

Ultimate Tile Roof Kit- 1# hook Installation instructions



GB | Use

Mounting system for installing framed PV modules with heights between 30 and 50 mm on pitched roofs with the following characteristics:

- Roof pitch 5° - 60° (solar fasteners), 20° - 60° (Roof hooks)
- Single and double roman, plain tile, natural slate, and flat tiles with wooden substructures.
- PV-panel landscape and portrait oriented

Static calculation must exist and be considered according to local regulations.

Installation guidelines

Ensure that the roof construction is suitable for the introduction of forces at the fixing points and their subsequent transmission. In order to compensate thermal expansion, include a break every 12 meters when planning the PV-system. For module positioning/fastening points please refer to manufacturers recommendations. Please follow your local timber construction standard. Please do not use installed roof connections as ladder. If installation is located within 10km from the coast, we advise not to use zinc coated material. For further information please contact your sales representative or the technical department at Hopergy.



The structural stability of the PV-system must be verified before installation. The building must be able to support the additional weight safely.

Installation notes

Please read these installation instructions carefully before starting the installation and familiarise yourself with the system components. During the installation and in particular whilst working on the roof, ensure to work according to the relevant health and safety guidelines, safety guidelines and please follow the current rules and regulations for your corresponding region.

The individual installation instructions are merely recommendations in accordance with the current state of technology and are based on previous experiences of how Hopergy systems can be installed.

If any special characteristics of the roof or object need to be taken into account, we recommend you to consult specialists such as roofers or structural engineers where necessary. Please check that the applied manual which is up to date. All manuals are available in the download area at www.hopergy.com

Testing/certification:

- TÜV
- MCS012 (IK0197)
- ISO 9001

Applicable Documents

"General installation, maintenance and assembly instructions"

"Safety Instructions for Installation Instructions"

"Warranty and Disclaimer."

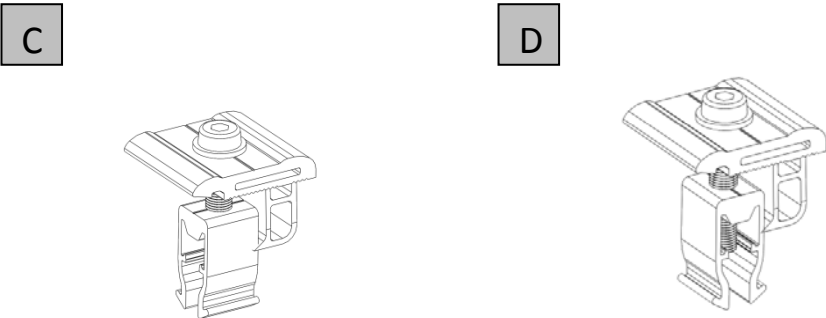
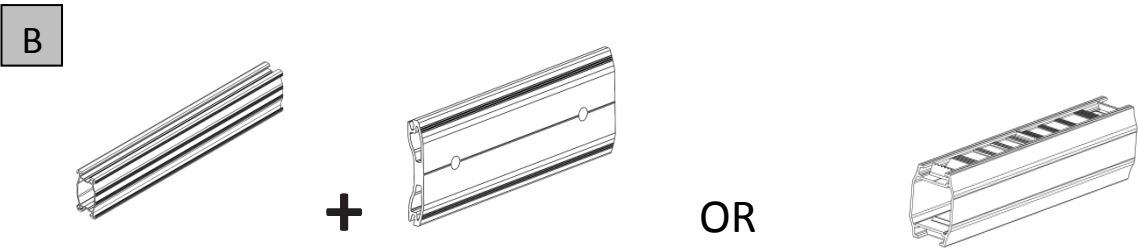
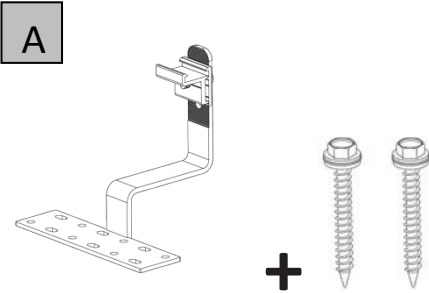
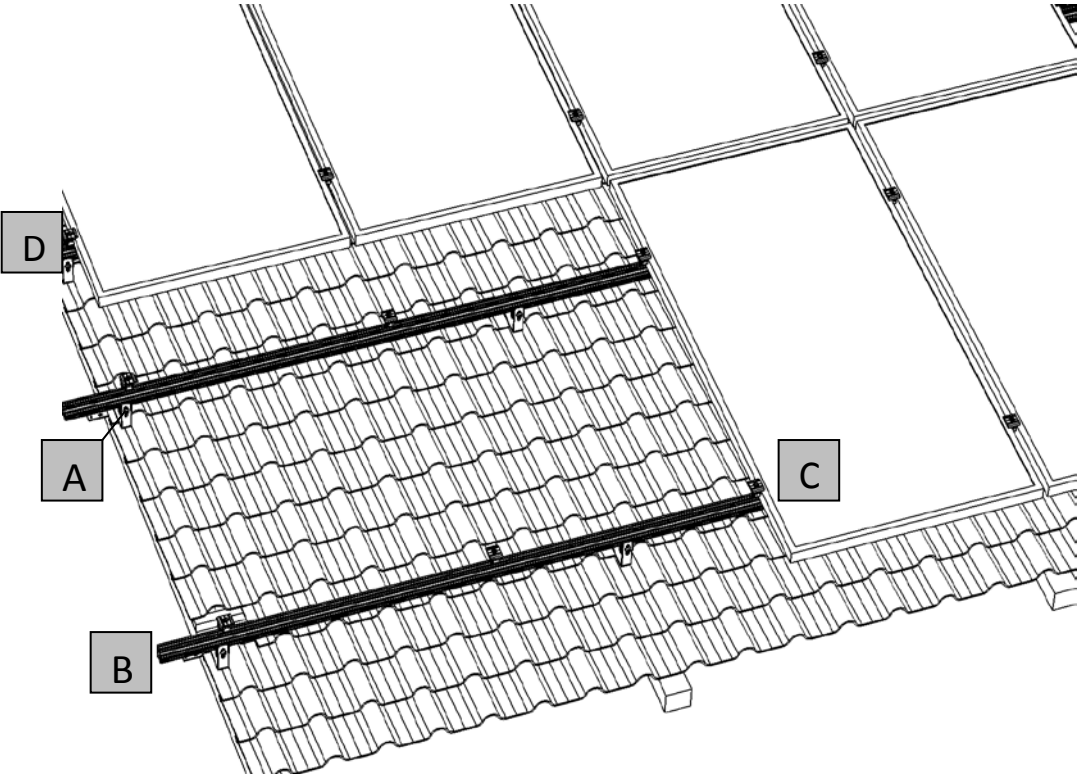
These documents are available at www.hopergy.com

