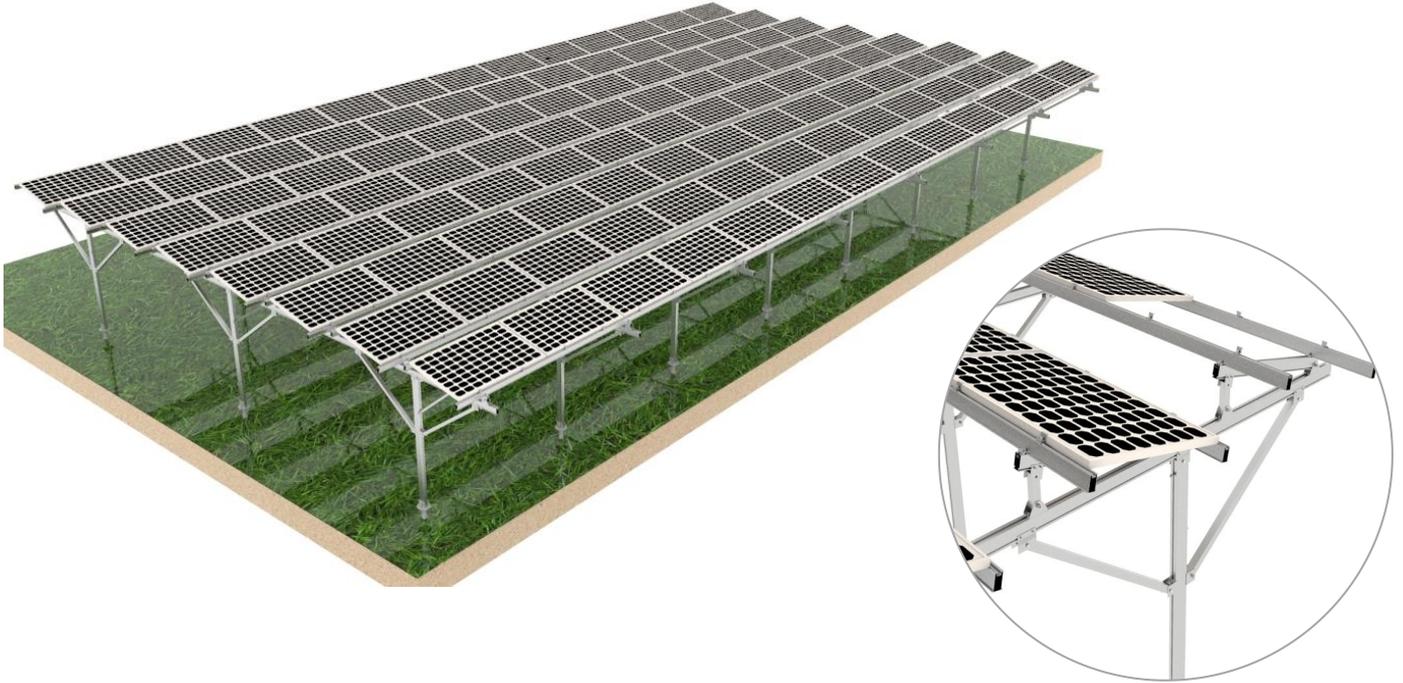


Pole Mount 6#



Pole Mount 8#

Solar Farm Structure System



Features & Benefits

- 1、 Adopting high strength aluminum alloy 6005-T5 and stainless steel 304 material.
- 2、 Some components are pre-assembled in factory, so that to reduce the labor cost and installation time on site.
- 3、 High anti-corrosion.
- 4、 Making customized as request.

