

INSTALLATION MANUAL

ARCH 6.0 BALLAST SOLAR MOUNT SYSTEM

General	01
Tools overview	02
Components	03
Steps for installing mounting system	03
• Pre-preparation: Glue the Rubber pad to the base beam	04
• Fixed base beams	04
• Fix the front and rear feet to the base	05
• Fix the ballast on the base beam through the fixings	06
• Fix Solar Panels with End Clamp	08
• Fix Solar Panel with Mid Clamp	08
• Fix the Rails on the Beam	09
• Fix the cables	09
• Install the side and back Windbreaker	10

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.



6.3、10、12、18



10mm



NM



Torque Values

Expansion Bolts and Base: 135N • m

Fix Transfer Kit and front and rear Tube: 40N • m

Fix Base and front and rear Tube: 40N • m

Fix Rail and Rail Splice: 10N • m

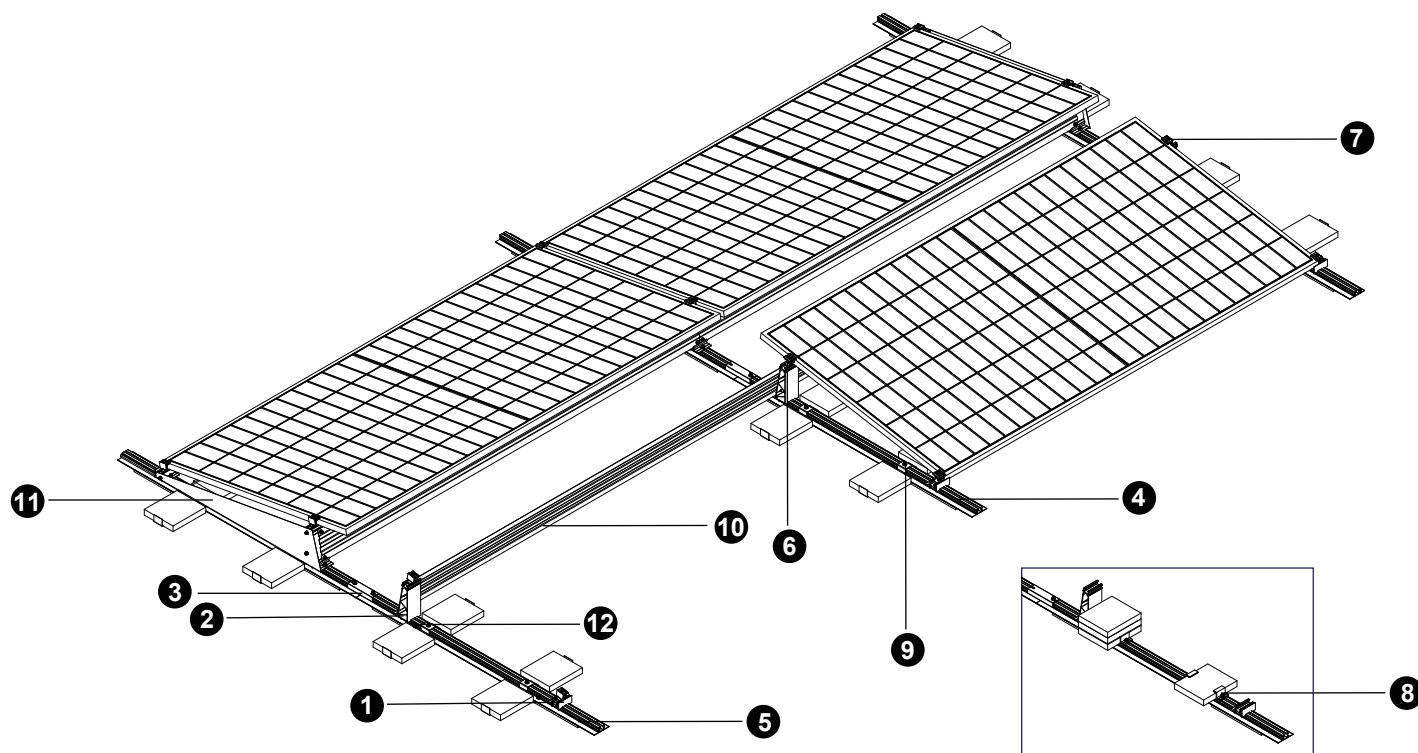
Fix Rail and Beam: 10N • m

Fix Vertical Sink Rail and Rail: 10N • m

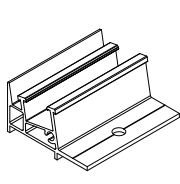
Fix End Clamp and Mid Clamp: 10N • m

Fix Edge and Edge Fixing Kit: 10N • m

1. Parts Overview



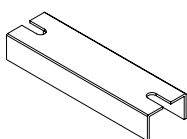
2. Components



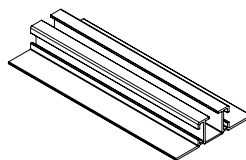
1. Front leg



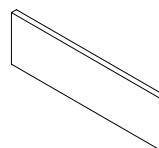
2. Back leg



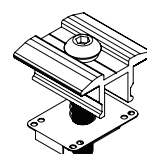
3. Splice for base beam



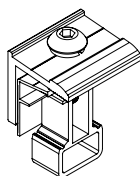
4. Base beam



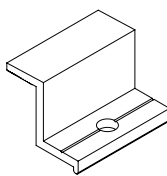
5. Rubber pad



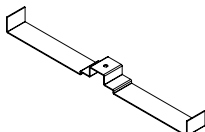
6. Mid clamp



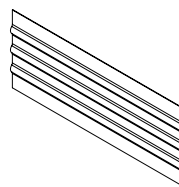
7. End clamp



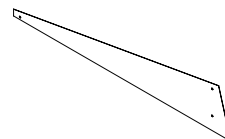
8. Ballast kit (Option1)



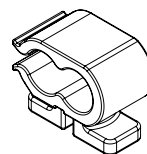
9. Ballast kit (Option2)



