

## pylar **Tile Roof Installation Guide** **Standard Tile Hook**



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## 1. Production Introduction

The pylar Tile Roof Hook System is designed to accommodate all types of tiles in solar roof mounting projects. The fasteners are uniquely crafted to facilitate easier and quicker installation using simple tools. Before commencing construction, carefully review our installation instructions provided in this manual. Our company strictly adheres to standard product structure design. During roof installation, ensure compliance with local safety standards and regulations. For the latest installation manual, visit our website.

The installer assumes sole responsibility for:

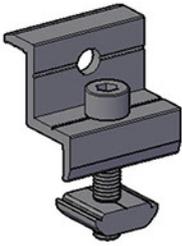
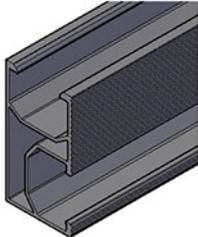
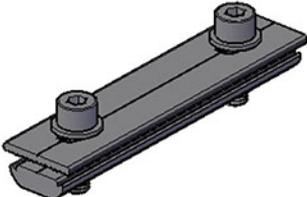
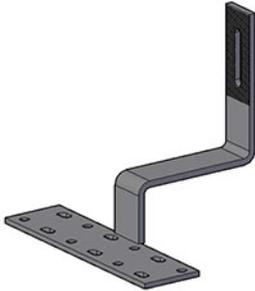
- Adhering to all applicable local or national building codes, which may supersede this manual.
- Verifying the suitability of pylar and other products for the specific installation and environment.
- Ensuring the stability of roofs, rafters, connecting girders, and other supporting structures for securely supporting photovoltaic modules (considered roof mounting).
- Using only specified pylar parts and installers-supplied parts, as substitutions may void the warranty.
- Ensuring the wood screws possess adequate strength and shear force during installation.
- Preserving the integrity of the roof waterproof system.
- Adhering to local recycling regulations.
- Disassembling components as required during installation.
- Ensuring a minimum of two professional workers are present during panel installation.
- Employing professional electricians for the installation of relative electrical equipment.

## 2. Installation Tools

- 6mm Inner hexagon spanner
- Electrical tool (for fastening M6 hexagon self-drilling tapping screws and pan head screws with cross recessed)
- 9, 10, 17, 19 mm open spanner (for fastening bolts used to hang solar panels)
- Angle grinder
- Power line
- Small pieces of wood (if necessary to level interfaces)

## 3. Components

- Tile hook
- M6\*80 wood screws
- Splice for pylar Rail
- M8\*25 bolt
- pylar nut
- Rails
- End Clamp
- Mid Clamp
- PV Panel
- Spring washer
- Flat washer
- Other necessary hardware components

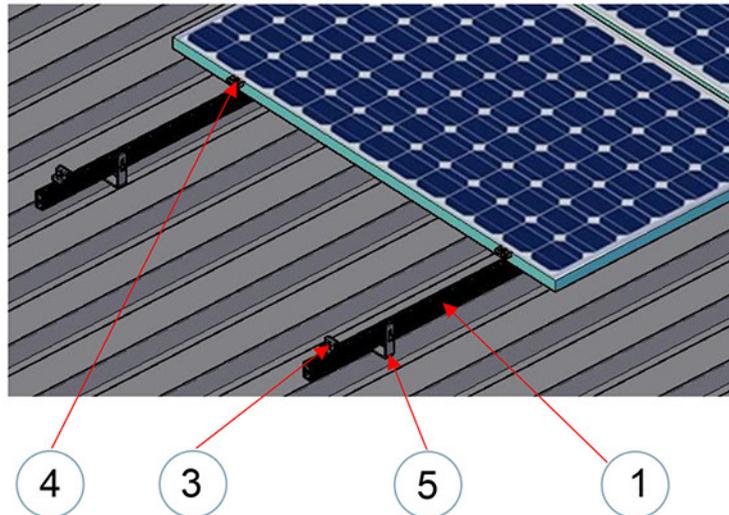
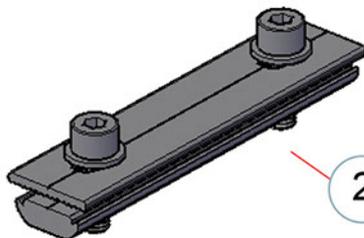
Main Components				
				
End Clamp (PYL-CL-02)	Pylar Rail (PYL-RR-02)	Splice for Pylar Rail (PYL-RR02-SP1)	Mid Clamp (PYL-CL-01)	Tile Roof Hook (PYL-RH-01)

## 4. Preparation before Installation

- Review installation instructions thoroughly.
- Ensure availability of all required tools and components.
- Prepare the installation site and workspace.
- Confirm the direction and layout of tile hook installation.
- Handle tiles with care during removal.

