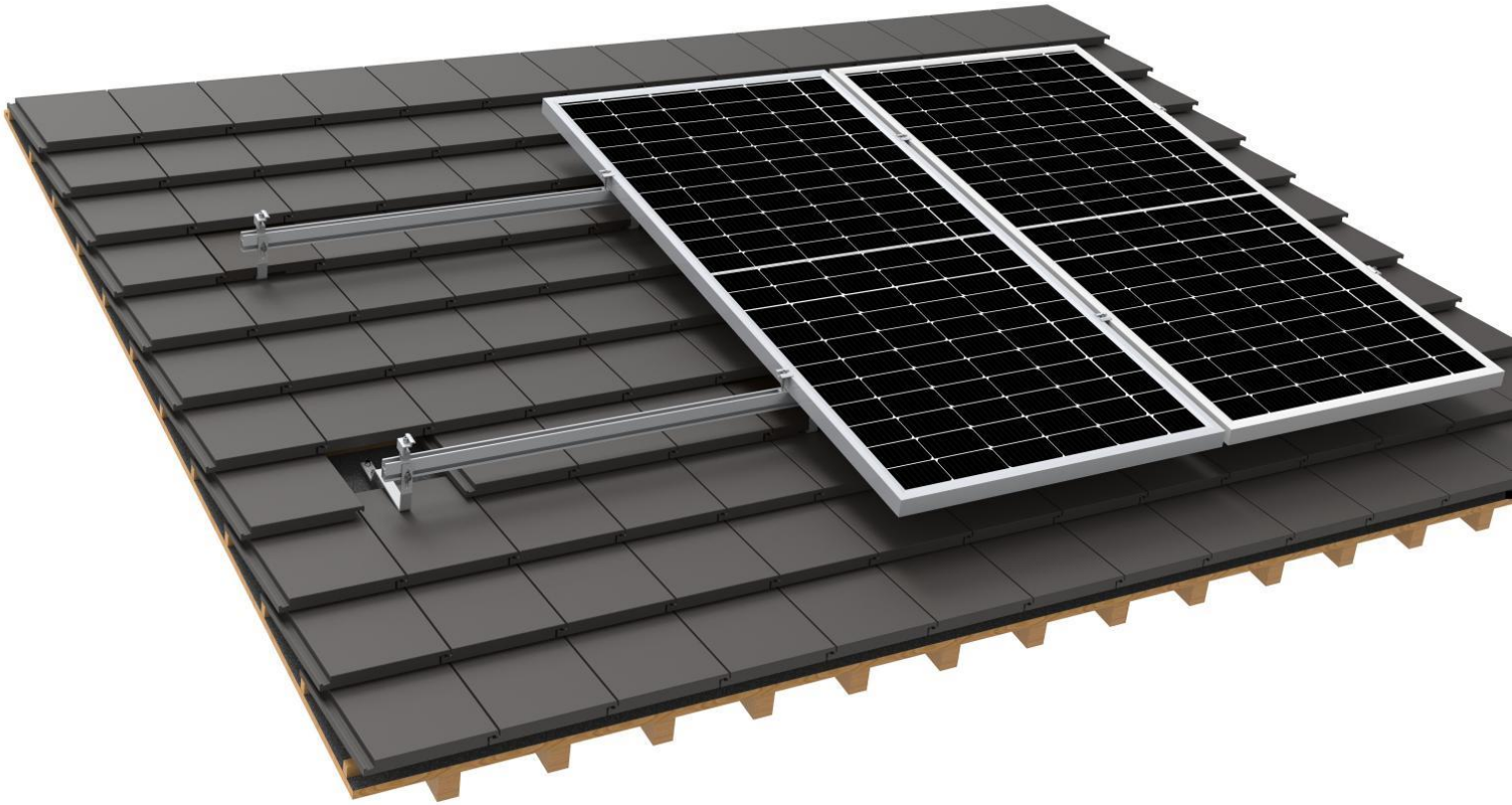


ANYROOF



# Mounting procedure

*AnyRoof H1-1 Hook*

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## 1. Introduction

This manual provides important guidelines and safety information relating to the installation of solar modules using AnyRoof mounting products. Please read these guidelines carefully and strictly follow the instructions. Failure to follow these instructions may result in injury or property damage. The installation and handling of PV modules requires professional skills and should only be performed by qualified professionals. Please retain this manual for future reference.

The latest version can be downloaded from [www.anyroof.co.za](http://www.anyroof.co.za).

### 1.1 INSTALLATION MANUAL DISCLAIMER

The information contained in this manual is subject to change by AnyRoof without notice. AnyRoof gives no warranty of any kind whatsoever, either explicitly or implicitly, with respect to the information contained herein.

### 1.2 LIMITATION OF LIABILITY

AnyRoof shall not be held responsible for damages of any kind, including – without limitation – bodily harm, injury or damage to property, in connection with PV module installation or compliance or non-compliance with the instructions set forth in this manual.

### 1.3 GENERAL SAFETY

Installation work must only be carried out by adequately trained personnel or qualified installers. Ensure that each installation location is serviced by at least two installers for timely rescue in the event of an accident.