10. Back Windbreaker

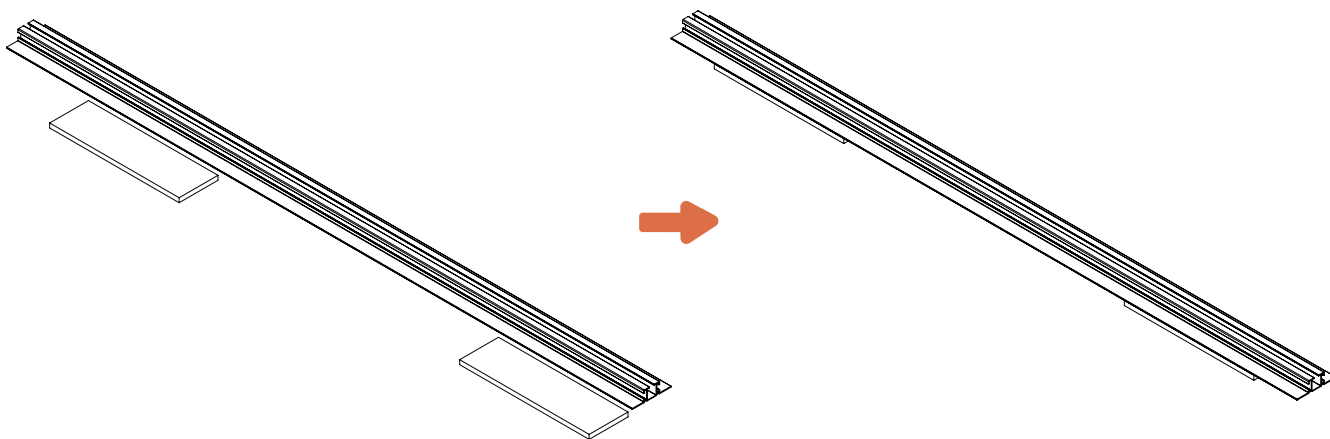


11. Side Windbreaker



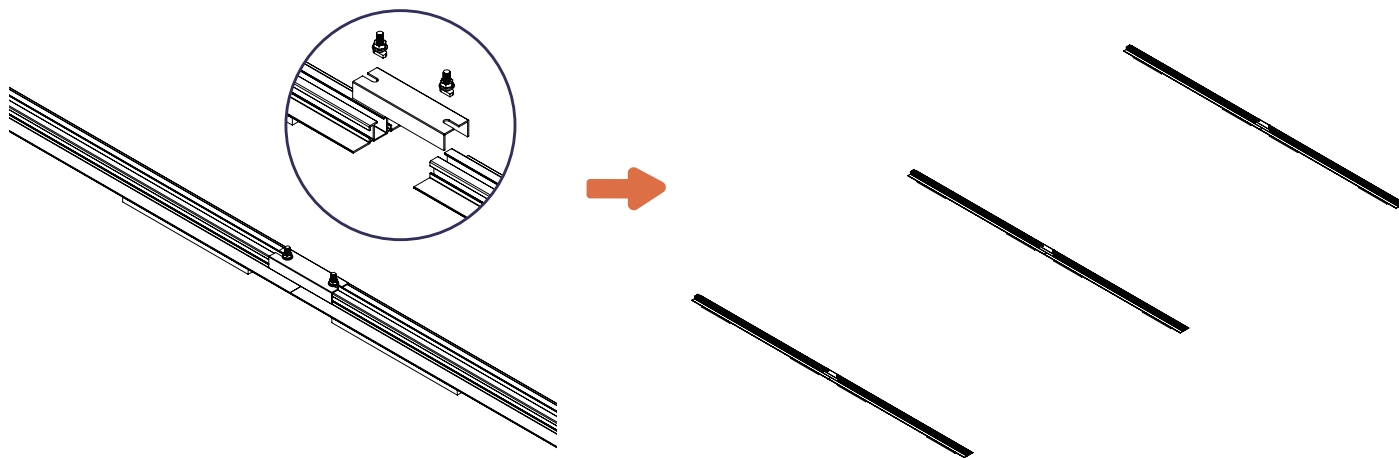
12. Cable clip

1.Pre-preparation: Glue The Rubber Pad To The Base Beam



Repeat this step to ensure all rubber soles are installed.

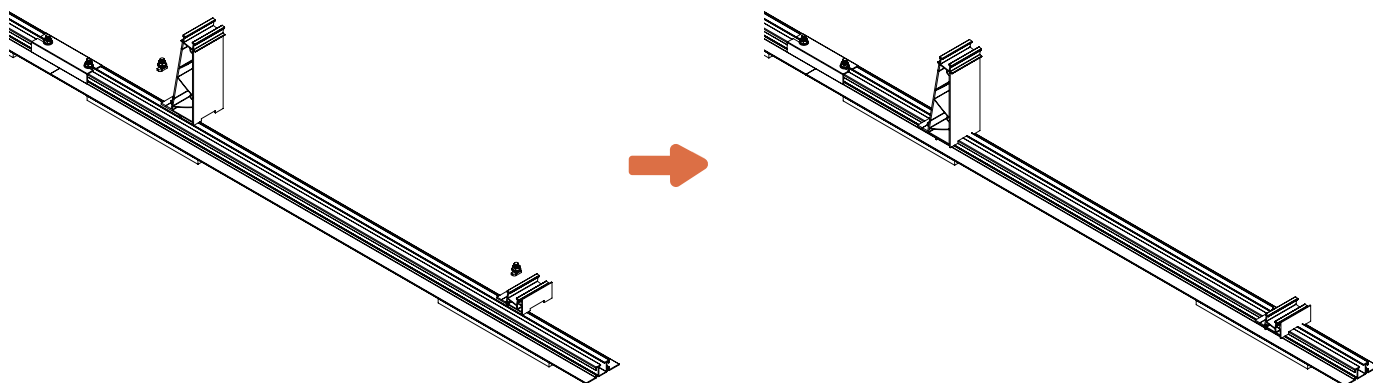