Warranty:

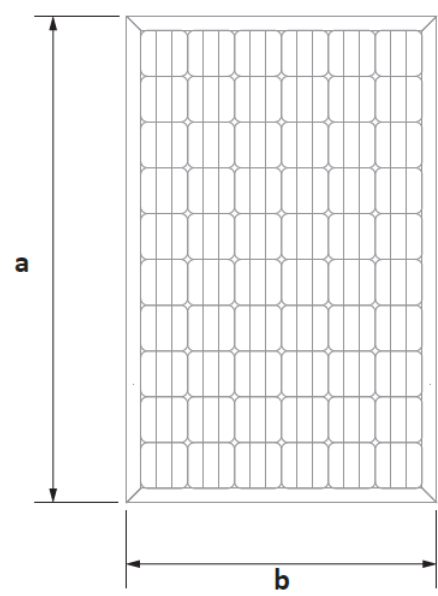
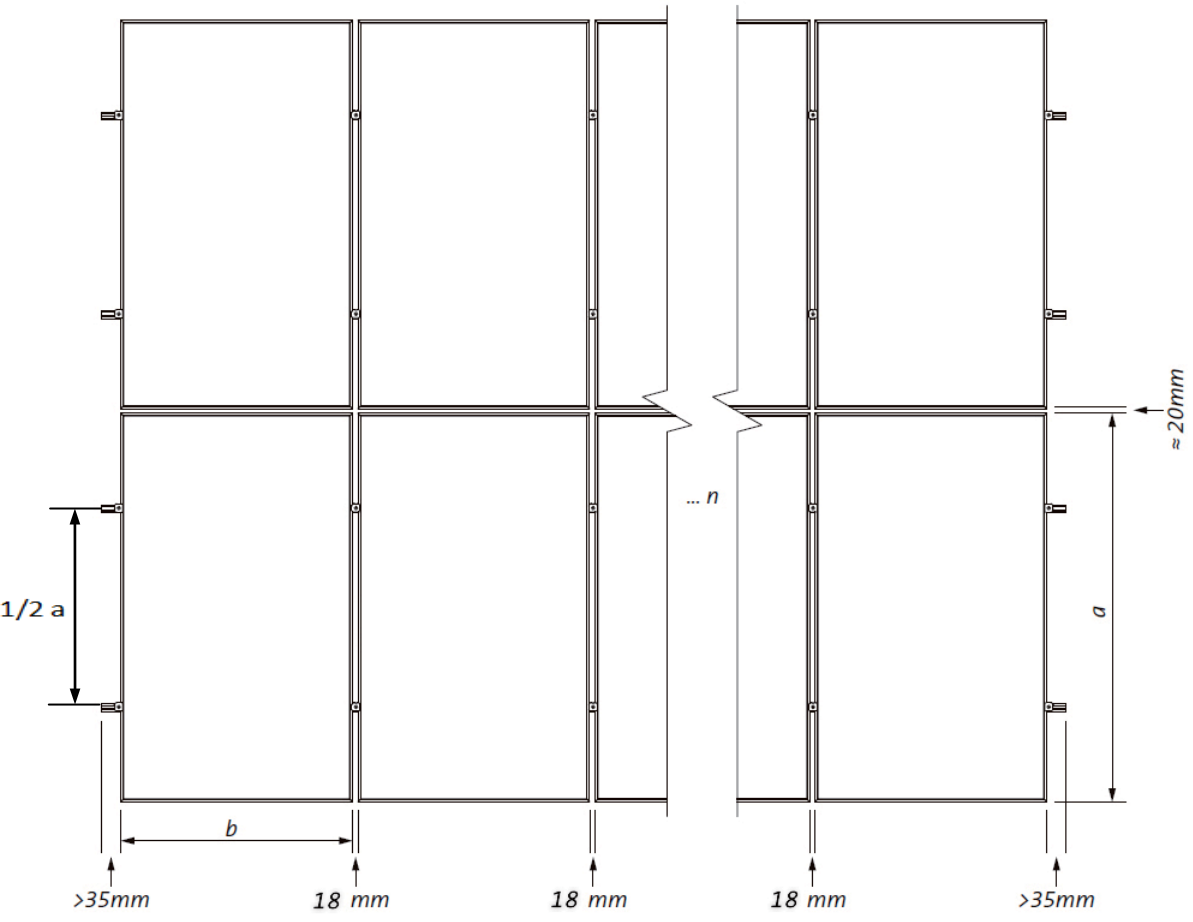
The warranty only applies if an original and complete Hopergy system is used, with a layout designed by Hopergy.

