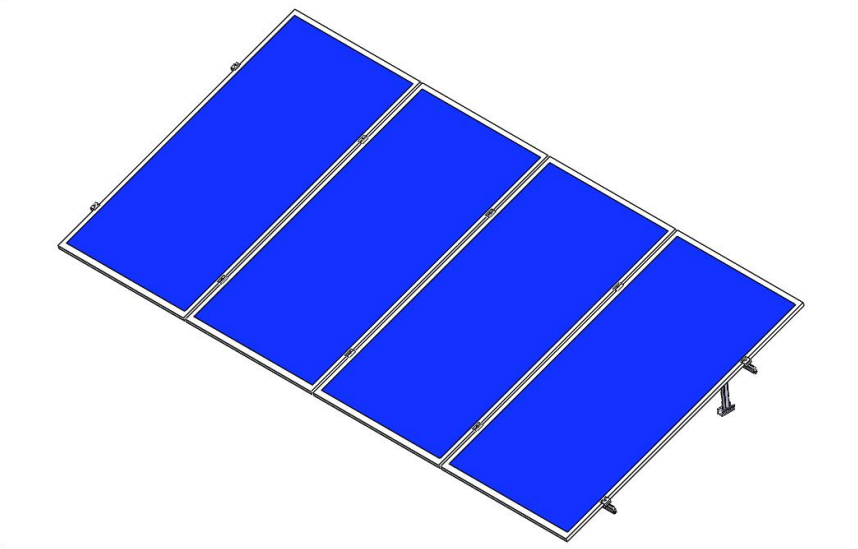
FR01V3
Adjustable Solar Mount Qucik Installation Guide



Safety precautions

The installer shall comply with the following specifications:

◇ Comply with all applicable local or national building codes, including any that may supersede this manual.

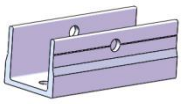
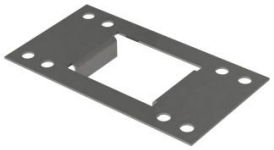
◇ Please use the spare parts provided by our company and the installation tools you carry (if other spare parts are used to replace our spare parts for construction, our company will not be responsible for quality problems).

◇Ensure that products such as aluminum support are suitable for specific installation and installation environment.

◇How to recycle: according to local regulations.

Sunforson Power(Xiamen)Co.,Ltd
Address: 817 Unit 993th Building An Ling,Hu Li District Xiamen China 361000
Email: info@sunforson.com / Tel: 0592-3655325 / Fax: 0592-5115756 / Website: www.sunforson.com

1.Part diagrams

①SunRack Rail 21 (AL6005-T5) 	②Mid clamp (AL6005-T5) 	③End clamp (AL6005-T5) 
④U-shaped base (AL6005-T5) 	⑤Splice connector Group (AL6005-T5) 	⑥Grounding clip (SS304) 
⑦Cable Clip (SS304) 	⑧Earth Lug Group 	⑨Adjustable leg group (AL6005-T5) 
⑩Diagonal beam (AL6005-T5) 	⑪S-L-connector Group (AL6005-T5) 	

