

ASSEMBLY INSTRUCTIONS

LV-B091



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01 Summarize

These installation instructions describe the procedure for installing the product. Read these assembly instructions carefully before starting the assembly. Follow the instructions carefully to ensure correct installation of the product.

1.1 Installation personnel

Installation work may only be carried out by adequately trained and qualified installers. Qualified personnel are those who have skills, knowledge and training in the installation of pv mounting systems necessary to follow this manual in order to safely use the required tools and to carry out the required procedures. They must be physically and mentally fit and at no time are they allowed to perform installation work while under the influence of drugs, alcohol or even drugs.

1.2 Security equipment

The installation team must distribute safety helmets, gloves, safety ropes and other equipment to each installation worker to ensure that each installation location is equipped with more than two installers for timely rescue in the event of an accident.

1.3 Construction site

During installation, the construction site must be closed to the public to prevent fall injuries.

At least one copy of the installation instructions must be available at the installation site.

02 Tools overview



Safety helmet



Goggles



Chalk



Electric Wrench



Gradienter



Tape measure



**Allen Wrench
(M6&M8)**

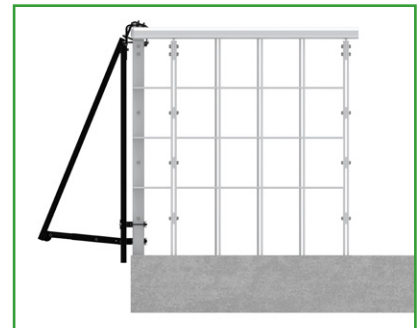
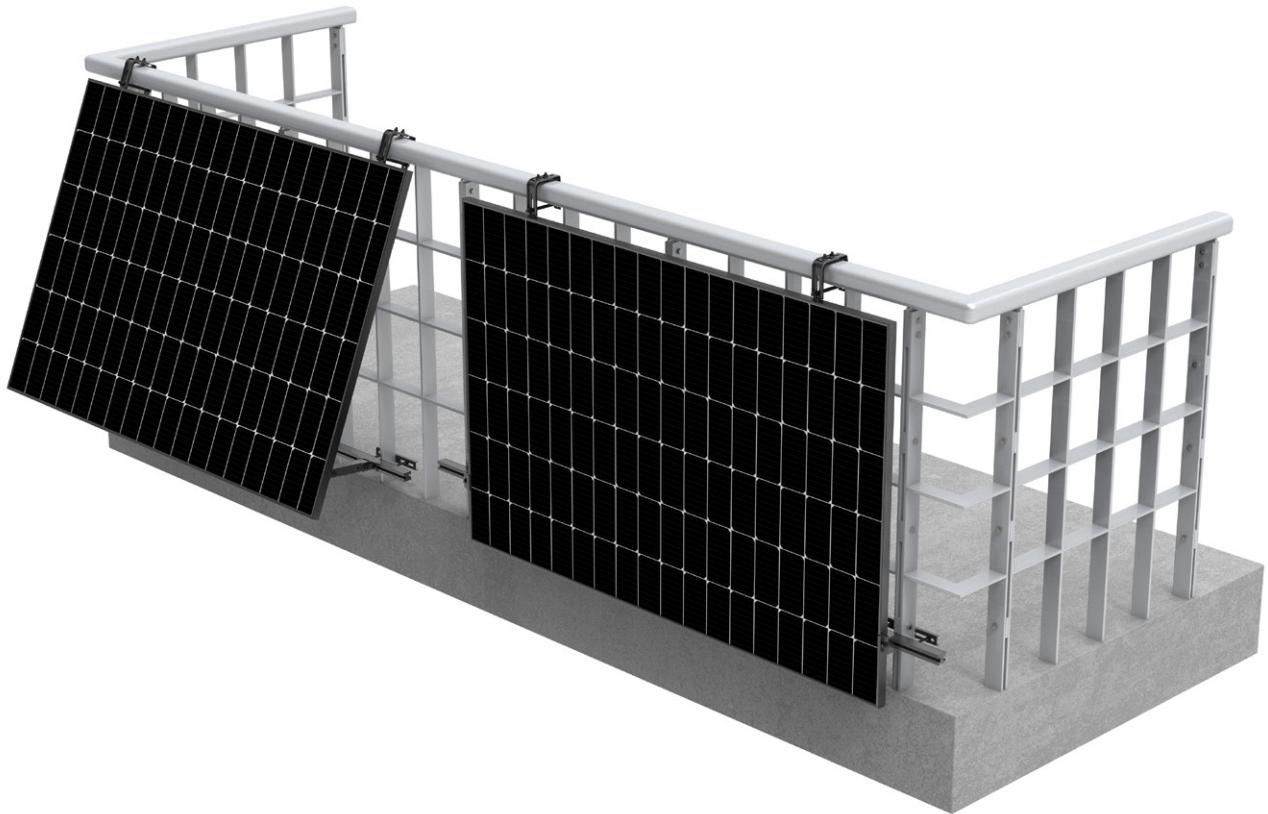