Hopergy is not accountable for the roofs capability to maintain the introduced forces. Please check the roofs compatibility with a static engineer.

Ultimate Tile Roof Kit- 1# hookSystem



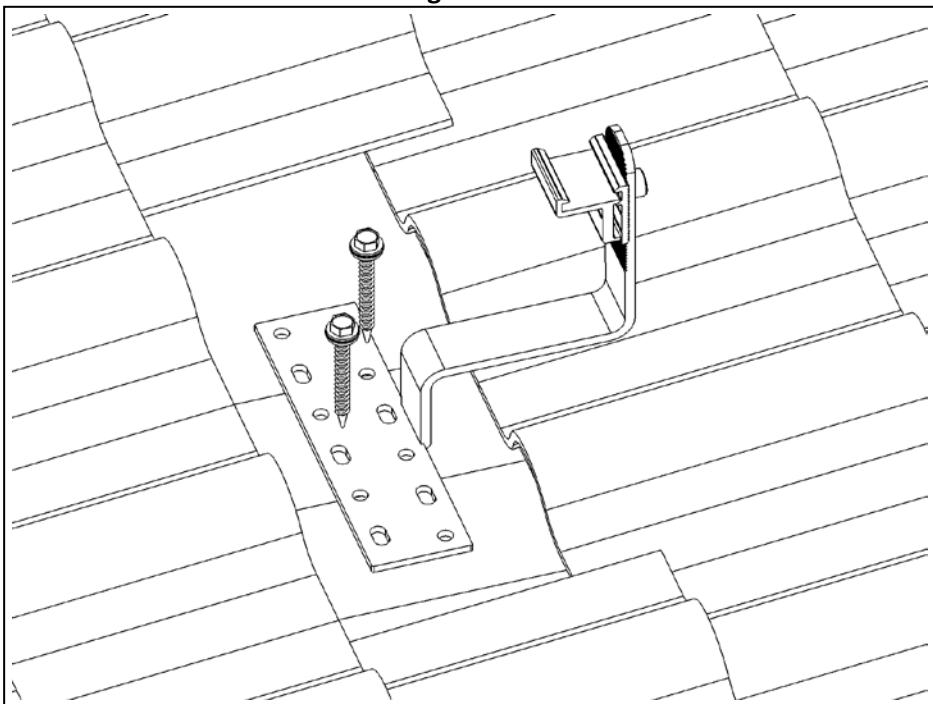
Solar Panels Layout



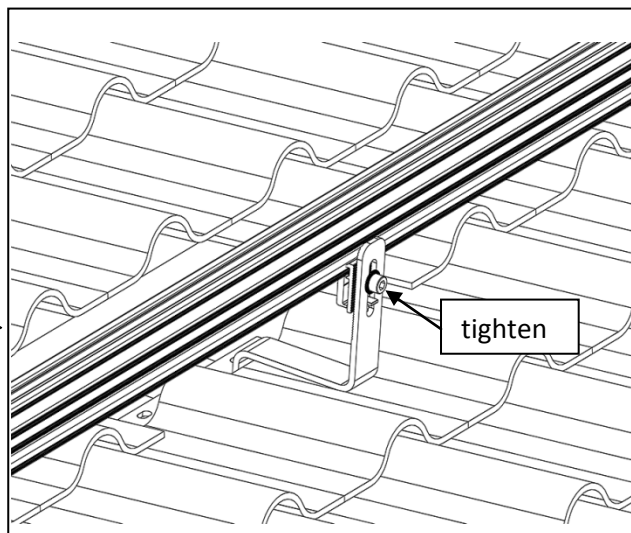
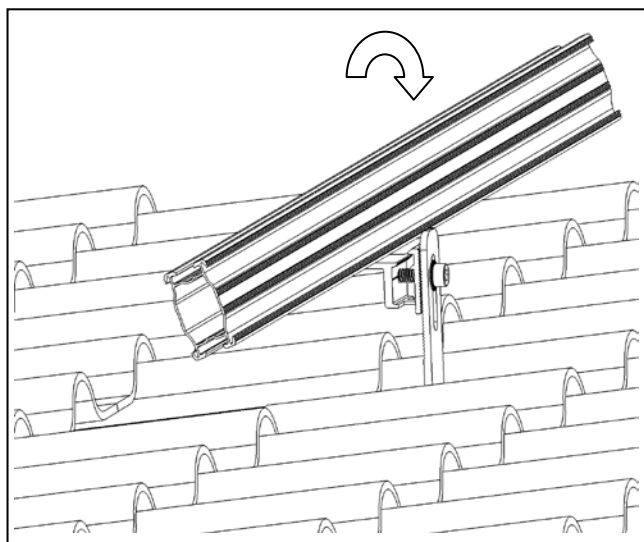
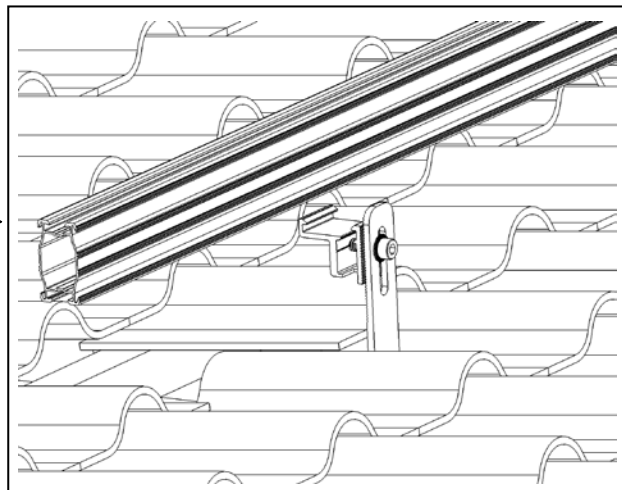
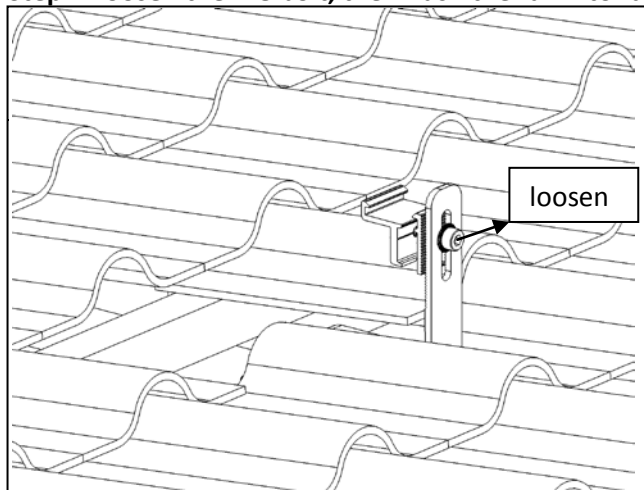
Solar panels layout