2.Fixed Base Beams



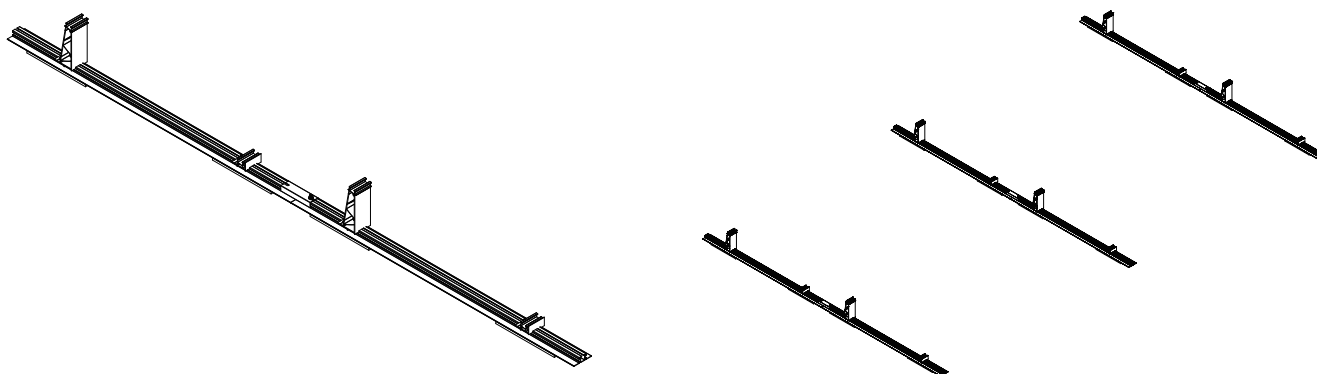
Place the base beam , then place the connector where the two bottom beams meet, and tighten it by rotating the T bolt
Repeat the above steps to fix all base beams, then confirm the base beam position according to the drawing

