



Solar Mounting

厦门越州新能源有限公司

Xiamen Yuezhou New Energy co., LTD

Service-oriented, Integrity Protection

GM-01-Ground bolt mounting

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1. Product introduction

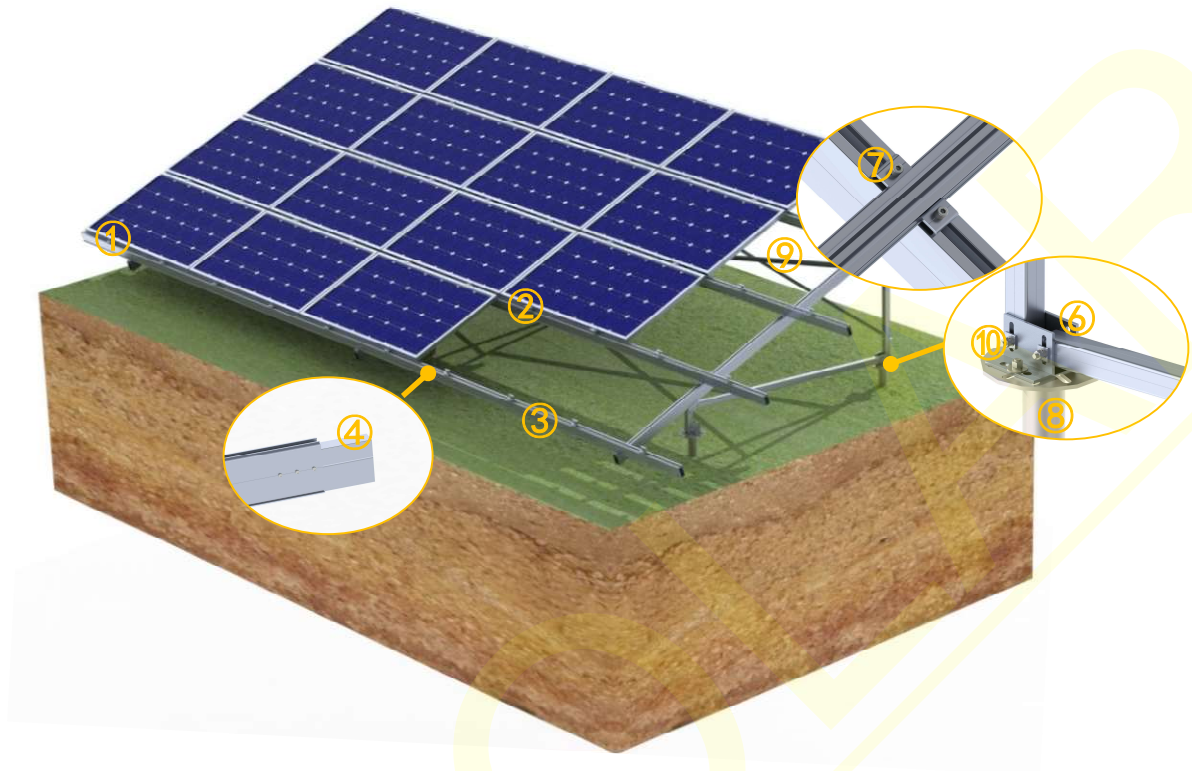
GM-01-beam-Ground bolt system is a new ground-mounted PV stent system, simple pre-installation, improve the ease of installation. High-quality design components, fewer accessories, high integration degree of pre-installation features to save the user's installation time and costs, is a convenient and efficient ground project.

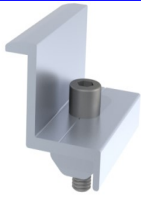
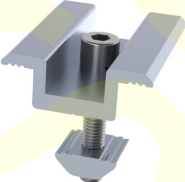
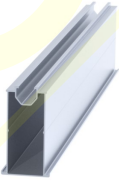
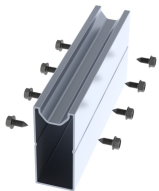
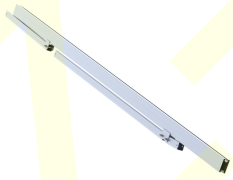
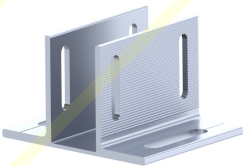
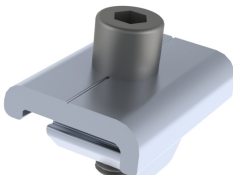

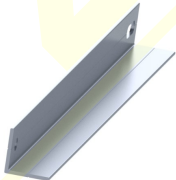

Before installation, please read the manual carefully, to ensure accurate installation of the platform.

