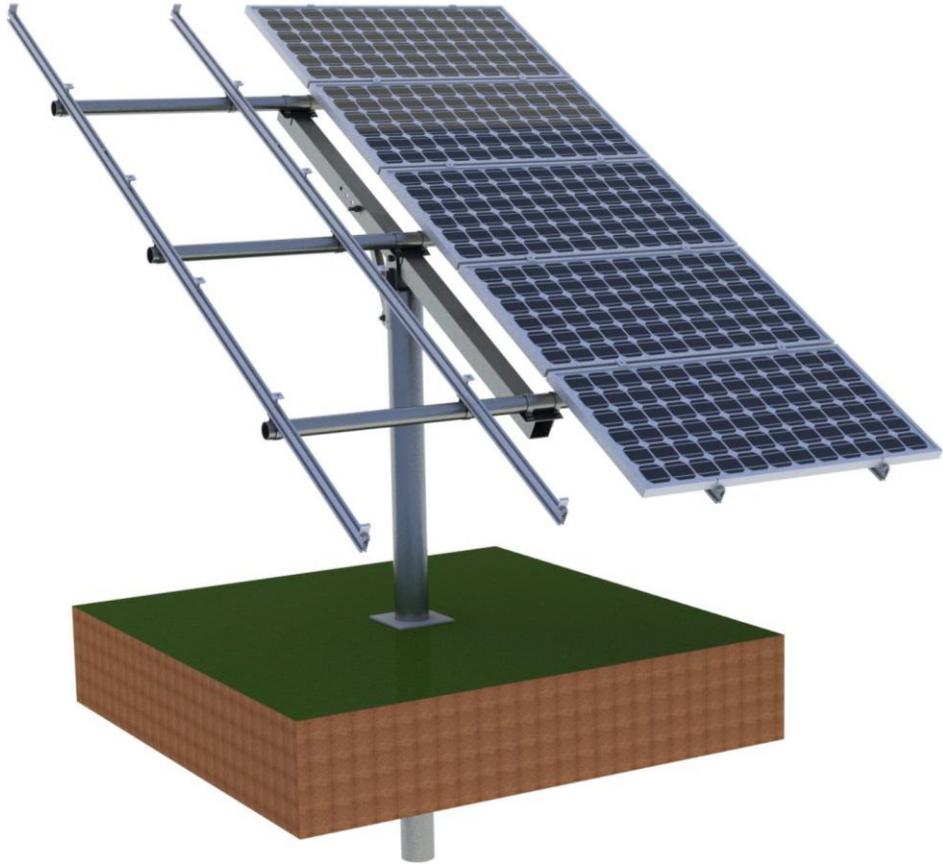


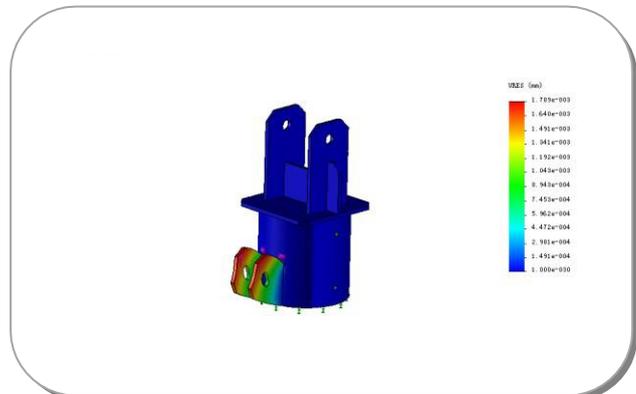
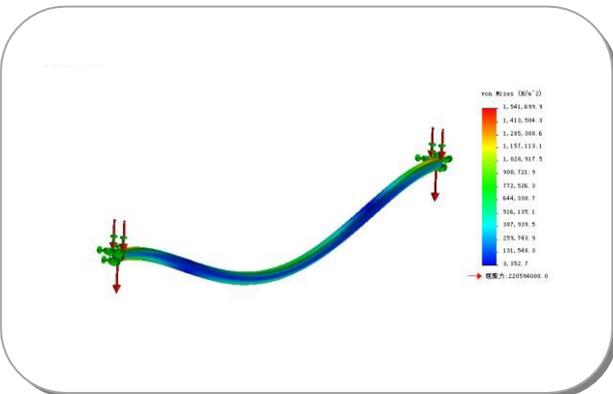
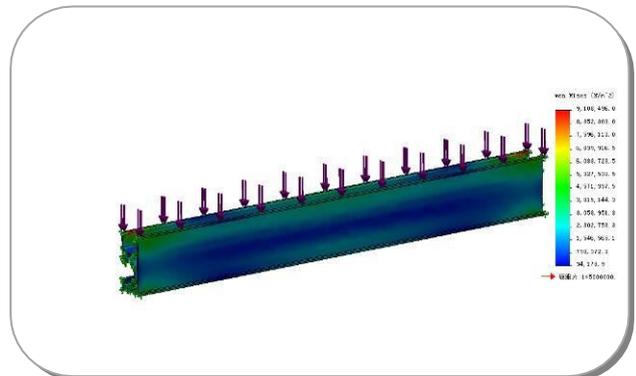
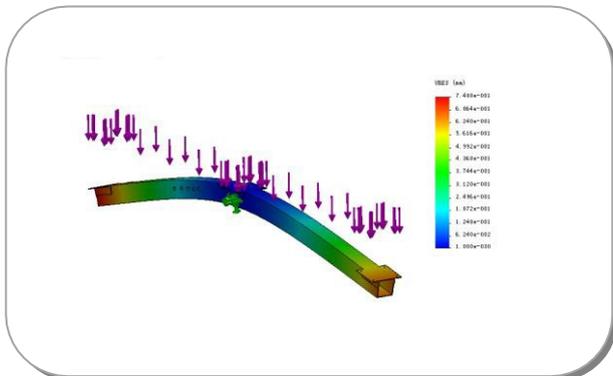
Pole Mount Installation Manual





