AirKaliber

Complete Solar
Mounting Solutions

Solar Mounting Solutions

Application	Solar Mounting System	Material
Pitched Roof	AS Tile Roof Hook Kit Solar Mounting System AS L Feet and Hanger Bolt Kit Trapezoidal Metal Roof Solar Mounting System AS Kliplok Metal Roof Solar Mounting System AS Mini-rail Kit Trapezoidal Metal Roof Solar Mounting System	Aluminum 6005-T5
Flat Roof	AS Solar Tripod Concrete Roof Solar Mounting System AS Triangle Solar Ballast Concrete Roof Solar Mounting System	Aluminum 6005-T5
	AS Easy Solar Ballast Concrete Roof Solar Mounting System	Steel Q235B/Q345B
Ground	AS Aluminum Solar Ground Mounting System	Aluminum 6005-T5
	AS Double-pole Steel Solar Ground Mounting System (Large C-type)	Steel Q235B/Q345B
	AS Double-pole Steel Solar Ground Mounting System (C-type)	Steel Q235B/Q345B
	AS Mono-pole Steel Solar Ground Mounting System	Steel Q235B/Q345B
	AS Steel-Aluminum Solar Ground Mounting System	Steel Q235B/Q345B Aluminum 6005-T5
	AS MAC Steel Solar Ground Mounting System	MAC Steel SCS400, SCS440, SCS490, SCS570
	AS Agricultural Solar Mounting System	Aluminum 6005-T5
Parking Lot	AS Solar Carpot Mounting System	Aluminum 6005-T5

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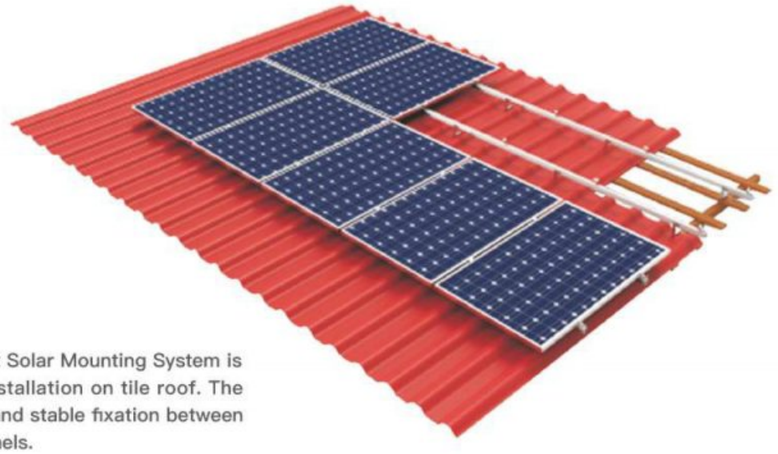
AS Tile Roof Hook Kit
Solar Mounting System



AS Tile Roof Hook Kit Solar Mounting System is designed for solar installation on tile roof. The system delivers firm and stable fixation between tile roof and solar panels.

Advantages

- Simple and strong design.
- Compatible to most framed and frameless solar panels.
- Pre-assembled before shipment, saving on-site installation time and labor cost.

Specification

Product	AS Tile Roof Hook Kit Solar Mounting System
Application	Pitched Roof
Roof Type	Tile, Flat Tile, Slate Tile, Asphalt Tile
Tilt Angle	5°to 45°
Wind Speed	60 m/s
Snow Load	1.6 KN/m²
Solar Panel	Framed and Frameless
Panel Layout	Portrait or Landscape
Design Standard	AS/NZS 1170, DIN 1055, JIS C8955: 2017, International Building Code IBC 2009
Material	Structure: Al6005-T5(Anodized) Components: SUS304 & Zinc-Nickel Alloy Electroplated Steel
Warranty	10 year