### 4.1 Components

1. Pylar Rail (PYL-RR-02)
2. Splice for Pylar Rail (PYL-RR02-SP1)
3. End Clamp (PYL-CL-02)
4. Mid Clamp (PYL-CL-01)
5. Tile Roof Hook (PYL-RH-01)



### 4.2 Planning the Installation Area

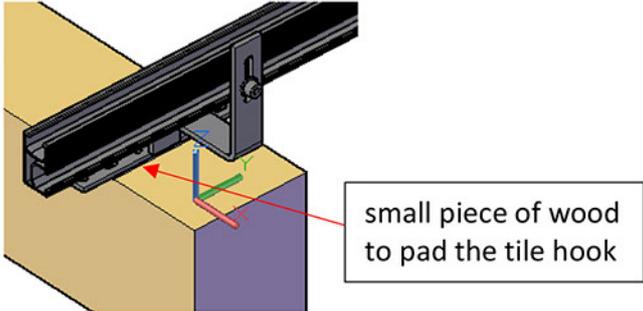


1. The layout of solar panels is according to the plan diagram.
2. The spacing between solar panels: 20 mm
3. Horizontal spacing between Standard Tile Hooks: 750 mm
4. Vertical spacing between Standard Tile Hooks  $\approx 1/2$  or  $3/4$  of panel length.

#### Notes:

Spacing between panels should be adjusted narrower when system is exposed in wind, placed on roof edge or in the corner

## 5. Installation Guide

5.1 Tile Hook Installation	
<p>5.1.1. Determine the planned installation direction of the tile hook and carefully remove the tiles from the designated positions. Exercise caution while lifting.</p>	
<p>5.1.2. Secure the tile hook onto the wooden beam using three M6*80 wood screws.</p>	
<p>5.1.3. Ensure the tile hook is not pressed onto the tile surface. Use small pieces of wood to pad the bottom of the tile hook if necessary.</p>	

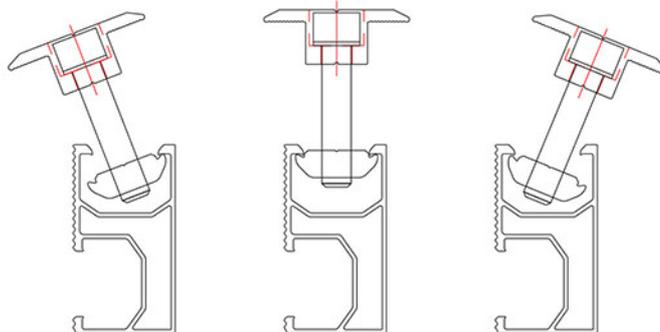
5.1.4. Use an angle grinder or hammer to cut off tile parts obstructing the tile hook. This step is also required for curved tiles.



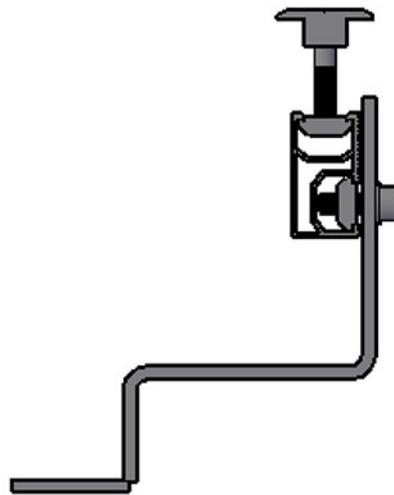
5.1.5. CAUTION!  
Avoid using tile hooks as ladders to prevent damage to the tiles underneath.



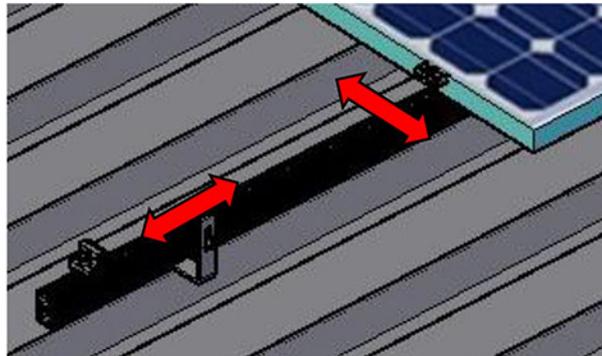
5.1.6. For easy use of the pylar tilt-in nut, ensure the hexagon socket head bolt does not extend through the bottom hole of the pylar nut. Position the pylar nut in the rail groove and tighten the bolt 2 to 3 turns. Slide the bolt to the final connection point, then securely lock the bolt. (Recommended torque force: 8 N·m)



5.1.7. For rails with different lengths, start from the shortest one. Fix rails onto the tile hook with M8 hexagon socket head bolt, flat washer, spring washer and pylar nut. (Do not fasten the bolts too tight in advance, with 2 to 3 screw threads left.) Please refer to the picture on the right.