3. Fix The Front And Rear leg To The Base

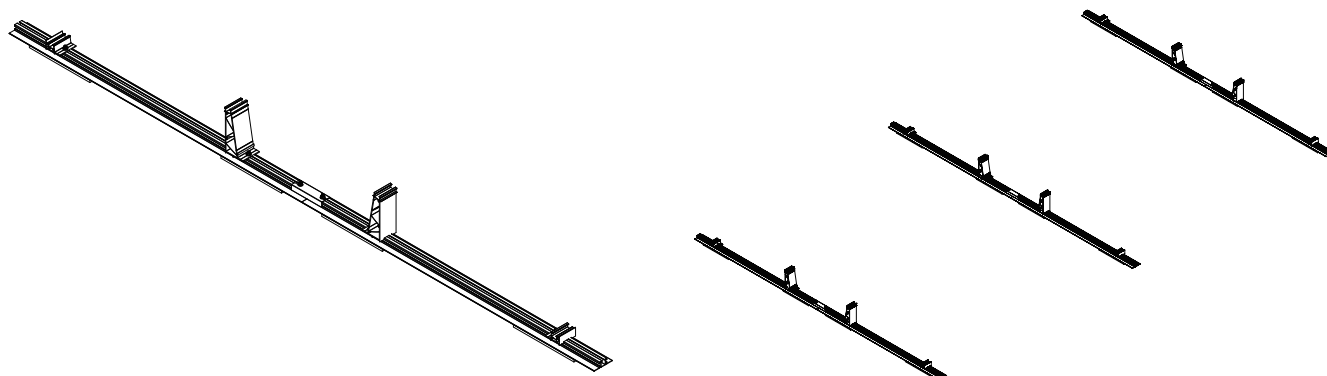
First determine the distance between the front and back leg, then fix them with T screws.
Choose the installation direction according to your needs



Option 1: N/S



Option 2: W/E



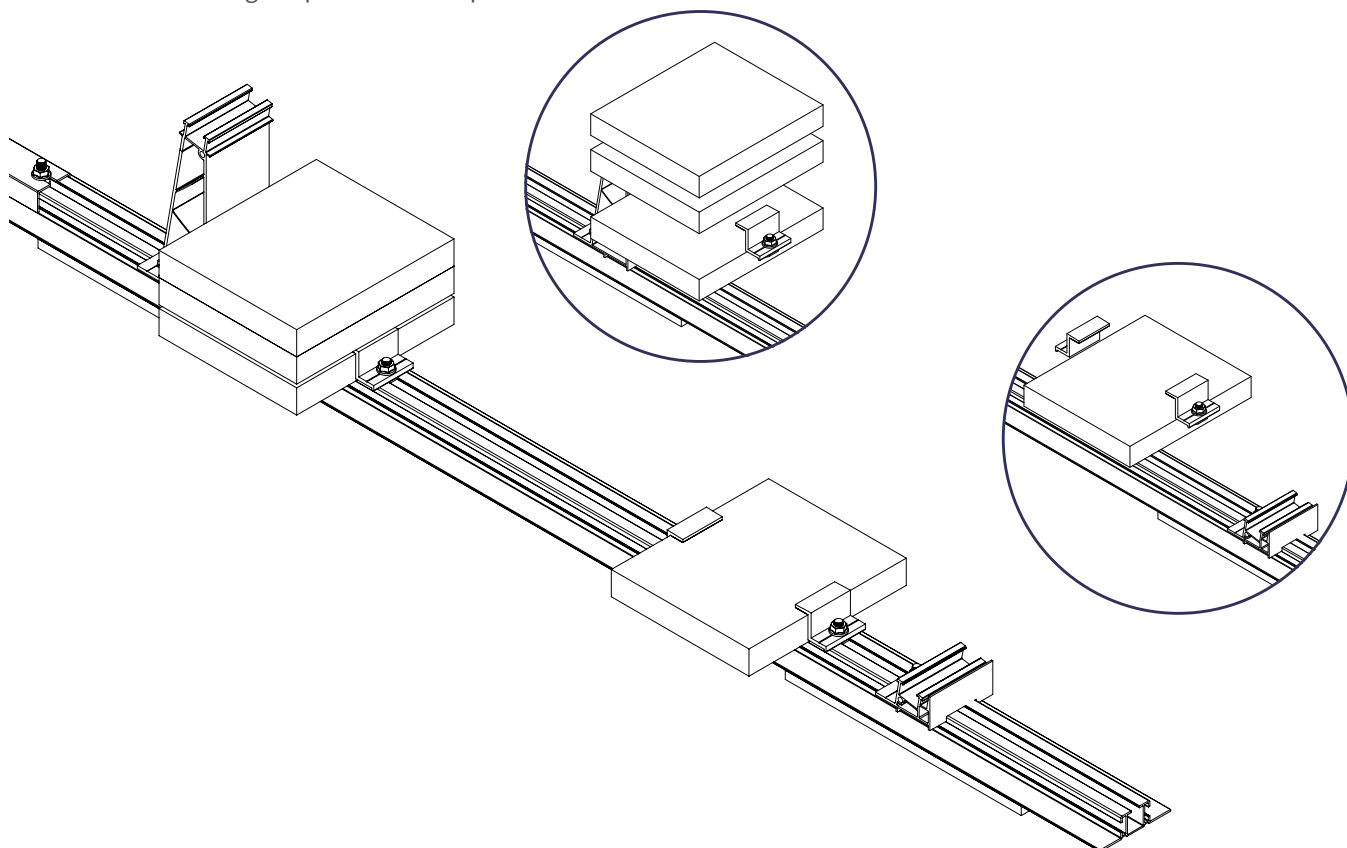
4. Fix The Ballast On The Base Beam Through The Fixings