Components

1 Rail

2 Rail Splice

3 End Clamp Kit

4 Middle Clamp Kit

5 Tile Hook 00

6 Tile Hook 01

7 Tile Hook 03

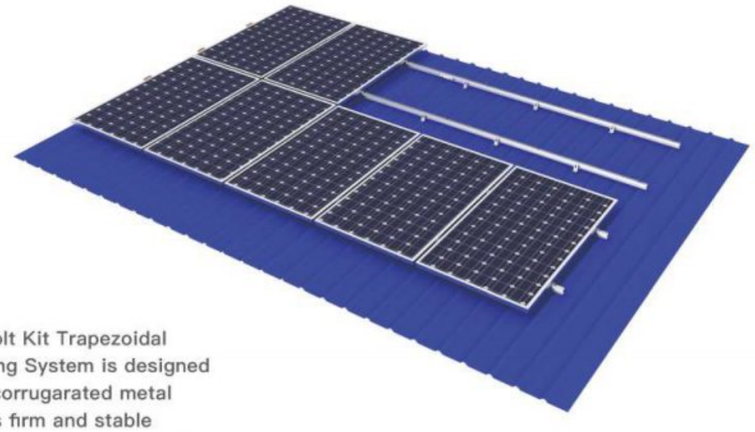
8 Tile Hook 08

9 Tile Hook 09

10 Tile Hook 18

11 Tile Hook 20

AS L Feet and Hanger Bolt Kit Trapezoidal Metal Roof Solar Mounting System



AS L Feet and Hanger Bolt Kit Trapezoidal Metal Roof Solar Mounting System is designed for solar installation on corrugarated metal roof. The system delivers firm and stable fixation between metal roof and solar panels.

Advantages

- Simple and strong design.
- Compatible to most framed and frameless solar panels.
- Pre-assembled before shipment, saving on-site installation time and labor cost.

Specification

Product	AS L Feet and Hanger Bolt Kit Trapezoidal Metal Roof Solar Mounting System
Application	Pitched Roof
Roof Type	Trapezoidal Metal Roof
Tilt Angle	0°to 15°
Wind Speed	60 m/s
Snow Load	1.4 KN/m^2
Solar Panel	Framed and Frameless
Panel Layout	Portrait or Landscape
Design Standard	AS/NZS 1170, DIN 1055, JIS C8955: 2017, International Building Code IBC 2009
Material	Structure: Al6005-T5(Anodized) Components: SUS304 & Al6005-T5(Anodized)
Warranty	10 year

Components

USD0.015-0.02 Per watt

1 L Feet Kit

2 Hanger Bolt Kit

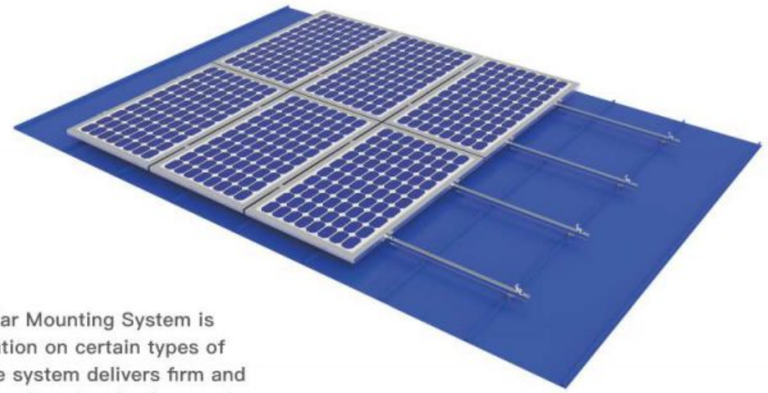
3 Rail

4 Rail Splice

5 End Clamp Kit

6 Middle Clamp Kit

AS Kliplok Metal Roof Solar Mounting System



AS Kliplok Metal Roof Solar Mounting System is designed for solar installation on certain types of color steel metal roof. The system delivers firm and stable fixation between metal roof and solar panels. The non-penetraing design of kliplok ensures water-proof performance of the whole mounting system.

Advantages

- A range of readily-designed kliplok applicable for different types of color steel metal roof.
- Kliplok customization service according to specific project requests.
- Compatible to most framed and frameless solar panels.
- Pre-assembled kits ensures more efficient installation.

