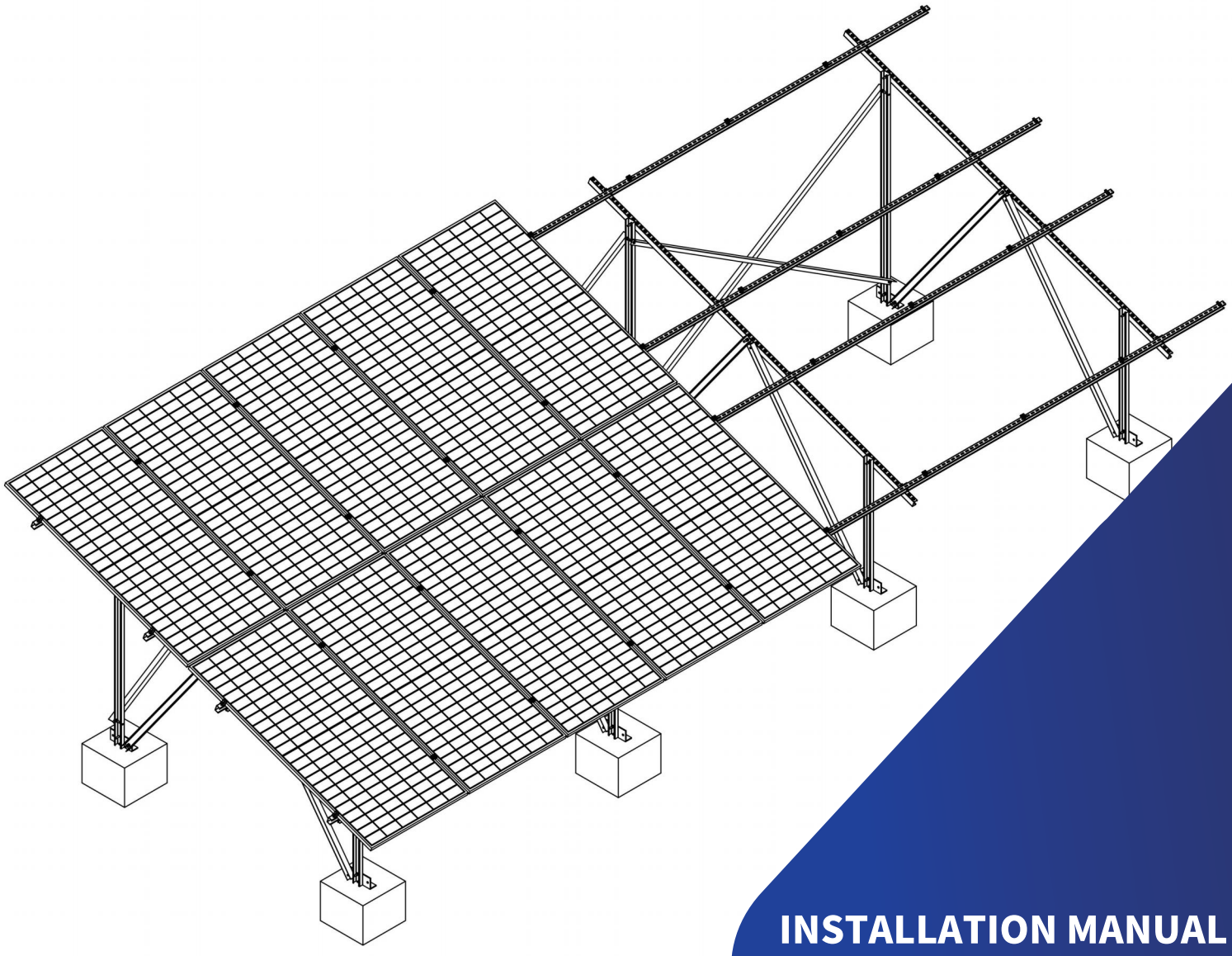
WOCHN
EASY MOUNTING SYSTEMS



INSTALLATION MANUAL

SC GROUND SOLAR MOUNTING SYSTEM

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EASY MOUNTING SYSTEMS

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Quality tested-several certifications

WOCHN Systems stands for secure connections, highest quality and precision. Our customers and business partners have known that for a long time. Independent institutes have tested, confirmed and certified our capabilities and components

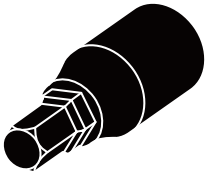
Please find our quality and product certificates under:

https://www.wochnmounting.com/

Disclaimer

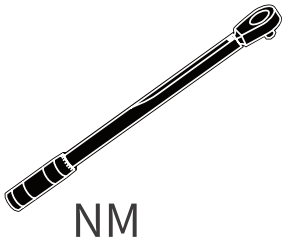
This manual describes the proper installation procedures and provides minimum standard required for product reliability and warranty. This installation instruction is based on the state of the art and many years of experience in how our systems can be installed on site. Due to the many variables and requirements associated with a specific installation. Because of this, these instructions only serve as a guideline for the installation of the product described in this manual.

