

# Green Power , Green World !



SHENZHEN SUNECO NEW ENERGY CO.,LTD.

## Main Markets



**SHENZHEN SUNECO NEW ENERGY CO.,LTD.**

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# SOLAR

Solar Panel Brackets  
PV MOUNTING SOLUTIONS



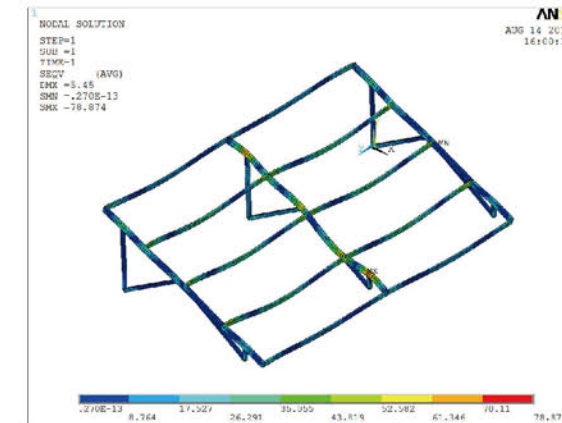
# Company Profile

- **Suneco** is a high-tech enterprise specializing in the development, manufacturing, and marketing of photovoltaic racking solutions, including Pitched Roof Mounting Solutions, Flat Roof Mounting Solutions, Ground Mounting (both for Aluminum and Steel) Solutions and Solar Carport.
- With the Principle of “Innovative, Environment Friendliness and Responsibility”, Suneco set up in 2013 in Shenzhen, China.
- In order to provide the high quality and easy installation products, all the products offered after the strength calculation and tested by QC before delivery, and most of the products are pre-assembled before the shipment to save the installation time.
- With our top quality and service, Suneco mountings are welcomed by most of the installers, distributors, and EPC ect.all around the world.



## ••• 01 Reasonable design and solution

All the solution will be designed based on strict strength calculation.



# Why SUNECO?



## ••• 02 High Quality

All the goods will be tested before delivery and most of the goods will be pre-assembled.

## ••• 03 Best Service

We will response to you within 24H.for any feedback both before and after sales.

## ••• 04 Certificate Support

For Customer's need, we have got so many certificates and inspections for our products.





# » Pitched Tin Roof Mounting

Pitched Tin roof mounting is designed with great flexibility for both commercial and residential roof solar systems. Patented and Innovative Rail design, standard components, Highly pre-assembled clamps, all the above make the installation simple. Save your time and your installation cost.

Advantages:





- 1. Lower cost, Incomparable value ;
- 2. Faster installation, Flexible attachment;
- 3. More perfect service, Complete technical support.



## ■ Brief Introduction

- Installation Site: Pitched Tin Roof
- Max. Building Height: up to 65ft(22m), customized available;
- Max. Wind Speed: **60** m/s;
- Snow Load: **1.4** KN/m²
- Material: Aluminum 6005-T5 & Stainless Steel 304;
- Warranty: **10** years warranty; **25** years service life.

## ■ Components Parts

 <p><b>SUI-IC</b> ◆ Description Mid clamp, Al 6005-T5&amp; SUS 304 ◆Function Fix panel on the rail in the inner part</p>	 <p><b>SUI-EC</b> ◆ Description End clamp, Al 6005-T5&amp; SUS 304 ◆Function Fix panel on the rail at the end of panel</p>
 <p><b>SUI-IK-L</b> ◆ Description L feet, Al6005-T5 ◆Function Fix the rail to the beam</p>	 <p><b>SUI-R</b> ◆ Description Rail: Extruded Aluminum Profile, Al6005-T5 2560mm, 3405mm and 4200mm are the standard size ◆Function The frame supports the solar panel</p>

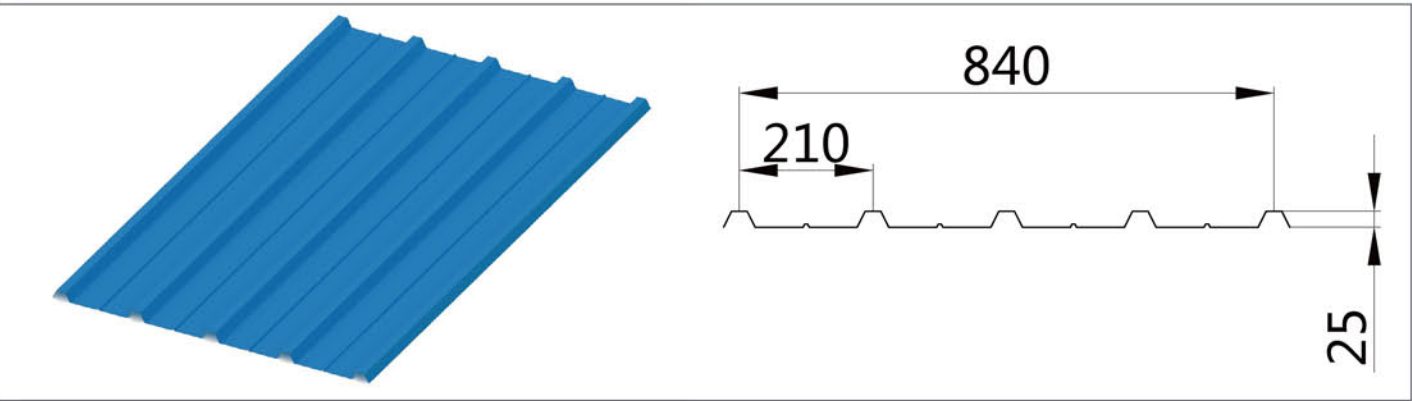
## ■ Other related Hook



## ■ Different types of connection



## ■ Application Roof



## ■ Brief Installation Guide





# » Standing Seam Roof Mounting


Standing Seam Roof Mounting is a patented and innovative clamping roof mounting with great flexibility both for Commercial and Residential areas. No need of rail makes the installation to be easier and lower cost.