Specification

Product	AS Kliplok Metal Roof Solar Mounting System
Application	Pitched Roof
Roof Type	Certain Types of Color Steel Metal Roof
Tilt Angle	0°to 15°
Wind Speed	60 m/s
Snow Load	1.4 KN/m²
Solar Panel	Framed and Frameless
Panel Layout	Portrait or Landscape
Design Standard	AS/NZS 1170, DIN 1055, JIS C8955: 2017, International Building Code IBC 2009
Material	Structure: Al6005-T5(Anodized) Components: SUS304 & Al6005-T5(Anodized)
Warranty	10 year

Components

USD 0.015-0.02 PER WATT

1 Rail

2 Rail Splice

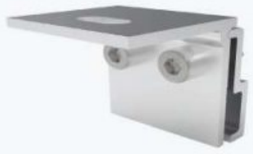
3 End Clamp Kit

4 Middle Clamp Kit

5 Rail Fastener

6 Kliplok 01

7 Kliplok 02



8 Kliplok 03

9 Kliplok 04

10 Kliplok 05

11 Middle Clamp Kit

12 Kliplok

AS Mini-rail Kit Trapezoidal Metal Roof Solar Mounting System

AS Mini-rail Kit Trapezoidal Metal Roof Solar Mounting System is designed for solar installation on trapezoidal color steel metal roof. With mini-rail design, the system still delivers firm and stable fixation between metal roof and solar. As a cost-effective mounting solution, the mini-rail kit greatly reduces overall project cost.

Advantages

- Innovative mini-rail design delivers strong and stable fixation while delivering a cost-effective solution.
- Simple but firm design.
- Compatible to most framed and frameless solar panels.
- Pre-assembled before shipment, saving on-site installation time and labor cost.

Specification

Product	AS Mini-rail Kit Trapezoidal Metal Roof Solar Mounting System
Application	Pitched Roof
Roof Type	Trapezoidal Metal Roof
Tilt Angle	0°to 15°
Wind Speed	60 m/s
Snow Load	1.4 KN/m^2
Solar Panel	Framed and Frameless
Panel Layout	Portrait or Landscape
Design Standard	AS/NZS 1170, DIN 1055, JIS C8955: 2017, International Building Code IBC 2009
Material	Structure: Al6005-T5(Anodized) Components: SUS304 & Al6005-T5(Anodized)
Warranty	10 year

Components

USD 0.01 Per watt

① Mini-rail Kit

② End Clamp Kit

③ Middle Clamp Kit

AS Solar Tripod Concrete Roof Solar Mounting System

AS Solar Tripod Concrete Roof Solar Mounting System is designed for solar installation on concrete flat roof. Tilt angle can be customized between 5°and 45°based on each project. With concrete base as foundation, this system also applies for ground-mount solar installation.

Advantages

- Simple and strong design.
- Applicable for either concrete flat roof or open land.
- Compatible to most framed and frameless solar panels.
- Pre-assembled before shipment, saving on-site installation time and labor cost.

Specification

Product	AS Solar Tripod Concrete Roof Solar Mounting System
Application	Concrete Flat Roof, Open Land
Roof Type	Trapezoidal Metal Roof
Tilt Angle	0°to 45°
Wind Speed	60 m/s
Snow Load	1.4 KN/m^2
Solar Panel	Framed and Frameless
Panel Layout	Portrait or Landscape
Design Standard	AS/NZS 1170, DIN 1055, JIS C8955: 2017, International Building Code IBC 2009
Material	Structure: Al6005-T5(Anodized) Components: SUS304 & Al6005-T5(Anodized)
Warranty	10 year

Components

USD 0.03-0.04 per watt

1 Rail

2 Rail Splice

3 End Clamp Kit

4 Middle Clamp Kit

5 Rail Clamp Kit

6 Tripod Support

AS Triangle Solar Ballast Concrete Roof Solar Mounting System

AS Triangle Solar Ballast Concrete Roof Solar Mounting System is a non-penetration solar mounting solution designed for solar installation on concrete flat roof. The matrix design and concrete ballast delivers a high-strength and stable structure that withstands strong wind.

Advantages

- High-strength and durable structure thanks to its alluminum alloy material.
- Matrix design and concrete ballast delivers high-stability that withstands strong wind.
- Concrete base or concrete ballast as flexible foundation Compatible to most framed solar panels.
- Pre-assembled before shipment, saving on-site installation time and labor cost.