#### 1.3.1 Training

Installation personnel should:

- Have the skills, knowledge and training in the installation of PV mounting systems
- Have the necessary literary skills to follow this installation manual in order to safely carry out the required installation procedures
- Have the required skills to operate the tools required to perform the installation
- Be physically and mentally fit for the task
- Never attempt installation work while under the influence of drugs or alcohol

## 1.3.2 Safety Equipment

The installation team must be equipped with safety harnesses, helmets, gloves, safety ropes and other equipment to adequately protect personnel from accidents. Each member of the team must be protected against direct contact with 30 V DC or greater. Protect hands from sharp edges.

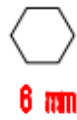
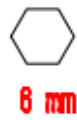
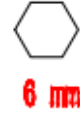
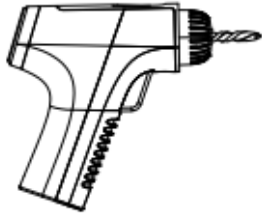
**WARNING:** Remove all metallic jewelry to prevent accidental exposure to live circuits.

## 1.3.3 Site Preparation

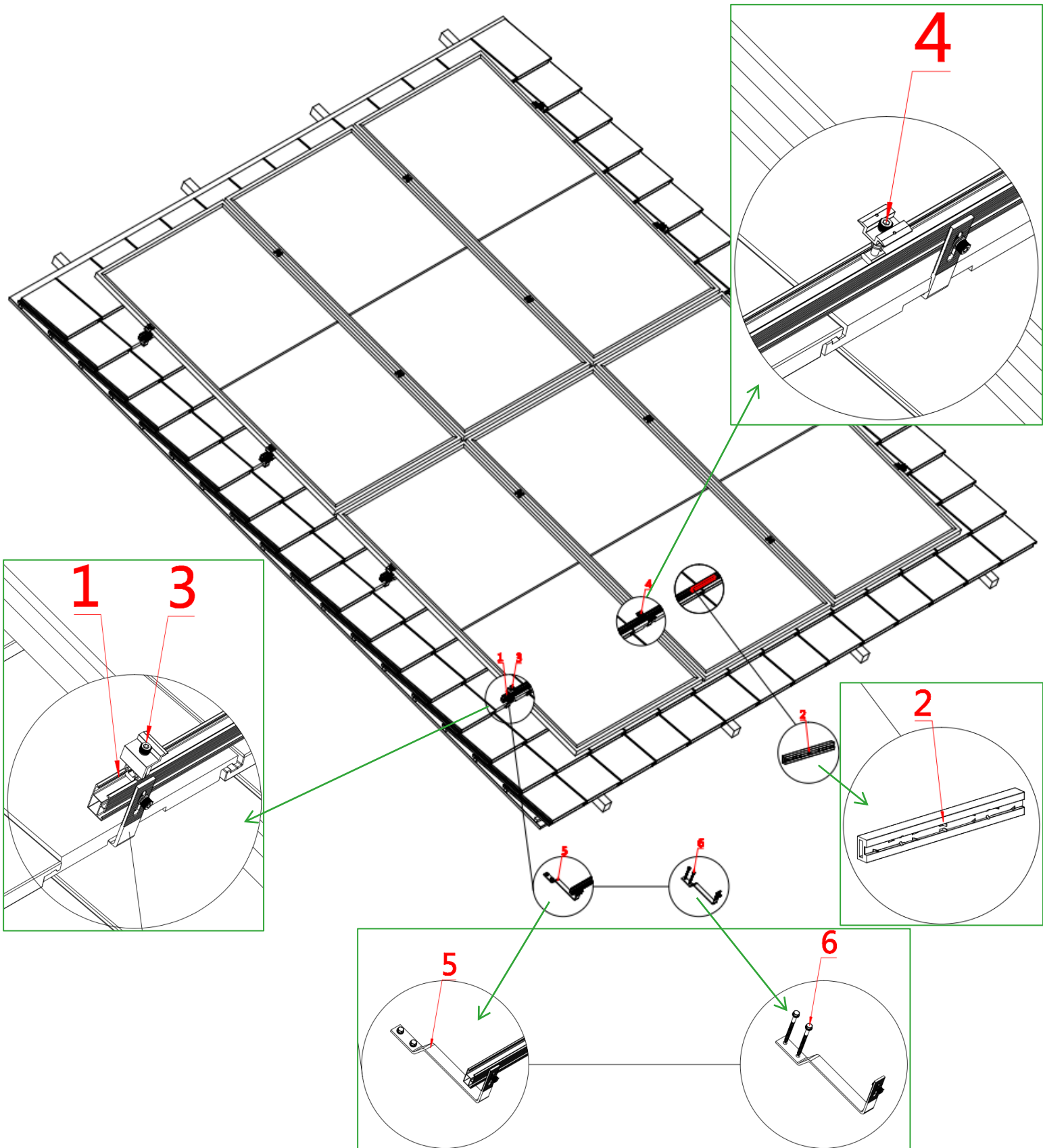
During installation, the site must be closed to the public. At least one copy of the installation instructions must be available at the installation site. Take the following extra precautions:

- When installing modules in light rain, morning dew, take appropriate measures to prevent water ingress into the connector.
- Do not allow children or unauthorized persons near the installation site or storage area of modules.
- Do not install modules in strong wind.
- Use electrically insulated tools to reduce the risk of electric shock.
- If the disconnects and Over Current Protection Device (OCPD)'s cannot be opened or the inverter cannot be powered down, cover the fronts of the modules in the PV array with an opaque material to stop the production of electricity when installing or working on a module or wiring.
- Do not use or install damaged modules.
- Contact with module surfaces or frames may cause electric shock if the front glass is broken or the back sheet is torn.
- Keep the junction box cover closed at all times

## 2. WHAT YOU NEED: Tools overview



## 3. Component introduction



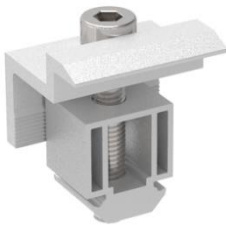
① Mounting rail | 5801401



② Rail connector | 7801401-C



③ End clamp | 7817301



④ Mid clamp | 7817401



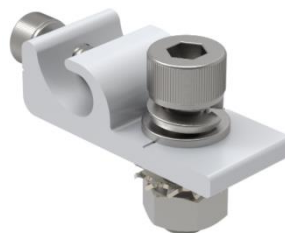
⑤ Roof hook | 7840003



⑥ Screw

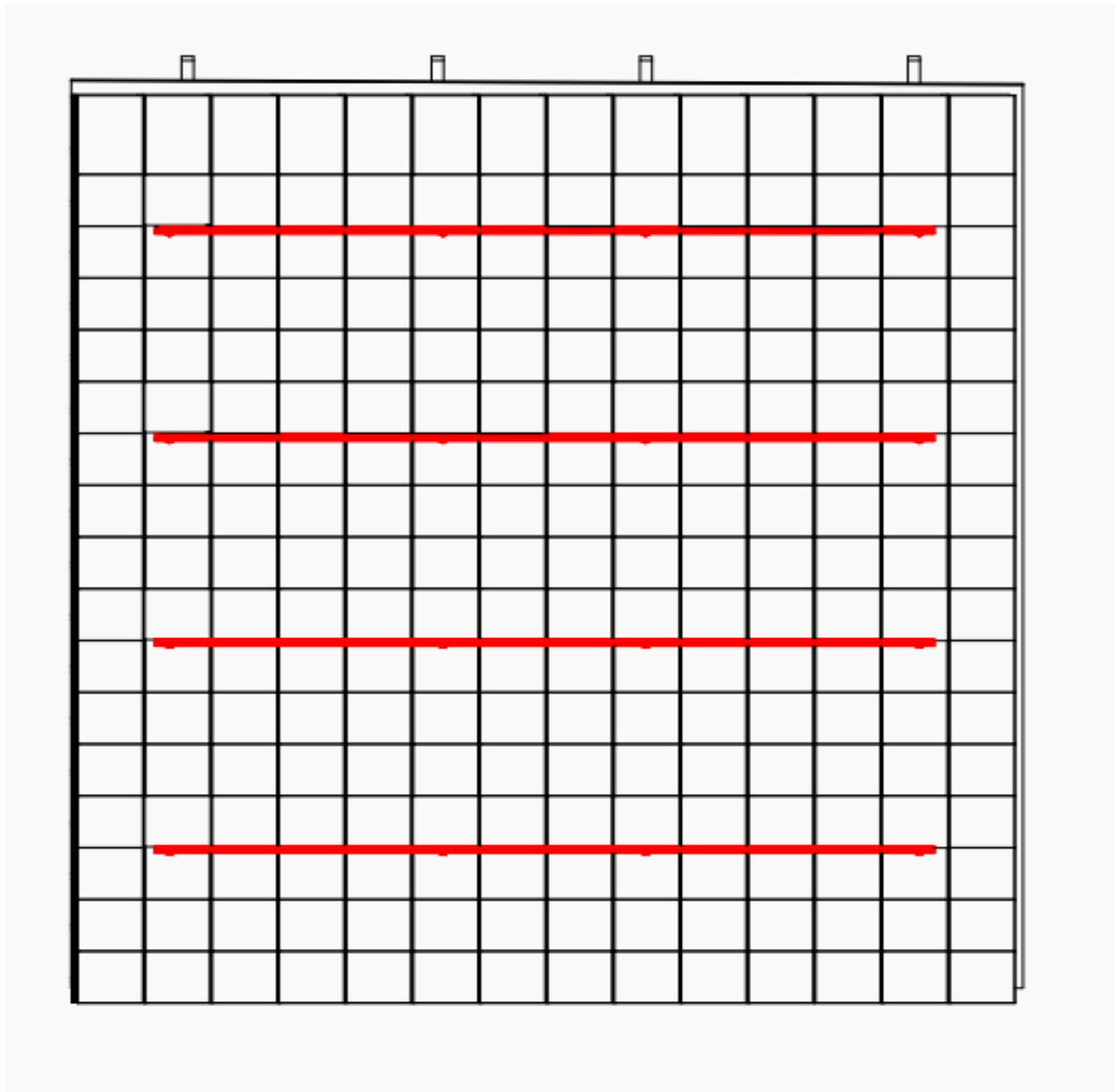


⑦ Ground lug | 7830304



## 4. Installation Planning

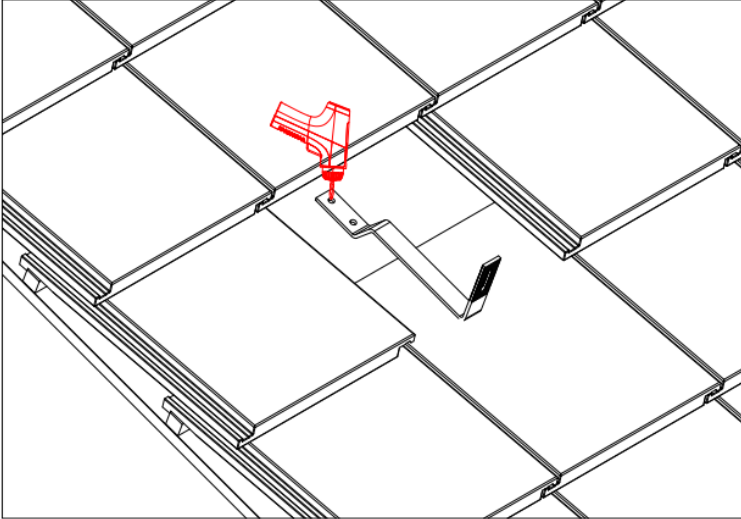
- 4.1 Measure the roof dimensions
- 4.2 Measure the spacing between the rafters
- 4.3 Plan spacing between mounting points, make sure the mounting points are on the rafters.



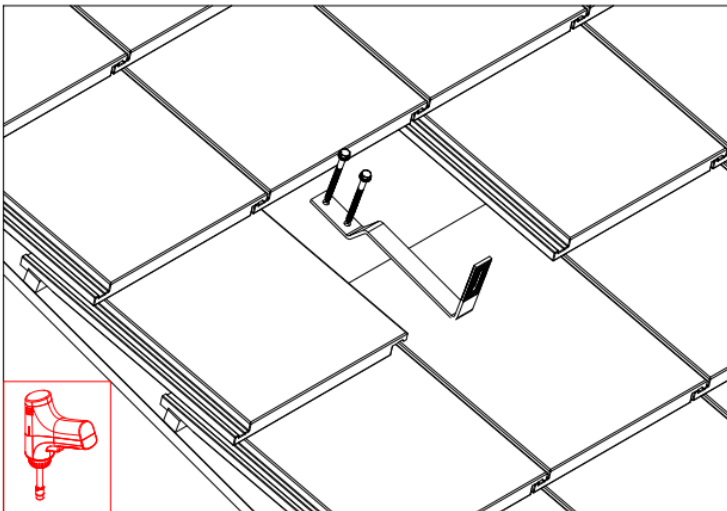


## 5. Installation steps

### 5.1 Install the solar tile hook

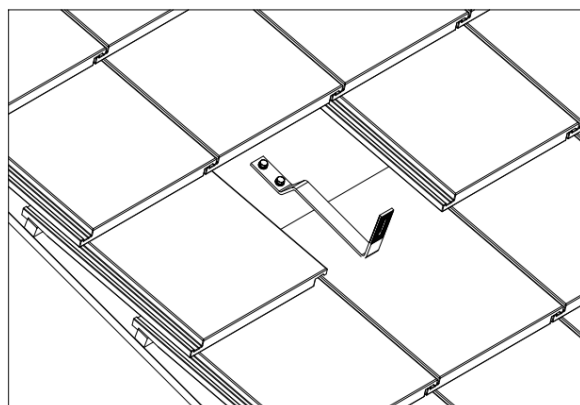
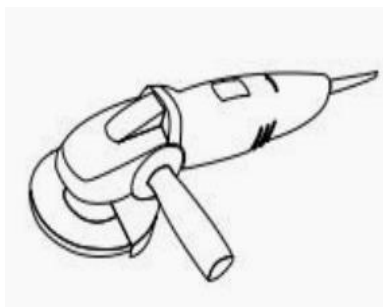


① Place the hook at the mounting point and pre-drill the mounting holes on the right rafters.

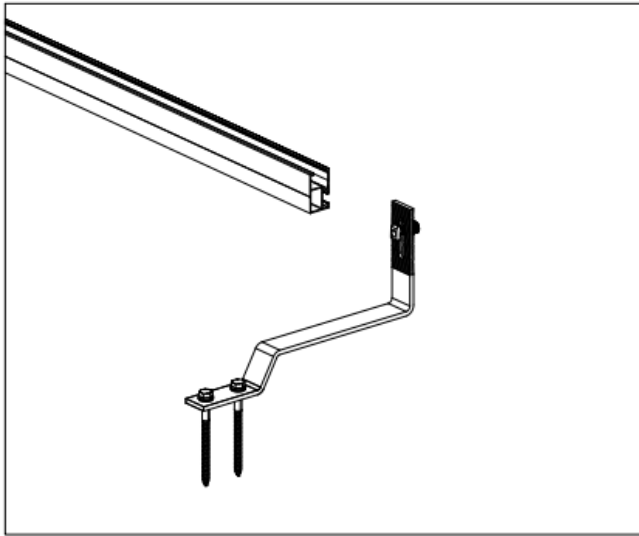


② Install the wood screws at the pre-drilled mounting holes to fix the tile hook.