- The equipment may only be installed and operated by qualified and adequately trained installers.
- Prior to installation, ensure that the product complies with on-site static loading requirements
- National and local building regulations and environmental requirements must be adhered to.
- All work must comply with national, state and local installation procedures, product and safety standards.
- Compliance with health and safety regulations, accident prevention guidelines and applicable standards is required.
- Protective equipment such as safety helmet, boots and gloves must be worn.
- Validate foundation parameters prior to installation, We recommend consulting with a local engineer familiar with local regulations and build site requirements, including soil conditions, terrain and load criteria. All parameters may impact foundation requirements.
- At least two people must be present for the duration of the installation work in order to provide rapid assistance in the event of an emergency.
- At least one copy of the assembly instructions should be available on site throughout the duration of the installation.
- Failure to adhere to our general safety and assembly instructions and not using all system components,
- WOCHN is not liable for any resulting defects or damages. We do not accept liability for any damage resulting in the use of competitor’ s parts. Warranty is excluded in such cases.
- Dismantling of the system is performed in reverse order to the assembly
- The manual provides guidelines for installation, but it does not guarantee the quality of installation work. Please complete the installation in a responsible and professional manner.



8、10、12

13mm



NM

Torque Values

Base fixed concrete foundation 100N・m.

Base fixed the front and rear columns and bracing，100N・m

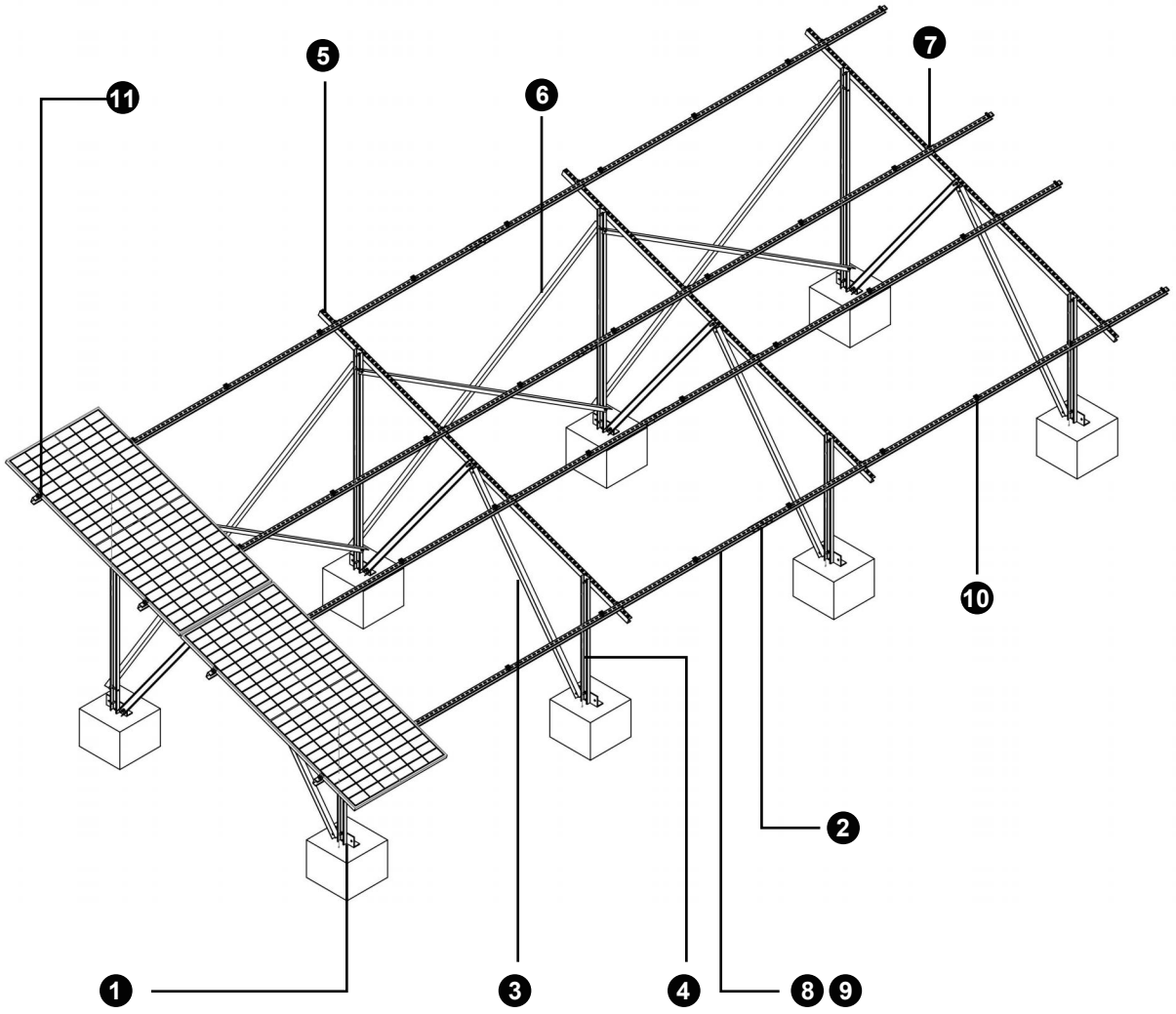
Beams and columns, bracing adapter, 100 N・m，100N・m

Rail fix adapter fixed the beam，100N・m

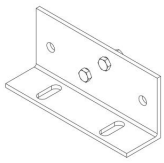
Adapter fixed the purlin and rail fix adapter，100N・m