Thank You for Choosing AIMS Power!

1. AIMS Power is a leading supplier of solar products, specializing in PV mounting systems. We ensure our products are manufactured to stringent standards, guaranteed that you receive the highest quality products at the most competitive price.



2. AIMS Power's innovative assembly method is fast, convenient and secure. Attach clamps and brackets to rails in one motion with ease.

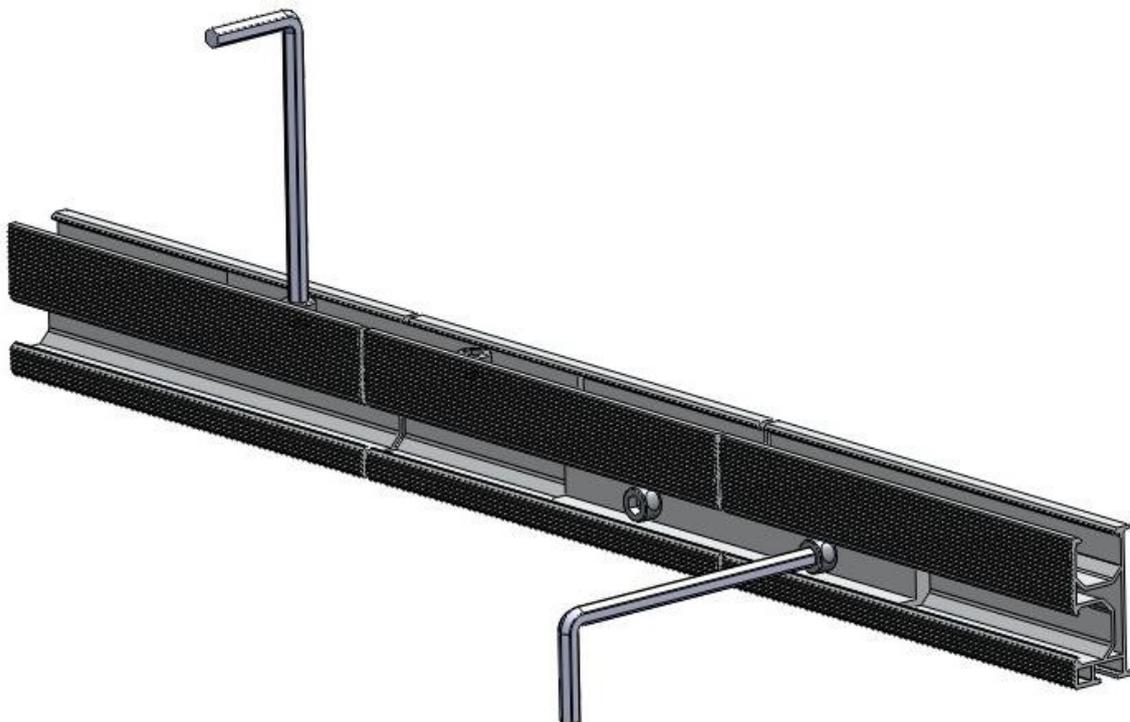


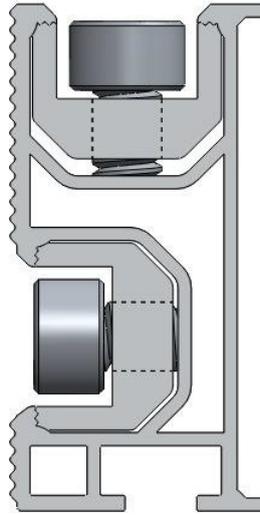
Aluminium Fixture Block Assembly Illustration

3. Using the special splice kits to connect the aluminum HD rails allow for easy installation. Rails can be extended indefinitely improving efficiency and reducing the overall cost of installation. Splice kits may be fixed to the top or side of the rails.