Installing Ultimate Tile Roof Kit- 1#

Step.1 Use ST6.3*80 Timber screws to installing the hook

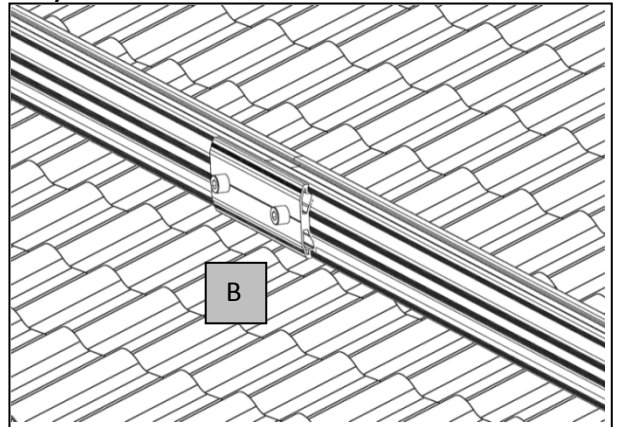
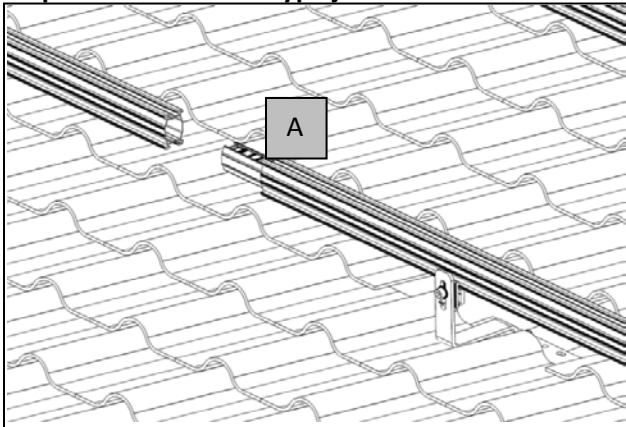


Step.2 Loosen the M8 bolt, then Push the rail into rail

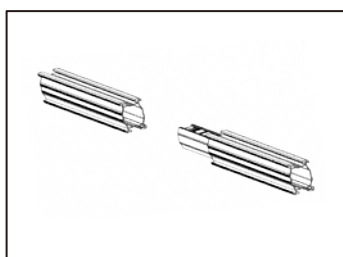
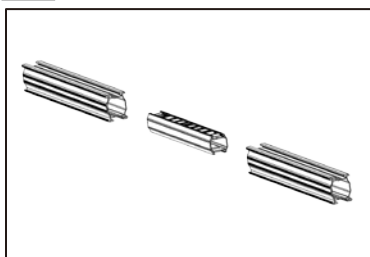


Installing Ultimate Tile Roof Kit- 1#

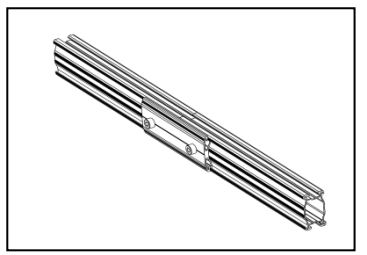
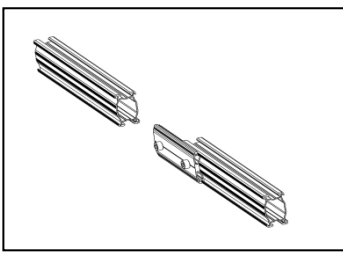
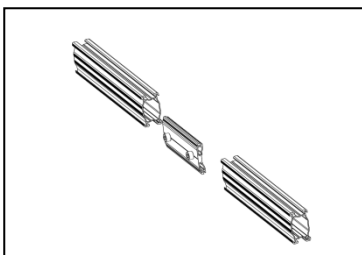
Step. 3 There are two type joiner for the ultimate rail. (A and B).