Technical Information

Technical Information	
Tilt Angle	5° ~ 30°
Max Wind Speed	45 m/s
Max Snow Load	1.5KN/m ²
Material	AL6005-T5 & SUS304
Warranty	10 Years

Project Reference

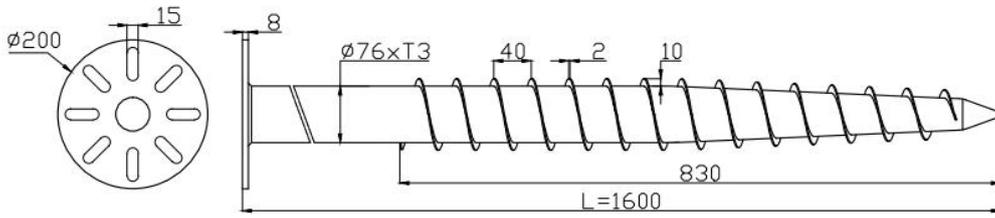


Ground Screw Pile

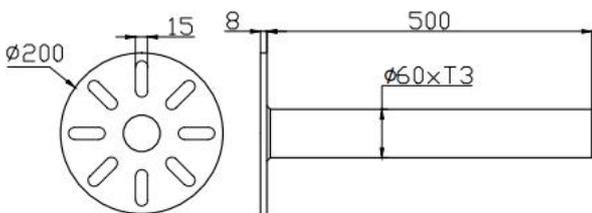
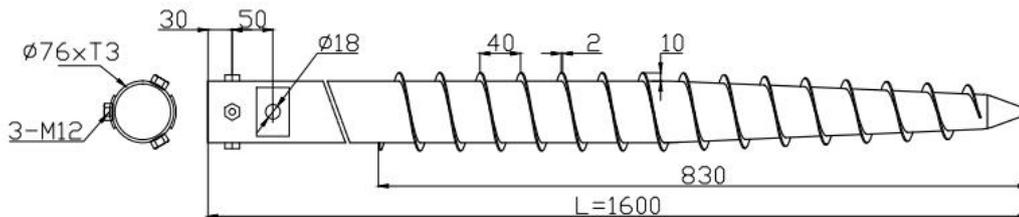
Material: Hot-galvanized Steel Q235

High Class hot-galvanized 80u~120u

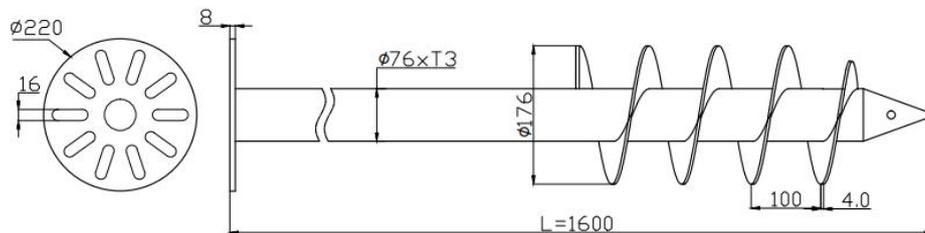
Common Use Screw Pile-----MG-SP-F76-T3-L



Adjustable Screw Pile: MG-ASP-F76-T3.0-L1600

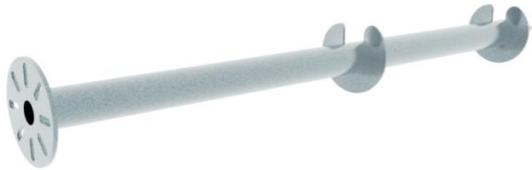
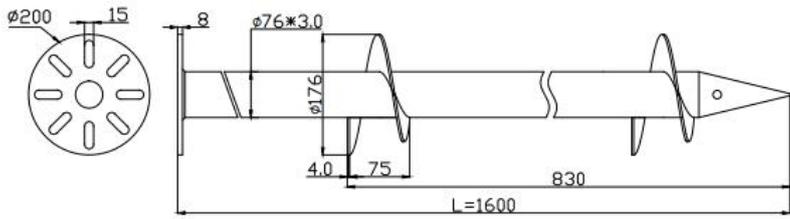