Option 1 with the clamp

Place the ballast in the position shown on the drawing and secure it with a clamp.

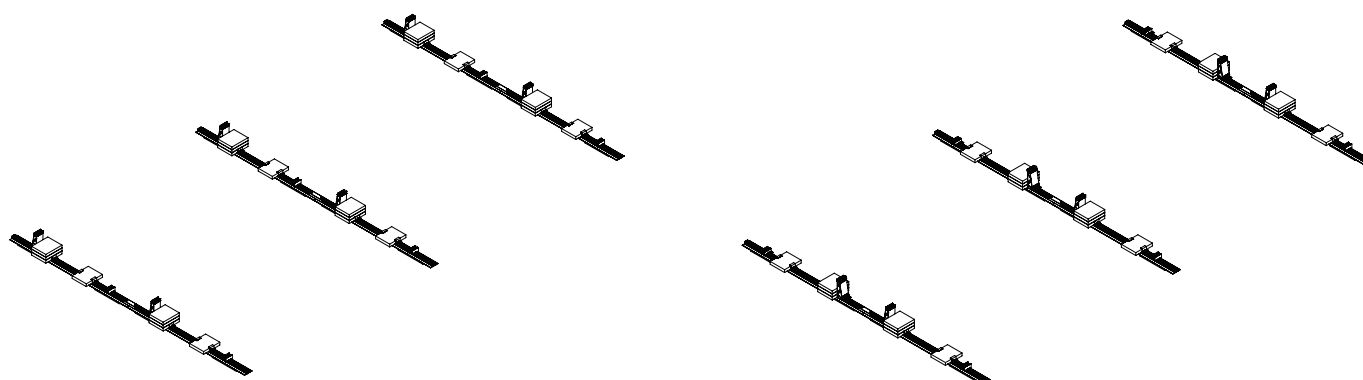
Notice: Ballast for the back legs requires one clamp