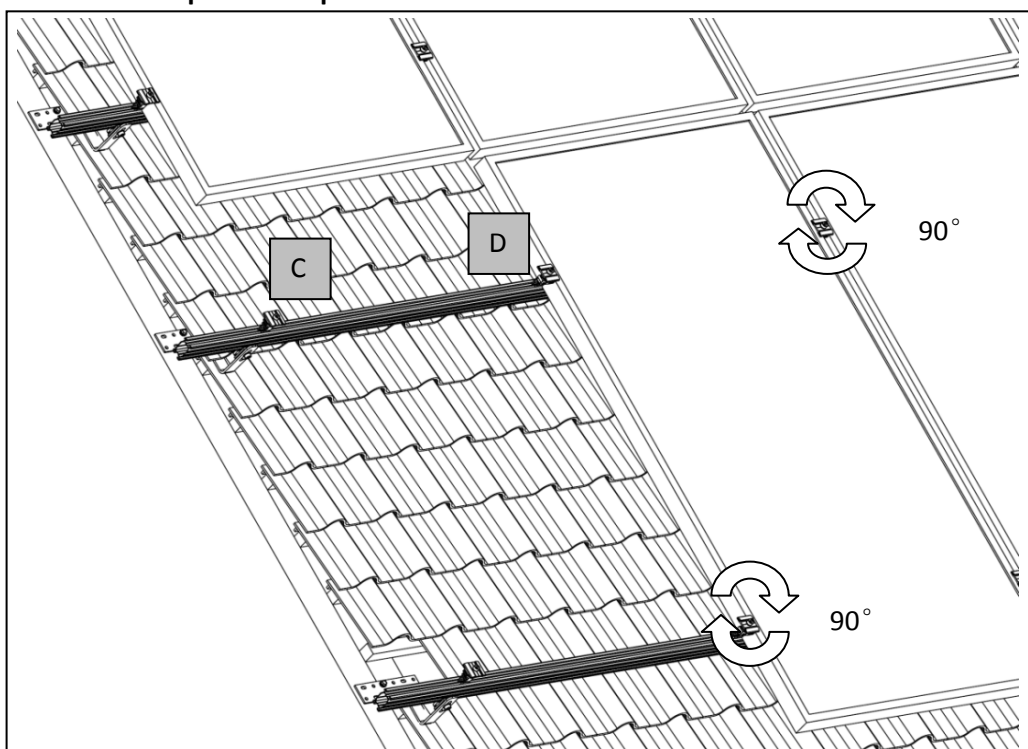
A



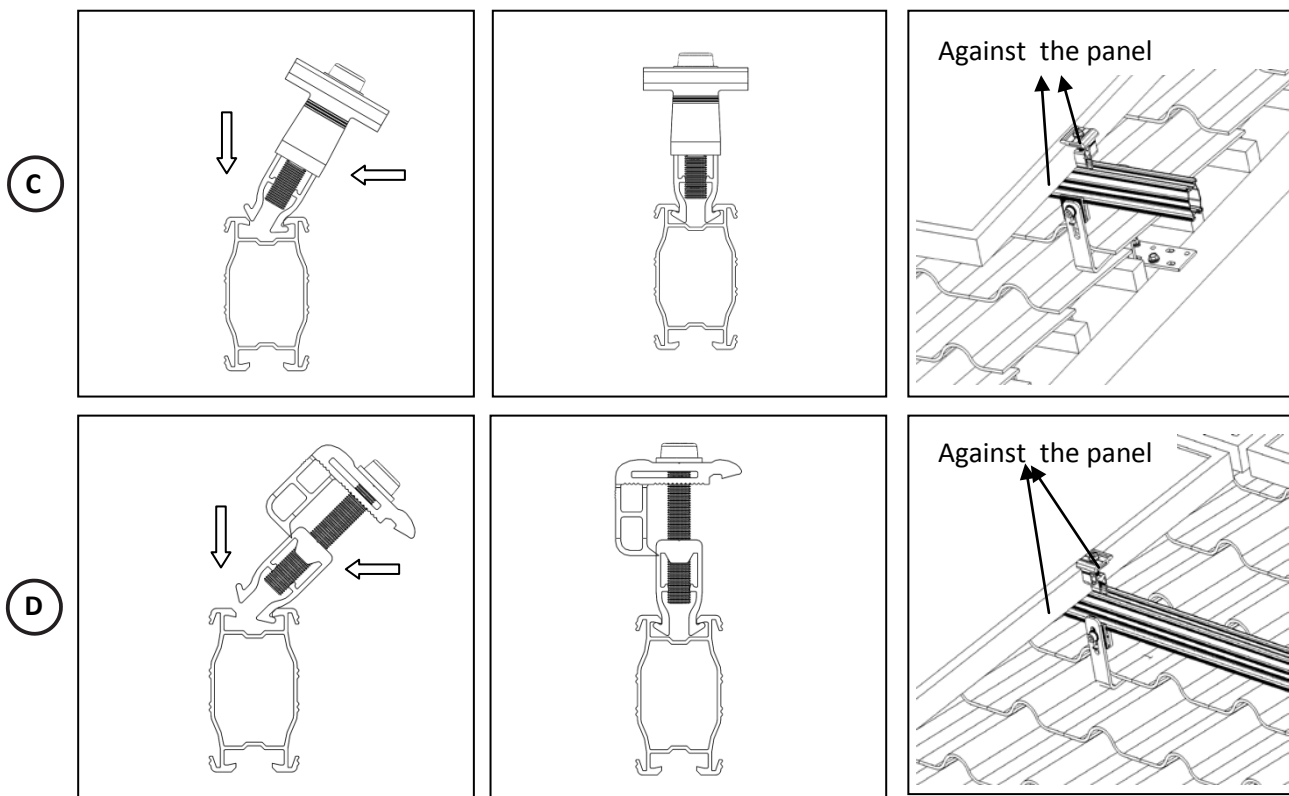
B



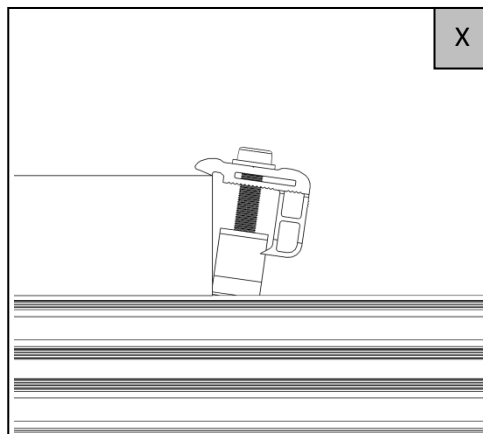
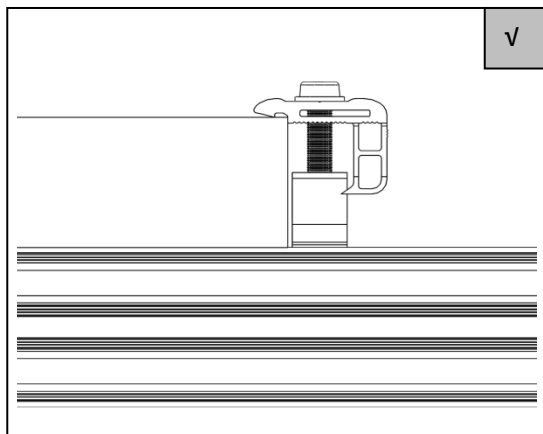
STEP.4 install ultimate panel clamps.