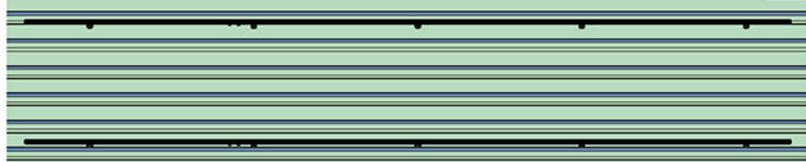


5.1.8. Taking advantage of that tile hook, pylar nut or hexagon socket head bolt are loosely connected, rails can be adjusted in vertical and horizontal directions. Please refer to the picture on the right.

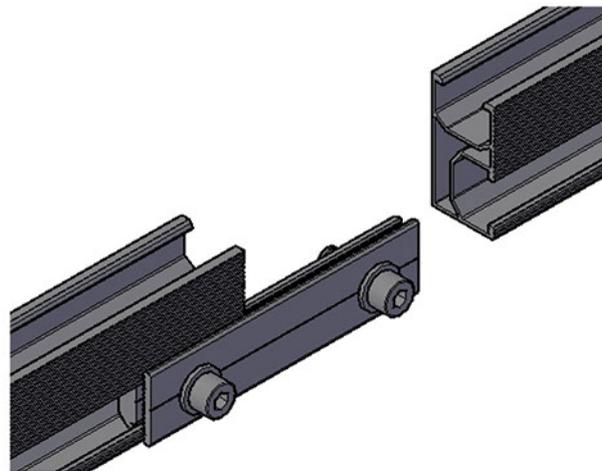


## 5.2 Rail Installation

5.2.1. Position each rail using a rope and pre-fix it onto the tile hook. Tighten all bolts securely using the inner hexagon spanner. (Recommended torque force: 8N·m)

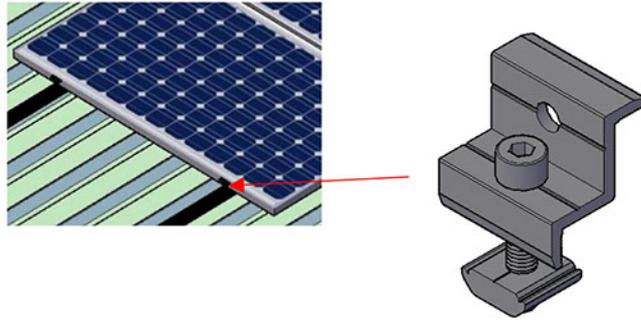


5.2.2. Before installing the pylar Rail onto the tile hook, confirm the rail length. If the rail is insufficient, use the Splice for pylar Rail to connect two rails. It is not recommended to connect two rails directly onto the tile hook. Slide one end of the splice into the rail and fix it tightly with an M8\*25 bolt. Repeat for the other end.