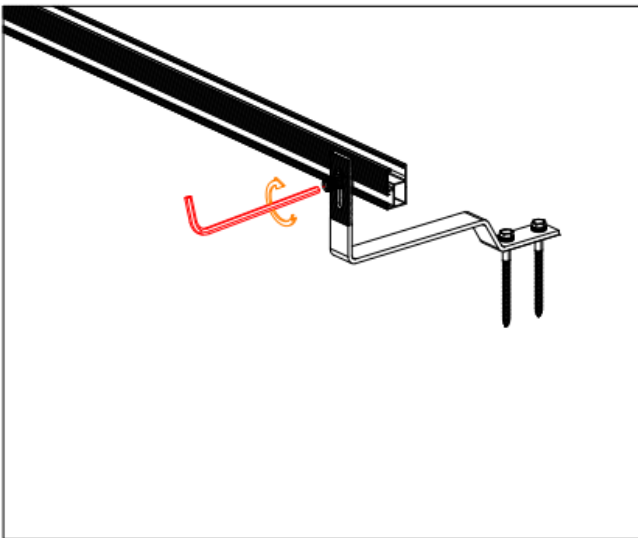
③ Use a polisher to properly sand the removed tile, make it match the hook and re-cover the tiles in their original position.



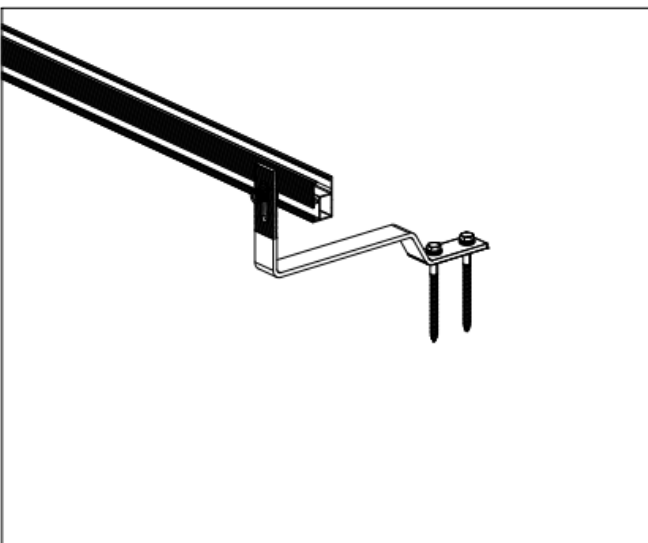
## 5.2 Install the solar mounting rail



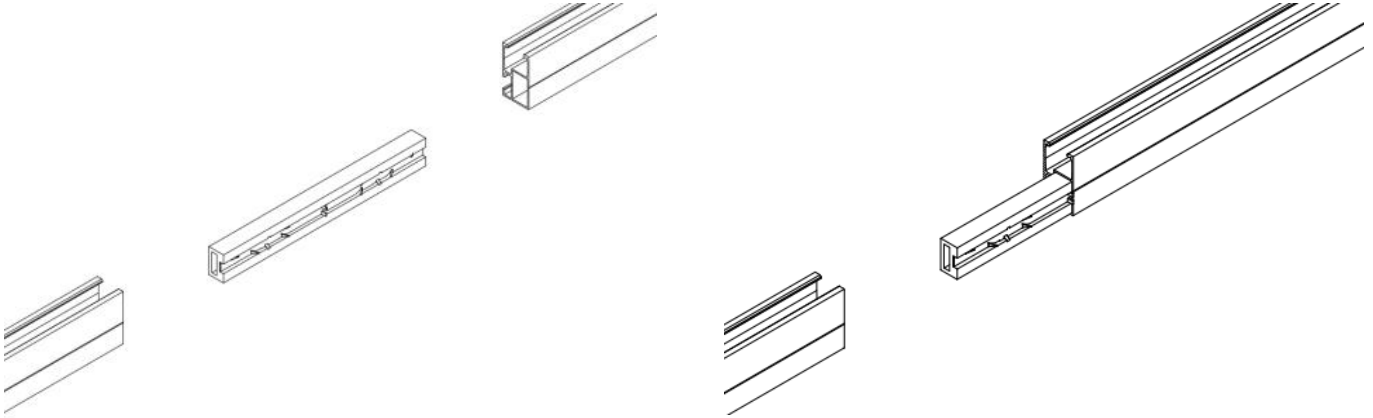
④ Align the rail and hook horizontally, and use rail fastener to connect the rail and hook.