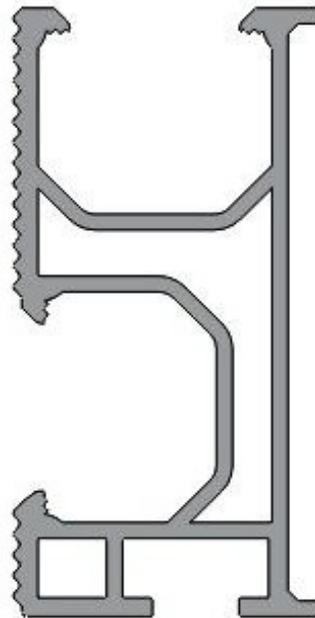


Splice Kit Assembly Illustration

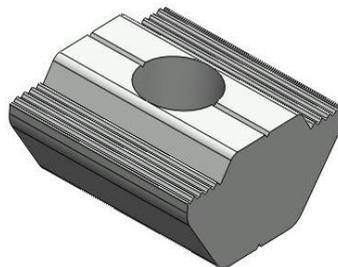




4. The corrugated surfaces on both rails and roof hooks ensure the secure connection of these parts. The loop design maximizes and distributes rail strength evenly throughout the length of the rails. The rails have three openings, which make them compatible with a large variety of roof hooks.



Aluminium Rails



Aluminium Fixing Nut

5. AIMS Power has selected to use 6005-T5 Aluminum for all of our aluminum products and SUS304 stainless steel for all of our tile hooks, bolts, nuts etc.

6. Our designs are compliant with the following standards:

GB50009-2001

GB50011-2001

GB/T 13912-92

GBT 14846-2008

GB-T 6892-2006

GB50429-2007

GB50017-2003

AS NZS 1170

ASCE/SEI 7-05

ASCE/SEI 7-010

2007 California Administrative Code

IBC 2006

Euro Code 8

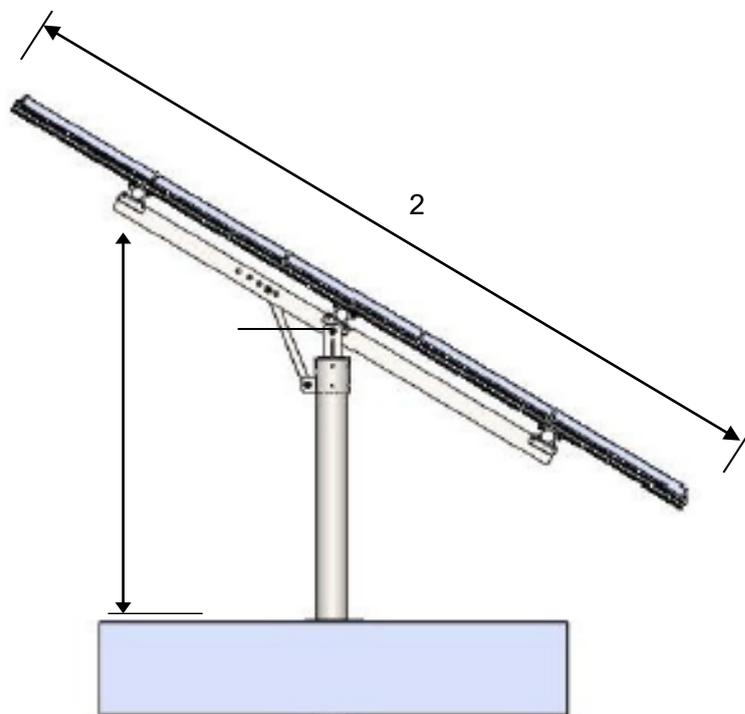
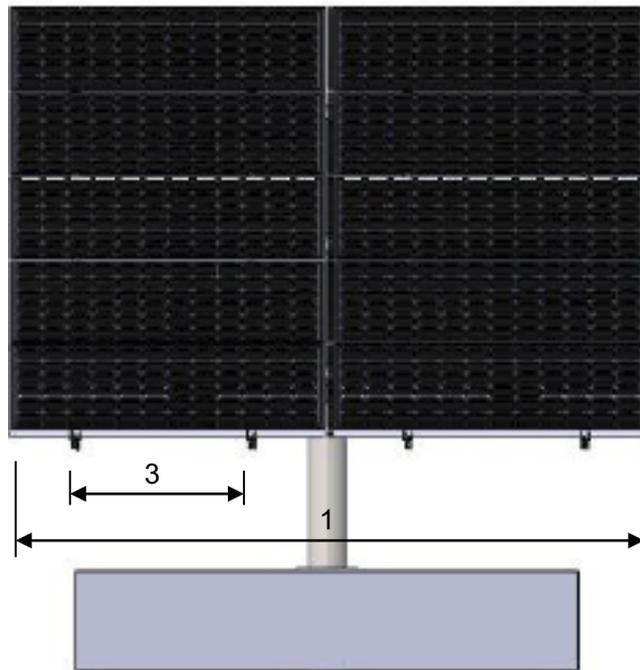
DIN1055