Specification

Product	AS Triangle Solar Ballast Concrete Roof Solar Mounting System
Application	Flat Roof
Roof Type	Concrete Roof
Tilt Angle	0°to 30°
Wind Speed	60 m/s
Snow Load	1.4 KN/m^2
Solar Panel	Framed
Panel Layout	Landscape
Design Standard	AS/NZS 1170, DIN 1055, JIS C8955: 2017, International Building Code IBC 2009
Material	Structure: Al6005-T5(Anodized) Components: SUS304 & Al6005-T5(Anodized)
Warranty	10 year

Components

USD 0.03-0.038

1 Rail

2 Rail Splice

3 End Clamp Kit

4 Middle Clamp Kit

5 Mudsill

6 Ballast Support

7 Angle Aluminum

AS Easy Solar Ballast Concrete Roof Solar Mounting System

AS Easy Solar Ballast Concrete Roof Solar Mounting System is a non-penetration solar mounting solution designed for solar installation on concrete flat roof. The easy design of support legs and concrete ballast deliver a simple but stable structure. The system is a much more cost-effective commercial flat roof mounting structure thanks to its hot-dip galvanized steel structure material.

Advantages

- Easy design of support legs and concrete ballast deliver a simple but stable structure that withstands strong wind.
- Highly cost-effective thanks to its steel structure.
- Compatible with most framed solar panels.
- Pre-assembled before shipment, saving on-site installation time and labor cost.

Specification

Product	AS Easy Solar Ballast Concrete Roof Solar Mounting System
Application	Flat Roof
Roof Type	Concrete Roof
Tilt Angle	10°
Wind Speed	60 m/s
Snow Load	1.4 KN/m²
Solar Panel	Framed
Panel Layout	Landscape
Design Standard	AS/NZS 1170, DIN 1055, JIS C8955, 2017, International Building Code IBC 2009
Material	Structure: Hot-dip Galvanized Steel Components: SUS304 & Al6005-T5(Anodized)
Warranty	10 year

Components

USD0.02-0.03 Per watt

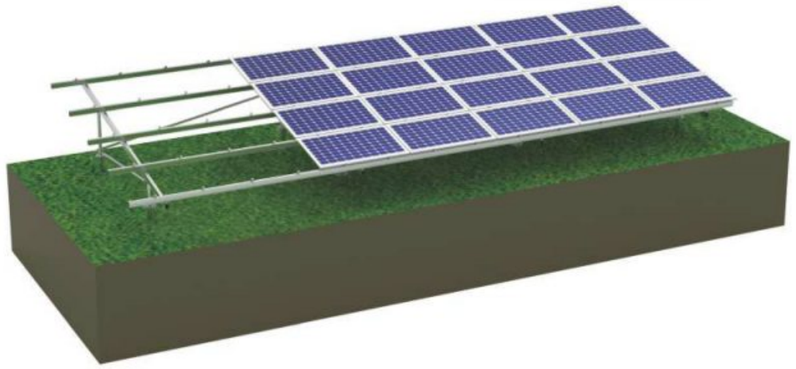
① Support Leg

② Back Leg

③ Front Leg

④ End Clamp Kit

AS Alumimum
Solar Ground Mounting System



AS Alumimum Solar Ground Mounting System uses anodized aluminum alloy structure, making the whole system light-weight, durable, recyclable and highly strong. Flexiblity in height and angle adjustment makes the system applicable for different types of landforms.

Advantages

- High-strength, light-weight, durable and recyclable alluminum alloy structure.
- Flexible height and angle adjustment, applicable for different types of landforms.
- Flexible for horizontal or vertical installation.
- Highly pre-assembled before shipment, saving on-site installation time and labor cost.