Engineering gloves



**Hexagon wrench
(M13&M14)**

03 Detail display



04 Component introduction



Crossbar Fastener

M8×50



Crossbar Fastener Bolts



Handrail Hook

M10×130



Bolt Of Handrail Hook

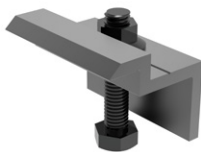
M8×20



Panel Fixing Bolts



Adjustment Rod



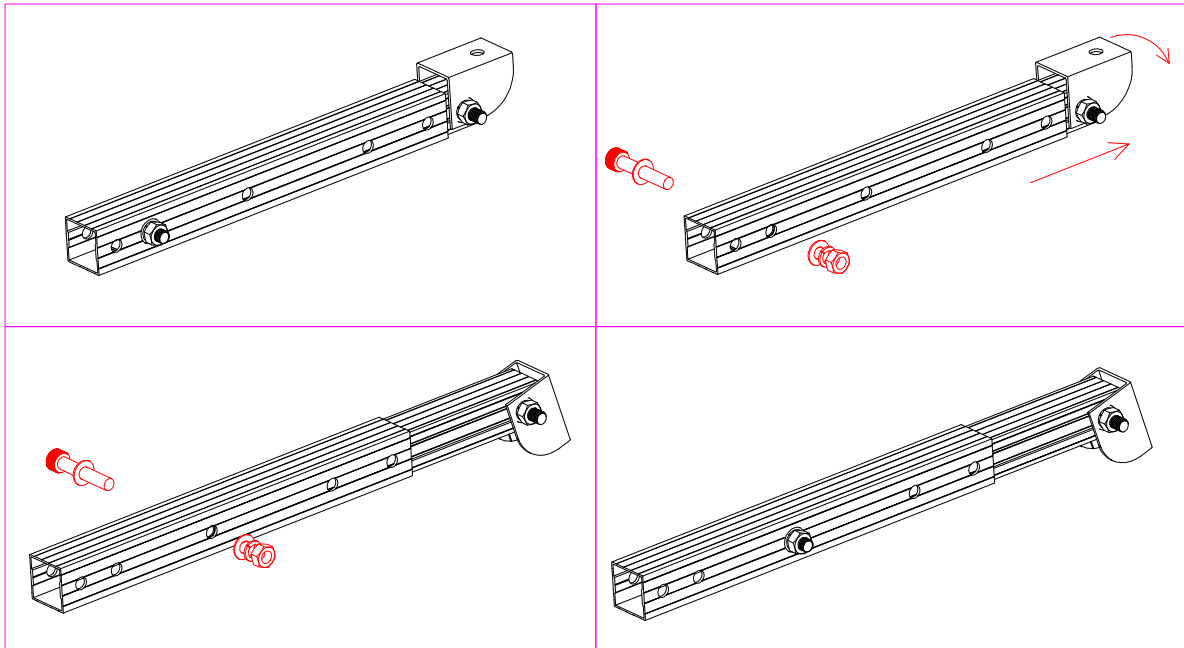
End Clamp



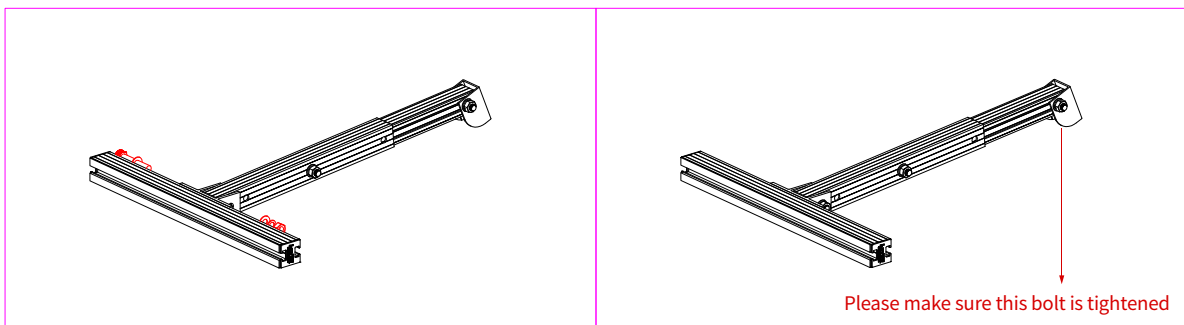
Crossbar

05 Installation step

5.1 Assemble The Adjustable Bracket



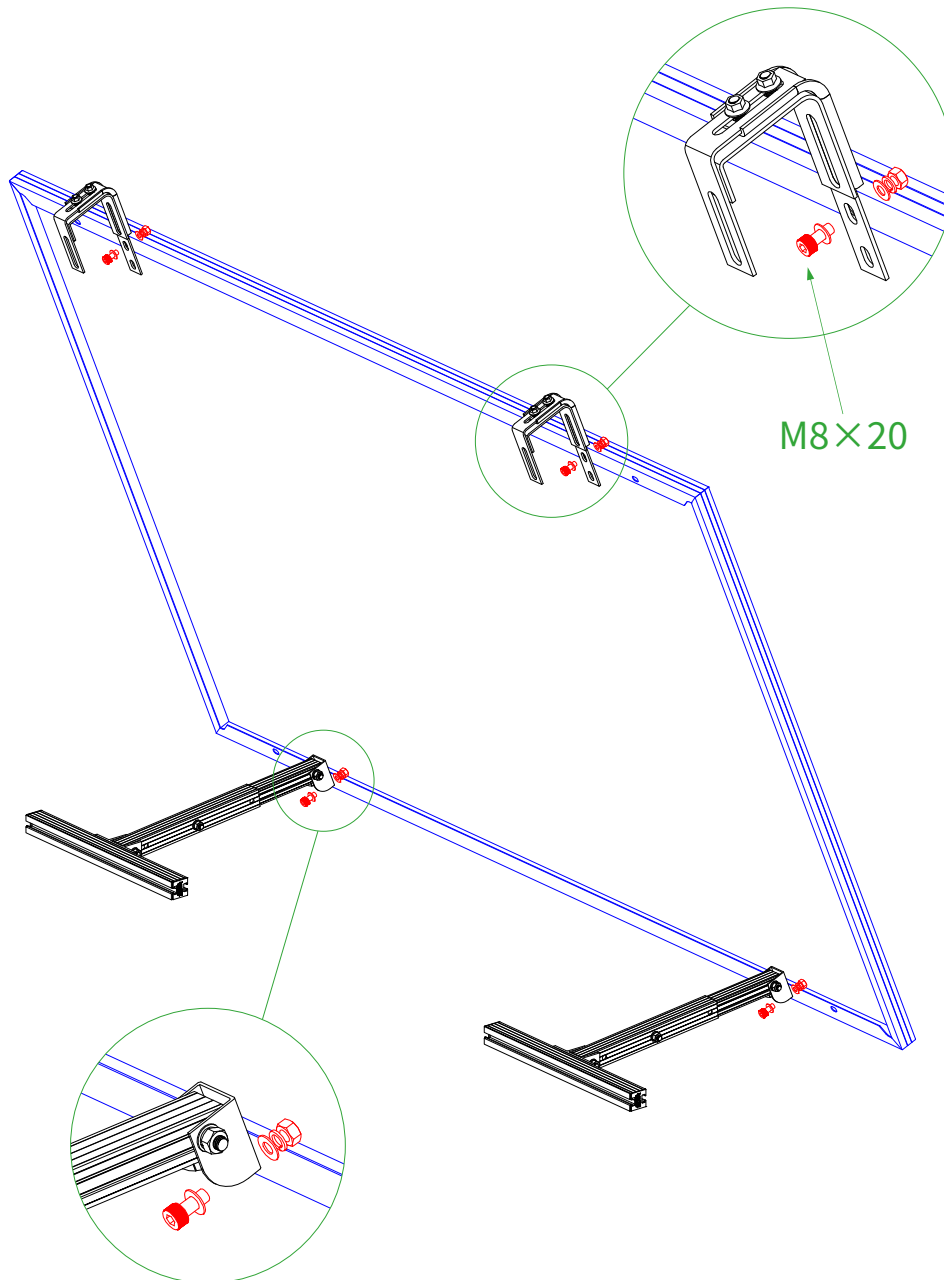
- 1 Attach and secure the adjustment rod using bolts as per the designated mounting points.



- 2 Secure the adjustment rod and crossbar together using bolts.