## ■ Brief Introduction

- Installation Site: Metal Roof
- Max. Building Height: up to 65ft(22m), customized available;
- Max. Wind Speed: **60** m/s;
- Snow Load: **1.4** KN/m²
- Material: Aluminum 6005-T5 & Stainless Steel 304;
- Warranty: **10** years warranty; **25** years service life.


## ■ Components Parts

**A**  


**SUI-IC**  
◆ Description  
Mid clamp, Al 6005-T5& SUS 304  
◆Function  
Fix panel on the rail in the inner part

**B**  


**SUI-EC**  
◆ Description  
End clamp, Al 6005-T5& SUS 304  
◆Function  
Fix panel on the rail at the end of panel

**C**  


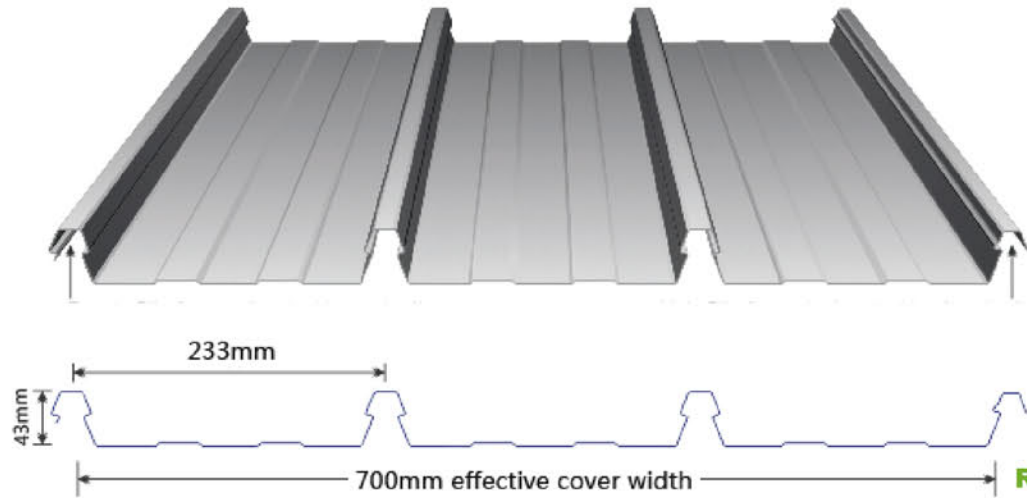
**TR-01-N**  
◆ Description  
Standing seam roof clamp, AL 6005-T5& SUS304  
◆Function  
Fix onto the tin roof to support the solar panels

## ■ SUI-TR Series

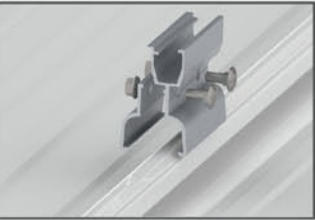
- SUI-TR series standing seam clamp is used to fix the rail to the raised metal sheet on the roof, which is fastened by the screws **without penetrating** the roof structure surface.

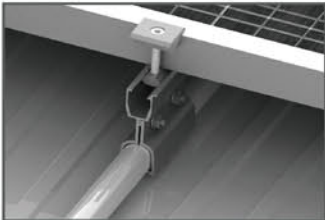


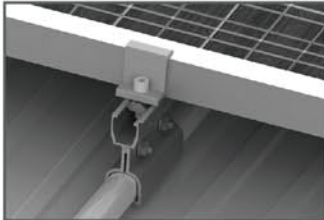
ITEM NO.	Material	Spec.	WEIGHT	SURFACE
SUI-TR-01-N	Al6005-T5	Tin Roof	215g	Anodized
SUI-TR-04-N	Al6005-T5	Tin Roof	270g	Anodized
SUI-TR-07-N	Al6005-T5	Tin Roof	420g	Anodized
SUI-TR-08	Al6005-T5	Tin Roof	176g	Anodized