2. Installation tools and equipment

			
<u>mark pen</u>	<u>String</u>	<u>Tape</u>	<u>6mm Inner hexagon spanner</u>
			
<u>Torque wrench</u>	<u>Electric tool</u>	<u>Adjustable wrench</u>	<u>Socket wrench</u>

3. Parts

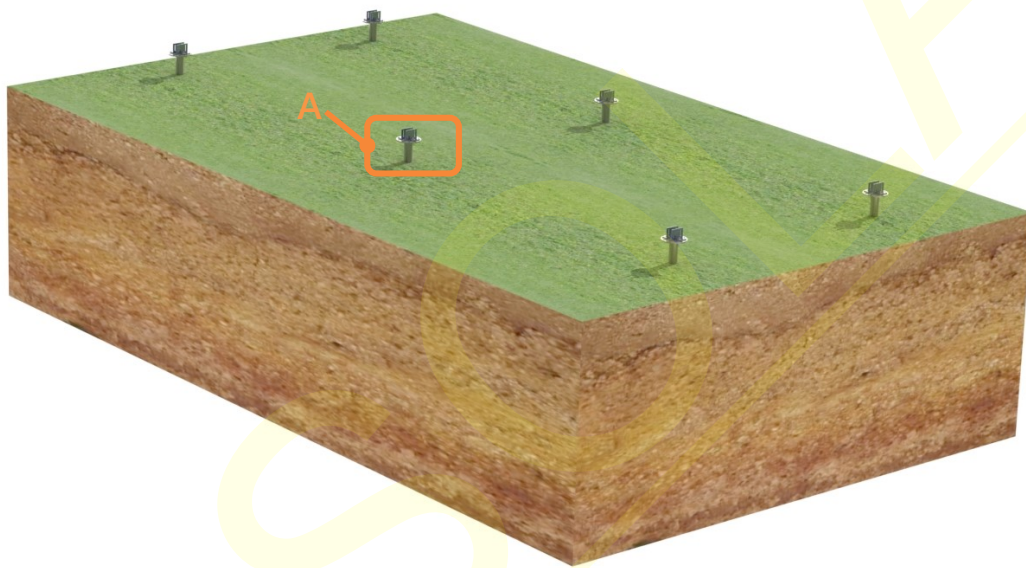


			
① End clamp	② Mid-clamp	③ Rail	④ Rail splice kit
			
⑤ beam	⑥ Base	⑦ Rail clamp	⑧ Ground screw
			
⑨ Aluminum angle	⑩ Corrugated gasket assembly		

4. Installation instructions

1. Foundation installation

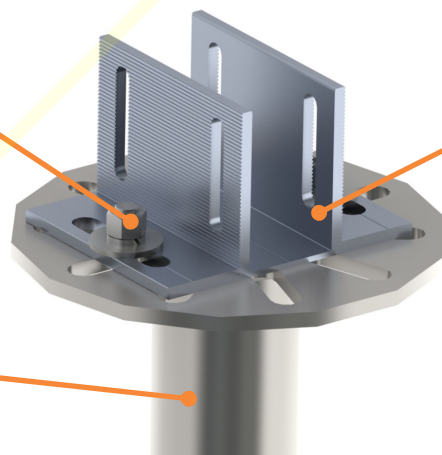
In the construction site pre-planning and marking the location of the construction of bolts, then use the pile driver to drive the bolts into the ground according to the drawing position , At the same time, it is necessary to ensure that the same row of ground bolts installed on the same line and the same level, Finally, the base is pre-fixed to the ground bolt position (The bolts can be locked after the load-bearing beam assembly is installed, in order to reduce the influence of the construction error of the bolt on the installation of the platform) 。