2.Install tool


Glove


Power tool

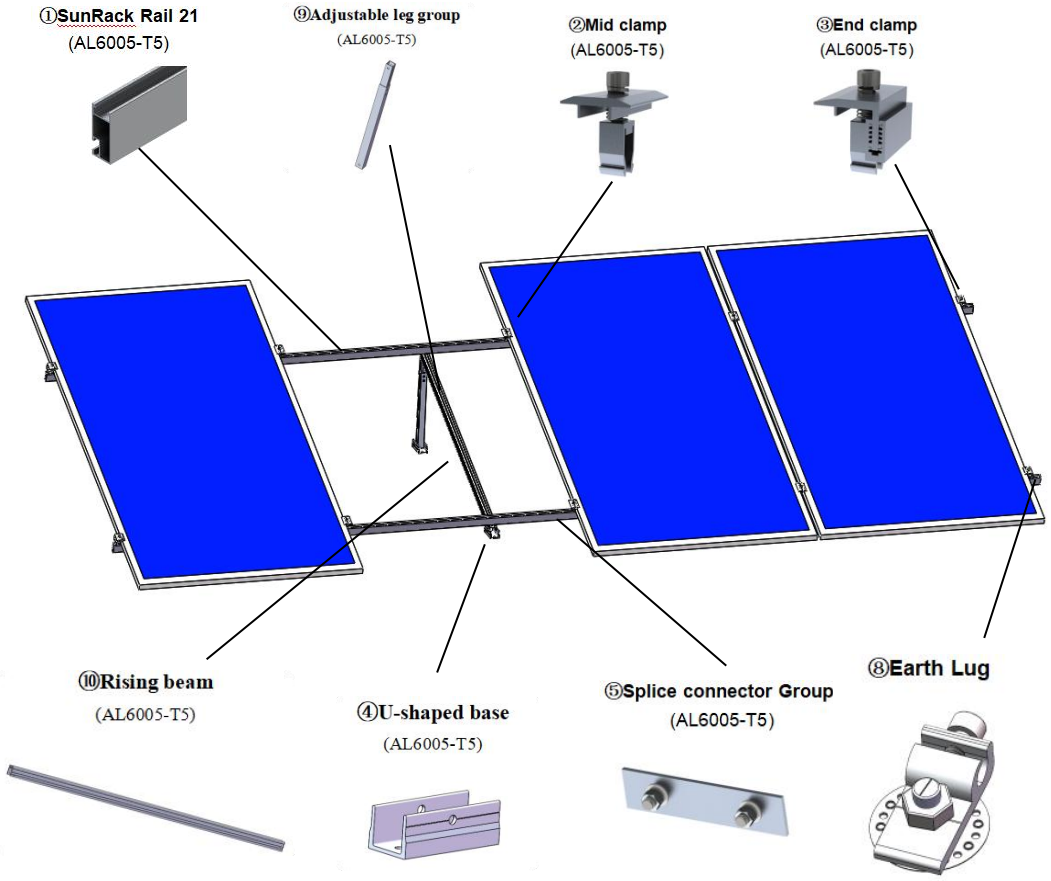

Monkey wrench


Meter ruler

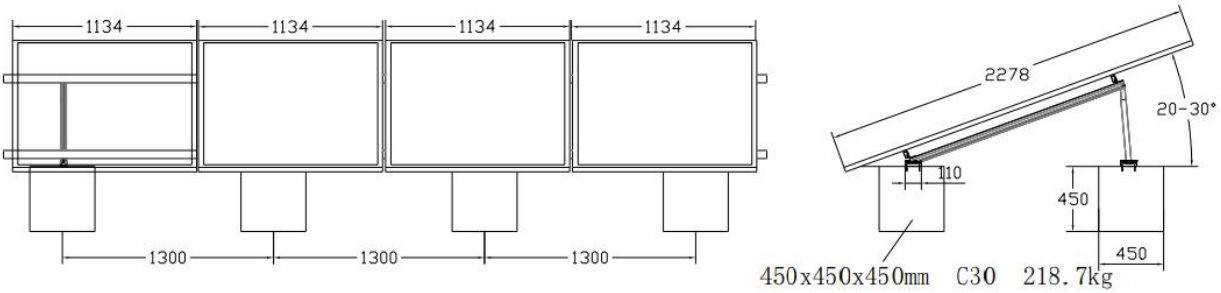

Allen key

Sunforson Power(Xiamen)Co.,Ltd
Address: 817 Unit 993th Building An Ling,Hu Li District Xiamen China 361000
Email: info@sunforson.com / Tel: 0592-3655325 / Fax: 0592-5115756 / Website: www.sunforson.com