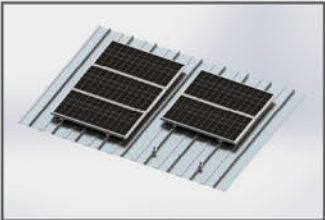


## ■ Brief Installation Guide (Take SUI-TR-01-N as example)

**1**  
Fix the TR-01-N hook to the roof sheet with two bolts & nuts  


**2**  
Fix the solar panels to the hooks with mid clamps in the inner part  


**3**  
Fix the solar panels to the hooks with end clamps at the end of panel  


**4**  
Finished installation  


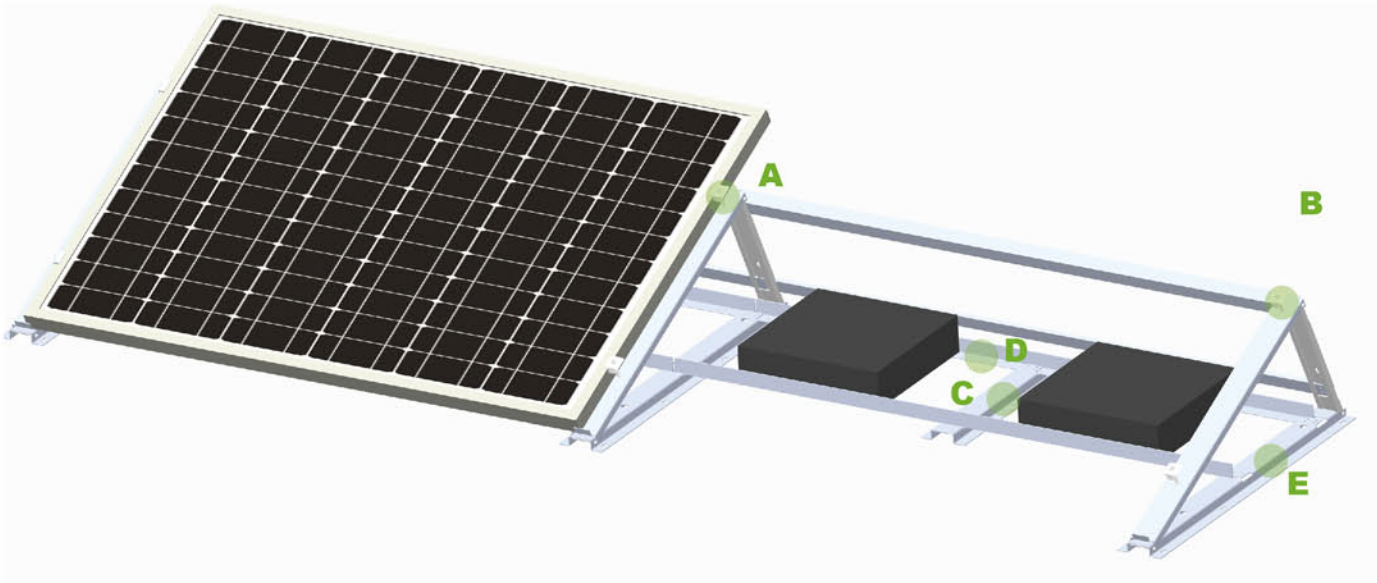


# Aluminum Ballasted Mounting






Aluminum Ballasted Mounting II is designed with great flexibility both for the residential and commercial flat roof solar systems. Small and light weight to lessen the roof pressure.



3D Study




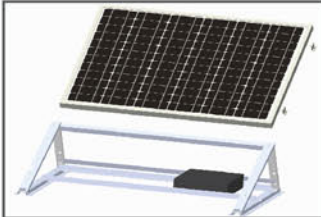
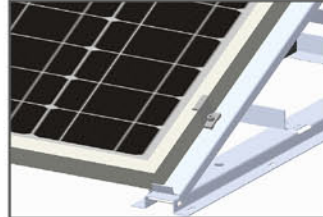
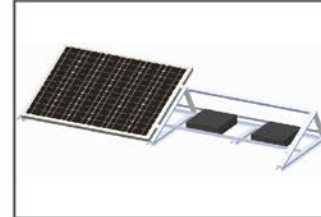
## Components Parts

<b>A</b> 	<b>SUI-IC-II</b> ◆ Description Mid clamp, Al 6005-T5& SUS 304  ◆Function Fix panel on the rail in the inner part	<b>B</b> 	<b>SUI-EC-II</b> ◆ Description End clamp, Al 6005-T5& SUS 304  ◆Function Fix panel on the rail at the end of panel	<b>C</b> 	<b>SUI-SR-II</b> ◆ Description Triangle Frame 525mm  ◆Function Support Triangle Frame
<b>D</b> 	<b>SUI-TF-II</b> ◆ Description Triangle fixing components  ◆Function Connect triangle frame	<b>E</b> 	<b>SUI-BS-II</b> ◆ Description Ballasted Support Frame, Al6005-T5  ◆Function Fix onto the flat roof to support the solar panels		

## Brief Introduction

- Installation Site: Flat roof
- Module Angle: **10-60** degrees
- Max. Building Height: up to 65ft(22m), customized available;
- Max. Wind Speed: **60**m/s;
- Snow Load: **1.4** KN/m²
- Material: Aluminum 6005-T5 & Stainless Steel 304;
- Warranty: **10** years warranty; **25** years service life.

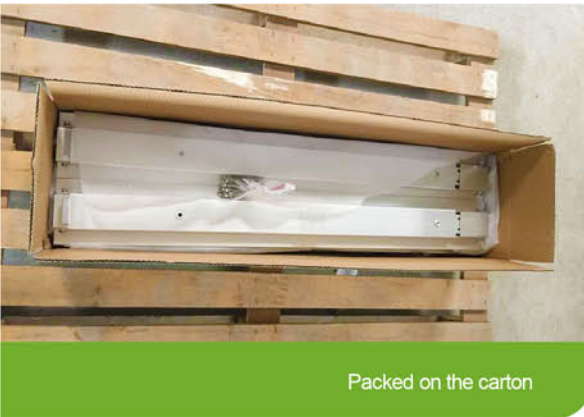
## Brief Installation Guide

<b>1</b> Connect and fix the adjacent SUI-BS II with Triangle fixing components	<b>2</b> Fix the structure to the flat roof by the ballasted weight and fix the panel to the structure with clamps	<b>3</b> Fix the end clamps	<b>4</b> Finished the installation
			