EN 1991-1-3 - Snow Load

EN 1991-1-4 - Wind Actions

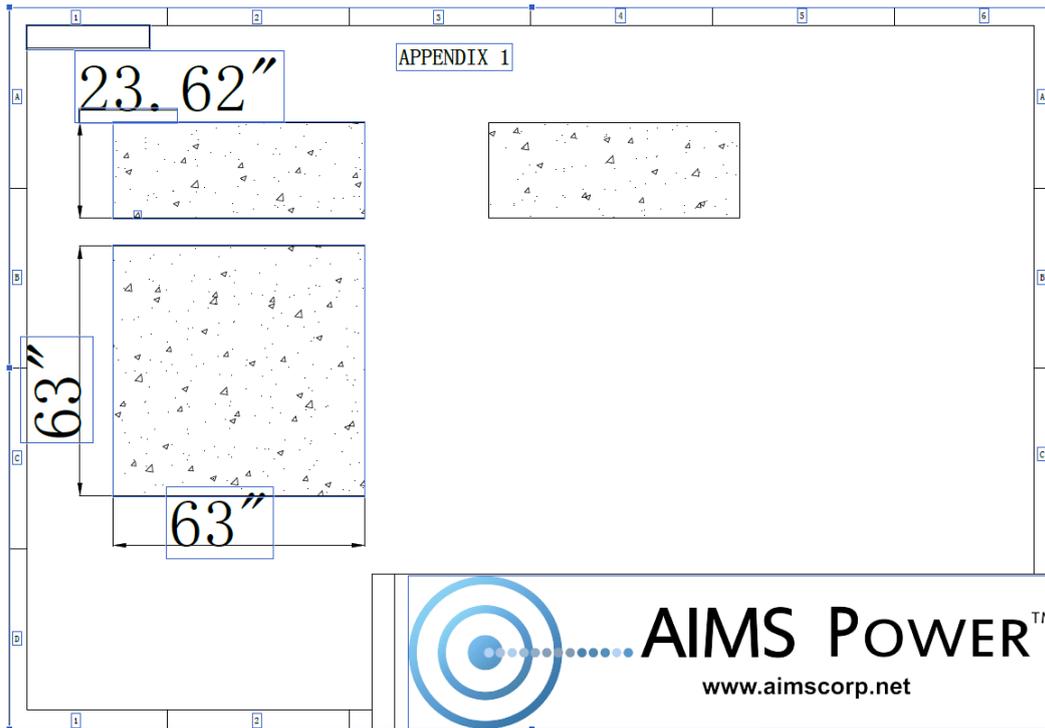
7. Our strong production processing capabilities make it possible for us to offer competitive pricing and fast delivery. We can supply most of our products within short time frames. We also have the ability to customize products according to clients' requirements, as well as being able to provide OEM services.

Planning the array layout



Planning the array layout

1. Array width = number of modules in the horizontal direction x module length + 11/16 in (18 mm).
2. Array height = number of modules in the vertical direction x (module width + 11/16 in (18 mm)) + 1-1/4 in (32 mm)
3. Horizontal spacing of the rails attachment = approx. ½ of module length
4. Concrete footing under pole:
 - a. 6 Panel-----Min 63"D*23.62" SQ



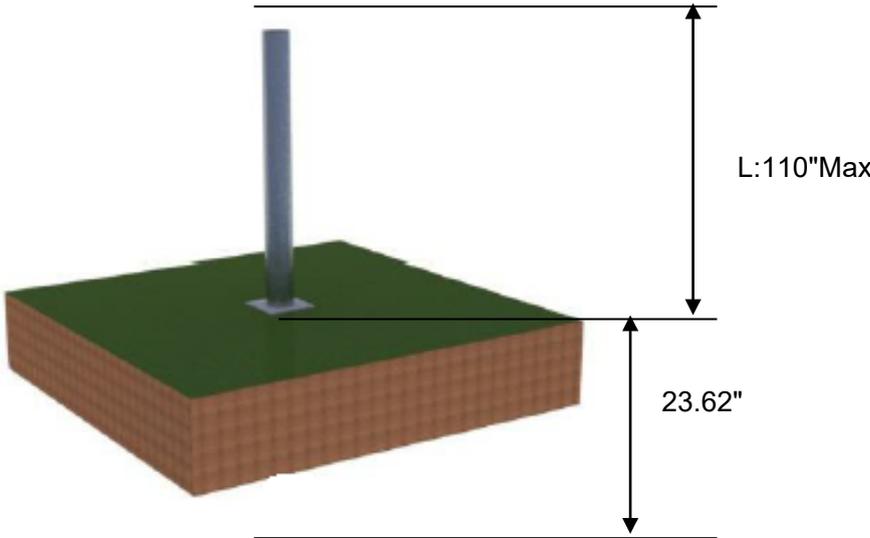
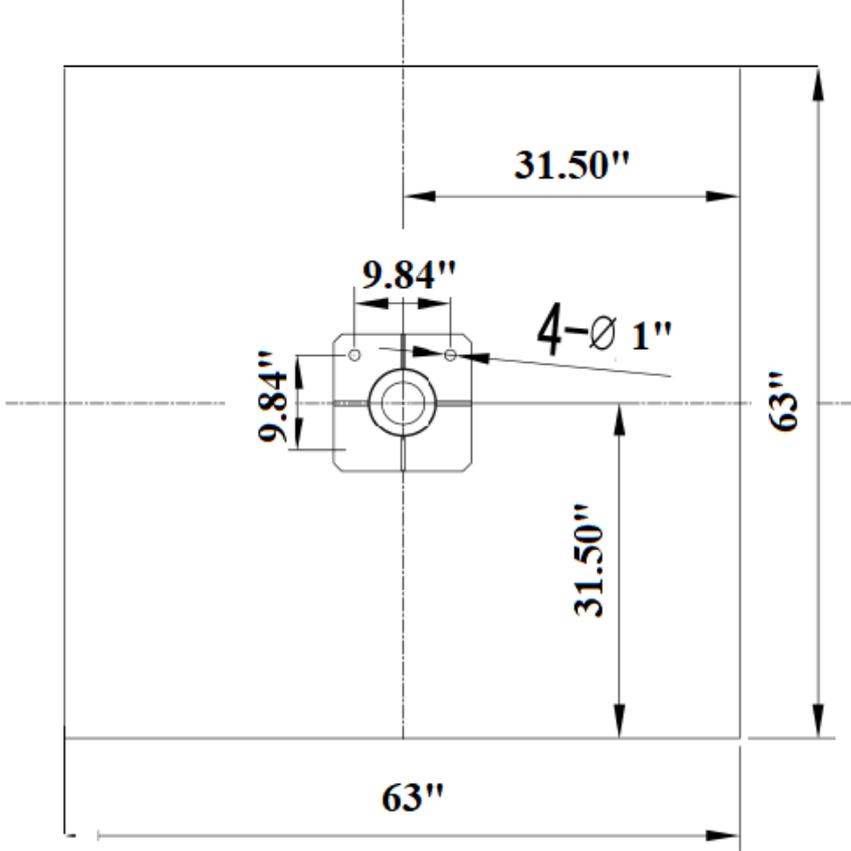
Components List