3. Vista Previa



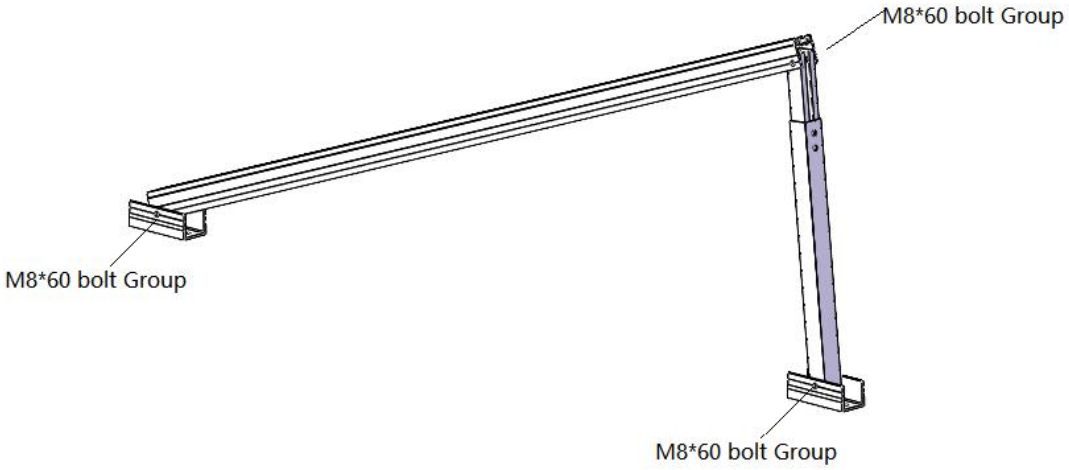
4. Design Drawing



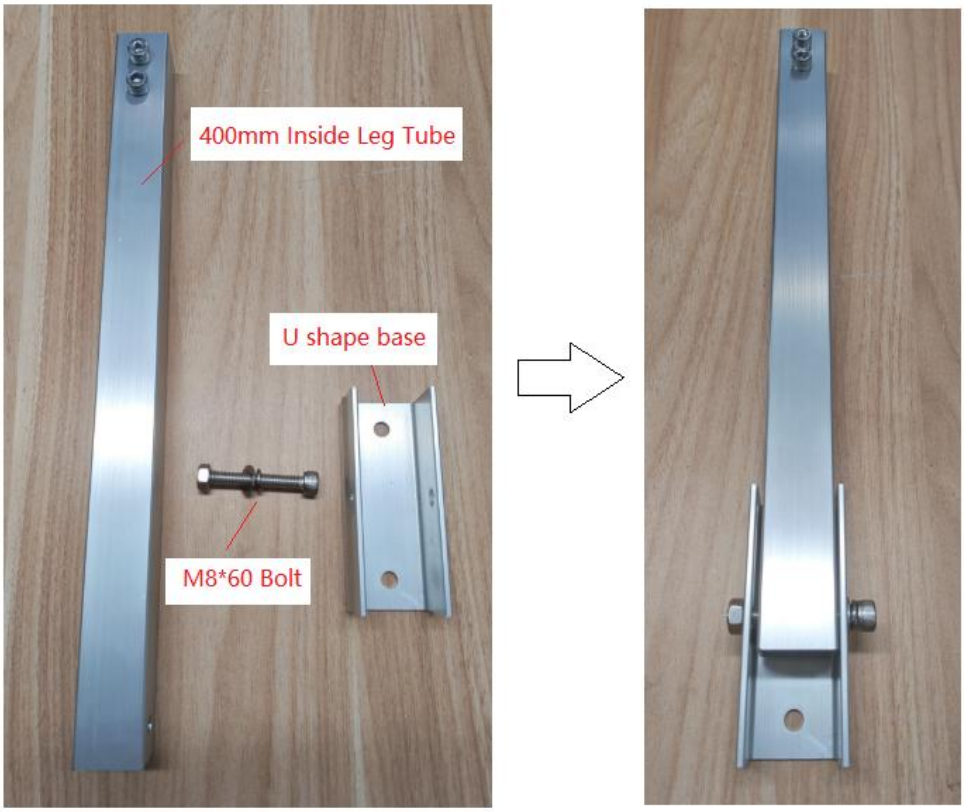
Sunforson Power(Xiamen)Co.,Ltd
Address: 817 Unit 993th Building An Ling,Hu Li District Xiamen China 361000
Email: info@sunforson.com / Tel: 0592-3655325 / Fax: 0592-5115756 / Website: www.sunforson.com

5. Installation instruction：

5.1Pre-install the Support leg Group



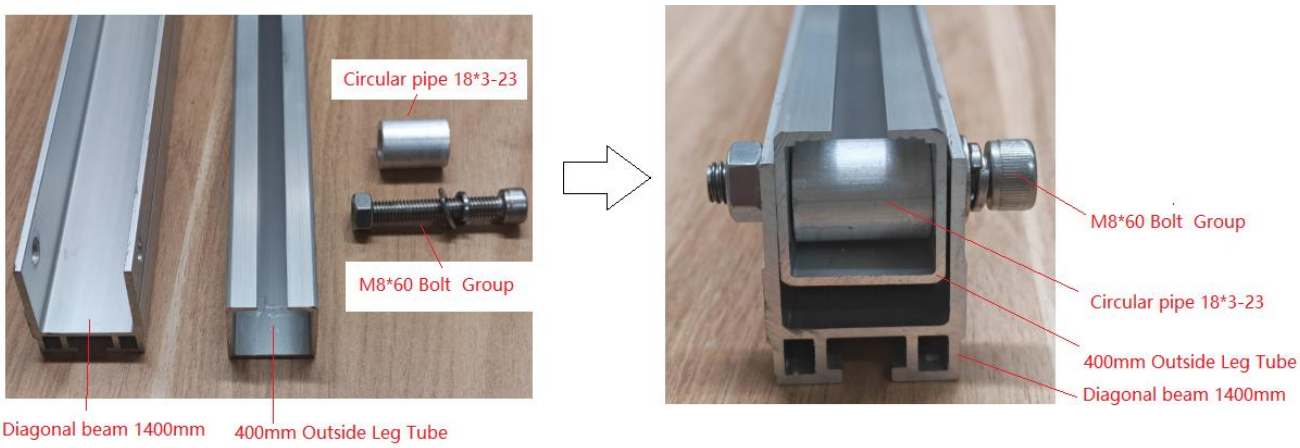
a) Use M8*60 bolt Group group to install Inside leg tube and U shape base.(install torque 11N.m)



a) Use M8*60 bolt Group group to install outside leg tube and diagonal beam.(install torque

Sunforson Power(Xiamen)Co.,Ltd
Address: 817 Unit 993th Building An Ling,Hu Li District Xiamen China 361000
Email: info@sunforson.com / Tel: 0592-3655325 / Fax: 0592-5115756 / Website: www.sunforson.com

11N.m)