## Packing



The ballasted support frame will be pre-assembled

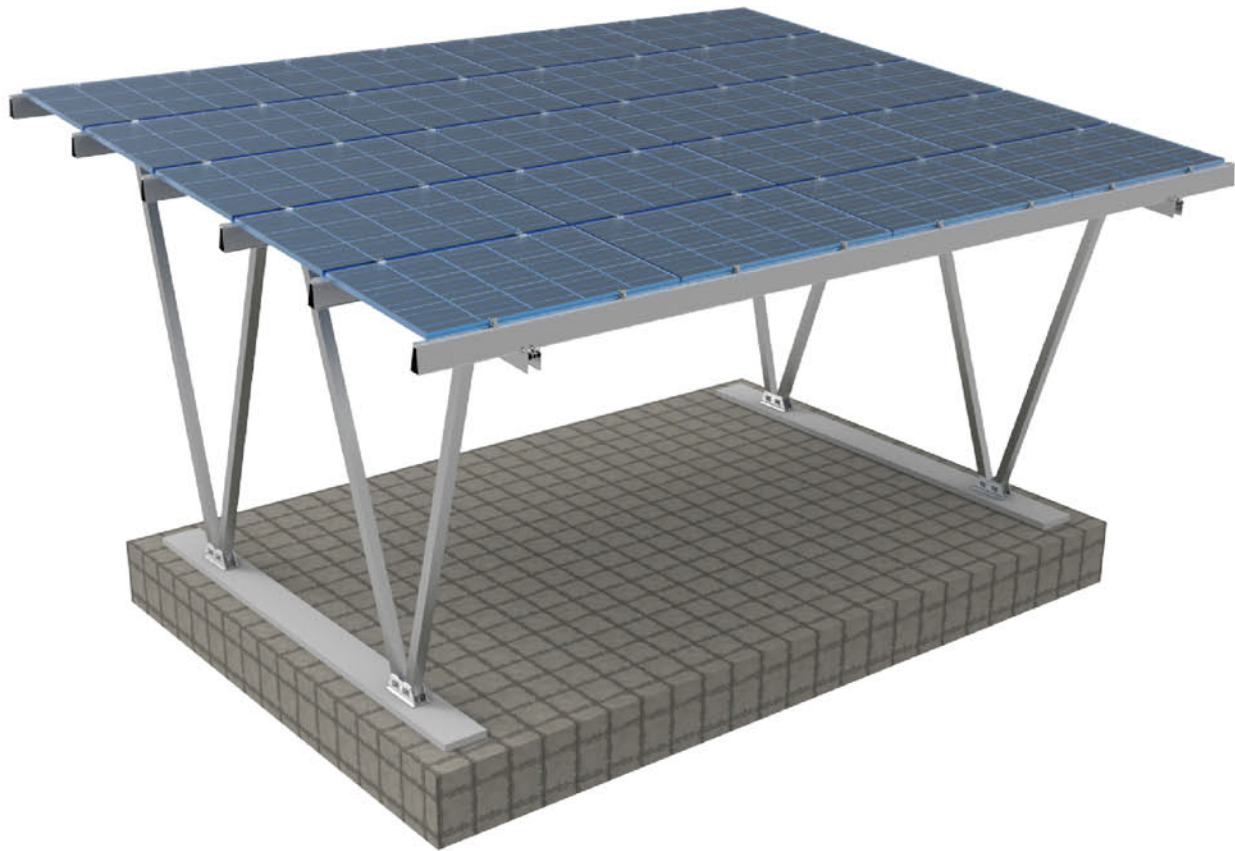


Packed on the carton



# Solar Aluminum Carport Mounting

With great flexibility, the Solar Aluminum Carport can be applied for both commercial and residential areas. The carport capacity can be customized as per customers' request. The whole structure is made of Aluminum and fastener will be stainless steel.



## Brief Introduction

- Installation Site: Ground, Open field;
- Moudle Angle: **0-20** degrees;
- Max.Building Height: Customized;
- Snow Load: **1.4** KN/m²;
- Max Wind Speed: **60**m/s;
- Material: Aluminum 6005-T5& SUS 304;
- Warranty: **10** years warranty; **25** years service life.