M12×40bolt assembly

Base

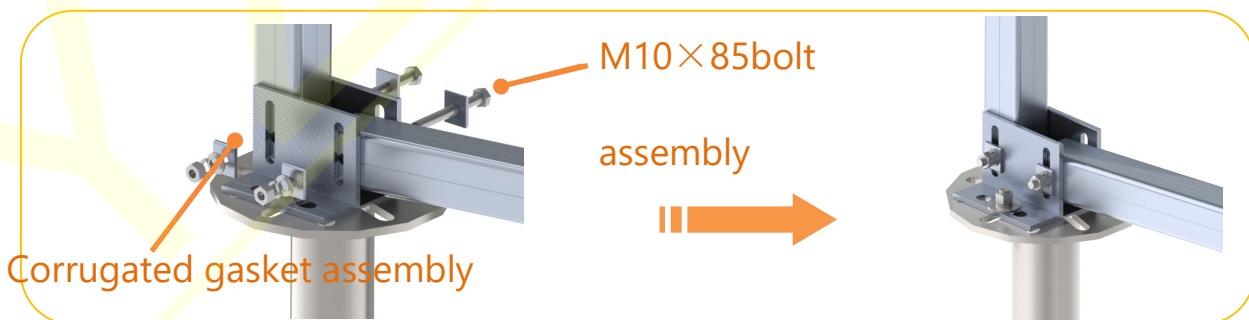
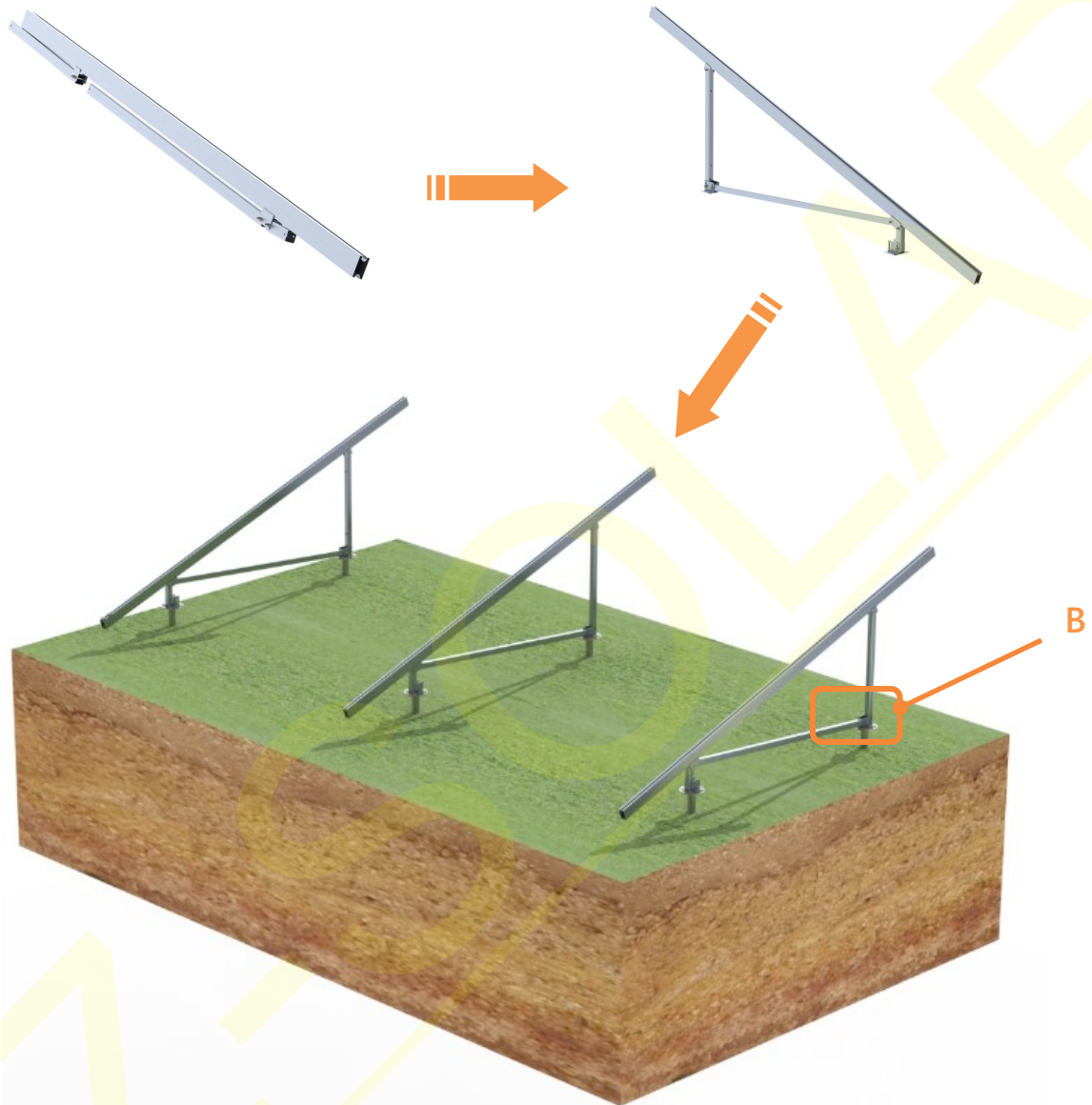
Ground screw