Mid clamp, end clamp and grounding lug fixed with rail: 10N・ m

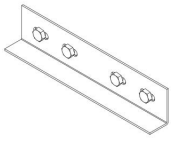
1. PARTS OVERVIEW



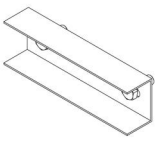
2. Components



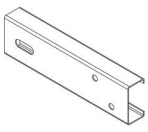
1. Base



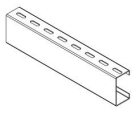
2.Rail splice kit



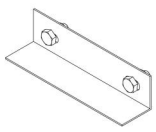
3.Brace



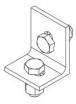
4. Column



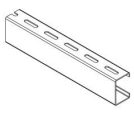
5. Row holes beam



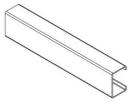
6. Back strength kit



7. Rail fix adapter

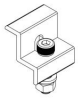


8. Row holes purlin (choice)



9. Normal holes purlin(choice)

10. Mid clamp

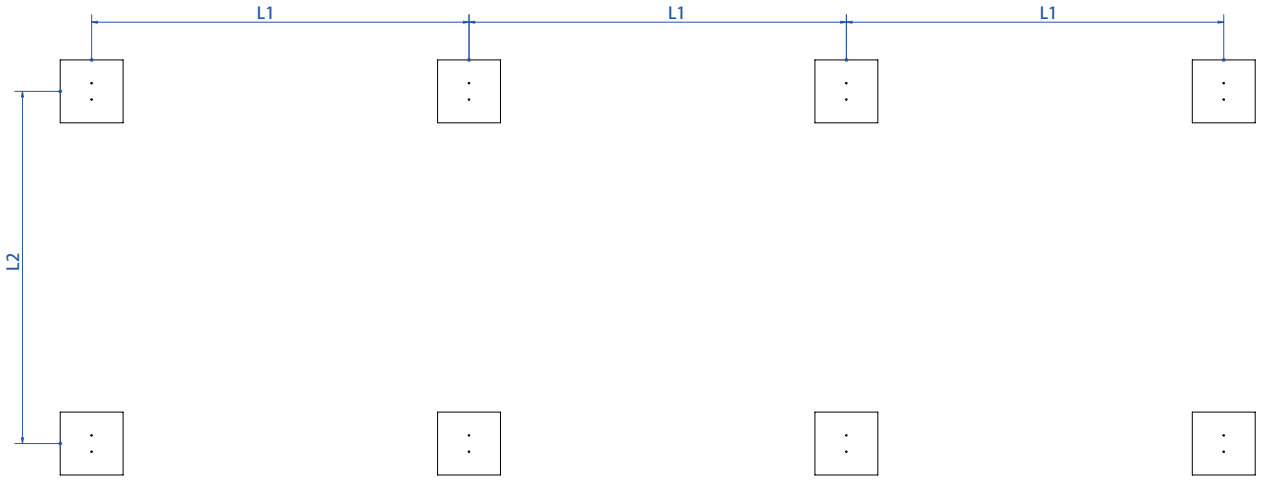


11. End clamp

12.Normal holes clamp (choice)

1. Confirm the Foundation Position According to the Drawings

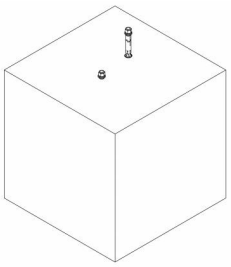
L1:Longitudinal span
L2:Transverse span
The concrete size is based on several factors including the array surface area,maximum design wind speed Determine position according to drawings.



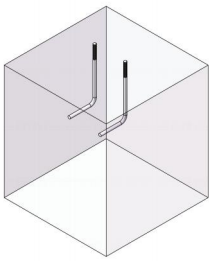
2. Fixed the Base on the Foundation

Three choice:

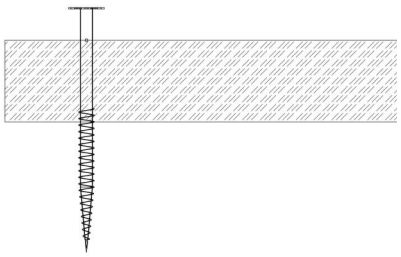
1.Drill M12 expansion screws into holes in the concrete foundation



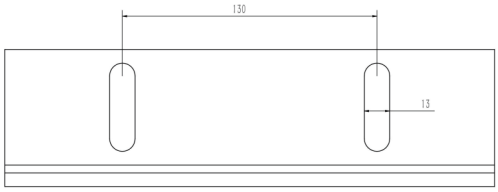
2.While making the concrete base, bury the embedded bolt together.