Specification

Product	AS Alumimum Solar Ground Mounting System
Application	Ground
Roof Type	Concrete Base, Ground Screw
Tilt Angle	0° to 60°
Wind Speed	60 m/s
Snow Load	1.4 KN/m²
Solar Panel	Framed or Frameless
Panel Layout	Portrait or Landscape
Design Standard	AS/NZS 1170, DIN 1055, JIS C8955: 2017, International Building Code IBC 2009
Material	Al6005-T5(Anodized)
Warranty	10 year

Mounting Structure

USD 0.05-0.06/watt

A Shape Pre-assembled Support

N Shape Pre-assembled Support

W Shape Pre-assembled Support

VI Shape Pre-assembled Support

Components

① Rail

② Splice Rail

③ Pre-assembled Support

④ Beam Rail

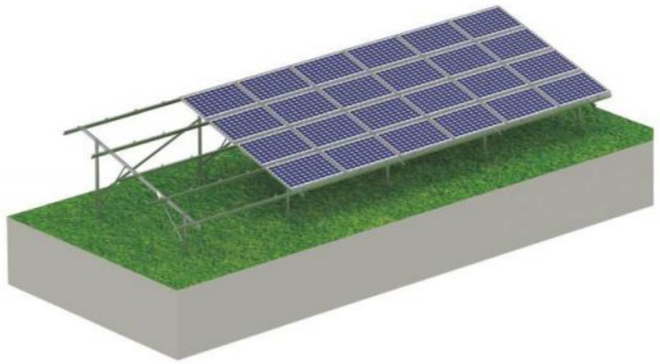
⑤ Diagonal Brace

⑥ Rail Clamp Kit

⑦ End Clamp Kit

⑧ Middle Clamp Kit

AS Double-pole Steel Solar Ground Mounting System (Large C-type)



AS Double-pole Steel Solar Ground Mounting System (Large C-type) uses cost-effective section steel structure, it is applicable for large-scale solar plant installation. The hot-dip galvanized surface treatment ensures anti-corrosion and and durability of the system. Flexiblity in height adjustment makes the system applicable for different types of landforms.

Advantages

- Cost-effective thanks to its section steel structure.
- Flexible height adjustment, applicable for different types of landforms.
- Flexible for horizontal or vertical installation.
- Pre-assembled before shipment, saving on-site installation time and labor cost.

Specification

Product	AS Double-pole Steel Solar Ground Mounting System (Large C-type)
Application	Ground
Roof Type	Concrete Base, Ground Screw, C/H Steel
Tilt Angle	0° to 60°
Wind Speed	60 m/s
Snow Load	1.4 KN/m^2
Solar Panel	Framed or Frameless
Panel Layout	Portrait or Landscape
Design Standard	AS/NZS 1170, DIN 1055, JIS C8955: 2017, International Building Code IBC 2009
Material	Hot-dip Galvanized Steel
Warranty	10 year

Components

USD0.03-0.05 Per watt

1 Rail

2 Beam Rail

3 Diagonal Brace

4 Connector

5 Middle Clamp Kit

6 End Clamp Kit

AS Double-pole Steel Solar Ground Mounting System（C-type）

AS Double-pole Steel Solar Ground Mounting System (C-type) uses cost-effective section steel structure, it is applicable for large-scale solar plant installation. The hot-dip galvanized surface treatment ensures anti-corrosion and and durability of the system. Flexiblity in height adjustment makes the system applicable for different types of landforms.

Advantages

- Cost-effective thanks to its section steel structure.
- Flexible height adjustment, applicable for different types of landforms.
- Flexible for horizontal or vertical installation.
- Pre-assembled before shipment, saving on-site installation time and labor cost.

Specification

Product	AS Double-pole Steel Solar Ground Mounting System (C-type)
Application	Ground
Roof Type	Concrete Base, Ground Screw, C/H Steel
Tilt Angle	0° to 60°
Wind Speed	60 m/s
Snow Load	1.4 KN/m^2
Solar Panel	Framed or Frameless
Panel Layout	Portrait or Landscape
Design Standard	AS/NZS 1170, DIN 1055, JIS C8955: 2017, International Building Code IBC 2009
Material	Hot-dip Galvanized Steel
Warranty	10 year

Components

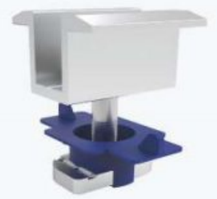
USD 0.03-0.045 Per watt

1 Rail

2 Rail Connector

3 Base

4 U Connector



5 Middle Clamp Kit

6 End Clamp Kit

AS Mono-pole Steel Solar Ground Mounting Structure

AS Mono-pole Steel Solar Ground Mounting Structure uses cost-effective section steel structure, it is a manually angle-adjustable ground mounting system. Hot-dip galvanized treatment on surface ensures high-strength and long lifespan of the system.