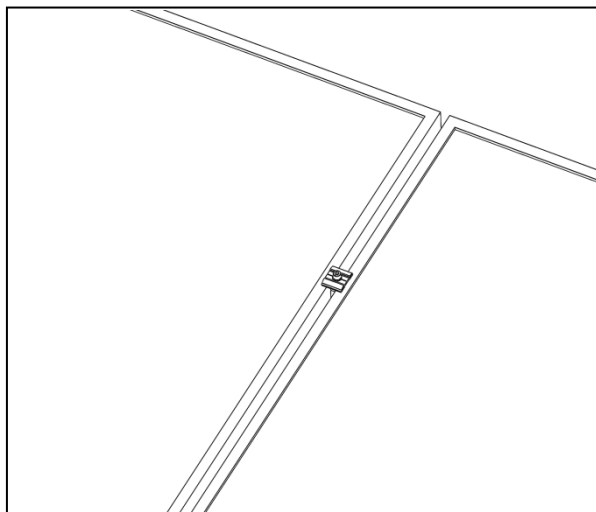
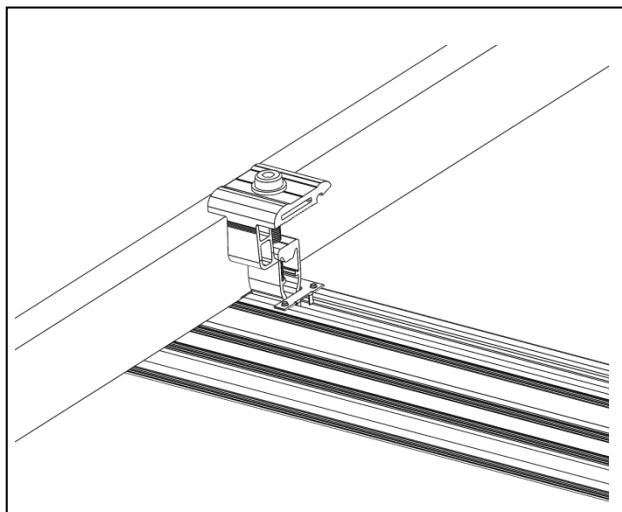
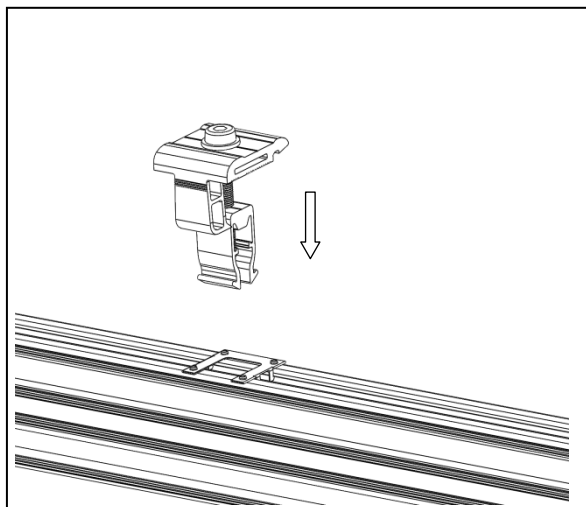
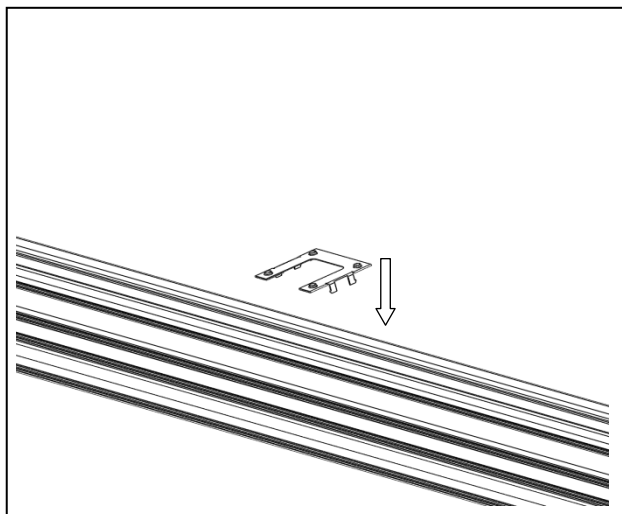
Installing Ultimate Tile Roof Kit- 1#