S.NO.	Product Name	Picture	Material	Remark
1	Aluminium Rail		AL 6005-T5	4 lateral HD rails 126 inches
2	End Clamp		AL 6005-T5	Includes: a. 8 piece of A2-70 M8 Hexagon screw b. 8 piece of aluminum fixing nut
3	Mid Clamp		AL 6005-T5	Includes: a. 8 piece of A2-70 M8 Hexagon screw b. 8 piece of aluminum fixing nut
4	Tube Cap		Q235	Includes: a. Six pieces of A2-70 M8 Hexagon screws
5	Angle adjustment tube		Q235	
6	Steel tube hoop Bracket		Q235	Includes: a. Two pieces of M8*30 stainless steel hex bolts b. Two pieces of M8 stainless steel flat washers c. Two pieces of M8 stainless steel spring washers d. Two pieces of M8 stainless steel nuts

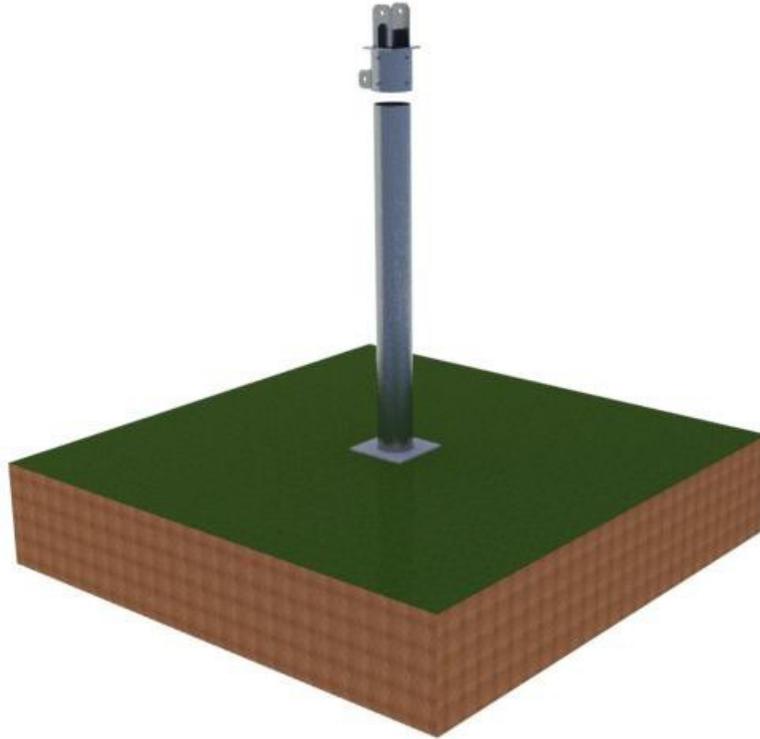
7	Girder		Q235	94.5 inches
8	Beam		Q235	3 horizontal cross beams 126 inches
9	Pole		Q235	110 inches with welded base plate see appendix 1

Installation Steps

- 1. Place the supporting Pole



-
2. Place the Tube Cap on the Pole and position as desired. Tighten the six M8 bolts to maintain the correct position.