3.Ground screws driven directly into the ground

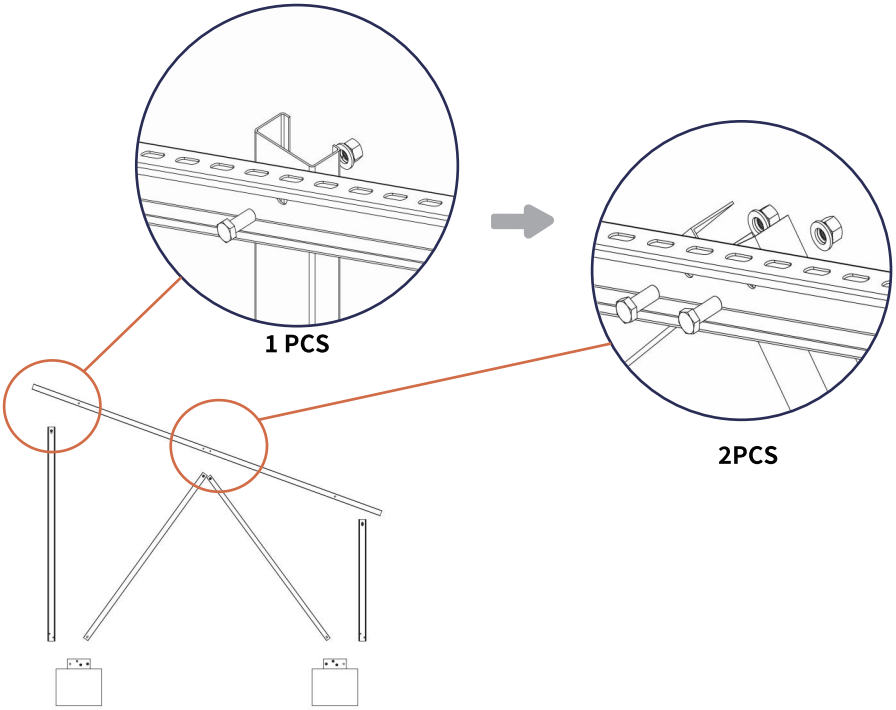


Notice:
Confirm the distance between bases according to the drawing Screw spacing reference:



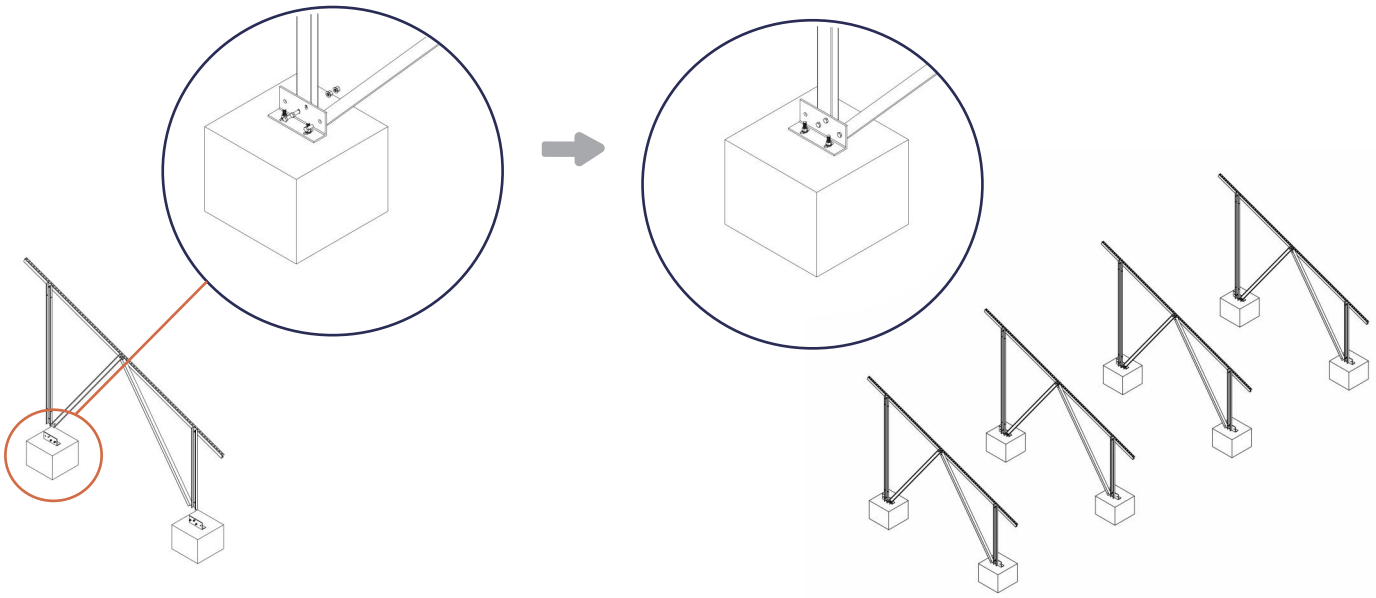
3. Fixed columns and bracing to the base

Select the columns and bracing according to the drawings from WOCHN engineer team, use hexagon screw M12*30 to connect them with base.