Advantages

- Cost-effective thanks to its section steel structure.
- Flexible angle adjustment.
- Applicable for different types of landforms.
- Flexible for horizontal or vertical installation.
- Pre-assembled before shipment, saving on-site installation time and labor cost.

Specification

Product	AS Double-pole Steel Solar Ground Mounting System
Application	Ground
Roof Type	Concrete Base, Ground Screw, C/H Steel
Tilt Angle	0° to 60°
Wind Speed	60 m/s
Snow Load	1.4 KN/m^2
Solar Panel	Framed or Frameless
Panel Layout	Portrait or Landscape
Design Standard	AS/NZS 1170, DIN 1055, JIS C8955: 2017, International Building Code IBC 2009
Material	Hot-dip Galvanized Steel
Warranty	10 year

Components

① Horizontal Beam Rail

② Vertical Beam Rail

③ Post

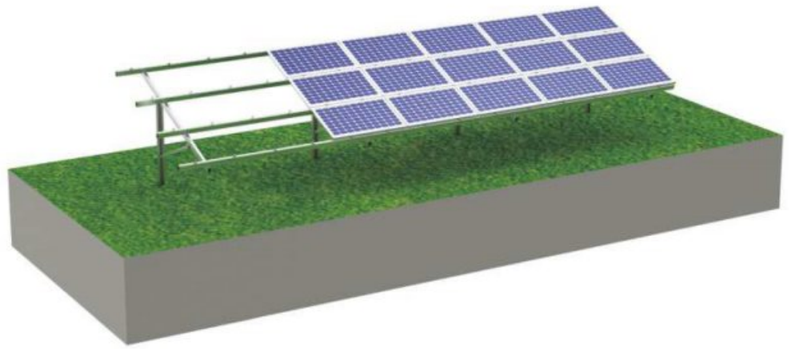
④ Middle Clamp

⑤ End Clamp Kit

⑥ Angle Adjustment Bar

⑦ Connector

AS Steel-Aluminum Solar Ground Mounting System



AS Steel-Aluminum Solar Ground Mounting System uses aluminum alloy and hot-dip galvanized section steel structure, making the system more cost-effective compared with all-aluminum structure, more efficient in installation compared with all-steel structure.
The hot-dip galvanized surface treatment ensures anti-corrosion and and durability of the system.
Flexiblity in height and angle adjustment makes the system applicable for different types of landforms.

Advantages

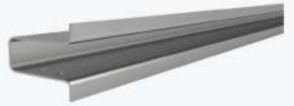
- Flexible height and angle adjustment, applicable for different types of landforms.
- Flexible for horizontal or vertical installation.
- Highly pre-assembled before shipment, saving on-site installation time and labor cost.

Specification

Product	AS Steel-Aluminum Solar Ground Mounting System
Application	Ground
Roof Type	Concrete Base, Ground Screw, C/H Steel
Tilt Angle	0° to 60°
Wind Speed	60 m/s
Snow Load	1.6 KN/m²
Solar Panel	Framed or Frameless
Panel Layout	Portrait or Landscape
Design Standard	AS/NZS 1170, DIN 1055, JIS C8955: 2017, International Building Code IBC 2009
Material	Al6005-T5(Anodized) Hot-dip Galvanized Steel
Warranty	10 year

Components

❶ Load Bearing Beam



❷ Post

❸ Connector

❹ Pre-assembled Bracket

❺ Middle Clamp

❻ End Clamp Kit

AS MAC Steel
Solar Ground Mounting System

AS MAC Steel Solar Ground Mounting System uses magnesium aluminum alloy hot-plated steel (MAC steel) as raw material for the main structure, making the system highly-durable, high-strength and stable. The Mg-Al-Zn treatment forms a high-density surface, ensuring the system to be highly corrosion-resistant.