3. Place the Girder in the Tube Cap flanges and fasten with the supporting bolt and nut.

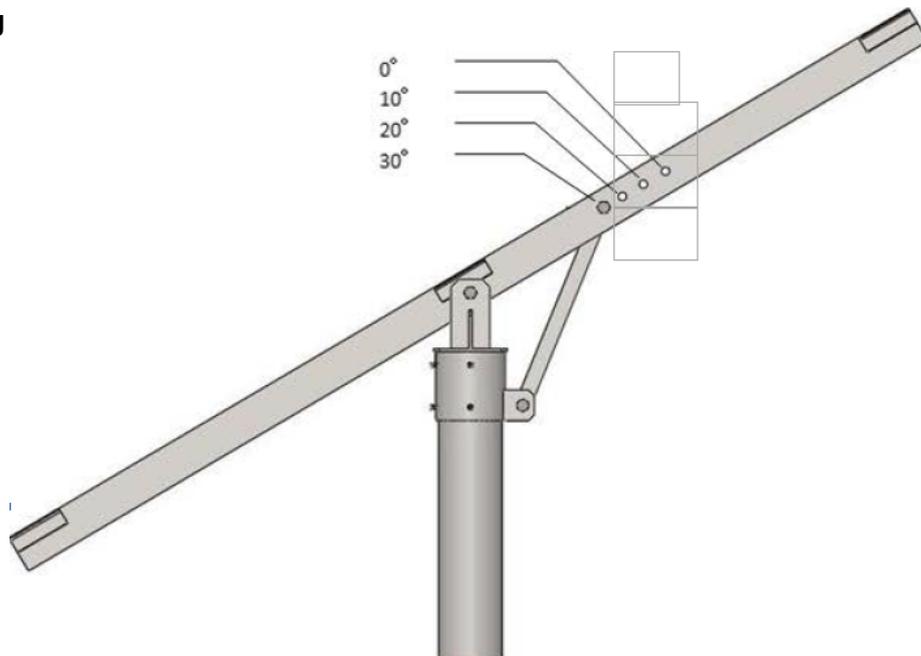


-
4. Place the angle adjustment tube between the pole and the tube cap. Fasten with the supporting bolts and nuts.





Adjust the angle of elevation by attaching the Angle Adjusting Tube to the hole position corresponding



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5. Place the beam across the flanges on the Girder and fasten with the hoop bracket. Care should be taken to ensure that the Beam is centered on the Girder.





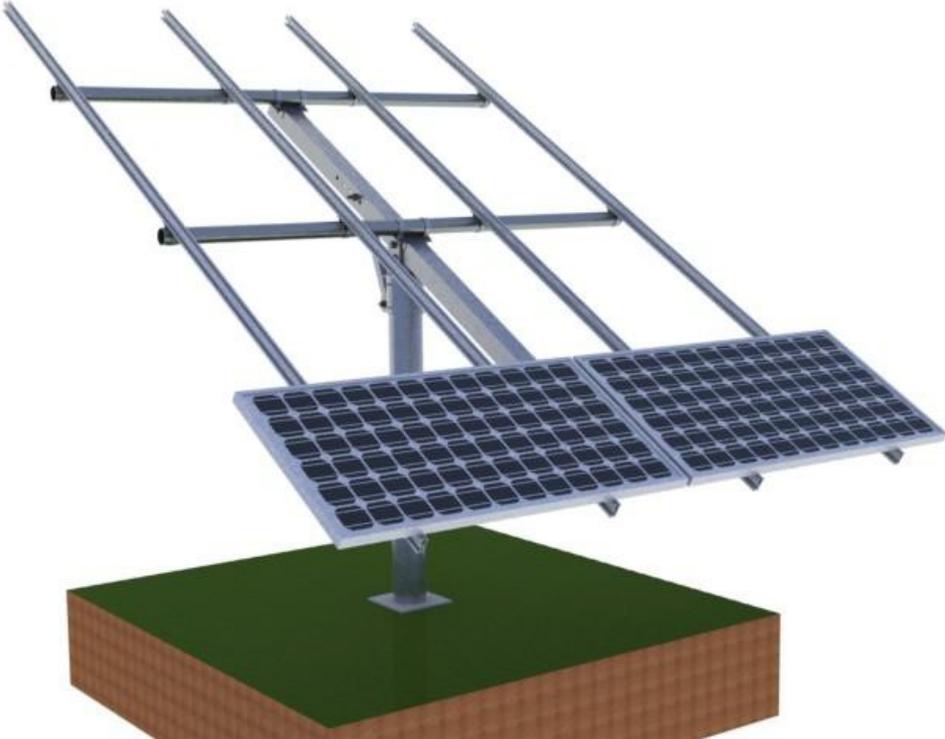
6. Slide the Hoop Bracket Bolts into the slot on the underside of the rail. Guide the ends of the Beam through the Hoop Brackets and position. Tighten the Hoop Bracket bolts to secure.