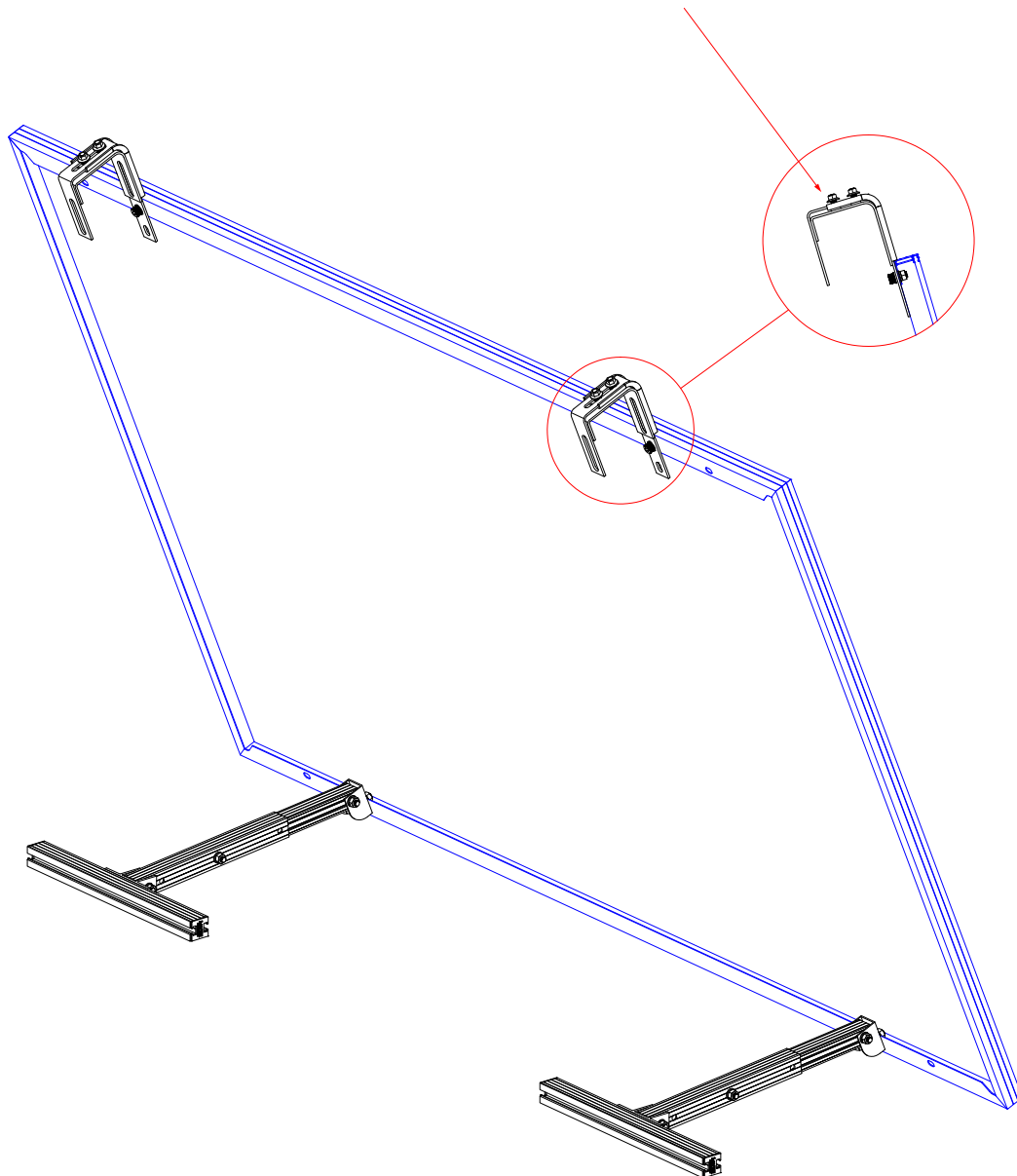
5.2 Install Solar Panels

- 1 Use the bolts provided in the kit to install the adjustable bracket and handrail hook onto the solar panel frame.

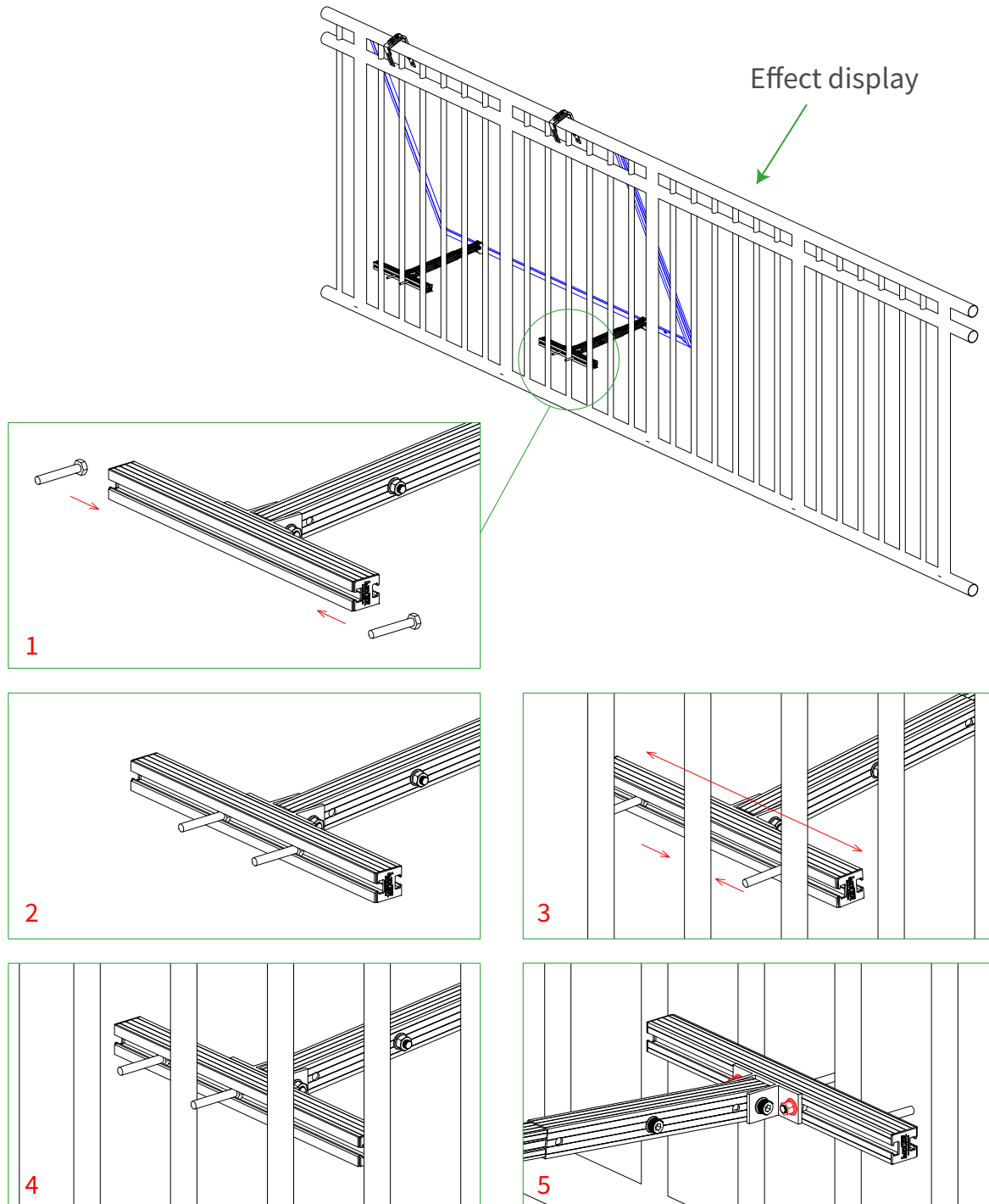


2 Effect display

Attention: The flanging of the hook shall press against the frame of the solar panel.