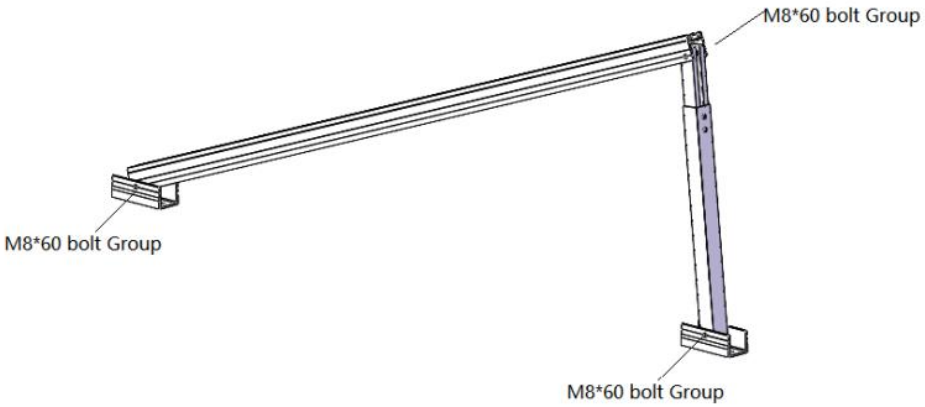


c) Join the insidet and outer tubes together(install torque 11N.m)

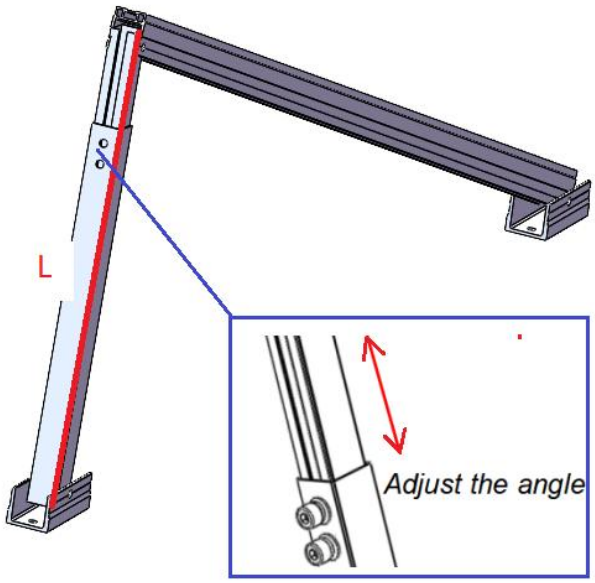


d) Install the U shap base on the other end

Sunforson Power(Xiamen)Co.,Ltd
Address: 817 Unit 993th Building An Ling,Hu Li District Xiamen China 361000
Email: info@sunforson.com / Tel: 0592-3655325 / Fax: 0592-5115756 / Website: www.sunforson.com



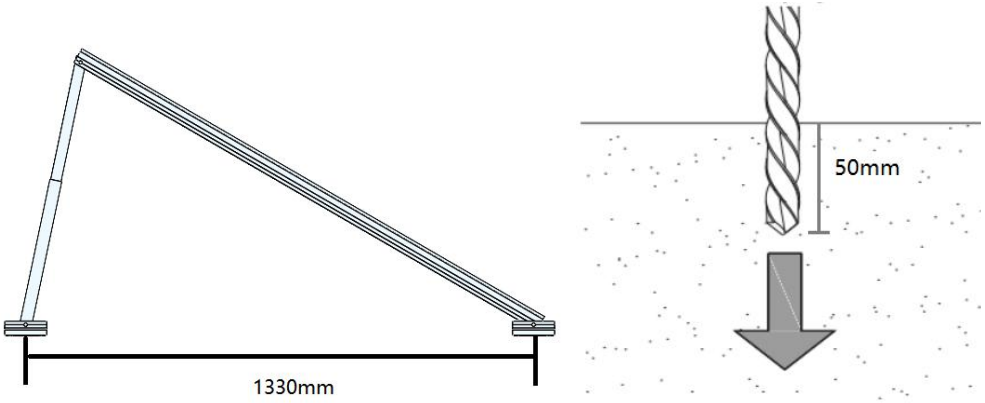
e) You can achieve different angles by adjusting the lengths of the inside and outsode leg ,Difference degree ,difference length (L).