4. Fixed the beam with bracing and columns

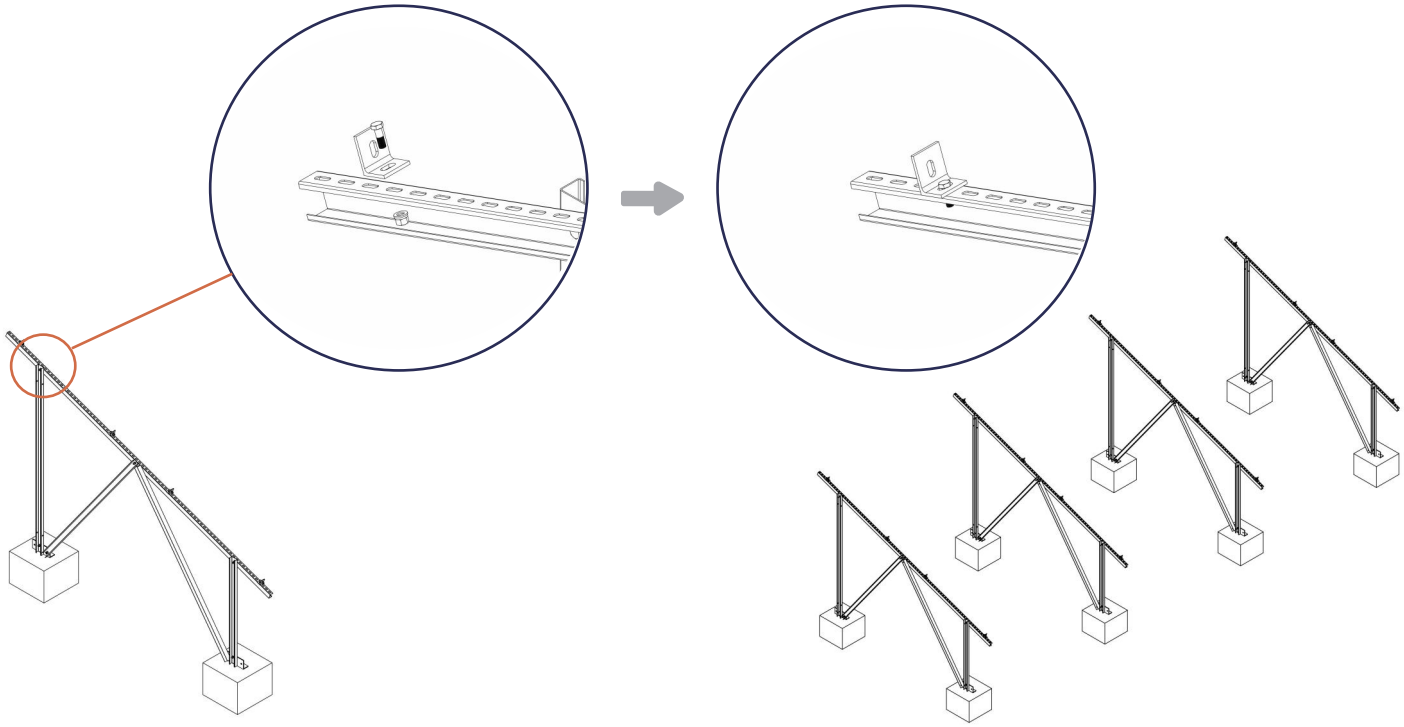
Put the beam to correct position and use an electric drill and 3 PCS M12*25 hexagon screw to fix them. Repeat the above steps to install all SC Legs to form an array.



5. Fixed the rail fix adapter on the beam

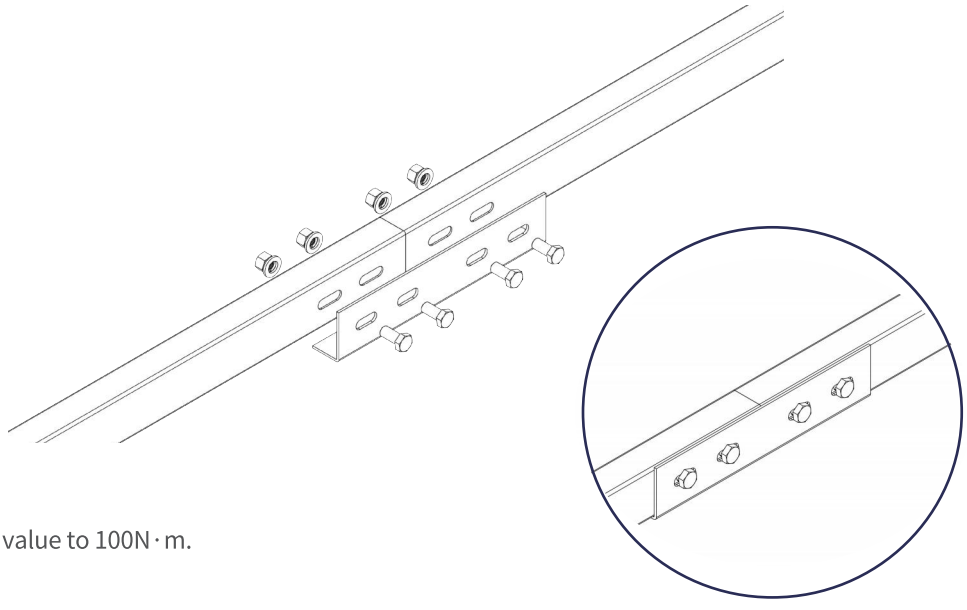
According to the size of the panel, use 1 PC M12*30 hexagonal screws to fix the beam in the corresponding hole position.

⚠ **Notice:**
Set the torque value to 100N · m.