Detail A

2. Load-bearing beam assembly installation

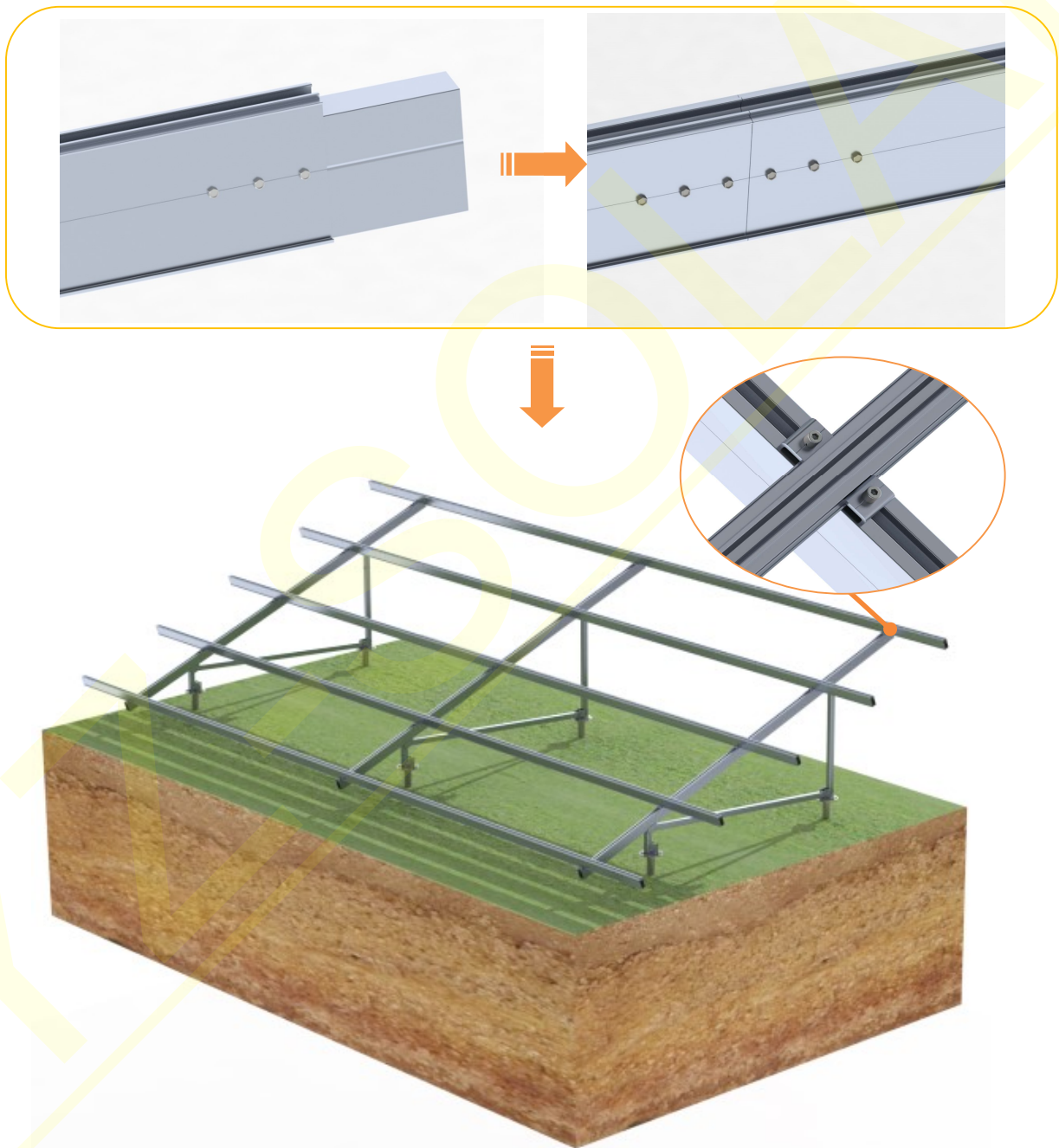
Expand the load-bearing beam assembly and mount on the base, At the same time, use M10 × 85 bolt assembly to fix it, then lock the base on the base of ground bolts.



