



INSTALLATION MANUAL

AW GROUND SOLAR MOUNTING SYSTEM



General
Tools overview
Components
Steps for installing mounting system
• Concrete foundation and fix the base
• Assemble and fix the AW legs 05
• Assemble the rail to the AW leg 06
• Install the Strength kit
• Install End Clamps to Fix Solar Panels
• Install Mid Clamps to Fix Solar Panels
• Install Grounding Lug on Rail

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.





Torque Values

Base fixed concrete foundation : 12 N ⋅ m
Base fixed the front and rear columns and diagonal bracesl: 10 N ⋅ m
Adapter fixed inclined beam: 10 N ⋅ m
Diagonal beam adapter fixed the front and rear columns and diagonal braces: 10 N ⋅ m
Mid clamp, end clamp and grounding lug fixed with rail: 8 N ⋅ m



1. PARTS OVERVIEW





2. Components



1.Rail



5.Base kits



6.Mid clamp for portrait



2.Tube



8.Rail fix kits

3.Rail connector





10. Mid clamp for

landscape



4.Beam with transfer kits

11. End clamp for landscape

9.Grounding Lug





2. Fixed the Base on Foundation

Three choice:

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



Notice: Confirm the distance between bases according to the drawing Screw spacing reference: 2.While making the concrete base, bury the embedded bolt together.

3.Ground screws driven directly into the ground









4.Fix the AW Leg to the Base





5.Fix the Rails and Rail Splice



6. Install the Rail to the AW Leg

To confirm the position of rail on the AW leg follow drawings. Then put the rail on marked position, use rail fasteners to fix on the AW leg. Repeat above steps, to ensure all rails install on the AW legs.





7.Install the Strength kit

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





8.Install End Clamps to Fix Solar Panels

Slide the End clamp into the rail notch from the side, confirm that the solar pv panel is properly placed, and use M8 hex key or electric drill to fix it.





9.Install Mid Clamps to Fix Solar Panels

Place the Mid clamp into the rail notch, 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





10.Install Grounding Lug on Rail

After installing the last end clamps, start installing the ground lug.Slide the ground lug into the rail notch, and use M8 hex key or electric drill to fix it, finally snap the solar cable into it.



11.Final 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.