Advantages

- High durability, high strength, highly corrosion-resistant and stable.
- Flexible for horizontal or vertical installation.
- Highly pre-assembled before shipment, saving on-site installation time and labor cost.

Specification

Product	AS MAC Steel Solar Ground Mounting System
Application	Ground
Roof Type	Concrete Base, Ground Screw, C/H Steel
Tilt Angle	0° to 60°
Wind Speed	60 m/s
Snow Load	1.6 KN/m²
Solar Panel	Framed or Frameless
Panel Layout	Portrait or Landscape
Design Standard	AS/NZS 1170, DIN 1055, JIS C8955: 2017, International Building Code IBC 2009
Material	Al6005-T5(Anodized) Hot-dip Galvanized Steel
Warranty	10 year

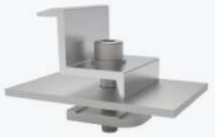
Components

1 Rail

2 Diagonal Brace

3 Connector

4 Middle Clamp Kit

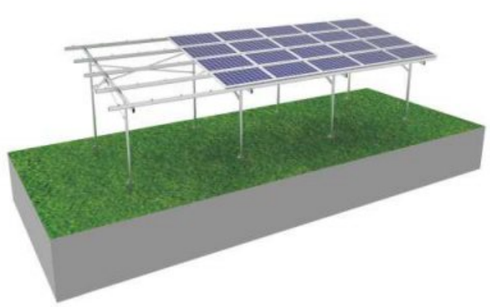


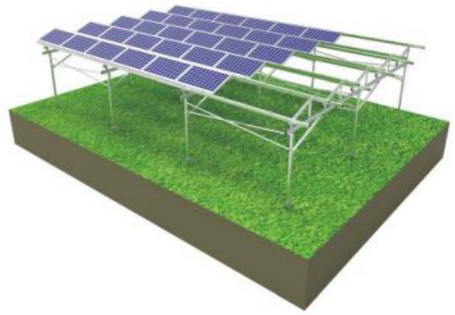
5 End Clamp Kit

6 Middle Clamp

7 End Clamp Kit

AS Agricultural Solar Mounting System





AS Agricultural Solar Mounting System is designed for installation of solar power system on farmland, enabling much more ecomonic use of the farmland while maintaining its normal cultivation. According to light exposure proportion and terrain, the system can be designed with given solar panel arrays. The high-strength anodized alluminum alloy structure and hot-dip galvanized ground screw foundation ensures an anti-corrosive mounting system.

Advantages

- Flexibly customized with given solar panel arrays according to light exposure proportion and terrain.
- High-strength and highly anti-corrosive thanks to its alluminum alloy structure.
- Highly pre-assembled before shipment, saving on-site installation time and labor cost.

Specification

Product	AS Agricultural Solar Mounting System
Application	Farmland
Roof Type	Concrete Base, Ground Screw
Tilt Angle	0° to 30°
Wind Speed	60 m/s
Snow Load	1.6 KN/m²
Solar Panel	Framed or Frameless
Panel Layout	Portrait or Landscape
Design Standard	AS/NZS 1170, DIN 1055, JIS C8955: 2017, International Building Code IBC 2009
Material	Al6005-T5(Anodized)
Warranty	10 year

Components

1 Rail

2 Rail Splice

3 Post

4 Load Bearing Beam

5 Square Tube

6 Diagonal Brace

7 Rail Clamp Kit

8 End Clamp Kit

9 Middle Clamp Kit

10 H Connector

11 H Connector

12 Pre-assembled Support

AS Solar Carpot Mounting System

AS Solar Carpot Mounting System is designed for solar installation on parking lot, delivering an elegant architectural structrue while providing shelter for cars against weather. The anodized aluminum alloy structure makes the carpot system durable and high-strength.

Advantages

- High-strength, durable, anti-corrosive thanks to its anodized alluminum alloy structure.
- Can be customized to be waterproof or non-waterproof.
- Highly pre-assembled before shipment, saving on-site installation time and labor cost.