## Brief Installation Guide

1

Unfold the SUI-Pole & Fix the SUI-Pole to the UN-Beam

2

Set up the assembled SUI-Pole and the SUI-Beam

3

Fix the SUI-RC11 to the SUI-Beam

4

Solar panel installation

## Components Parts

A

**SUI-Pole**  
◆ Description  
Pole, Al6005-T5  
◆Function  
This pole support the whole carport brackets

B

**SUI-Beam**  
◆ Description  
Beam, Extruded Aluminum file, Al 6005-T5  
◆Function  
To connect poles

C

**SUI-RC11**  
◆ Description  
Rail, Al6005-T5  
◆Function  
The frame support the solar panel

D

**SUI-RS**  
◆ Description  
Rail Splice, Al6005-T5 & SUS304  
◆Function  
Extend the rail to the required length

E

**SUI-Clamp-F**  
◆ Description  
Clamp, Al6005-T5&SUS304  
◆Function  
Fix the rail to the beam

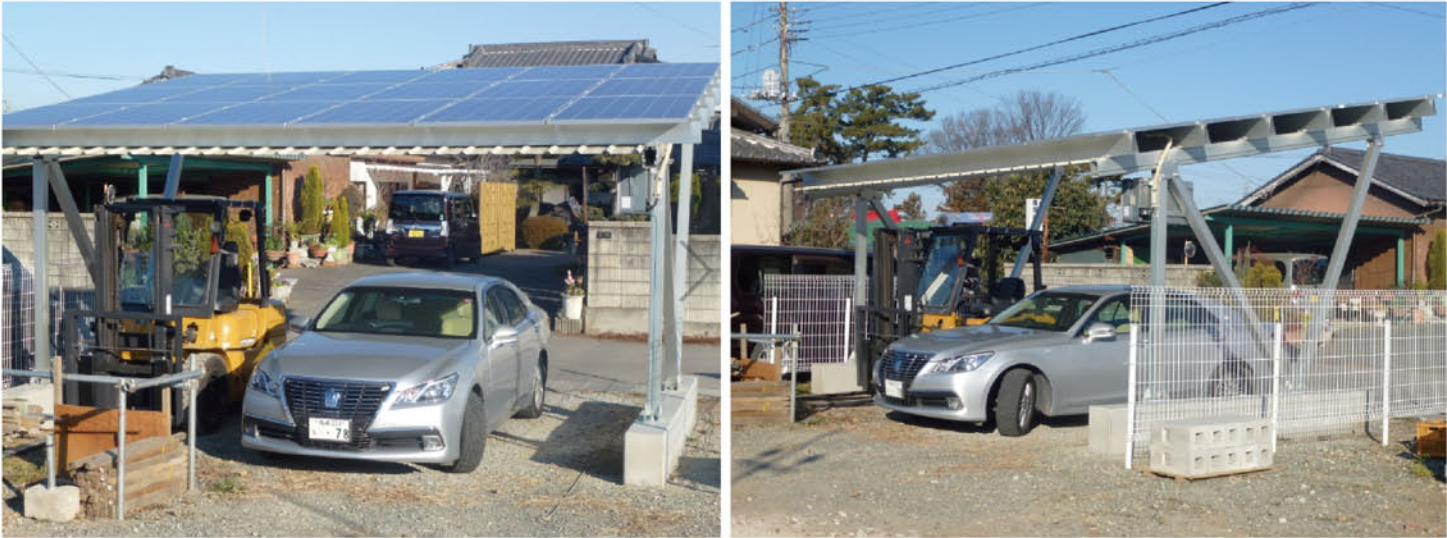
F

**SUI-EC (5A)**  
◆ Description  
End Clamp, Al 6005-T5& SUS 304  
◆Function  
Fix panel on the rail at the end of panel

G

**SUI-IC (5A)**  
◆ Description  
Mid Clamp, Al 6005-T5& SUS 304  
◆Function  
Fix panel on the rail in the inner part

## Project Pictures

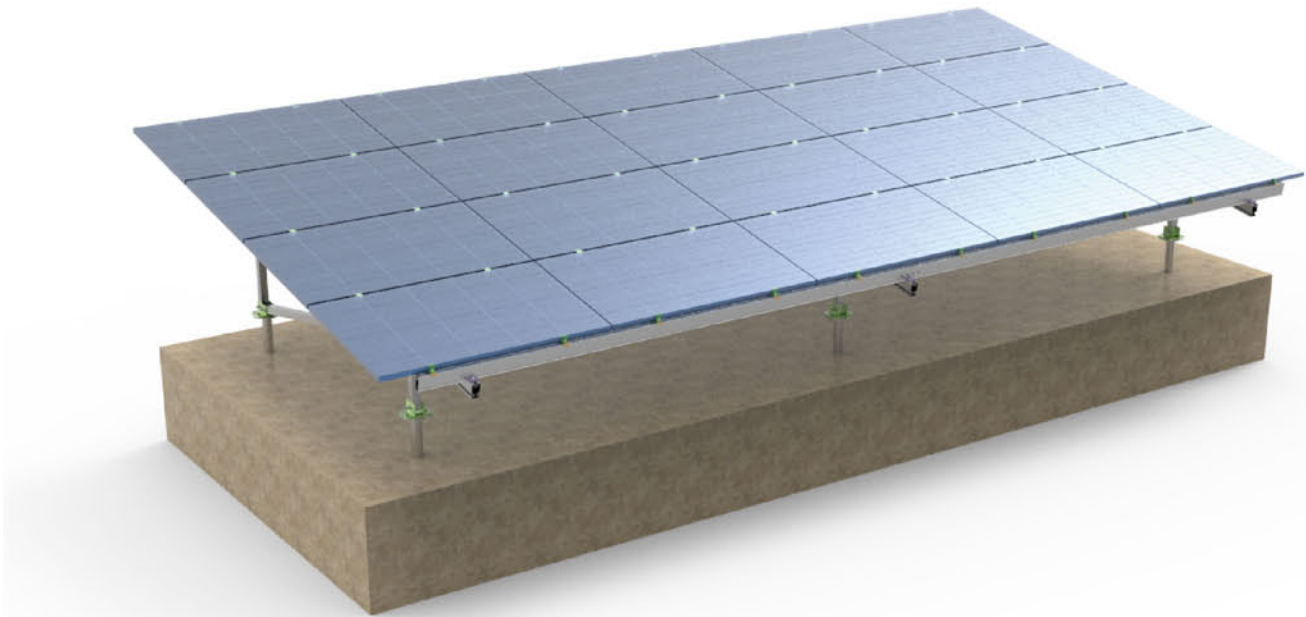




# F Type Aluminum Ground Mounting

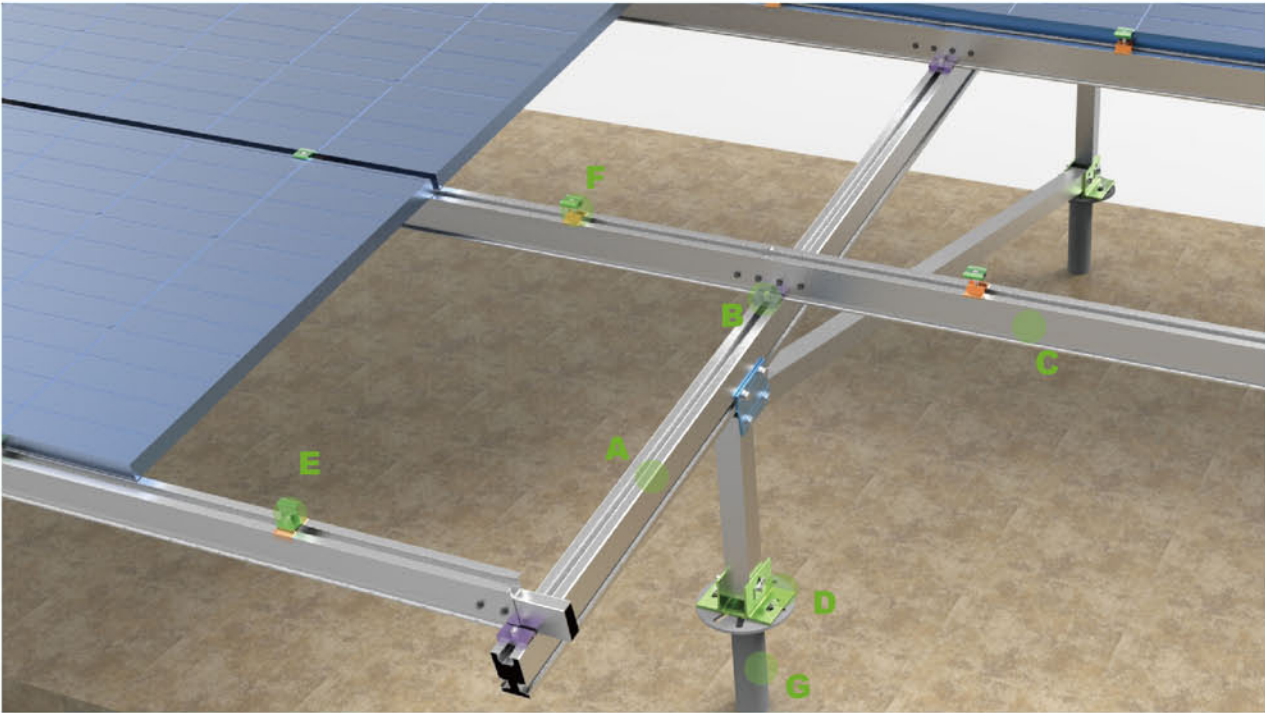
F Type Aluminum Ground Mounting is usually applicable to the open field, not only for residential projects, but also for the big commercial projects.