Detail B

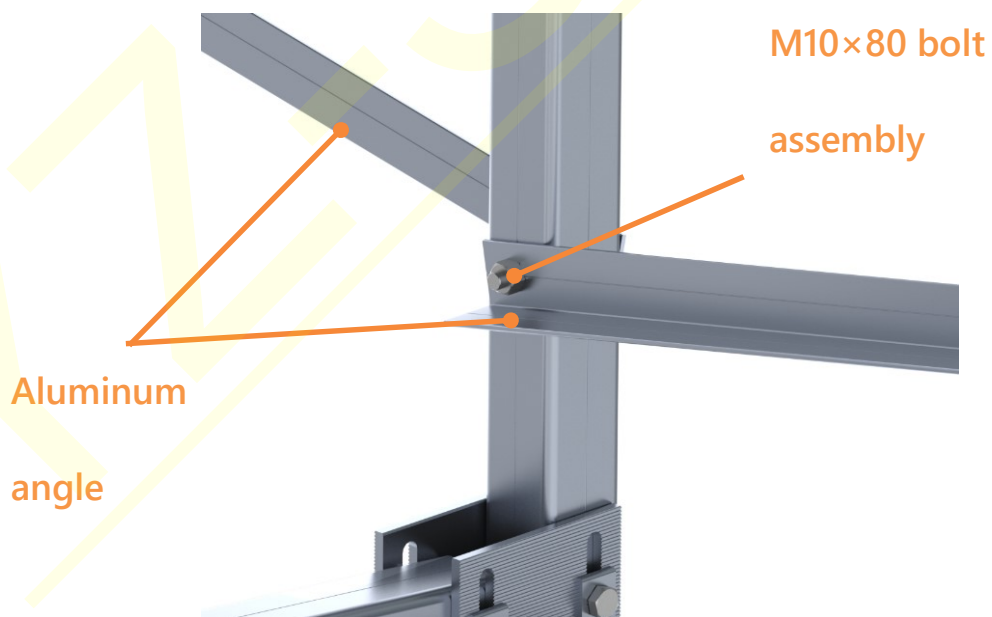
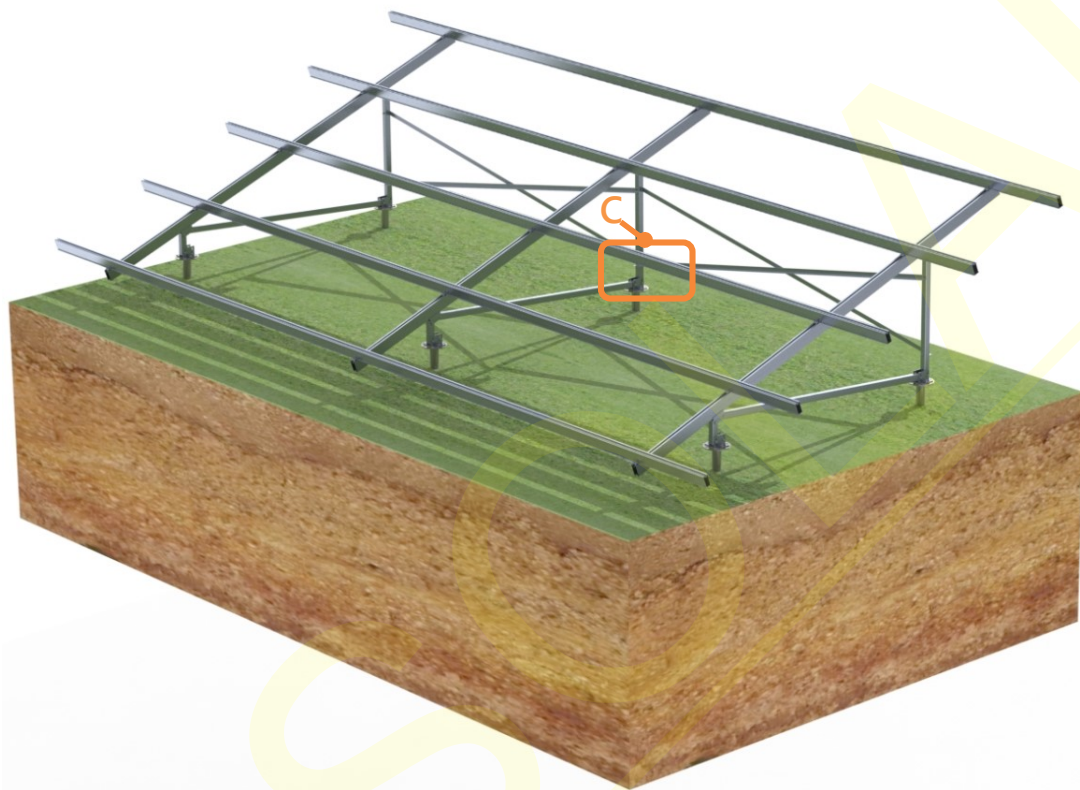
3. Guide rail installation