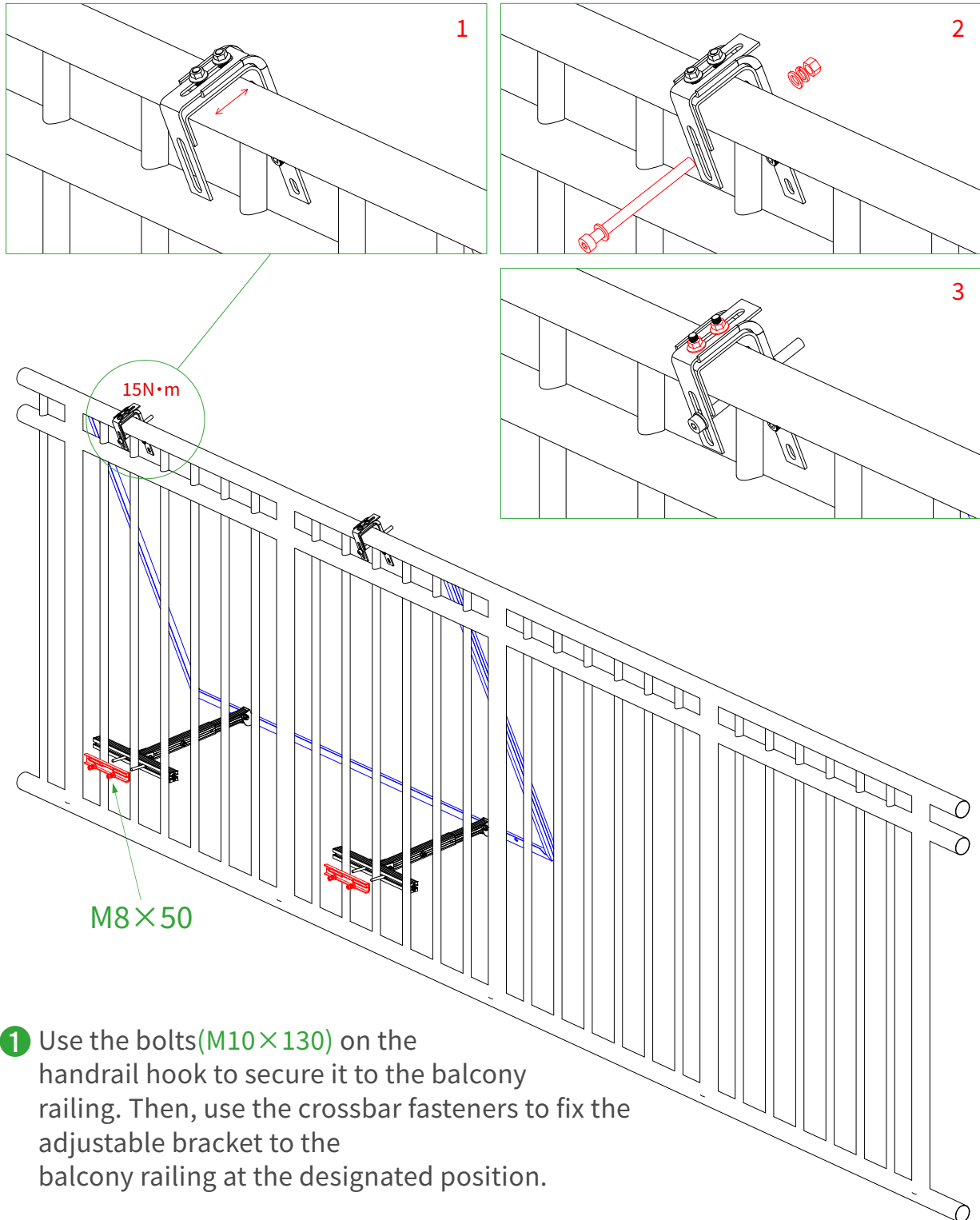


5.3 Mounting System Installation



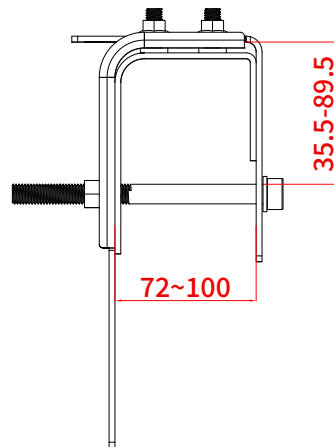
Once the adjustable bracket is placed on the balcony railing, fine-tune the position of the crossbar bolts to ensure the railing is positioned firmly between them, as illustrated.