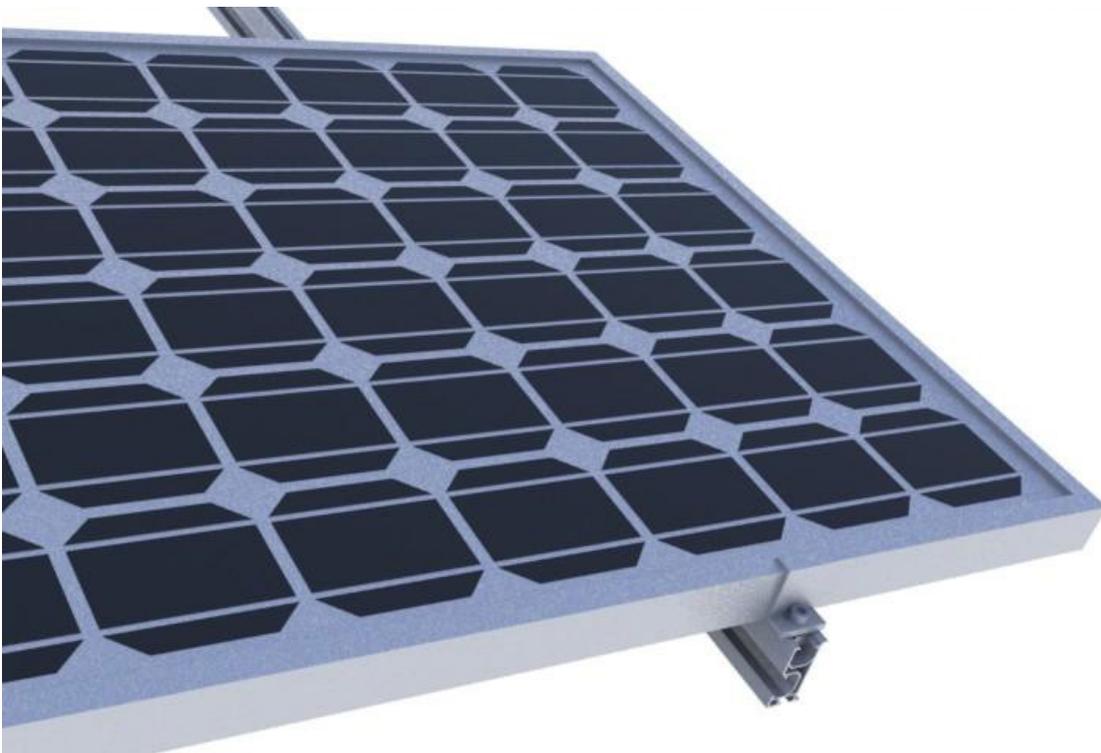
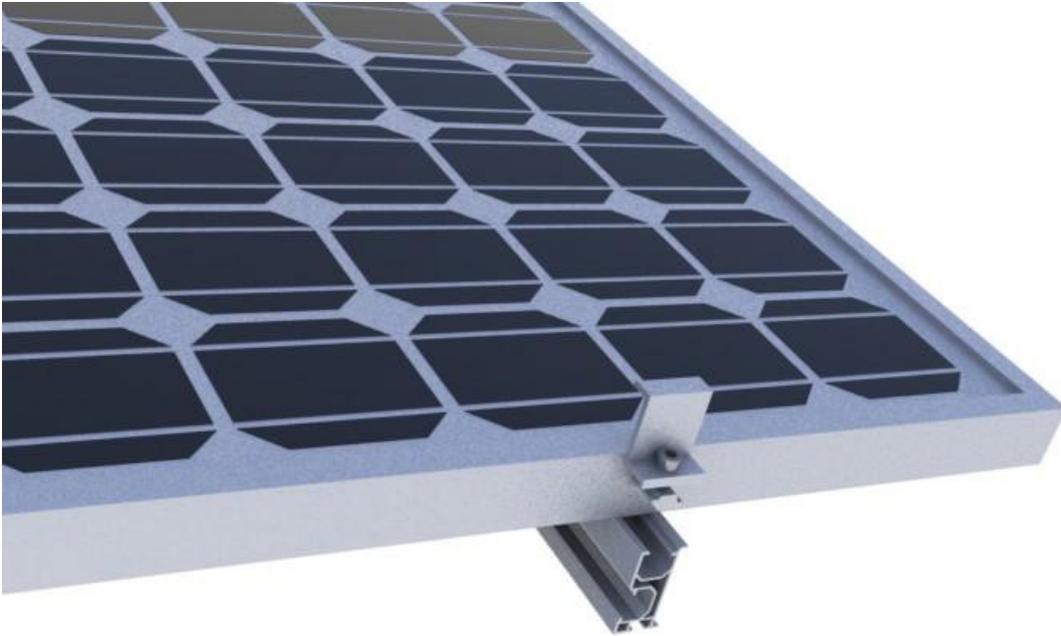