⑤ Tighten the bolts with a hex wrench

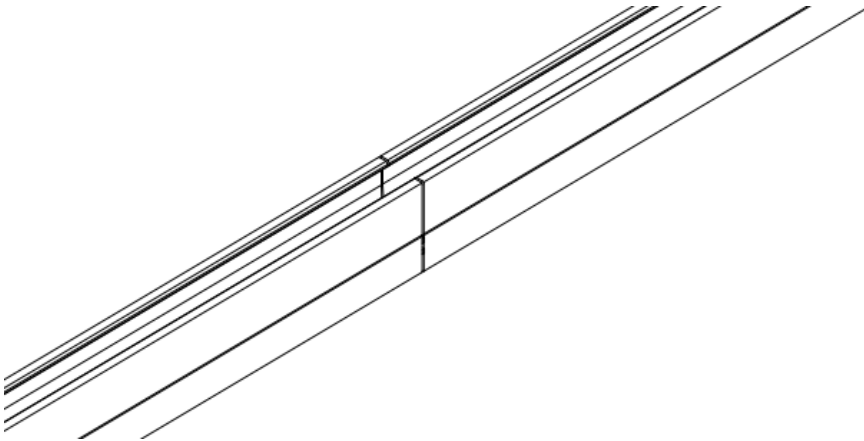


⑥ Check whether the rail is tight and whether it is tilted



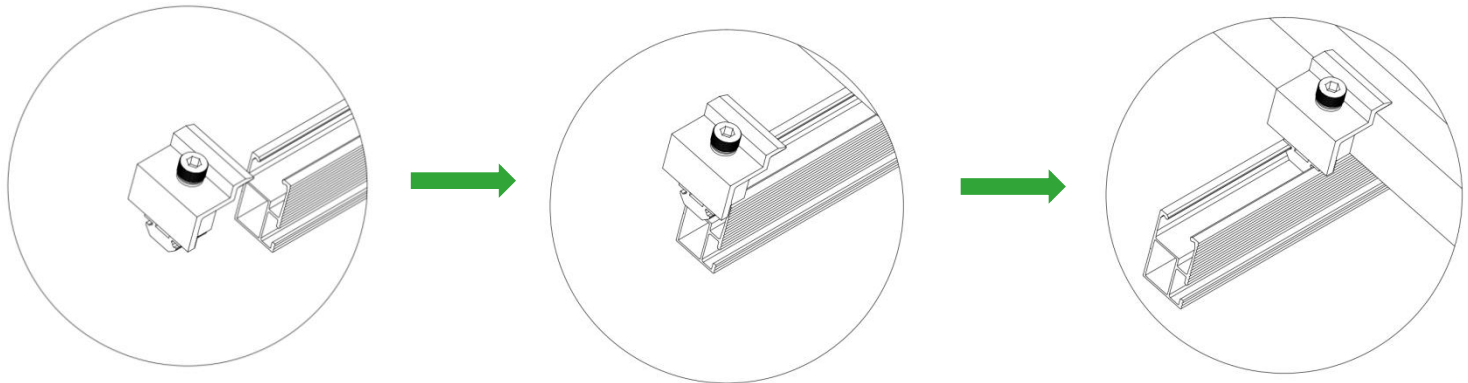
⑦ Use rail splice to connect two pieces of rails

⑧ Insert the rail connector into one end of the rail until the rail

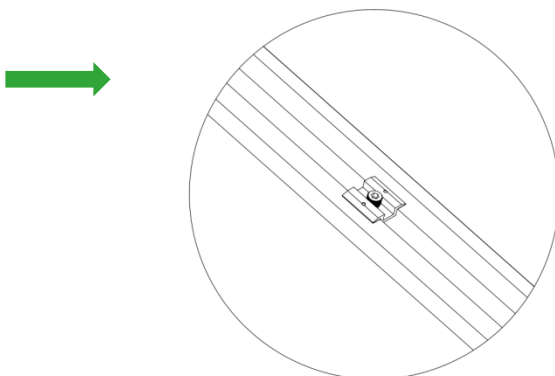
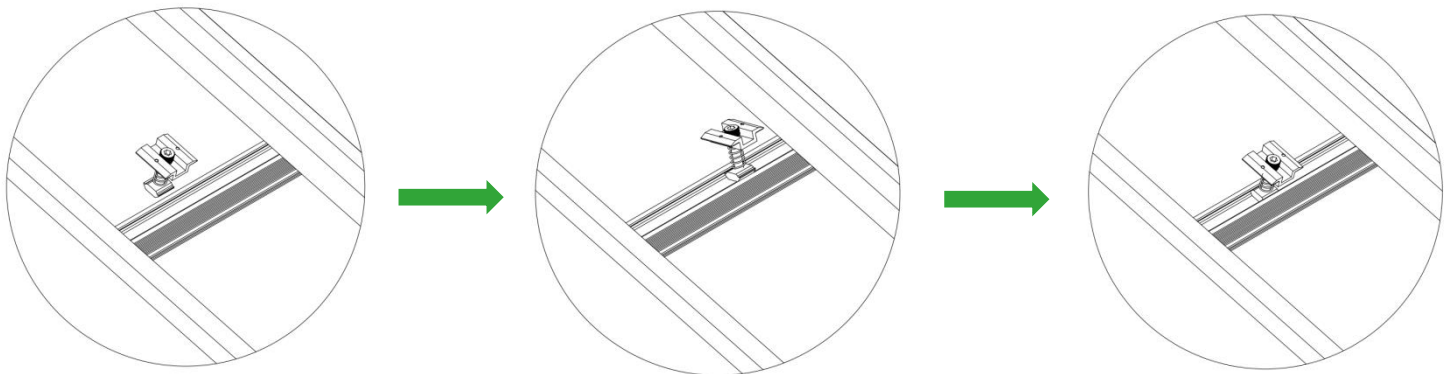