5.4 Overall Installation

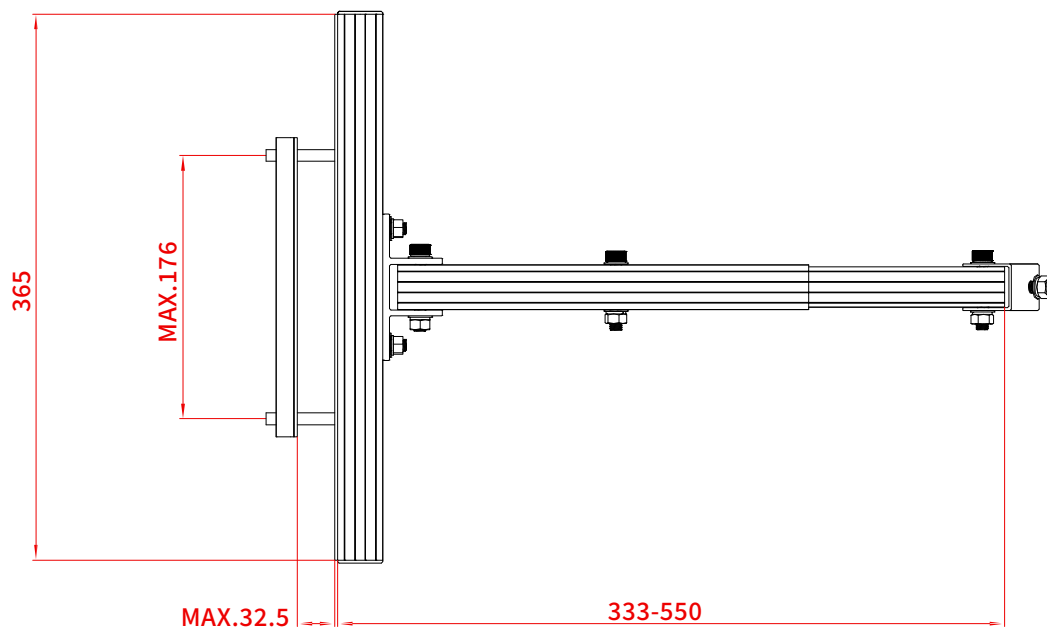


- 1 Use the bolts (M10 × 130) on the handrail hook to secure it to the balcony railing. Then, use the crossbar fasteners to fix the adjustable bracket to the balcony railing at the designated position.

- ② For the standardized values of handrail Hook and adjustable bracket installation, refer to the figure below.