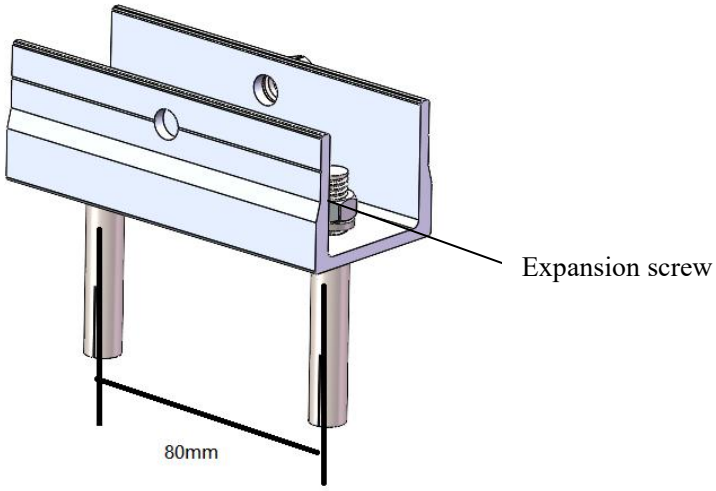


Degre	Length L(mm)
20 °	500
25 °	615
30 °	730

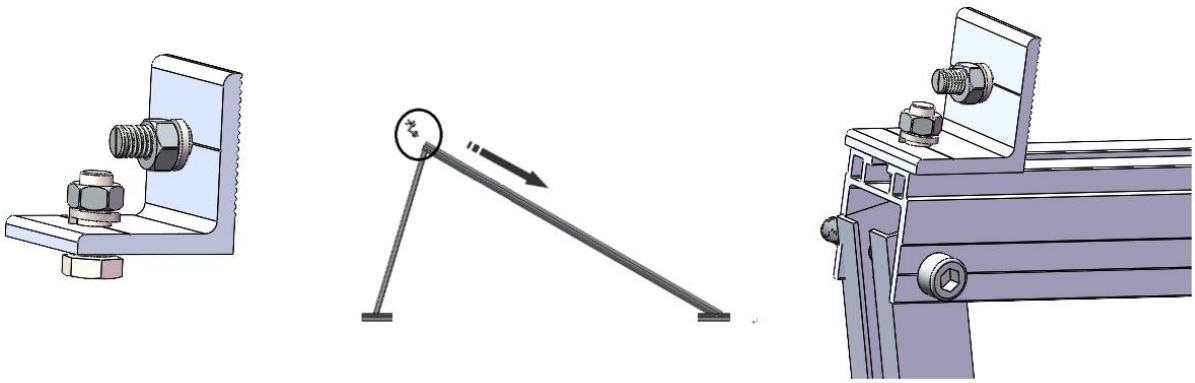
5.2 Use power tool to drill hole 10 mm for Expansion,and than fix the support leg group (install torque 13N.m)

Sunforson Power(Xiamen)Co.,Ltd
Address: 817 Unit 993th Building An Ling,Hu Li District Xiamen China 361000
Email: info@sunforson.com / Tel: 0592-3655325 / Fax: 0592-5115756 / Website: www.sunforson.com

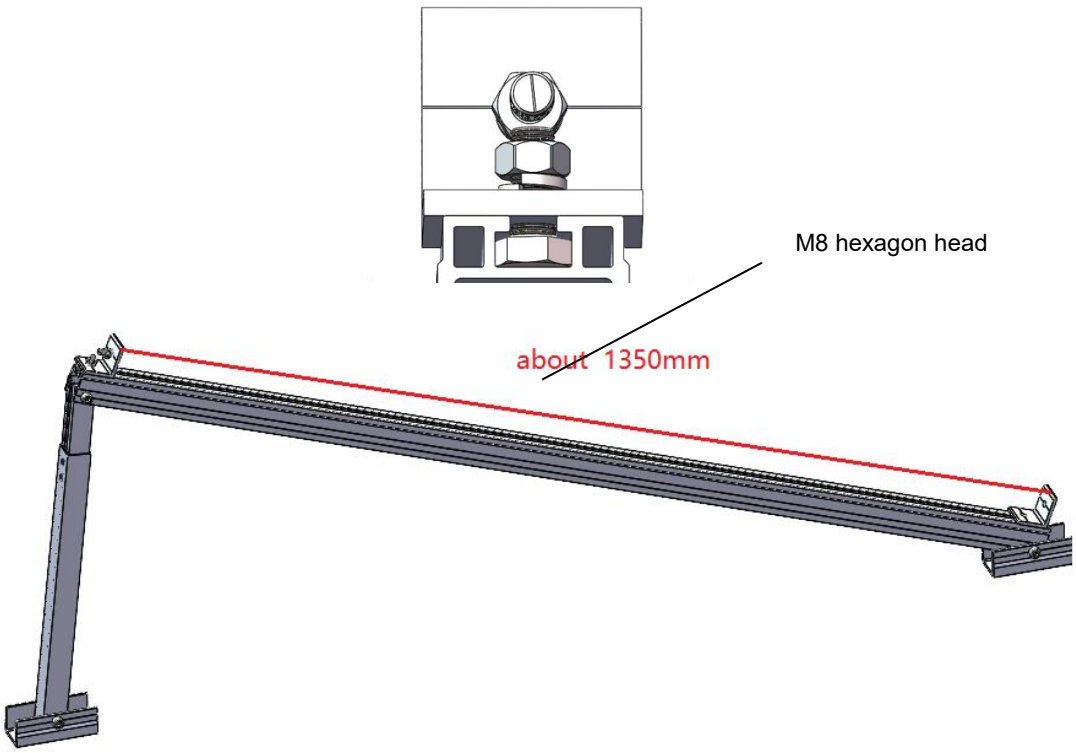




5.3 As follow picture show to Install S-L-connector Group (install torque 11N.m)



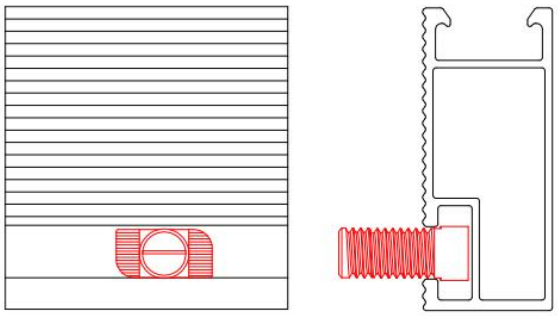
Sunforson Power(Xiamen)Co.,Ltd
Address: 817 Unit 993th Building An Ling,Hu Li District Xiamen China 361000
Email: info@sunforson.com / Tel: 0592-3655325 / Fax: 0592-5115756 / Website: www.sunforson.com