Four Blades Screw Pile: MG-FSP-F76-T3.0-L1600

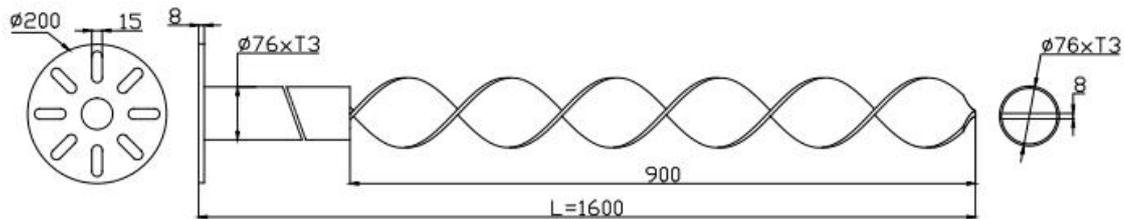


Ground Screw Pile

Two Blades Screw Pile: MG-TSP-F76-T3.0-L1600



Ribbon Screw Pile: MG-RSP-F76-T3.0-L1600

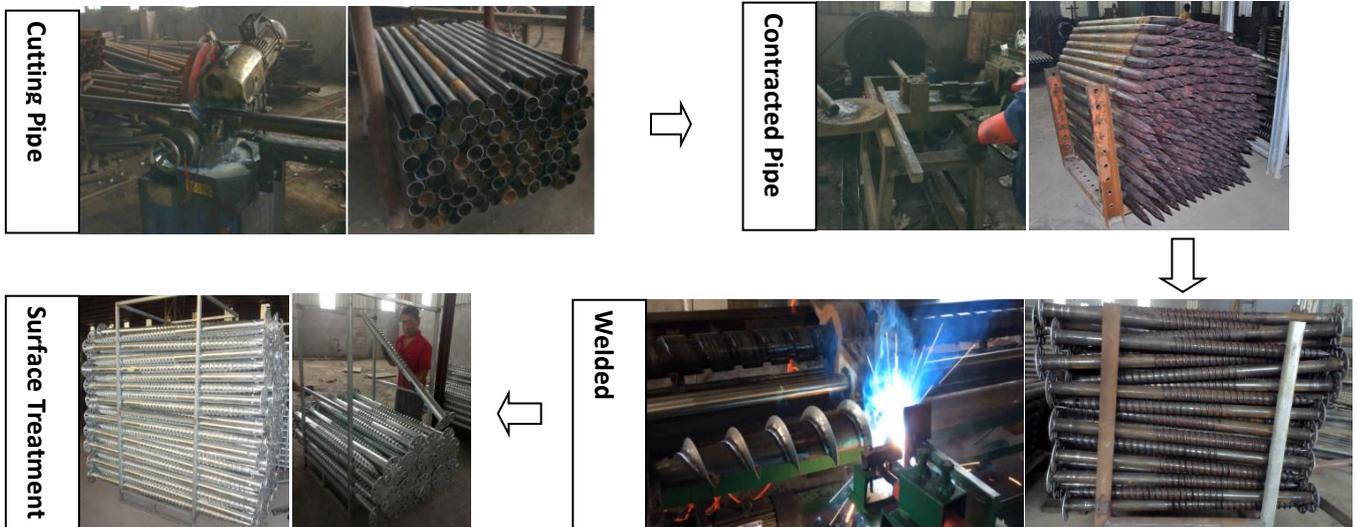


Screw Pile Tooling

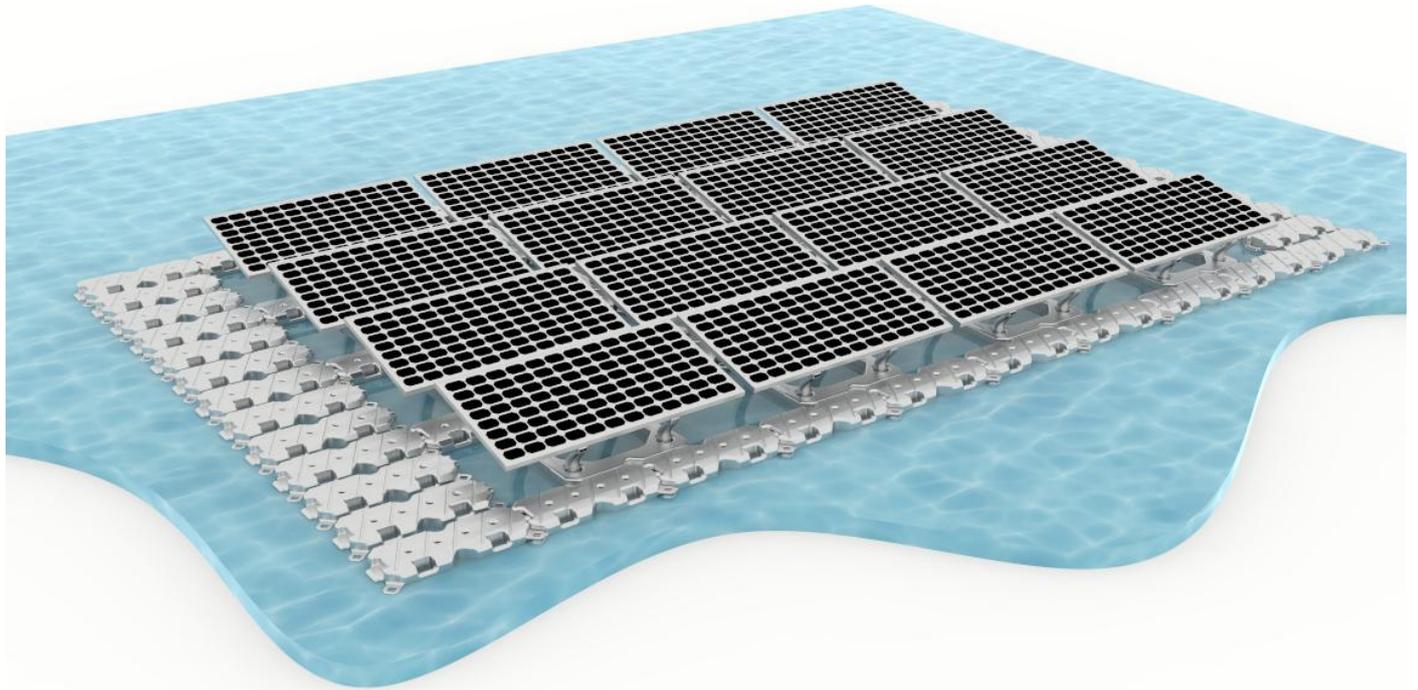
Feature: Simple and easy to install the screw pile



Production Process



Floating Solar PV Structure System



Introduction

Floating solar power plant, applied on the water as pool, small lake, reservoir, is to solve the bigger-ground-area issue of traditional solar power plant. The solar modules would be installed on the floater which is made of high density polyethylene. Under the premise of ensuring its intensity, the professional structure design, the optimization of floater structure and the simple and convenient splice design improve the efficiency of project installation and then save the cost.

Technical Information

Material	HDPE、AL6005-T5、SUS304