Insert half of the rail splice kit into the first rail, each side with three self-tapping nail tight; then insert the second rail into the rail splice kit, after leveling, on both sides with the 3 self-tapping nails tight, to achieve the connection, Finally, use the guide rail clamps to fix the guide rail on the bearing beam. (If the rail is not long enough, you need to connect, otherwise skip this step)



4. Reinforcement installation

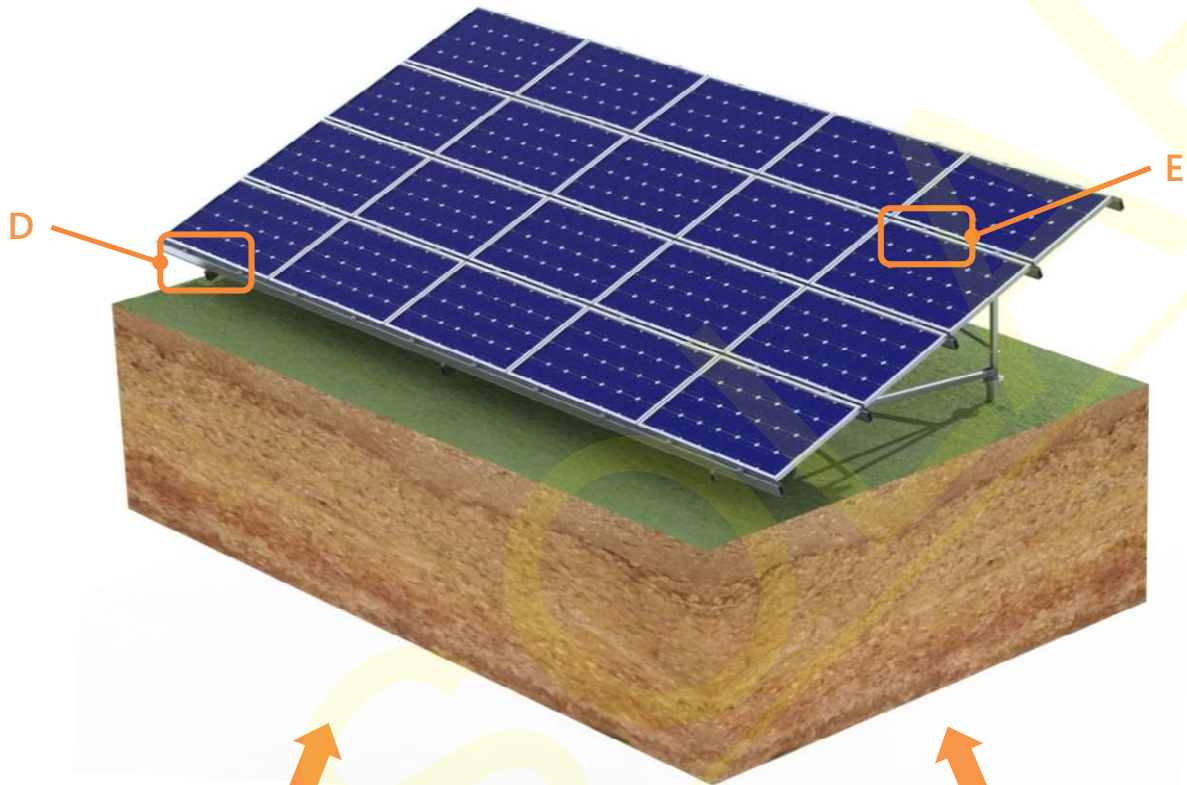
Mount the two ends of the reinforcements on the rear pillar fixedly, and use M10 × 80 bolts, nuts, flat washer lock.