⑨ Insert the rail connector into one end of the rail until the rail reaches the anchor point on the rail connector.

## 5.3 Install the solar panel clamps



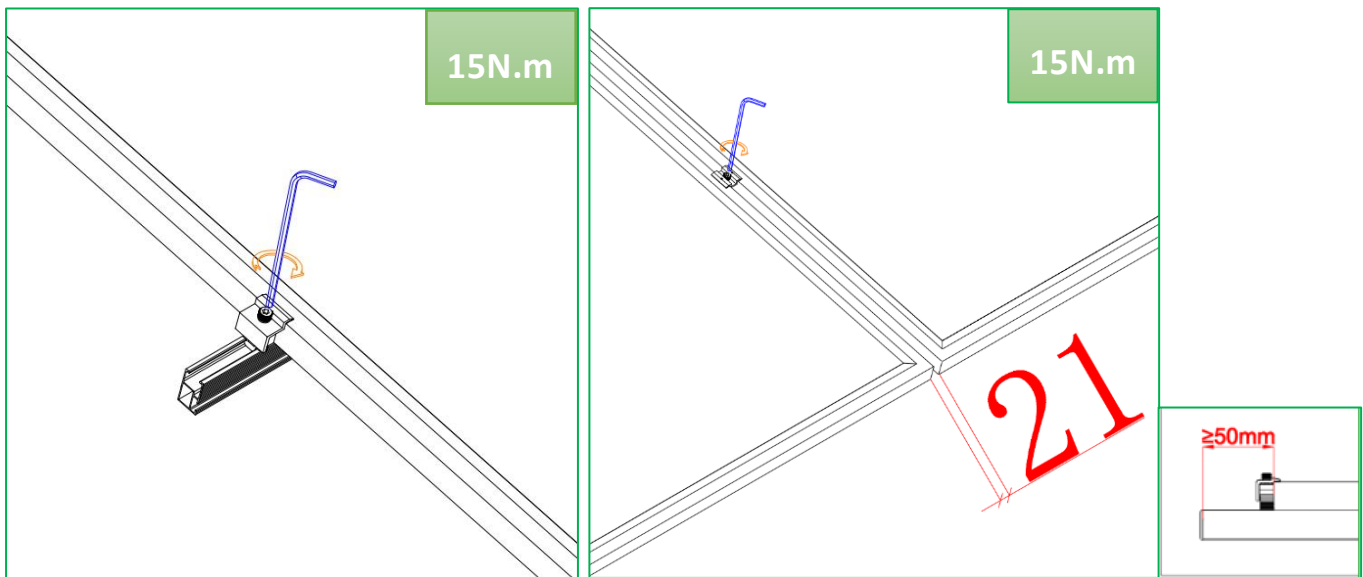
End clamp



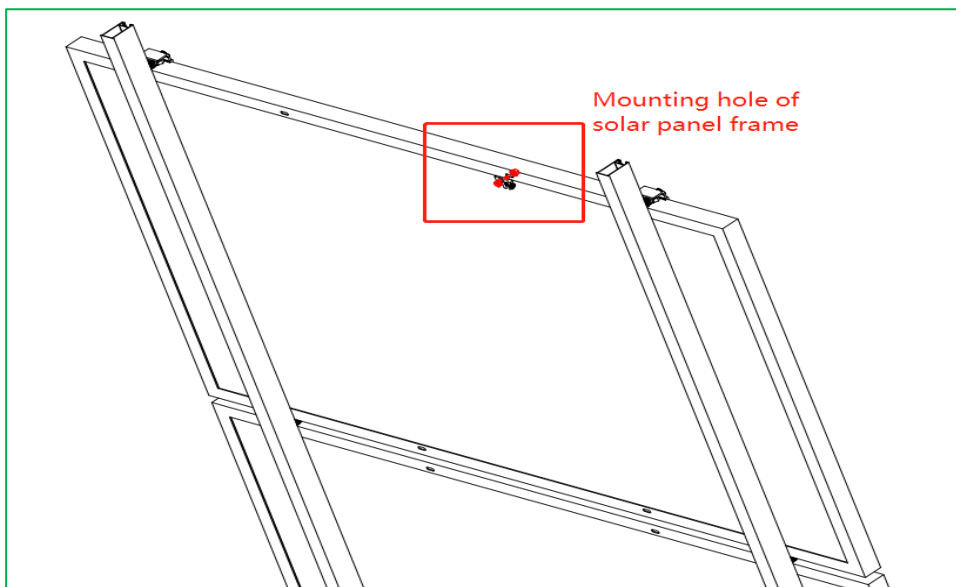
Mid clamp

⑩ Tilt the solar panel clamps lightly so that one side of the nut snaps into the rail, then make another side of nut snaps in to the rail. Keep the bolts of the panel clamp loosening.