It is featured with light weight, strong and powerful structure and recyclable materials, the pre-assembled support rack save your time and cost.



## Brief Introduction

- Installation Site: Open field/ Ground;
- Module Angle: 0-60 degrees;
- Max. Wind Speed: 60 m/s;
- Snow Load: 1.4 KN/m²;
- Material: Aluminum 6005-T5;
- Warranty: 10 years warranty; 25 years service life;
- Patent: ZL 2014 2 0442042.6.



## Components Parts

<b>A</b>		<b>SUI-Rack</b> ◆ Description Beam, Front&rear leg, Al 6005-T5 ◆ Function Support the frame	<b>B</b>		<b>SUI-Clamp</b> ◆ Description Fixing Clamp, Al 6005-T5 ◆ Function Fix the rail to the support rack
<b>C</b>		<b>SUI-R</b> ◆ Description Rail, Al 6005-T5 ◆ Function The frame support the solar panel	<b>D</b>		<b>SUI-FB</b> ◆ Description Foot base, Al 6005-T5 ◆ Function Fix front leg&rear leg on base
<b>E</b>		<b>SUI-EC</b> ◆ Description End Clamp, Al 6005-T5& SUS 304 ◆ Function Fix panel on the rail at the end of panel	<b>F</b>		<b>SUI-IC</b> ◆ Description Mid Clamp, Al 6005-T5& SUS 304 ◆ Function Fix panel on the rail in the inner part
<b>G</b>		<b>Ground Screw</b> ◆ Description Ground Screw, Q235 ◆ Function The basis of the system			

## Advantages

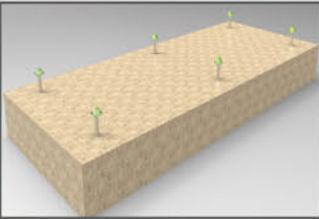
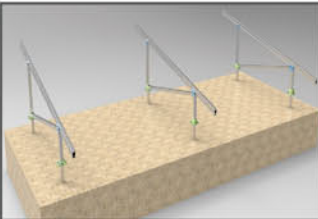
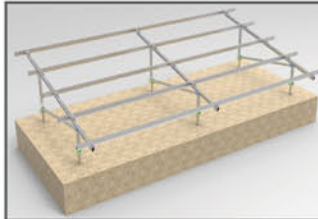
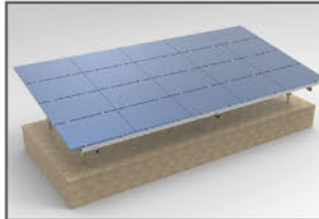


The clamps with locking block can prevent the rail slide.

The ripples on the foot base can make it be anti-skid and stronger.

Highly pre-assembled, save cost and time.

