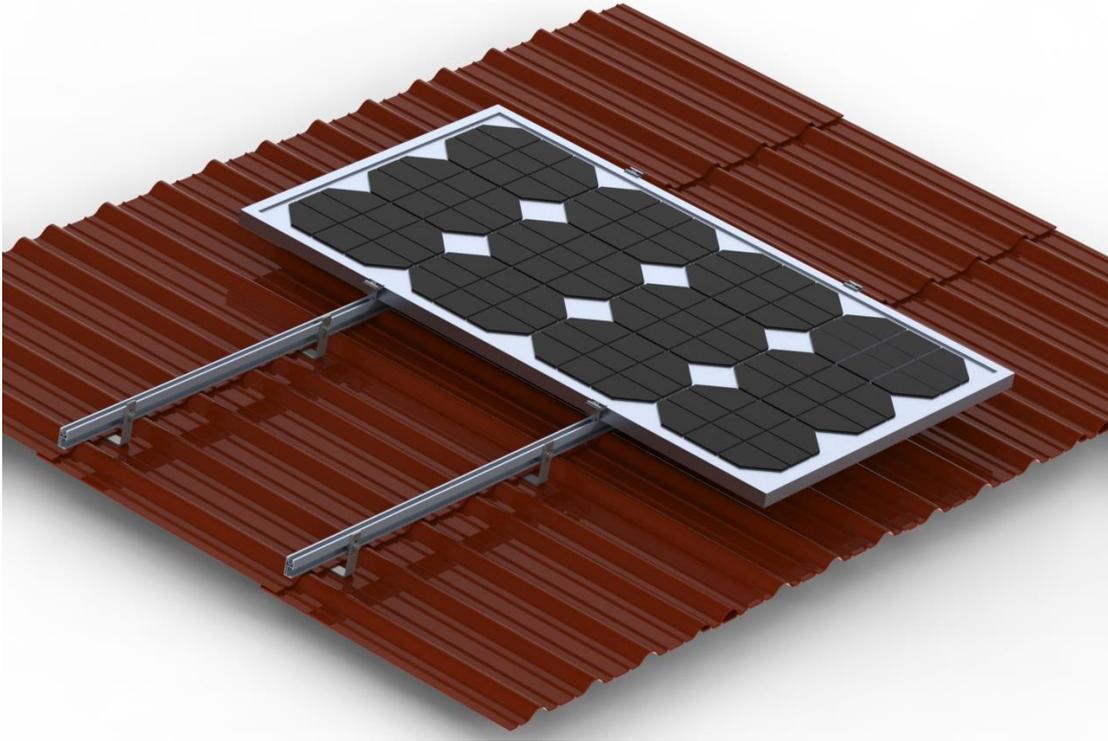


Pitched Tile Roof Mounting



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1. Introduction

Pitched Tile Roof Mounting system is suitable for installing framed and frameless modules on the pitched roof with high strength and excellent stability. It is fast to install with less components and high pre-assembly. Long service life of 25 years enabled due to the high-quality materials.

Please read the guide book carefully before the installation.