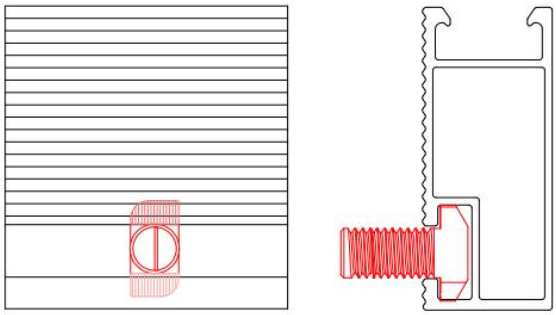
5.4 As follow picture show to Install Rail

a).The installation of SR21 requires the use of T Bolt. The installation of the T Bolt is as shown in the following picture.(install torque 11N.m)

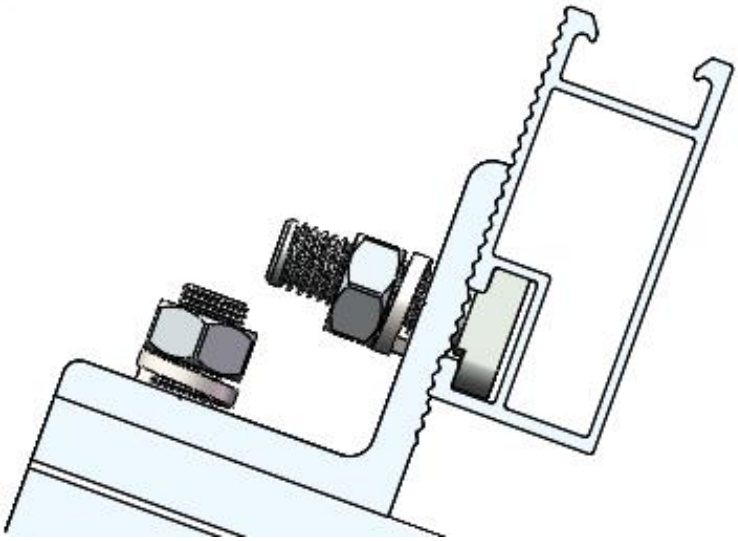
Sunforson Power(Xiamen)Co.,Ltd
Address: 817 Unit 993th Building An Ling,Hu Li District Xiamen China 361000
Email: info@sunforson.com / Tel: 0592-3655325 / Fax: 0592-5115756 / Website: www.sunforson.com



Insert the screw into the SR21 slot.



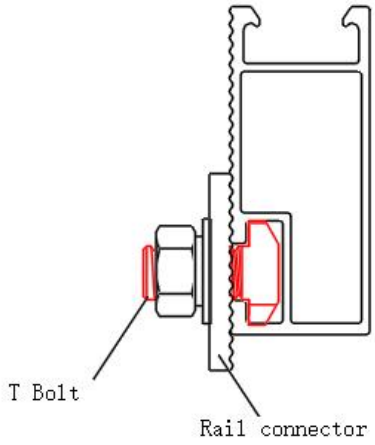
Rotate 90 degrees, and the marking line will eventually be in a vertical position, indicating that the installation is complete.

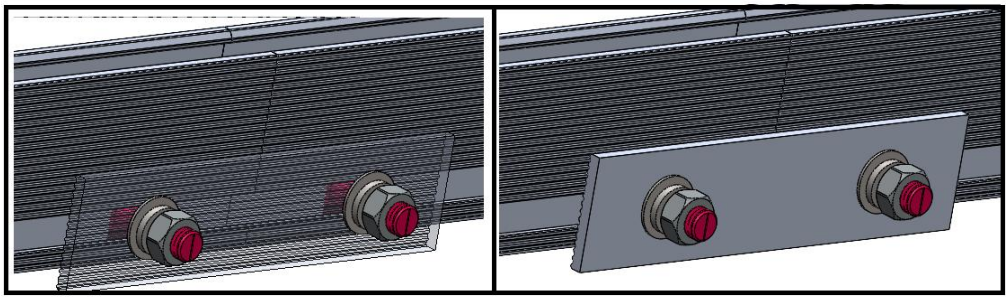


Sunforson Power(Xiamen)Co.,Ltd
Address: 817 Unit 993th Building An Ling,Hu Li District Xiamen China 361000
Email: info@sunforson.com / Tel: 0592-3655325 / Fax: 0592-5115756 / Website: www.sunforson.com