6. Fixed rail splice kit with purlin

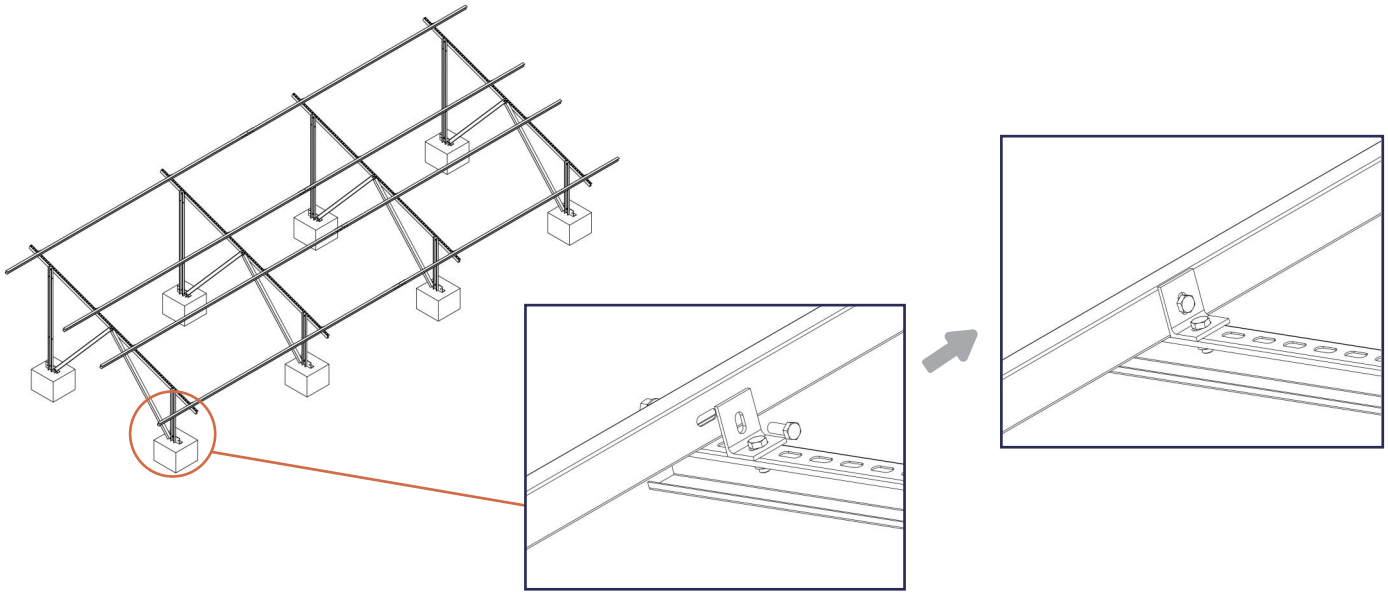
Align the holes of the rail splice kit and the purlin, and fix them with 4 PCS hexagonal screws M12*25.



⚠ **Notice:**
Set the torque value to 100N · m.

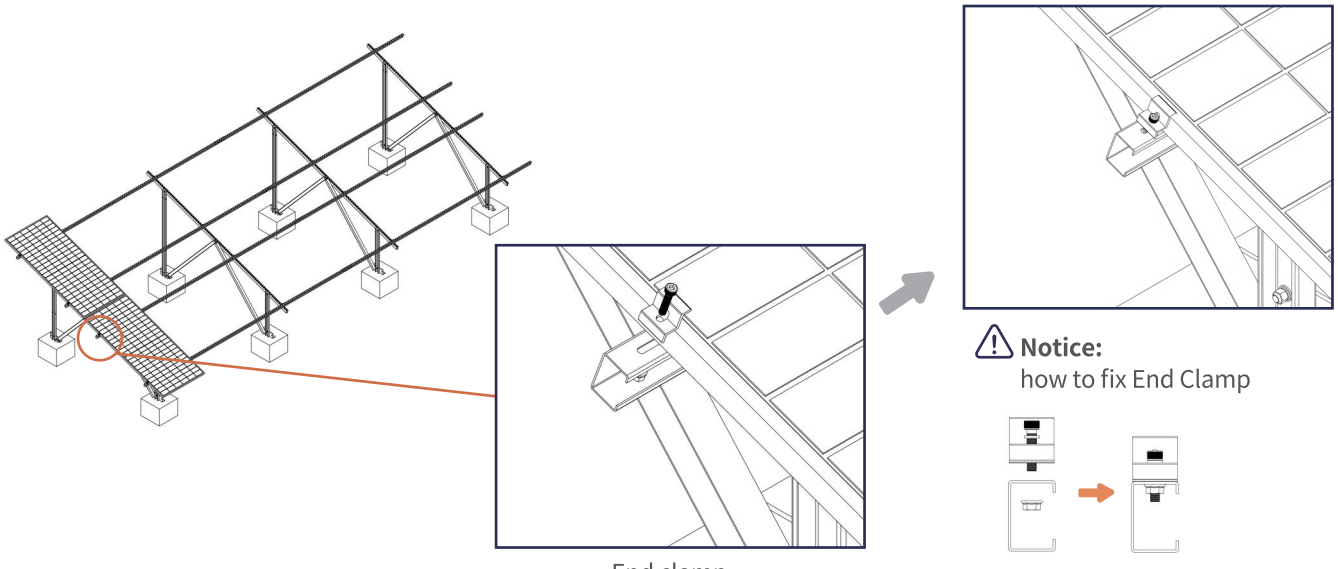
7. Install purlin on the beam

Place the connected purlins on the SC legs, paying attention to placing them on the back of the purlin support, and use the hexagonal screws M12*25 to fix the purlins and rail fix adapter



8.1 Install End and Mid Clamps on row holes purlin

Choice 1: Row holes purlin
Insert the end clamp into the hole, confirm the position of the first panel, and then install the nut to fix it