## 5.4 Fix the solar panels and Ground lug

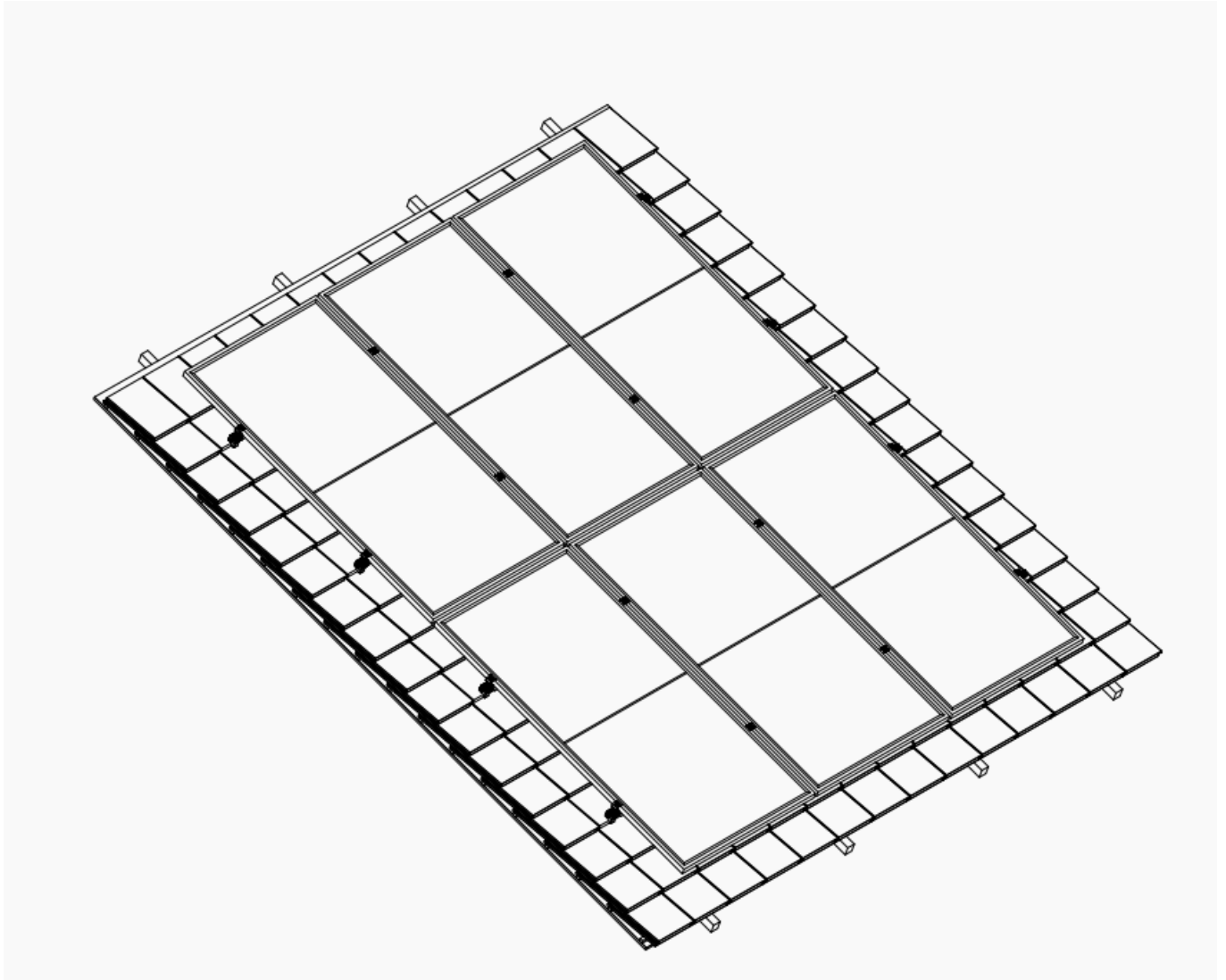


- ⑪ Place the panel assembly on the rail, moving the solar panel and panel clamps to make the aluminum frame of the solar panel is pressed by the mid clamp and end clamp. Adjust the solar panels to the right position, then tighten the bolt of mid clamp and end clamp.



- ⑫ Install the Ground lug to the panel frame and tighten the bolts

# ANYROOF



Congratulations you have successfully completed the installation!

Thank you for choosing AnyRoof Products.

Distributed by Emcon Energy  
Unit N7 Athlone Industrial Park  
10 Mymoena Crescent  
Athlone Industria 2  
Cape Town  
7764

Tel +27 (21) 001 7720  
E-mail: [info@emconenergy.co.za](mailto:info@emconenergy.co.za)  
[www.anyroof.co.za](http://www.anyroof.co.za)