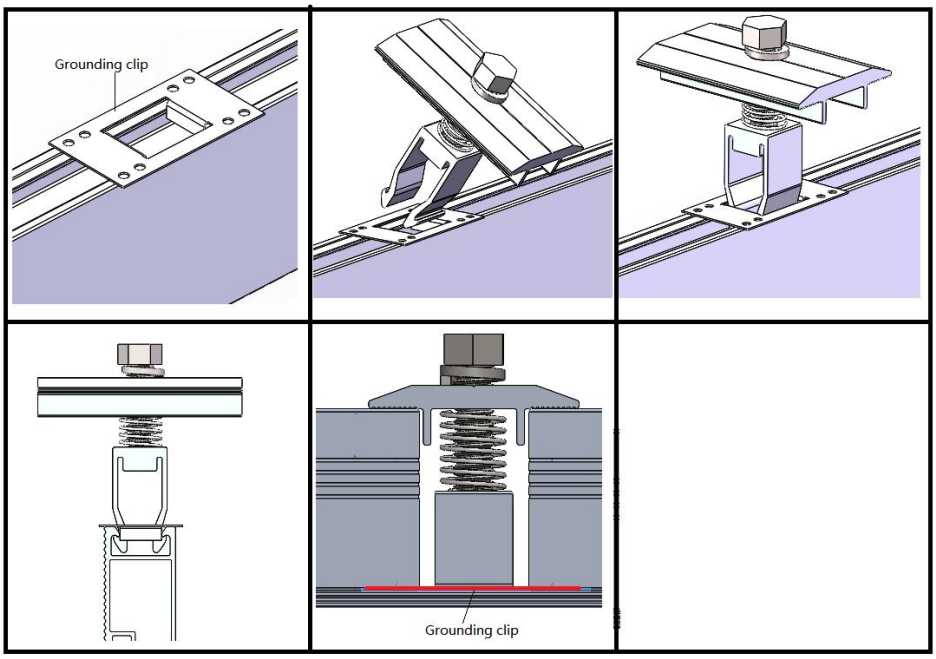
b) Rail connector installation

According to the installation number of solar panels, to determine whether extended rail. If need, Install rails connection as follows: For this purpose, leave a gap about 3-5mm between the rail joints and then loosely tighten the T Bolt as the follows.(install torque 11N.m)





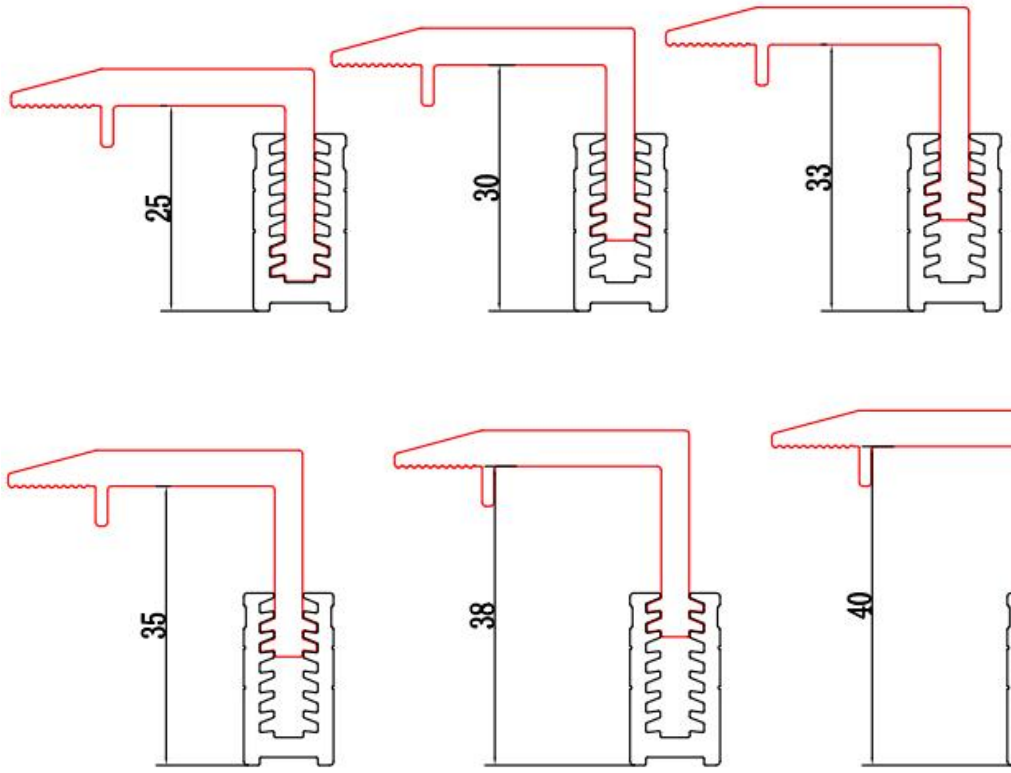
5.5 As follow picture show to install mid clamp（Recommended torque: 11N/M）