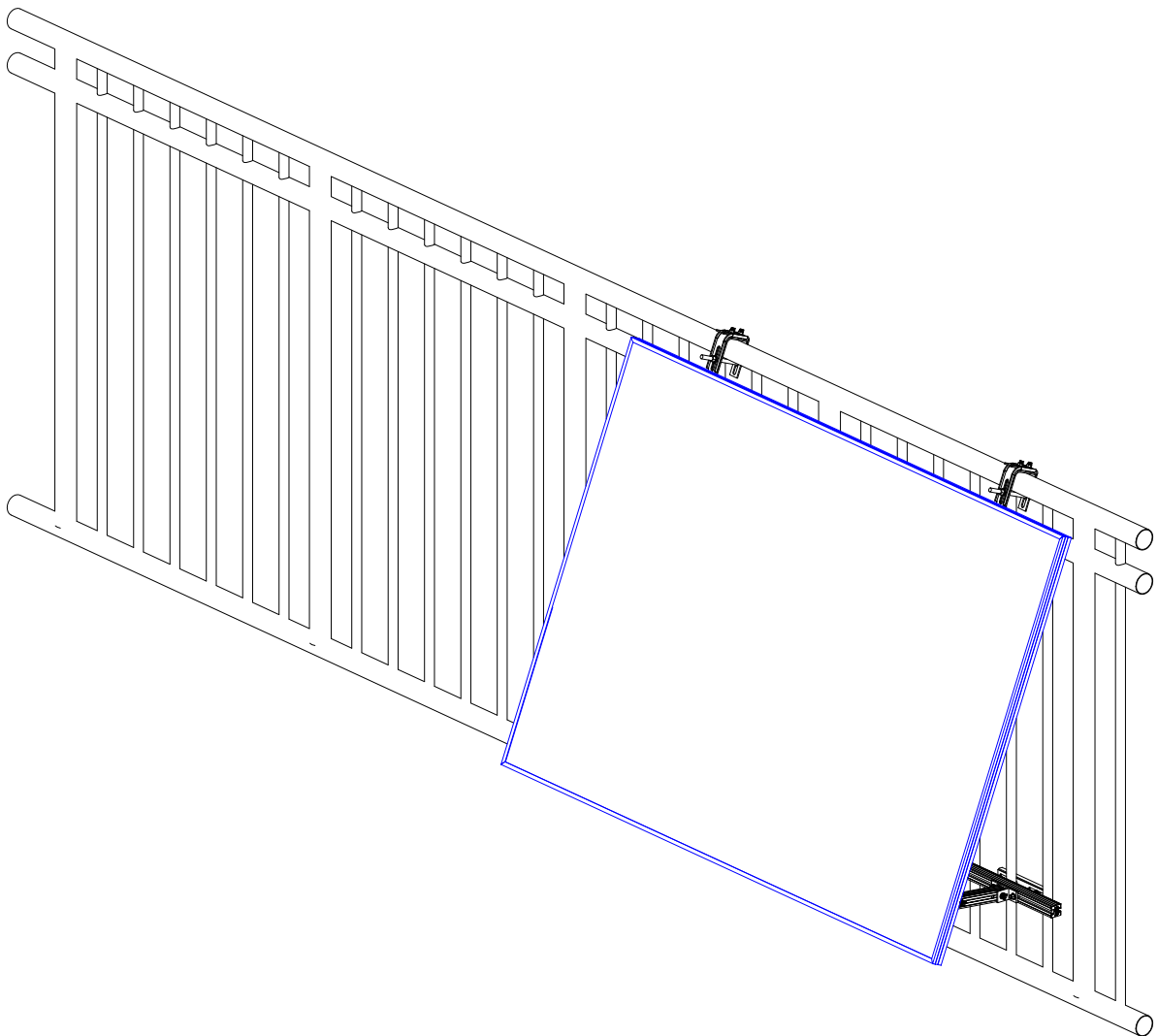


Handrail Hook

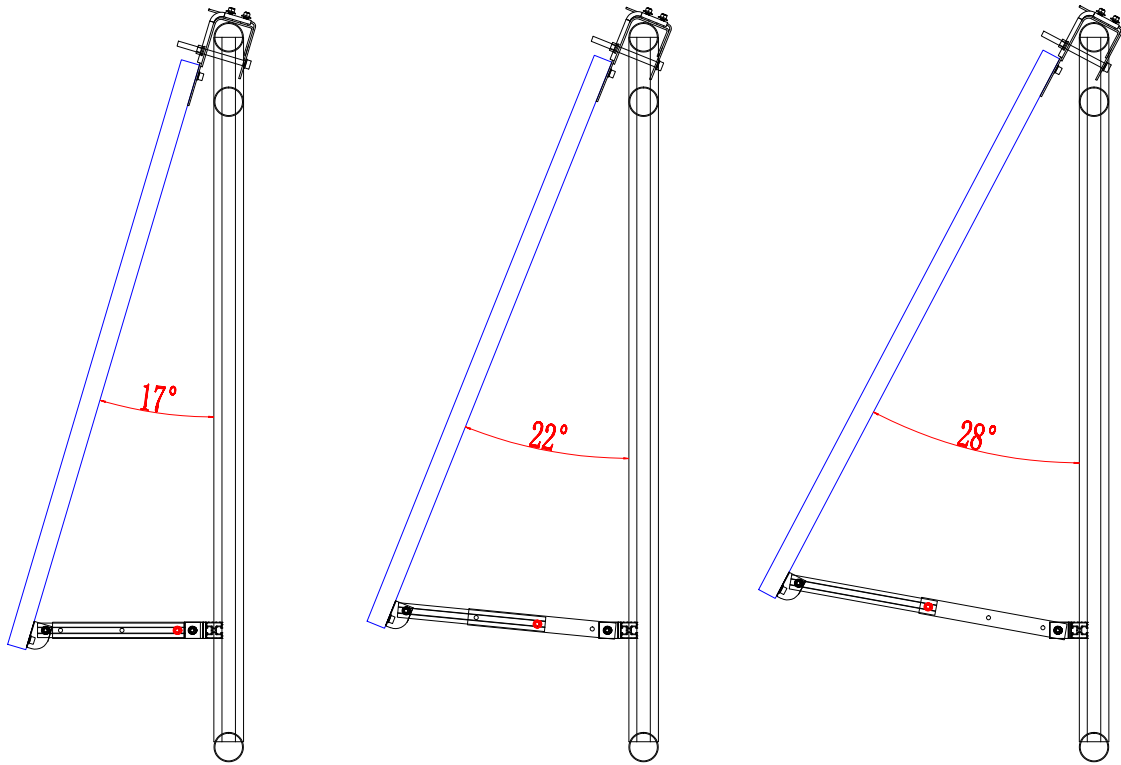


Adjustable Bracket

3 Effect display



5.5 Bracket Angle Adjustment

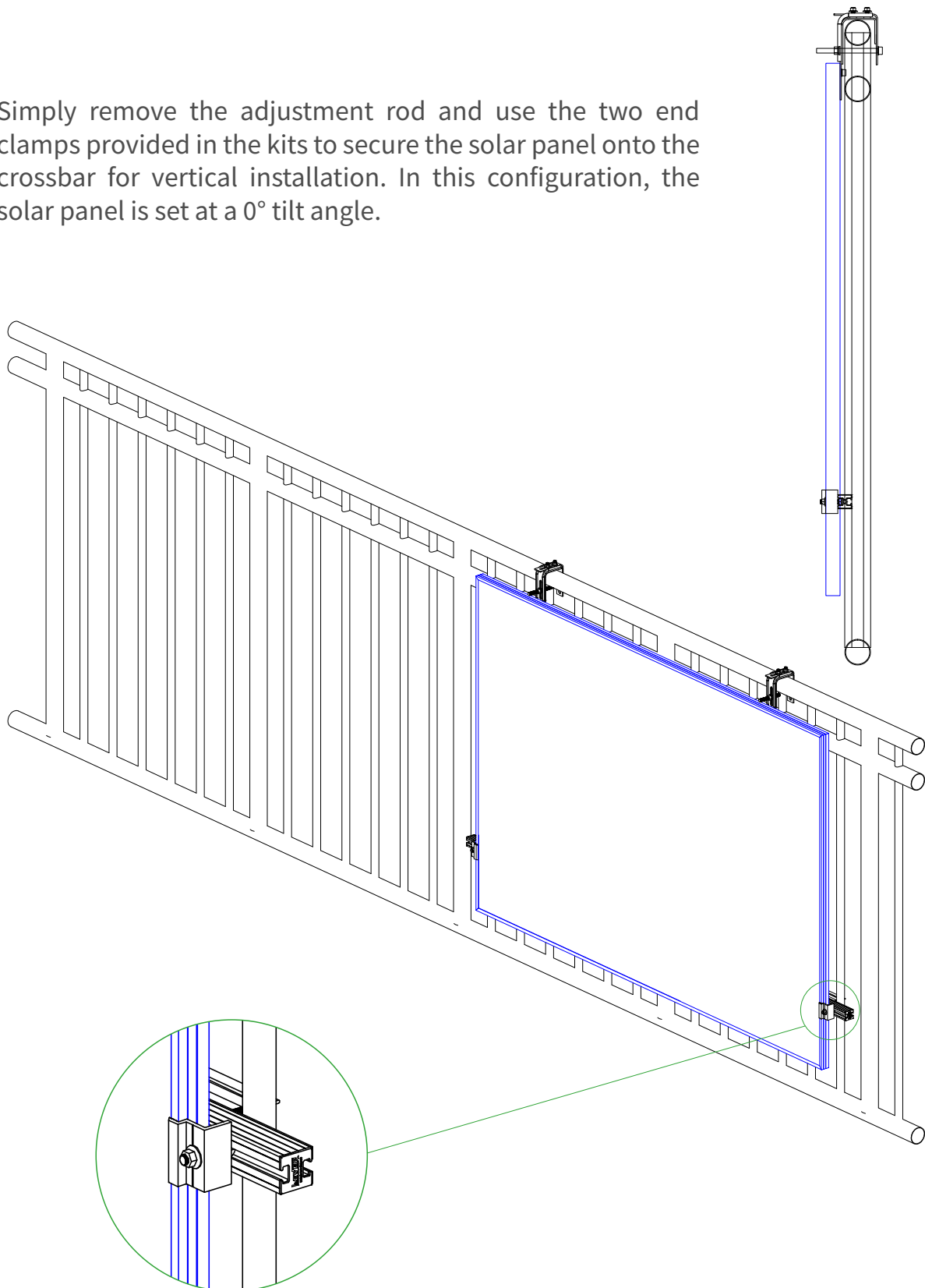


Set the solar panel to the desired tilt angle by adjusting the position of the adjustment rod accordingly.

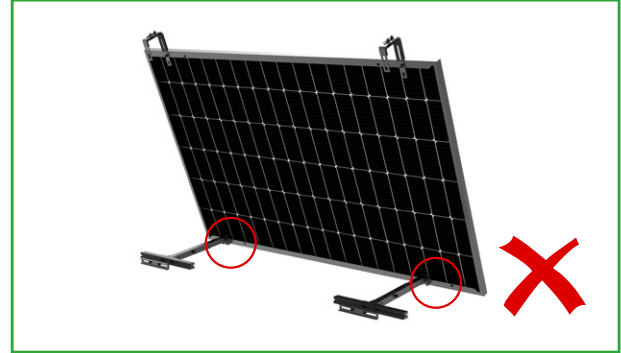
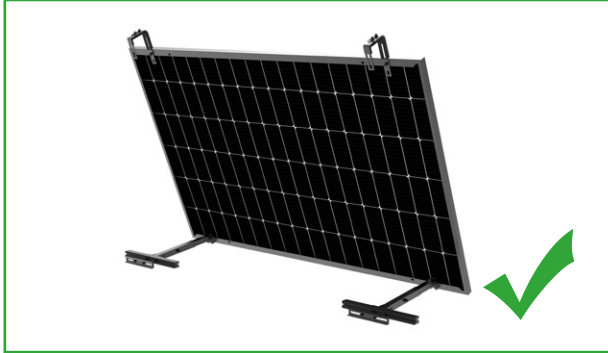