Ballast for the front legs requires two clamps



1.N/S

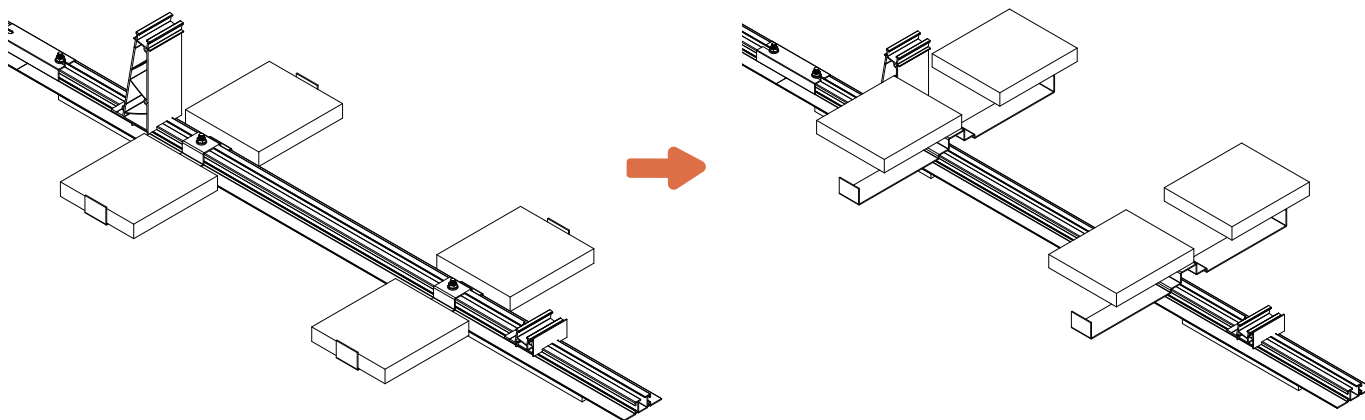
2.W/E



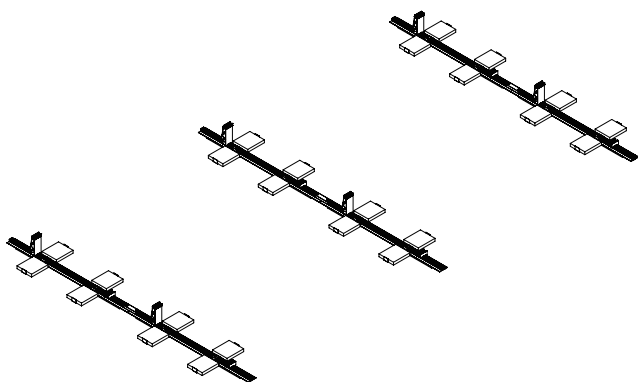
4. Fix The Ballast On The Base Beam Through The Fixings

Option 2 With support board

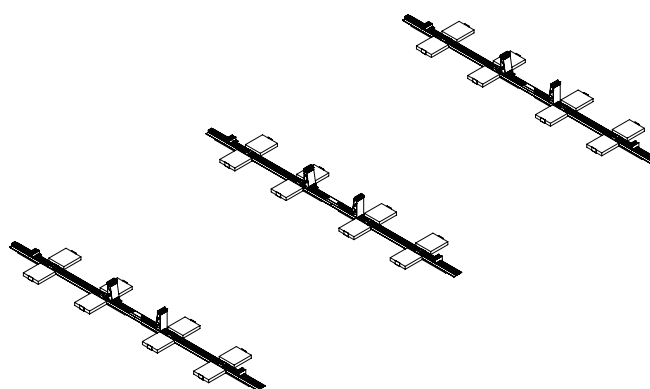
First, install the ballast fixings with bolts, and then place the ballast on both sides.



1.N/S

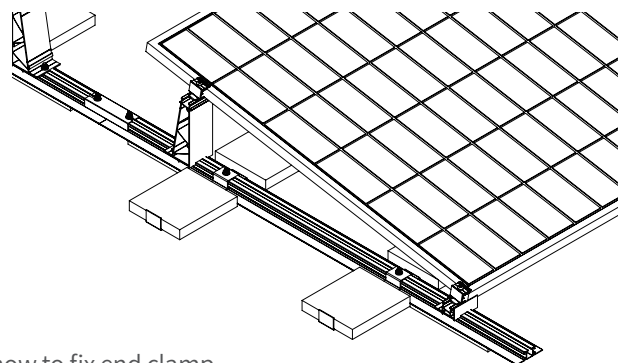
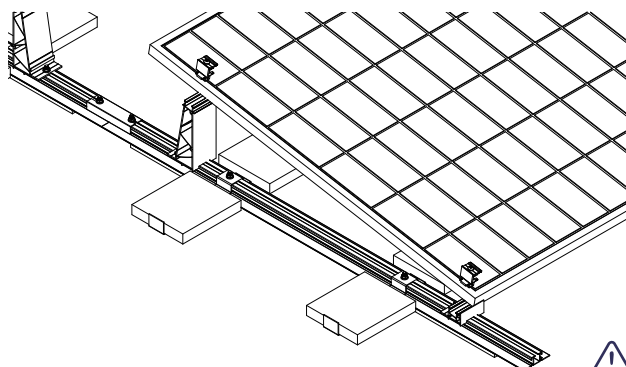


2.W/E

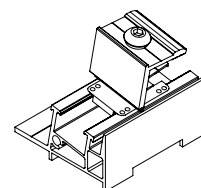
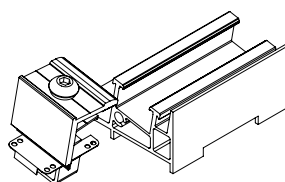


5. Fix Solar Panels With End Clamp

Confirm the position of the first solar panel, install the end-clamp into the notches of the front and back leg, and then secure them using an M8 hexagonal wrench or drill bit.