2. Installation tools and equipment

			
6mm Hex wrench	Power tools	Tape measure	Fine point marker
			
Torque wrench	String	monkey wrench	

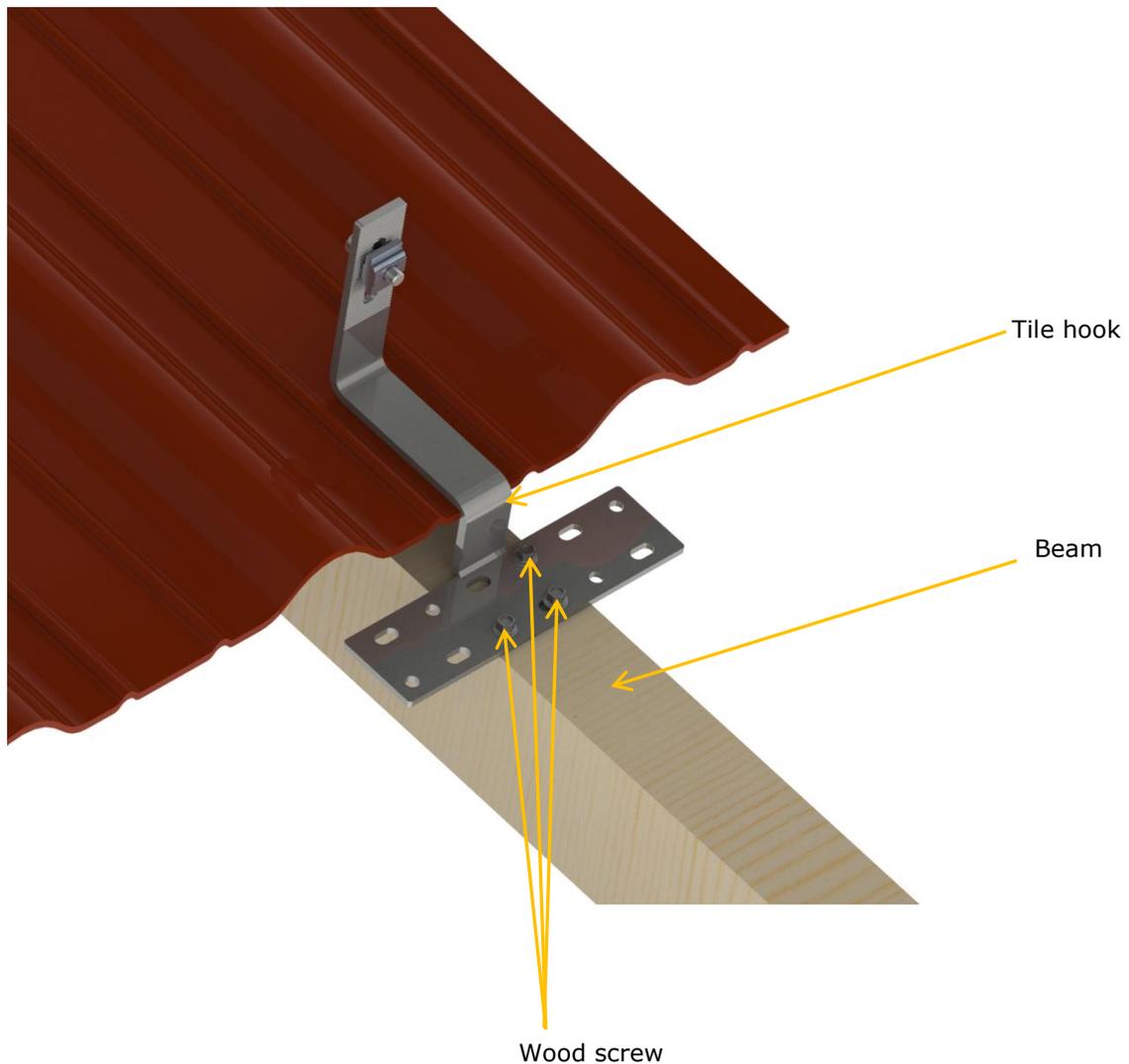
3. Components

Components list			
			
End clamp	Mid clamp	Rail	Tile hook
			
Rail splice			

4. Installation

4.1. Install the tile hooks

Please prepare all the needed tools and related products before the installation. Mark positions of all the tile hooks according to the instructions on construction drawing. Please make sure that all the tile hooks which are fixed on beams in the same row be aligned horizontally and vertically. Then tight up with wood screws.