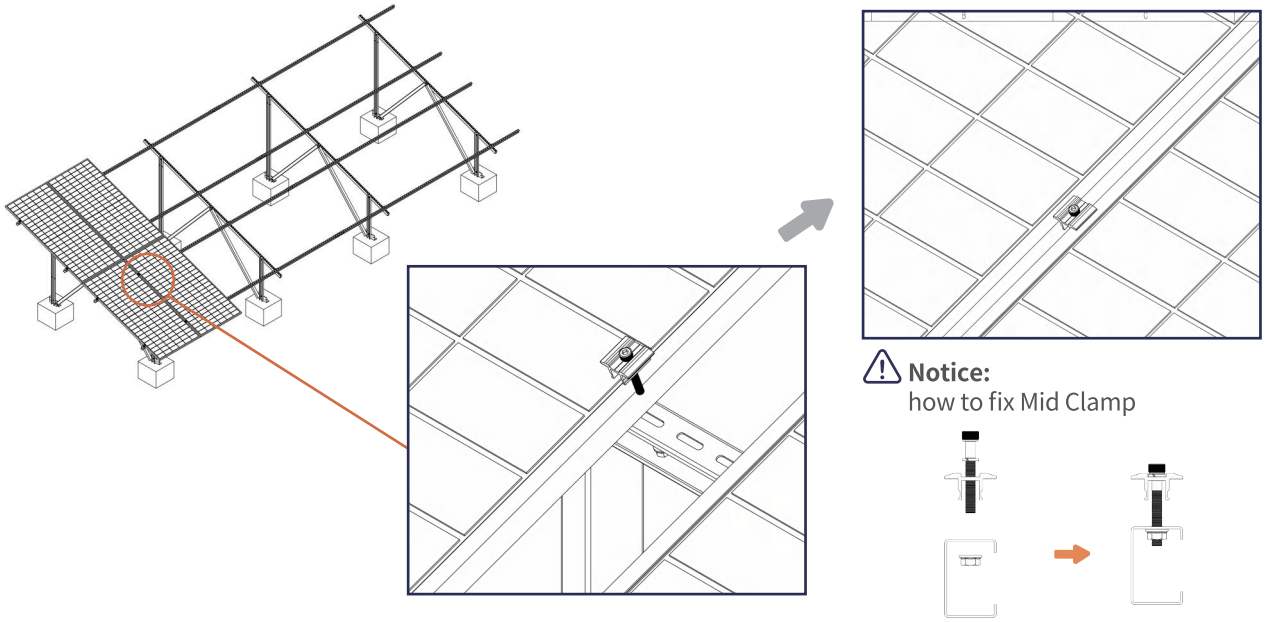


End clamp

Notice:
how to fix End Clamp

8.1 Install End and Mid Clamps on row holes purlin

Place the Mid clamp into the hole, confirm that the solar pv panels are aligned, and use M8 hex key or electric drill to fix it
Repeat the above steps until the late panel is installed