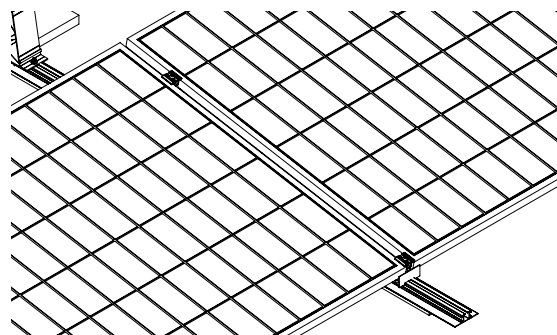
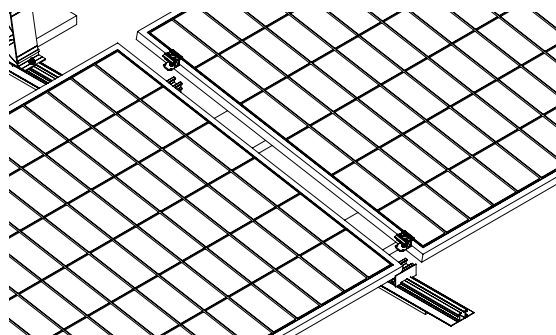


⚠ Notice: how to fix end clamp
Set the torque value to $10\text{N} \cdot \text{m}$

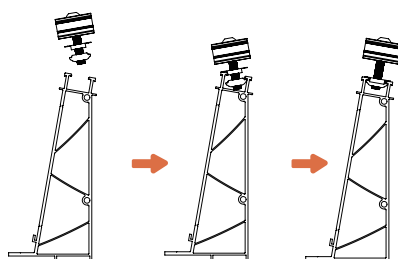


6. Fix Solar Panel With Mid Clamp

After installing the first panels, then install the following panels. After confirming that the solar panels are at the same level, insert the mid clamp into notches of the front and back leg. And fix it with an M8 hexagonal wrench or electric drill. Repeat the above steps until the last solar panel is fixed by end-clamp.

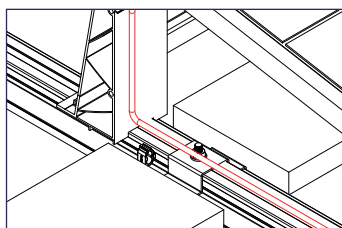
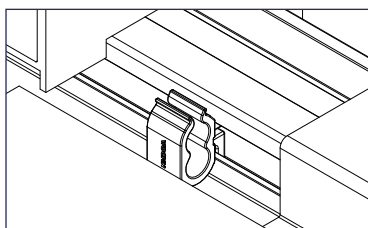
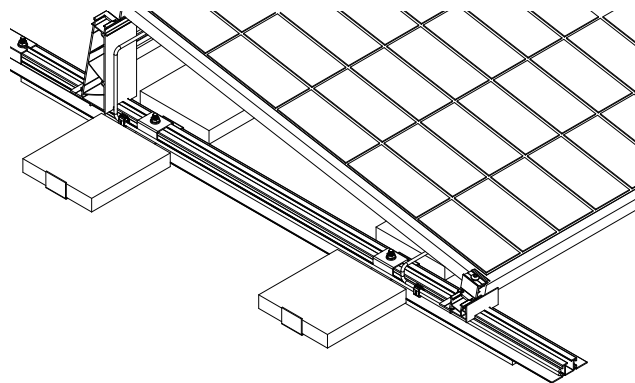
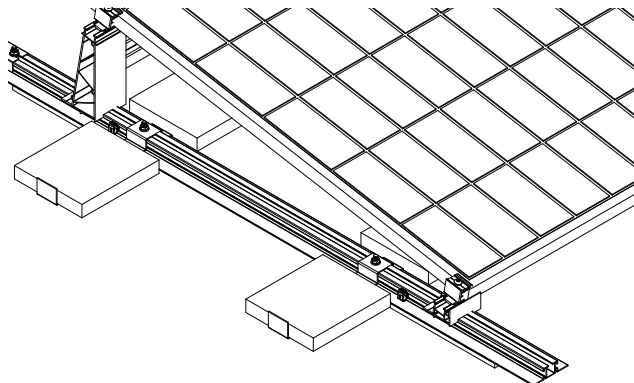


⚠ Notice: how to fix mid clamp
Set the torque value to $10\text{N} \cdot \text{m}$



7. Fix The Cables

Pull the organized cables to one side and attach the cable clip to the ballast on the same side and snap the cables into place.