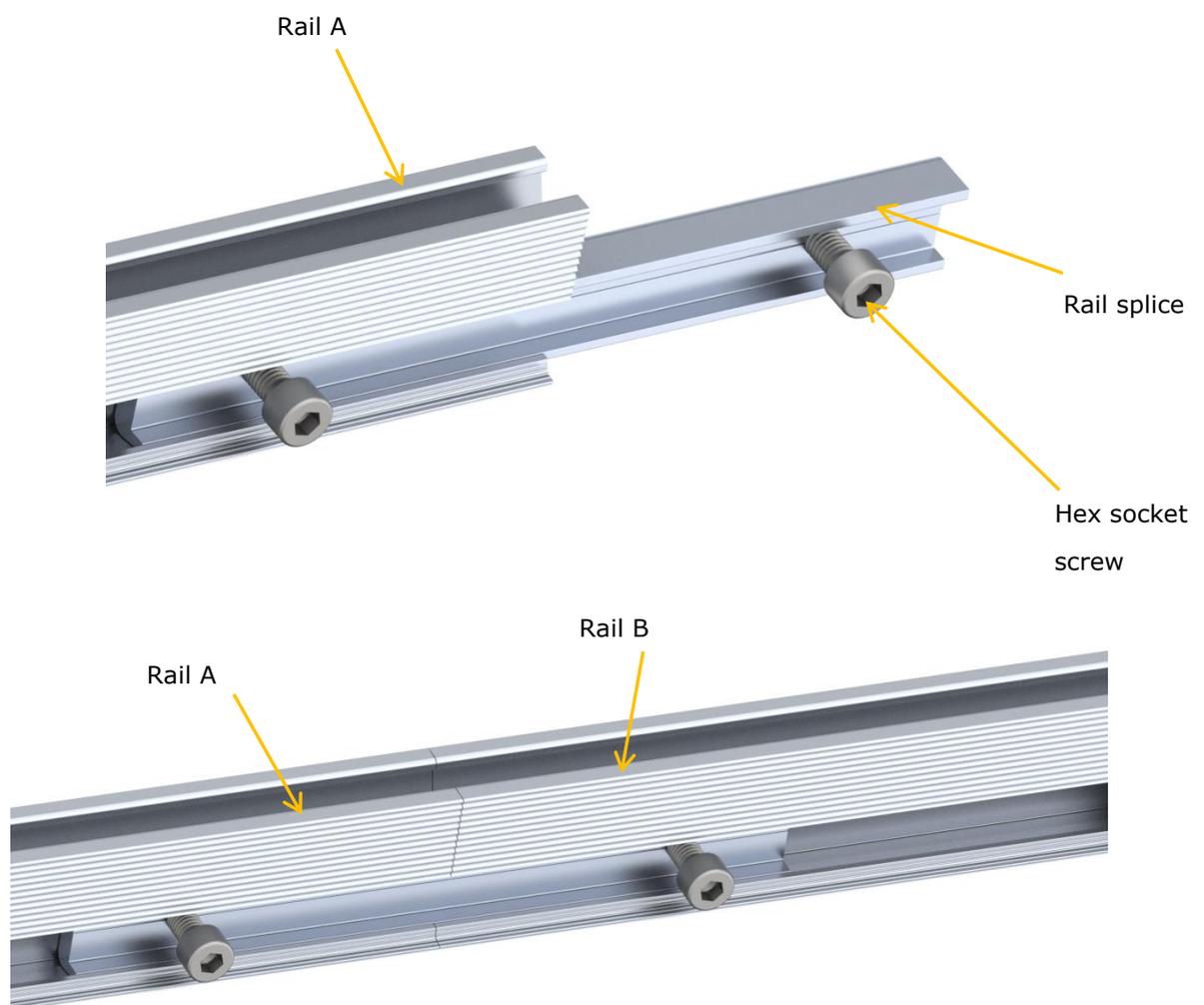
4.2. Install the rails

(Connect the rails with rail splice if the rails are not long enough, otherwise skip this step)

Insert the rail splice half into rail A and then fix it with 1 hex socket screw.