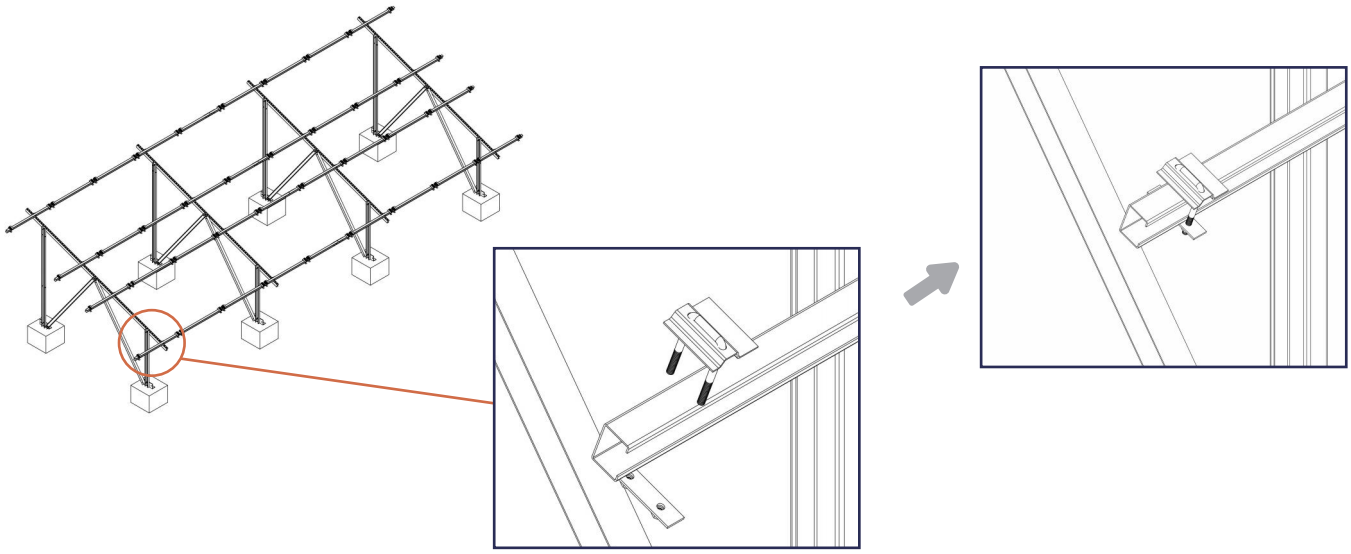
Mid clamp

Notice:
how to fix Mid Clamp

8.2 Install End and Mid Clamps on no holes purlin

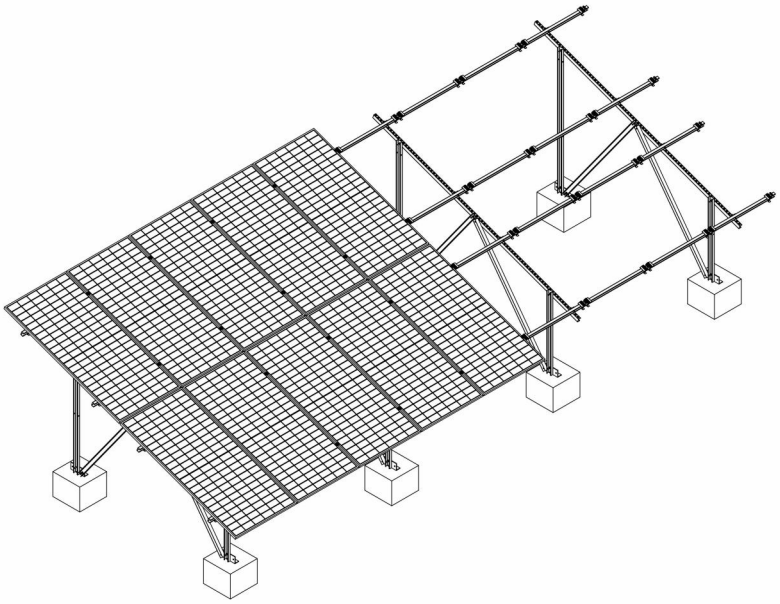
Choice 2： No hole purlin

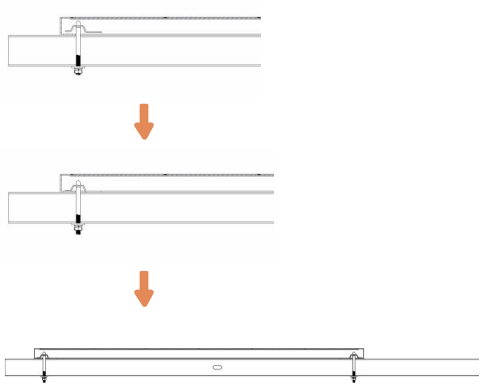
First install all the required no hole clamps on the purlin according to the following steps



8.2 Install End and Mid Clamps on no holes purlin

Then start fixing panels. One board requires four clamps, with the narrow part of the main block facing the edge of the board.

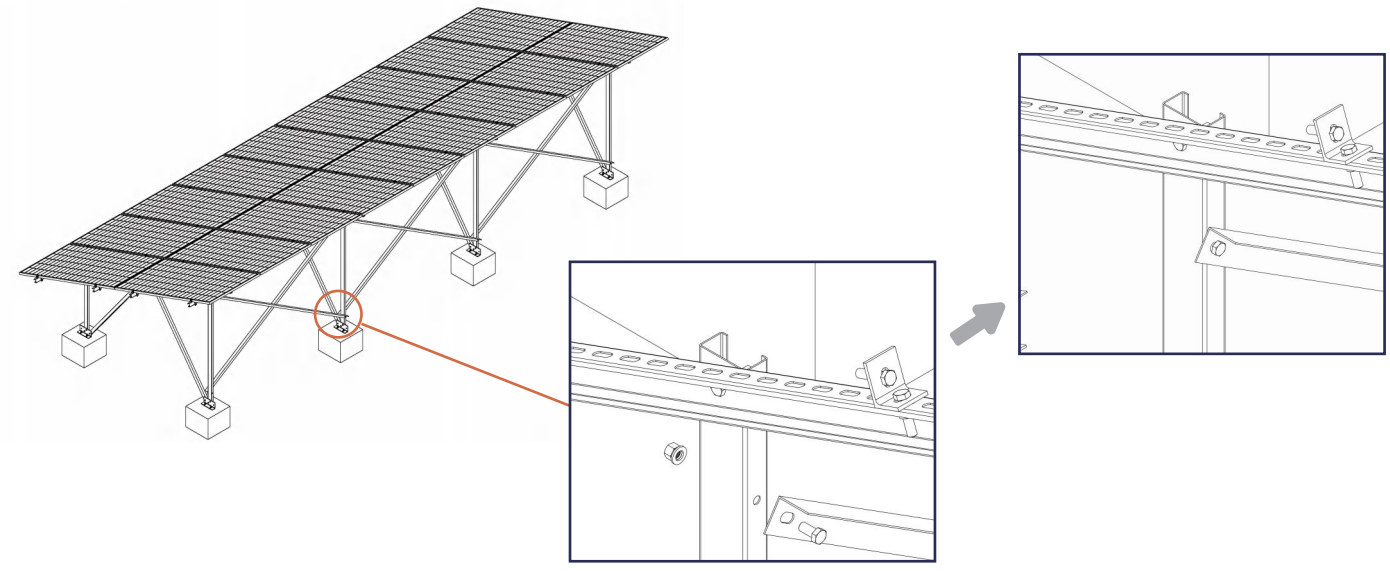




⚠ Notice: how to install clamp

9.Install Strength kits

After confirming the position according to the drawing, drill holes and fix them with M6 drill nails.



10 Finical Installation Check

Make sure all components are securely fastened. Verify that the AW Ground Solar Mounting system is installed correctly, reaches the required height, angle and position.