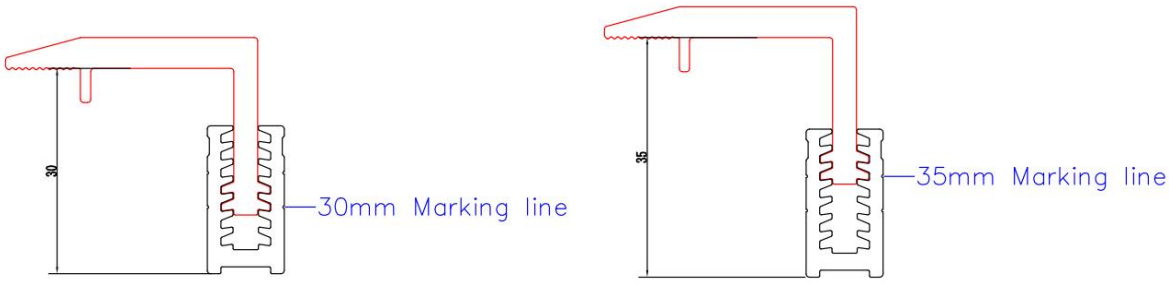
Sunforson Power(Xiamen)Co.,Ltd
Address: 817 Unit 993th Building An Ling,Hu Li District Xiamen China 361000
Email: info@sunforson.com / Tel: 0592-3655325 / Fax: 0592-5115756 / Website: www.sunforson.com

5.6 install End clamp（Recommended torque: 11N/M）

The application range of the End clamp is 25, 30, 33, 35, 38 and 40.

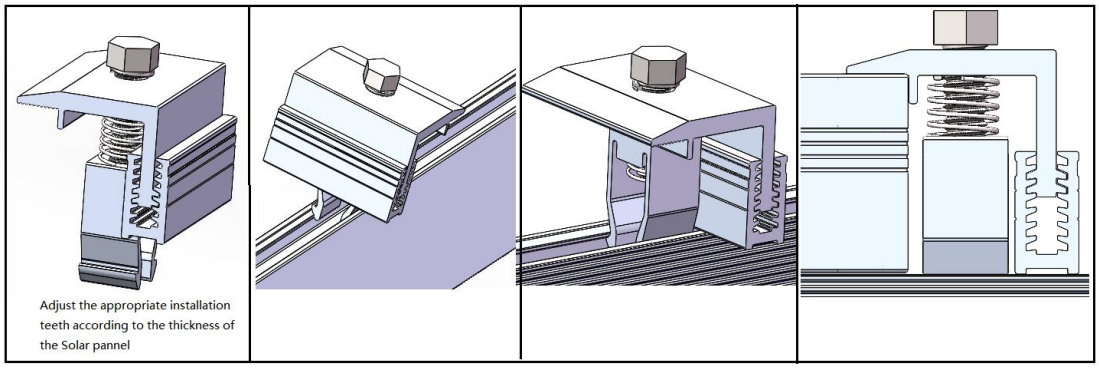


We have marked the lines at the most common thicknesses of 30 and 35 mm to facilitate the installation for customers.

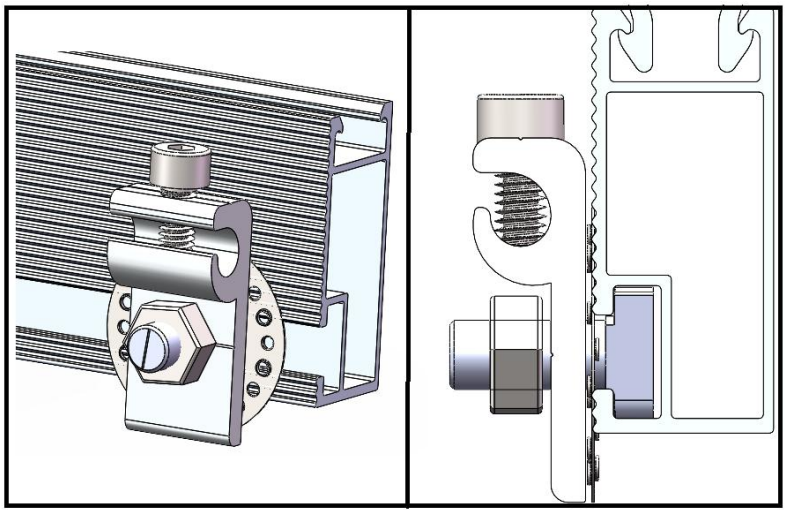


As follow picture to install End clamp（Recommended torque: 11N/M）

Sunforson Power(Xiamen)Co.,Ltd
Address: 817 Unit 993th Building An Ling,Hu Li District Xiamen China 361000
Email: info@sunforson.com / Tel: 0592-3655325 / Fax: 0592-5115756 / Website: www.sunforson.com



5.7 As follow picture show to install Earth lug ,each layout use 2 pcs
（Recommended torque: 11N/M）



5.8 As follow picture show to install Cable clip on solar pannel



Sunforson Power(Xiamen)Co.,Ltd
Address: 817 Unit 993th Building An Ling,Hu Li District Xiamen China 361000
Email: info@sunforson.com / Tel: 0592-3655325 / Fax: 0592-5115756 / Website: www.sunforson.com

6. Post-maintenance

It is recommended to conduct a routine visual inspection once a month; conduct a comprehensive strength check at least twice a year, mainly checking if the bolts are loose. As shown in the following diagram, lock the bolts and mark them with a marker pen after tightening. Later, observe whether the marking line has shifted for maintenance purposes.



Sunforson Power(Xiamen)Co.,Ltd
Address: 817 Unit 993th Building An Ling,Hu Li District Xiamen China 361000
Email: info@sunforson.com / Tel: 0592-3655325 / Fax: 0592-5115756 / Website: www.sunforson.com