Specification

Product	AS Solar Carpot Mounting System	
Application	Parking Lot	
Roof Type	Concrete Base	
Tilt Angle	5° to 15°	
Wind Speed	60 m/s – non-waterproof system	45m/s – waterproof system
Snow Load	1.6 KN/m² – non-waterproof system	1.2 KN/m² – waterproof system
Solar Panel	Framed or Frameless	
Panel Layout	Portrait or Landscape	
Design Standard	AS/NZS 1170, DIN 1055, JIS C8955: 2017, International Building Code IBC 2009	
Material	Al6005-T5(Anodized)	
Warranty	10 year	

Components

0.1-0.12 for Aluminum, Steel H Beam USD 0.14-0.18 per watt

1 Load Bearing Beam

2 Rail

3 Rail Splice

4 Fasten Clamp

5 Middle Clamp

6 End Clamp Kit

7 Base Connector

8 Post

Ground Screw

Ground Screw is widely used in medium to large-scale solar farm installation. Material of ground screw is Q235B steel. The hot-dip galvanized treatment over ground screw surface ensures the ground screw to be anti-corrosive. With own carbon-steel factory that has been in operation for 10+ years, we deliver ground screw products with quality and cost-effectiveness.

Advantages

- Standard length (1200mm to 3000mm) and customized length.
- Strong load bearing capacity, high stability and high strength.
- Highly compatible for different terrain.
- Highly precise on-site piling positioning.
- Easy to install, no on-site welding needed.

Small blade ground screw with flange disc

Pipe Diameter (mm)	Thickness (mm)	Flange Diameter (mm)	Length (mm)	Material
76	3.0–3.5	200 or customized	1200 1600 1800 2000 2500 3000	Hot-dip Galvanized Steel (≧80μm)

Small blade ground screw without flange disc

Pipe Diameter (mm)	Thickness (mm)	Length (mm)	Material
76	3.0–3.5	1200 1600 1800 2000 2500	Hot-dip Galvanized Steel (≧80μm)

Large blade ground screw with flange disc

Pipe Diameter (mm)	Thickness (mm)	Flange Diameter (mm)	Length (mm)	Material
76	3.0–3.5	200 or customized	1200 1600 1800 2000 2500	Hot-dip Galvanized Steel (≧80μm)

Large blade ground screw without flange disc

Pipe Diameter (mm)	Thickness (mm)	Length (mm)	Material
76	3.0–3.5	1200 1600 1800 2000 2500	Hot-dip Galvanized Steel (≧80μm)

Solar Fence

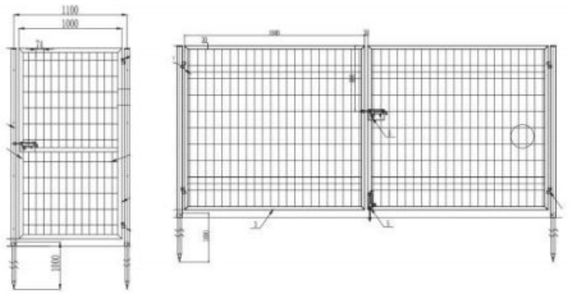
Solar Fence is used for large-scale solar plants so as to guarantee security of asset. We use hot-dip galvanized steel as raw material, ensuring durability and strength of the fence.

Specification

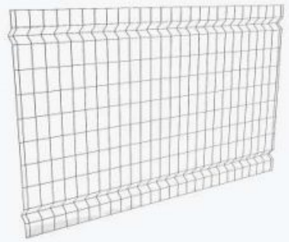
	Width (mm)	Height (mm)	Mesh Dimension (mm)	Material
Fence	2000	1200	74*150 50*150	Hot-dip Galvanized Steel
		1500		
		1800		

	Type	Width (mm)	Height (mm)	Foundation	Material
Door	Single Door	1000	1200	Concrete Base	Hot-dip Galvanized Steel
	Double Door	2000 (each door 1000)	1500	Piling	
		4000 (each door 2000)	1800		

Drawing of Door



Components

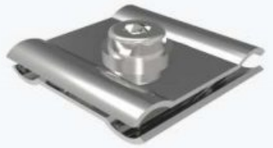


① Steel Mesh

② Hook

③ Pole

④ Gound Nail



⑤ Steel Mesh Connector

AirKaliber

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