Attention: Once the desired tilt angle is achieved, ensure all bolts on the adjustment rod are securely tightened.

5.6 Other installation methods

Simply remove the adjustment rod and use the two end clamps provided in the kits to secure the solar panel onto the crossbar for vertical installation. In this configuration, the solar panel is set at a 0° tilt angle.



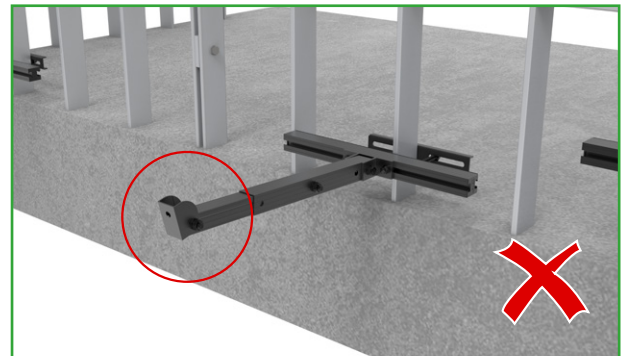
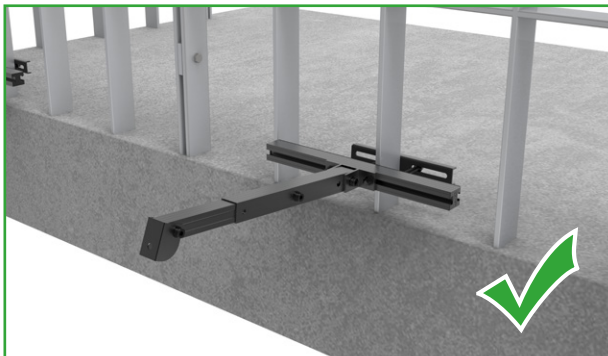
06 Error demonstration



- 1 Do not install in the wrong hole position of the solar panel, as this may result in uneven force on both sides of the panel.



- 2 The crossbar fixings are installed upside down.



- 3 The adjustment rod is installed upside down.

07 Ending

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