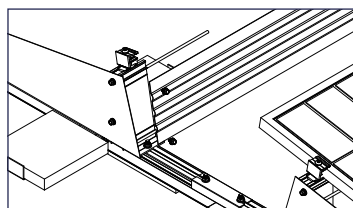
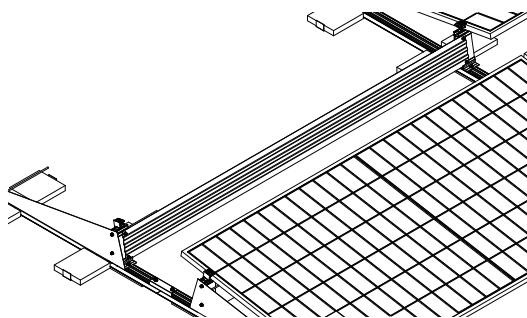
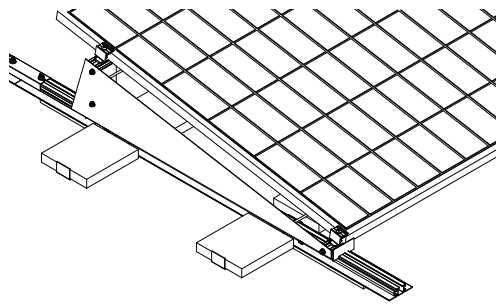
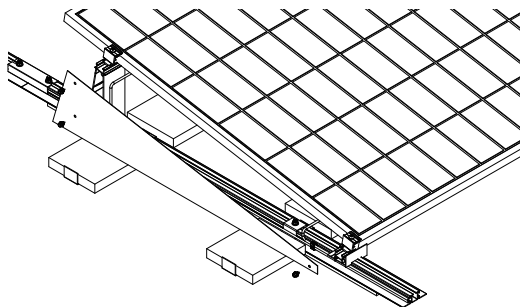


8. Install The Side And Back Windbreaker

After securing the cables, secure the side windshields to the outside of the system on both sides.

The back windshield needs to be installed behind each solar panels.

(This step depends on specific needs)



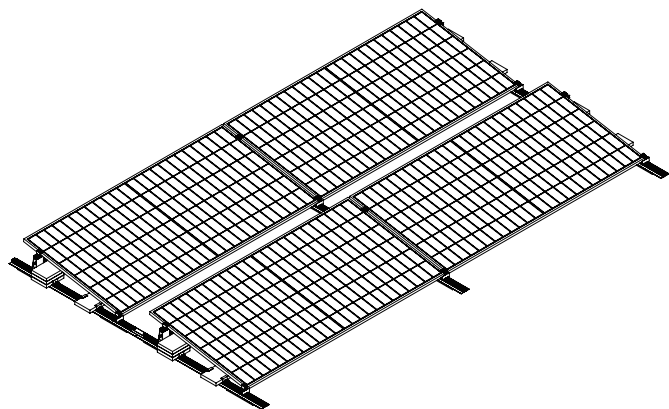
⚠ Notice: Set the torque value to 10N·m
After tightening, please confirm again whether it is firmly installed.

9. Final Product Display

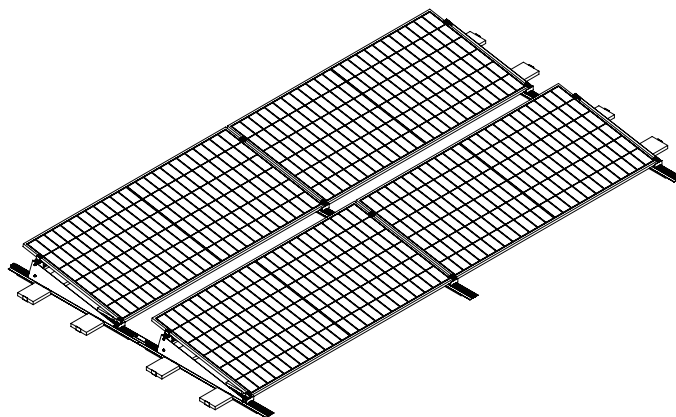
Make sure all components are securely fastened. Verify Arch 6.0 ballast solar mount system that is installed correctly, reaches the required height, angle and position.

North to south:

Ballast Kits Option 1 (without side windshield)

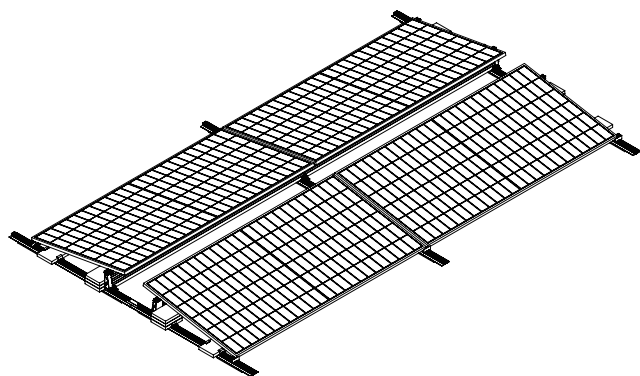


Ballast Kits Option 2 (with side windshield)



East to west:

Ballast Kits Option 1 (without side windshield)



Ballast Kits Option 2 (with side windshield)

