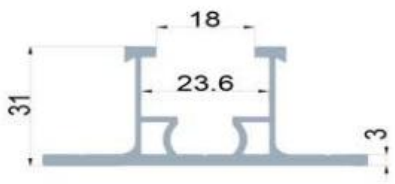
Short rail system Installation Manual

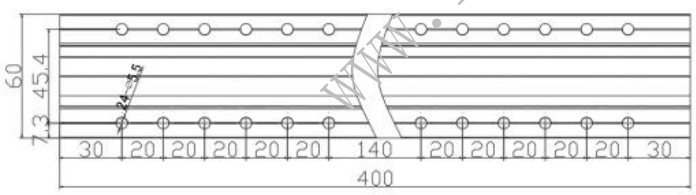
Product introduction

Short Rail Solar Mounting is designed for trapezoidal tin roof, which can be directly installed on the roof without continues solar rail, saving cost. easy to install, widely used, It is suitable for large commercial and public solar systems, framed and frameless modules, and can be installed vertically or horizontally.

Short Rail Solar Mounting is made of high-quality AL6005-T5, without interfere with the surface of the roof and the products are strictly in accordance with the industry Standard processing, the total length of the guide rail is 400mm, and 24 holes are designed on both sides, which is easy to operate during installation.

Drawing





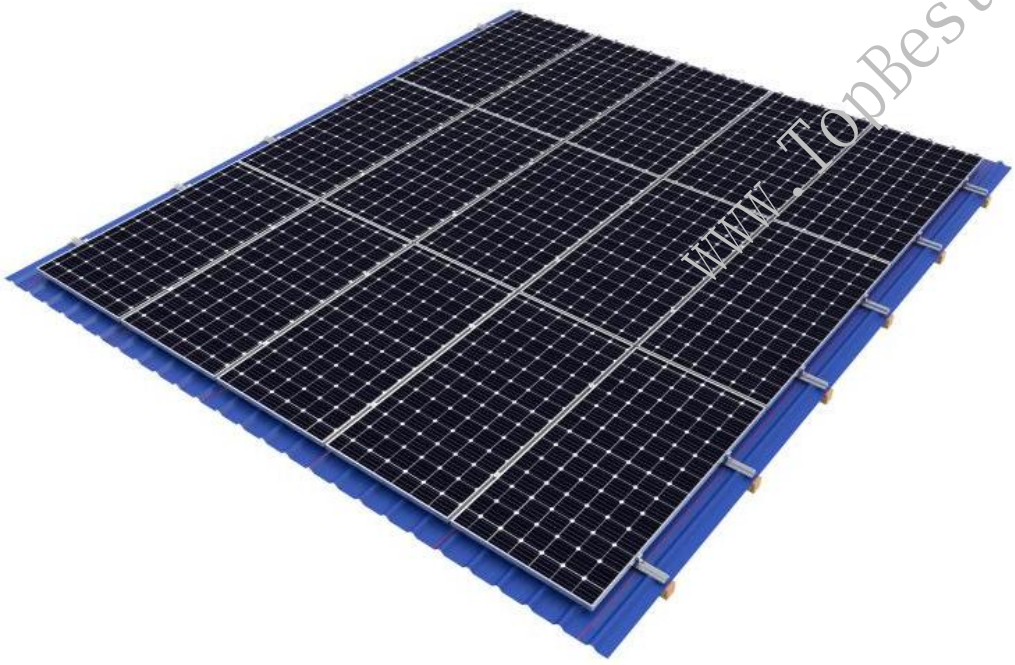
Components:



Tools:

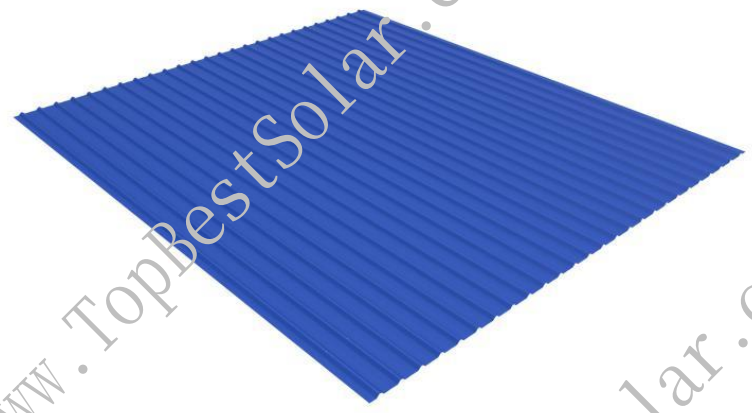
Name	M8 wrench	M8 Socket wrench	Electric wrench	Band tape
Picture				