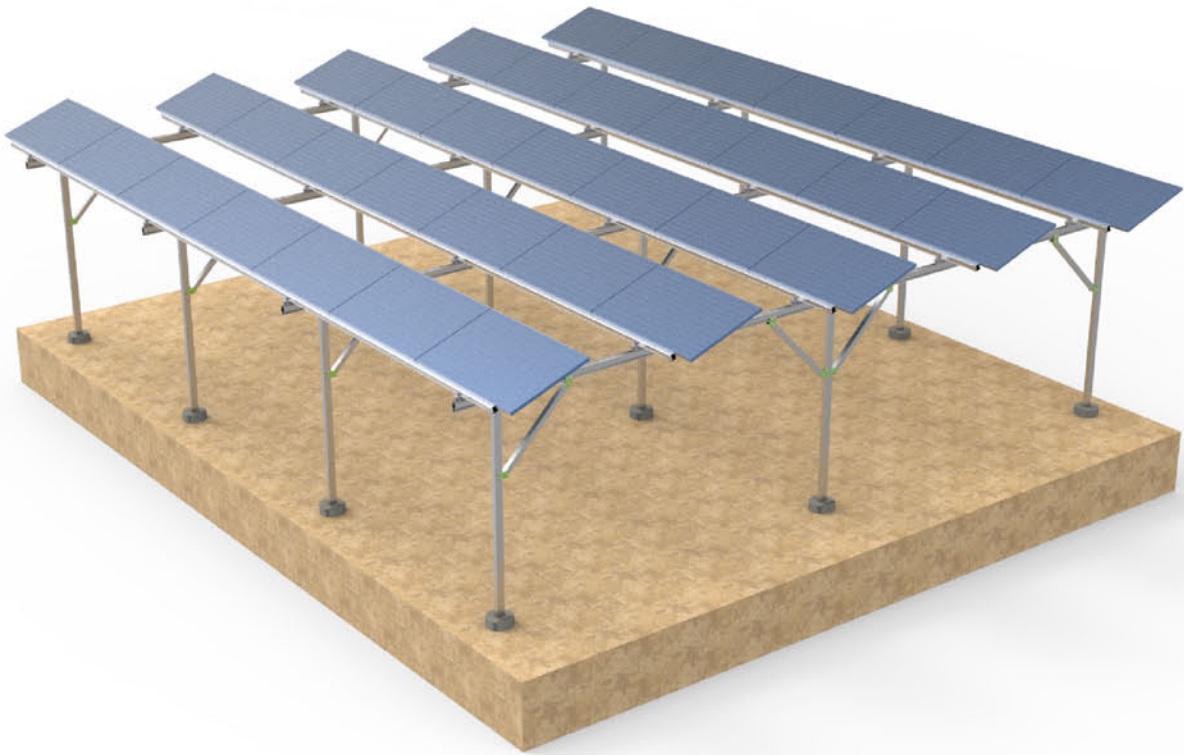
## Brief Installation Guide

<b>1</b>	Fix the Leg base to the ground screw	<b>2</b>	Fix the pre-assembled support rack to the foot bases	<b>3</b>	Fix the rail to the support rack and do proper adjustment	<b>4</b>	Solar panel installation
							






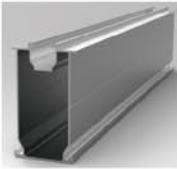




# Solar Farm

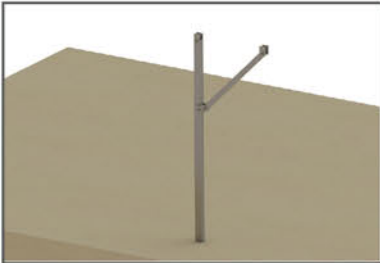
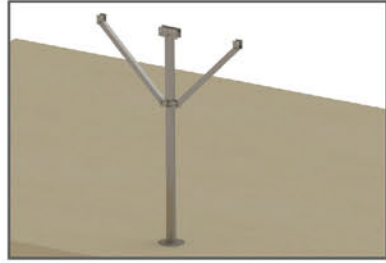
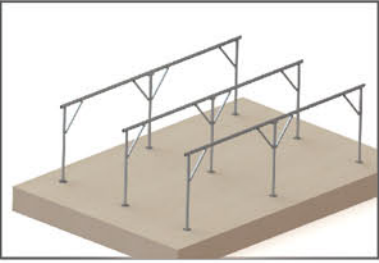
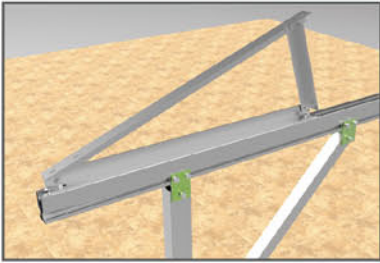
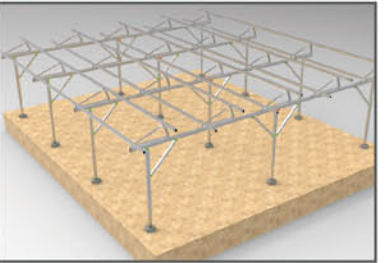

Solar farm has been a classic applications of solar energy. Solar farm ont only generate the energy but also protect plants from the extreme weather and gather the heat for fast growing.



## Components Parts

<b>A</b>  <b>SUI-AR-LA</b> ◆ Description Leg Cap, Q235 ◆Function Fix Legs	<b>B</b>  <b>SUI-AR Pole (Y)</b> ◆ Description AR Pole, Al6005-T5 ◆Function This pole support the whole solar farm brackets	<b>C</b>  <b>SUI-AR Pole (W)</b> ◆ Description AR Pole, Al6005-T5 ◆Function This pole support the whole solar farm brackets
<b>D</b>  <b>SUI-AR Beam</b> ◆ Description Beam, Extruded Aluminum Profile, Al 6005-T5 ◆Function To Connect AR poles	<b>E</b>  <b>SUI-AR Triangle support</b> ◆ Description Triangle support, aluminum 6005-T5 ◆Function Fix angle and supports the rail	<b>F</b>  <b>SUI-AR-SP</b> ◆ Description Beam Splice, Extruded Aluminum Profile, Al 6005-T5 ◆Function To Connect Beam
<b>G</b>  <b>SUI-R</b> ◆ Description Rail, Extruded Aluminum Profile, Al6005-T5 ◆Function The frame supports the solar panel	<b>H</b>  <b>SUI-IC</b> ◆ Description Mid clamp, Al 6005-T5& SUS 304 ◆Function Fix panel on the rail in the inner part	<b>I</b>  <b>SUI-EC</b> ◆ Description End clamp, Al 6005-T5& SUS 304 ◆Function Fix panel on the rail at the end of panel

## Brief Installation Guide

<b>1</b> Posotion the Y pole dig into the ground 	<b>2</b> Posotion the W pole dig into the ground 	<b>3</b> Connect the Y pole and W pole 
<b>4</b> Install the triangle structure on the beam 	<b>5</b> Put the pressembled Triangle support to the pole and beam 	<b>6</b> Put rails onto the triangle support and fix the panel adn calmps 

## Brief Introduction

- Installation Site:open field
- Moudle Angle :0-60degrees
- Max. Wind Speed:60 m/s;
- Snow Load:1.4 KN/m²
- Material:Aluminum 6005-T5 & Q235;
- Warranty: 10 years warranty; 25 years service life.