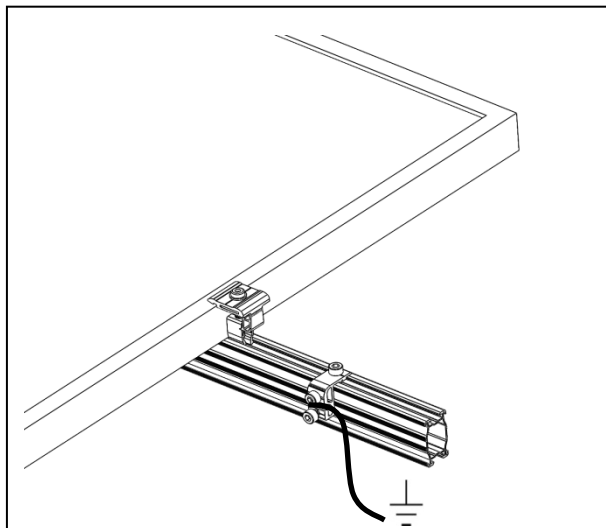
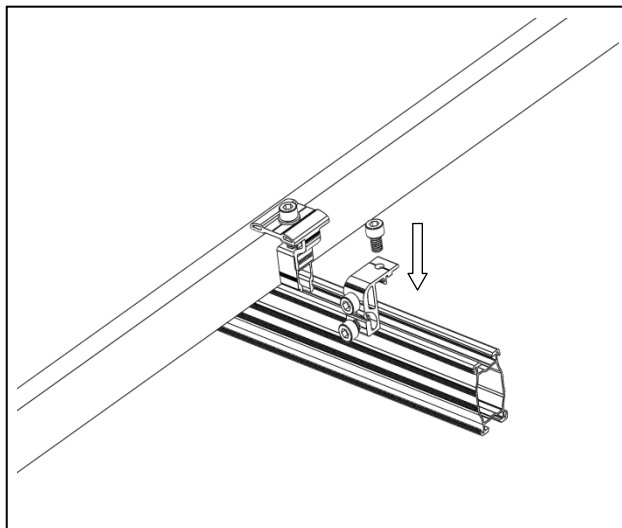
Attention: 1.The panel clamps close against the solar panel.
2.Tighten the bolt slowly, until the clamp in holding position.
3.Then use 6-8N.M torque to tighten the bolt.