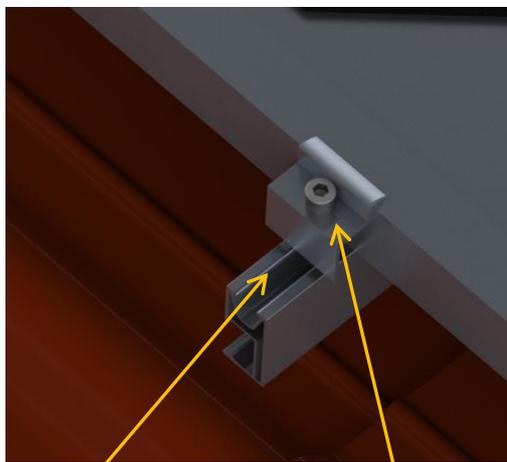
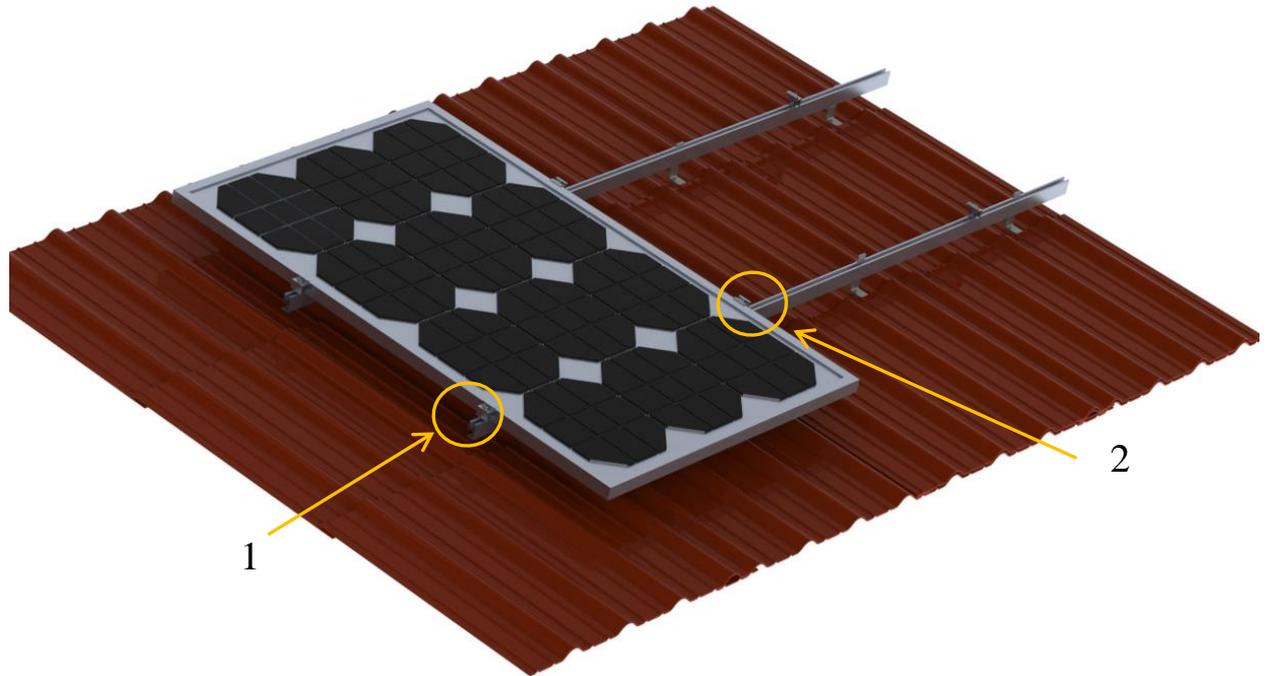
Insert the other half rail splice into rail B, match it together and then fix it with 1 hex socket screw as well.

Then the A and B rails are connected.



4.3. Install the solar panels

Suggest to start the installation from one side to another.



Rail Fig. 2 End clamp



Rail Fig. 3 Mid clamp

5. Installation notes

5.1. Notes for sizes

All the dimensions should be subject to the construction drawing. This guide book is for descriptive purpose of installation only.

5.2. Notes for stainless steel fasteners

Stainless steel material is quite different to carbon steel with its excellent ductility. It would be unable to unscrew the bolt and nut after matching in case improper use. That is "lock up", known as "dead lock". Methods to avoid lock up as below:

5.2.1. Reduce the friction coefficient

- a. Make sure the surface of threads to be clean (without dusts or clutters);
- b. Suggest to apply water wax or lubricant on surface for installation (such as butter or 40# machine oil)

5.2.2. Use correct operation method

- a. The bolt must be perpendicular to the axis of thread when screwing. Do not lean the bolt;
- b. Apply the force evenly when tightening and the tightening torque should not exceed the specified secure torque value;
- c. Using torque wrench or socket spanner as far as possible, avoid using monkey wrench or electric wrench; Adjust the rotational speed as low as possible when using electric wrench;
- d. Avoid high temperature; To avoid lock up which caused by sharply increasing temperature, do not rotate rapidly. (like using electric wrench)