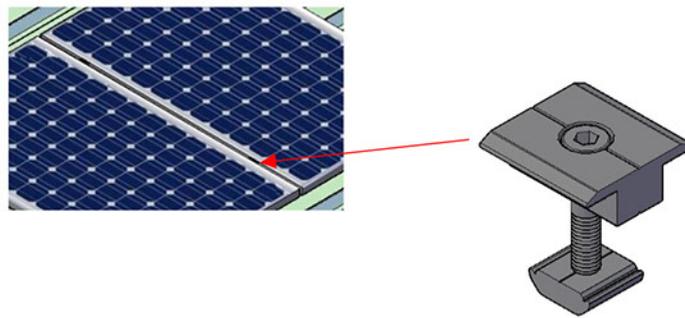


### 5.3 PV Panel Installation

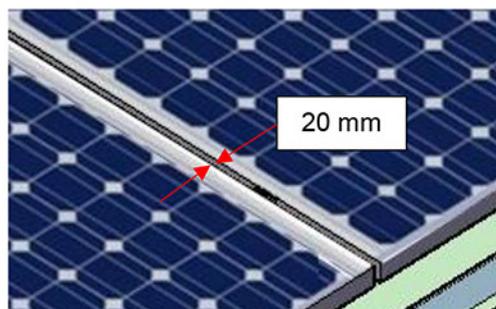
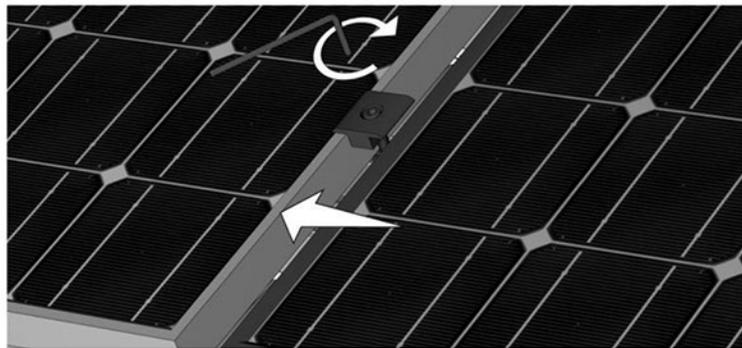
5.3.1. Place the PV Panel onto the rail and slide the End Clamp to securely attach it to the solar panel. Tighten the bolt securely. (Recommended torque force: 8N·m)



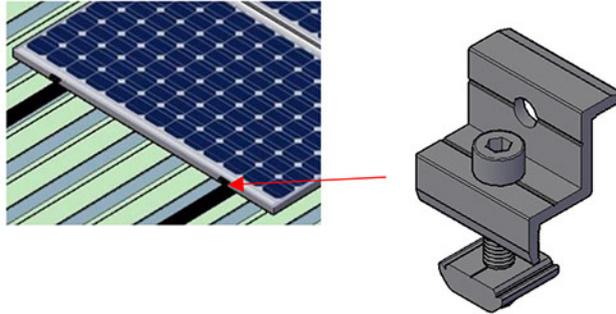
5.3.2. Insert the Mid Clamp into the rail and secure it tightly onto the edge of the solar module. Pre-lock the bolt (leave around 2 to 3 screw threads).



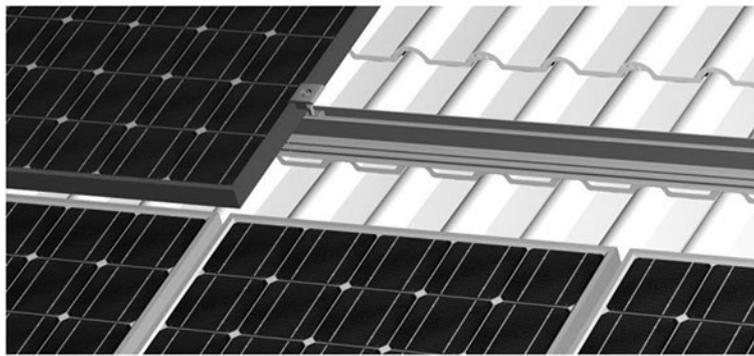
5.3.3. Slide another solar panel close to one side of the previously installed solar panel and tighten the Mid Clamp securely. (Recommended torque force: 8N·m) Ensure that the anti-skid protection device falls in the middle of the slot on the lowest rail.



5.3.4. Place the last solar panel of each row onto the rail and fix it with the End Clamp. (Recommended torque force: 8N·m)



5.3.5. Slide the first solar panel in the next row into the correct position from top to bottom. Maintain a certain spacing from the bottom row due to illumination. Use the Mid Clamp as a separator to ensure consistent vertical and horizontal spacing of solar panels. Repeat the steps to complete the installation.



## **10 Year Limited Product Warranty, 5 Year After Sales Service**

PT Pylar Surya Indonesia provides a warranty to the original purchaser of products with Oxidation treatment on the surface, ensuring freedom from shedding and cracks for a period of 5 years. Additionally, a 10-year quality assurance is offered. The Finish Warranty does not extend to any foreign residue deposited on the finish. Installations in corrosive atmospheric conditions are excluded from the Finish Warranty.

The Finish Warranty becomes void if the practices specified by AAMA 609 & 610-02 – “Cleaning and Maintenance for Architecturally Finished Aluminium” are not followed by the purchaser. Damage to the Product during shipment, storage, or installation is not covered by this warranty.

This warranty is void if the installation of the Product is not conducted in accordance with PT Pylar Surya Indonesia's written installation instructions, or if the Product is modified, repaired, or reworked without prior authorization. Additionally, if the Product is installed in an environment for which it was not designed, the warranty is considered void.

PT Pylar Surya Indonesia shall not be liable for consequential, contingent, or incidental damages resulting from the use of the Product by the purchaser under any circumstances. Manufacturers of related items, such as PV modules and flashings, may offer their own written warranties. PT Pylar Surya Indonesia's limited warranty covers only its Product and not any related items.