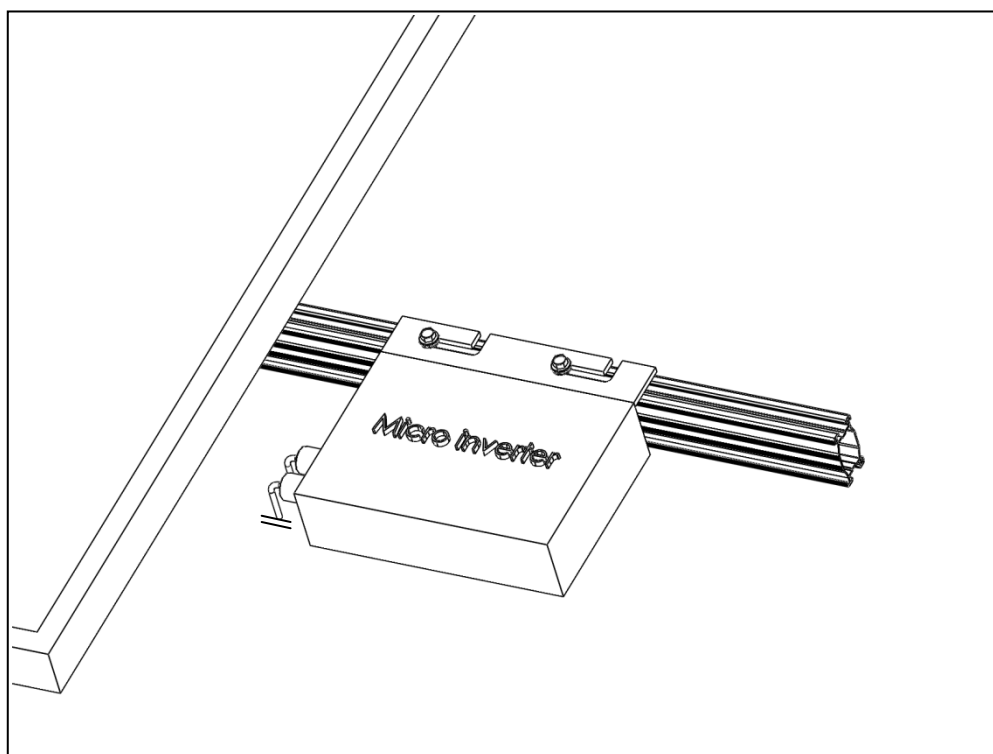
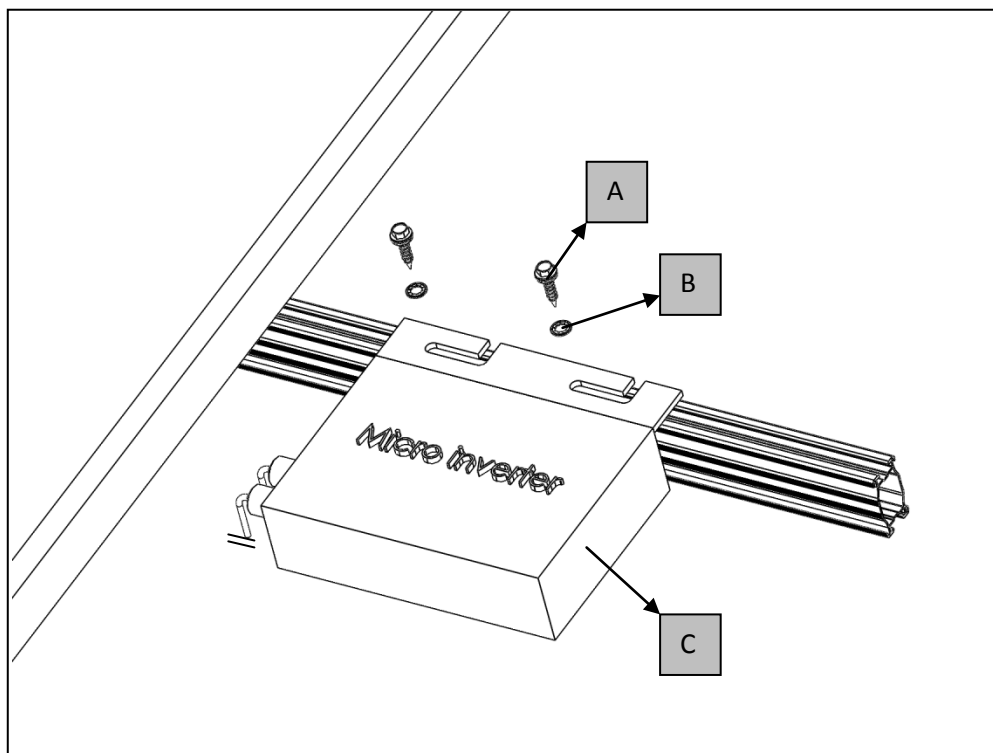
option 1. Ultimate Earthing Plate



option 2. Ultimate Earthing Lug



option 3. Micro inverters

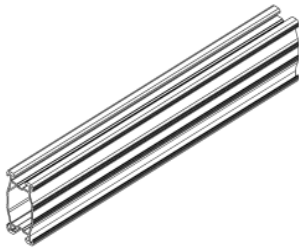
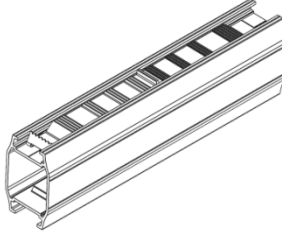
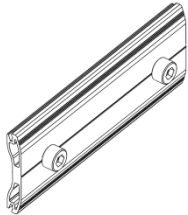
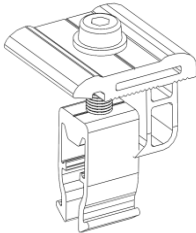
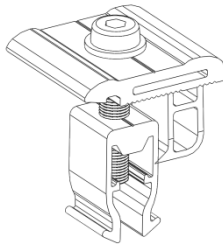
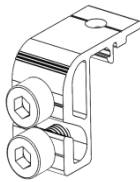
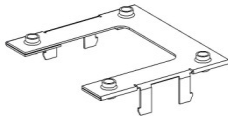
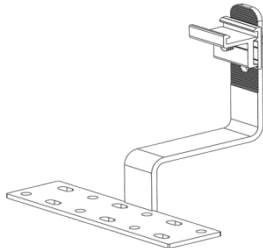


Ⓐ ST6.3*25 Timber screws

Ⓑ M8 Earth washers

Ⓒ Micro inverter

Components

Part name	ULTIMATE Rails	Inter Rail Connector	Outer Rail Connector
Part No.	HOP-F26-0000	ULT-ISK	ULT-SSK
Figure			
Part name	end clamp	inner clamp	Ultimate Earthing Lug
Part No.	ULT-UCS	ULT-UCS	ULT-ELG
Figure			
Part name	Ultimate Earthing Plate	Ultimate Hook Unit #1	
Part No.	ULT-EPL	ULT-TRH-01	
Figure			



XIAMENHOPERGYPHOTOVOLTAICTECHNOLOGYCO. LTD.

Address: 630 Tonghong Road, Tongan District, Xiamen 361100 CHINA

Phone :+86-592-5689685 Fax : 86-592-5638096

Mail : info@hopergy.com Web : www.hopergy.com