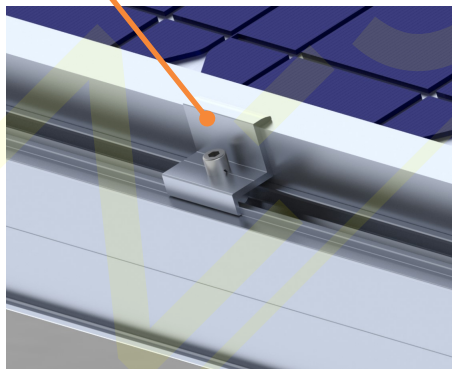
Detail C

5. Panel installation

It is recommended to install from the underside of the end, then install the solar panels in sequence, and fixing the frame of the solar panel with the medium pressing block assembly.

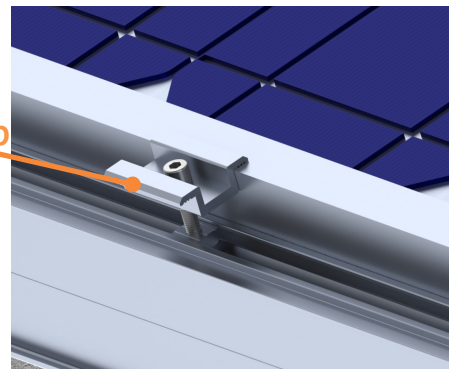


End clamp



Detail D

Mid-clamp



Detail E

5. Installation Precautions

5.1. Engineering Installation Dimension Precautions

Where the specific dimensions involved in the installation of the project are subject to construction drawings. The installation instructions are for reference only to the product installation method.

5.2. Precautions for installation of stainless steel fasteners

Because stainless steel has good ductility, essentially different from carbon steel; Improper use can lead to bolts and nuts can not be unscrewed. That is "locked" commonly known as "bite". There are several ways to prevent lock:

5.2.1. Reduce the friction coefficient:

- (1) Ensure thread surface cleaning (Such as no sand, debris) ;
- (2) Recommend that the surface be coated with wax or a lubricant (Such as butter, 40# oil) ;

5.2.2. Correct operation:

- (1) Must be perpendicular to the axis of the screw thread, do not tilt;
- (2) In the tightening process, the force must be uniform, tightening torque can not exceed the safe torque specified value;
- (3) Use a torque wrench or socket wrench whenever possible, avoid using an adjustable wrench or electric wrench; Use electric wrench also try to lower the speed.
- (4) Avoid high temperature conditions, and don't rotate quickly when you use it, in order to avoid rapid temperature rise leading to lock; (Such as the use of electric wrench, etc.)