## Advantages

- 01 Highly pre-assembled components before delivery significantly make installation cost-savings
- 02 Easy installation with humanized user guide
- 03 Reliable calculation and testing make the system to be more economic and safer



# » Ground Screw

Ground Screw is made of Q235 material. We have flange top and tube top types with different specification. Our standard thickness is 3mm,3.5mm and 2.75mm and length with 1200mm, 1600mm, 1800mm,2000mm.The length and size could also be customized. It can be used for many kinds of application, like Timer-Frame Construction; Advertising and traffic systems;Urban, Garden and Landscape Constraction; Hall and container Construction; Fencing Systems,Solar systems; Flag Poles & Banners etcs.



## ■ Brief Introduction

- Material:Q235
- Surface:Hot dip galvanization
- Thickness:3.0mm/2.75mm/3.5mm
- Series:Flange Top, Tube Top
- Warranty: **10** years warranty; **25** years service life.



## ■ Advantages

- 01 **Compatibility with all type of structures.**  
Our technical department will adapt the head of our ground screw piles to whatever the need of the customer is.
- 02 **Foundation solution concrete free**  
No need of Concrete base.
- 03 **Surrounding areas remains unspoiled**  
The special configuration of our products allows the insertion without performing land preparation works, which allows a significant cost reduction.
- 04 **Easy removal simple and easy to relocate**  
One of the main advantages of our ground screw piles is the possibility of removing them, reducing the environmental impact and minimizing the removing costs.

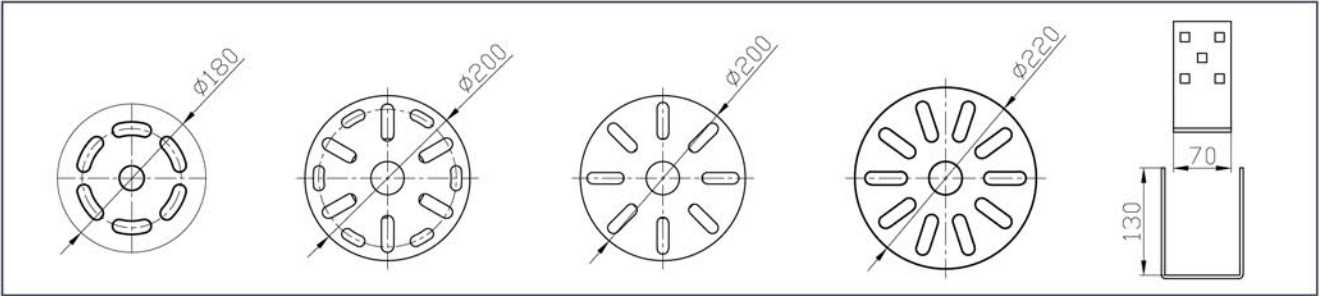
## ■ Ground Screw



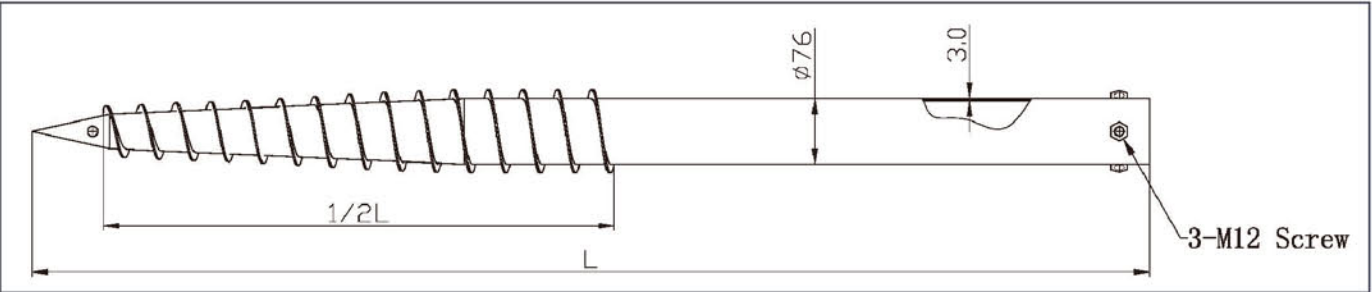
## ■ Specification

NO	Code1	Surface	Material	H(mm)	D(mm)	Galvanized Surface	Thickness
01	F76×L— 2	Hot Galvanized	Q235	Customized	76	≥ 80 μm	3.5mm/ 2.75mm/ 3.0mm
02	F76×L— 4			Customized	76	≥ 80 μm	
03	F76×L			Customized	76	≥ 80 μm	
04	N76×L			Customized	76	≥ 80 μm	
05	F76×L— A			Customized	76	≥ 80 μm	
06	F76×L— U			Customized	76	≥ 80 μm	

## ■ Flange Type



## ■ Tube Type





» Packing and shipping



Container waiting area



Rail package



Beam assembly package



Container photos



Ground screw package



Steel frame package

» Projects



Project size: 1.5MW  
Site Location: Japan  
Finished Time: 2019  
Project type: Fltype ground mounting



Project size: 8MW  
Site Location: Barbados  
Finished Time: 2014  
Project type: Concrete Roof Mounting



Project size: 1.4MW  
Site Location: Japan  
Finished Time: 2019  
Project type: Solar Farm



Project size: 104KW  
Site Location: Japan  
Finished Time: 2018  
Project type: Trapezoidal Roof Mounting



Project size: 27KW  
Site Location: Japan  
Finished Time: 2016  
Project type: Solar Carport



Project size: 3MW  
Site Location: China  
Finished Time: 2016  
Project type: Trapezoidal Roof Mounting