Tilt Angle	15°
Wind Speed	60m/s
Snow Load	1KN/m ²
Water Depth	200-300mm
LoadingCapacity	150kg/m ²
Color	Grey
Duration	25 Years



Floating Solar PV Structure System

Component List



Long Aisle



Edge-closing walkway



Short Aisle



Main Floater



Front Leg



Back Leg



Connection Pin



Clamp Kit

Installation Instruction



Put the Front Leg into the Main Floater.



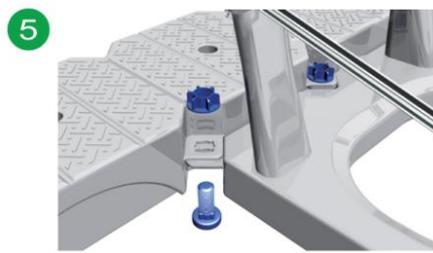
Put the Back Leg into the Main Floater.



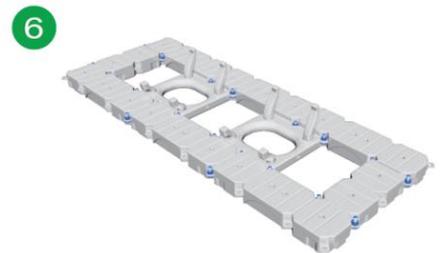
After installation legs, we call it main floating body unit.



Using Connection Pin to connect the Single Floater and Connected Floater.



Using Connection Pin to connect Main Floater and Connected Floater.



Finished floating part installation.



Using Clamp Kit and Screw Kit to fix solar panel on the Front Legs.



Using Clamp Kit and Screw Kit to fix solar panel on the Back Legs.



Finished solar panels installation.

Project Reference



Project Reference