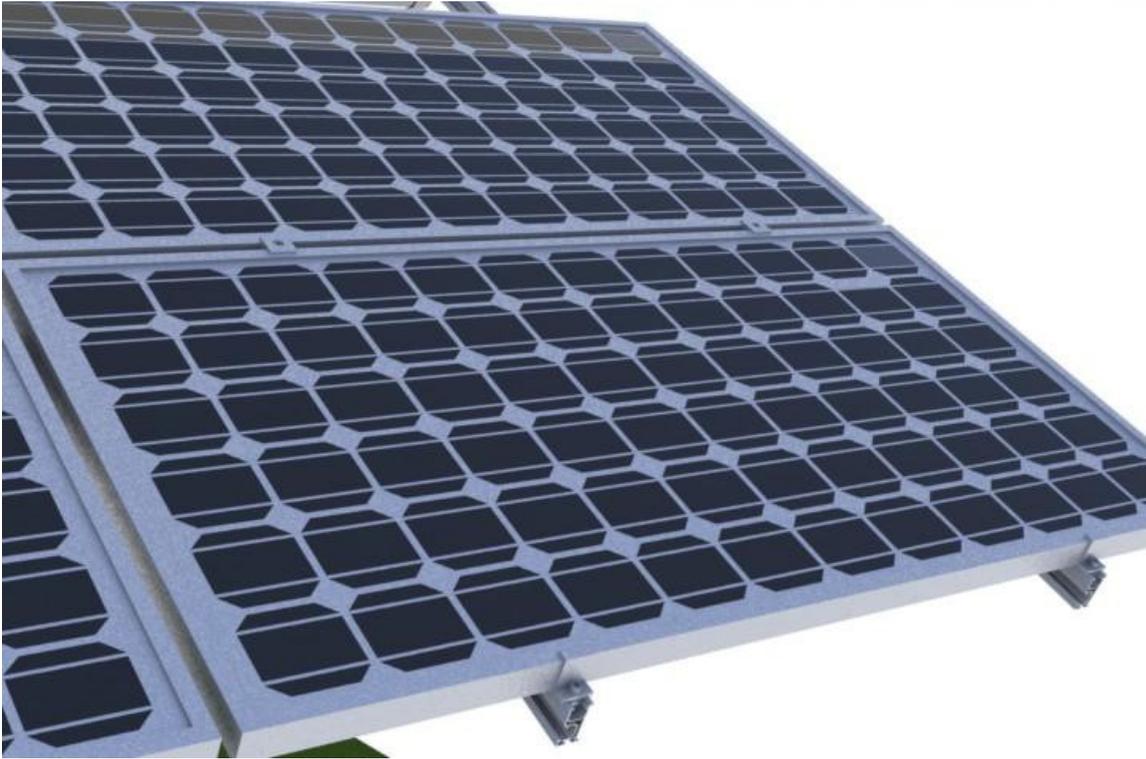


7. Place solar panels on the rails.



-
8. Use end clamps with M8*25 Hexagon screw and fixing nuts to attach solar panels to the rails. Adjacent solar panels are attached by using mid clamps with M8 Hexagon screws. (The hexagon screw length is determined by the solar panel's thickness).

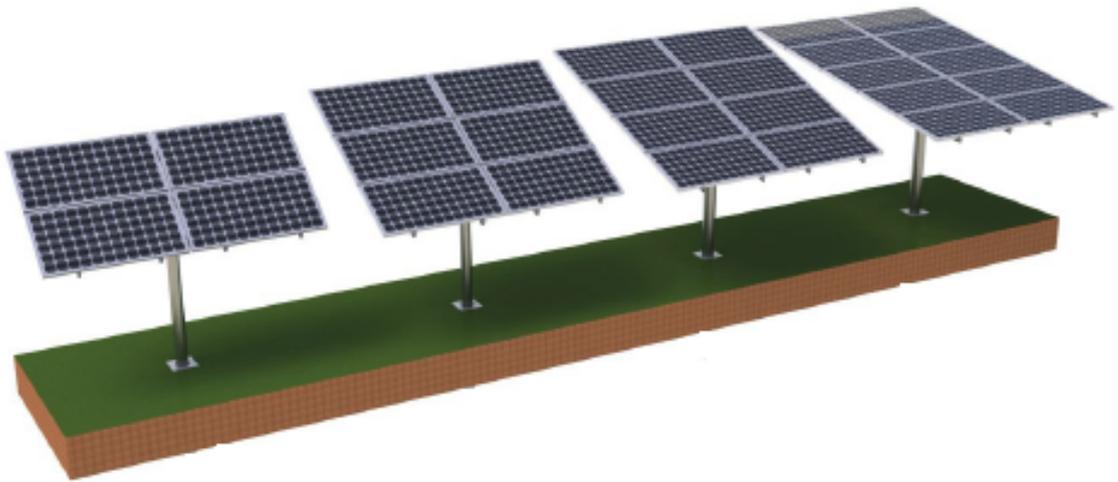




9. Repeat ste



We offer 4, 6, 8, or 10 panel Pole Mounts for your choice.



Headquarters

9550 Gateway Dr.

Reno, NV 89521

Engineering & Technical Support Facility

9550 Gateway Dr.

Reno, NV 89521

Tel: (775) 359-6703

Fax: (775) 359-6753

e-mail:

sales@aimscorp.net

e-mail:

techsupport@aimscorp.net