Installation effect picture

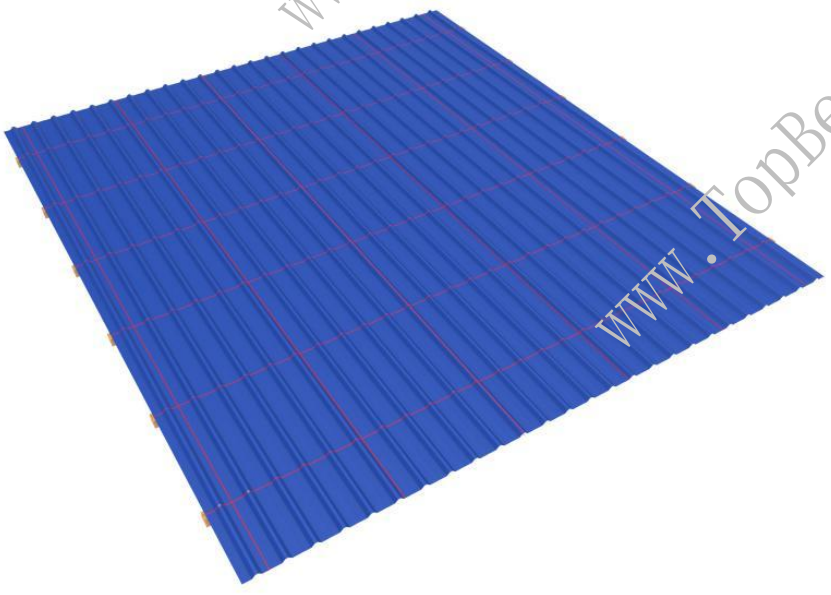


Installation steps:

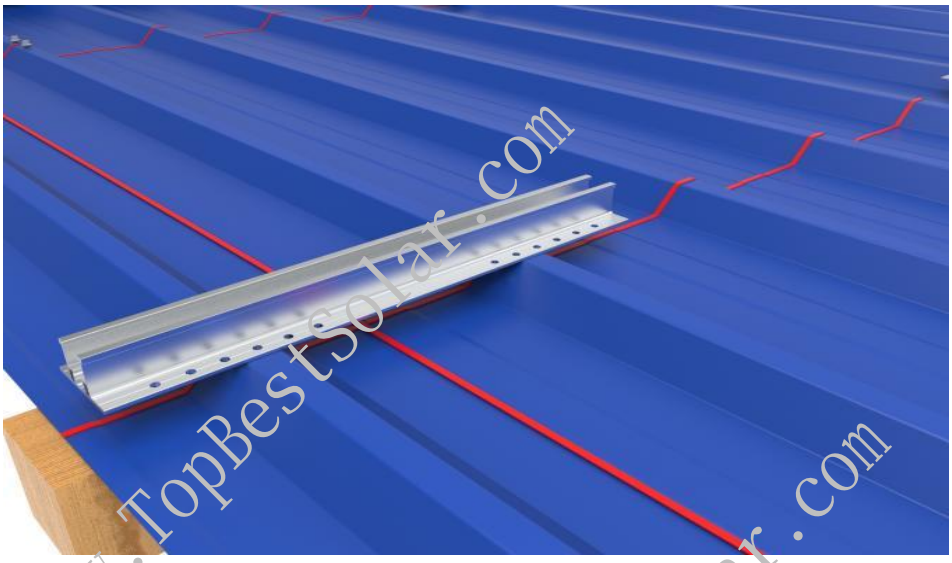
1.1 Clean the metal roof to be installed before installation, as shown in Figure 1.



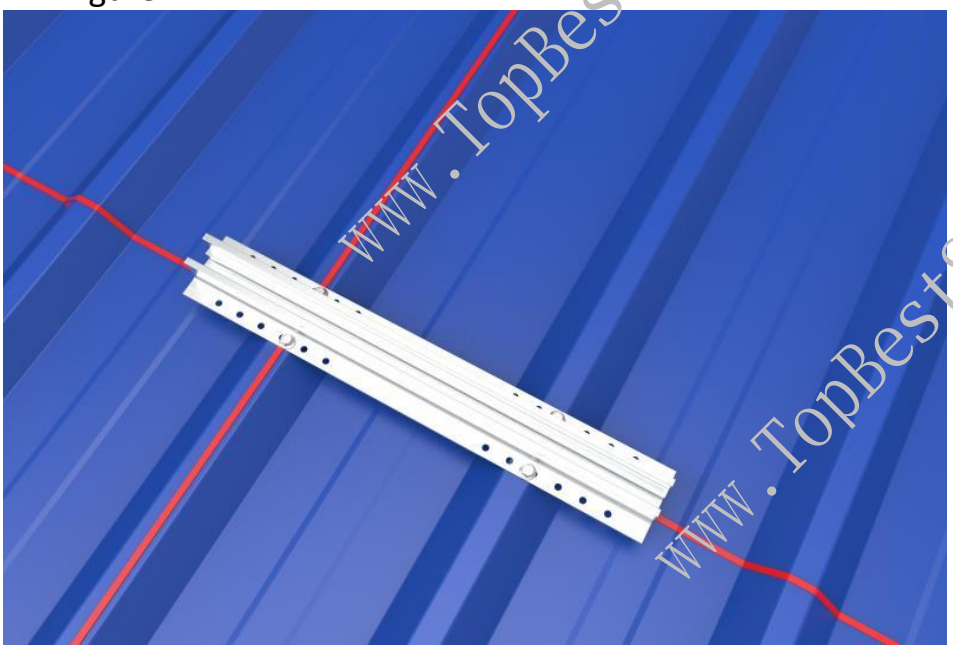
1.2 According to the location and dimensions of the project construction drawings. Find the location of the roof main beams/purlins and the rail installation location, and mark the corresponding metal roof covering, as shown in Figure 2



1.3 Place the U-shaped rail flat on the two crests of the trapezoidal roof, as shown in Figure 3, and apply sealant before driving self-tapping screws.
As shown in Figure 3

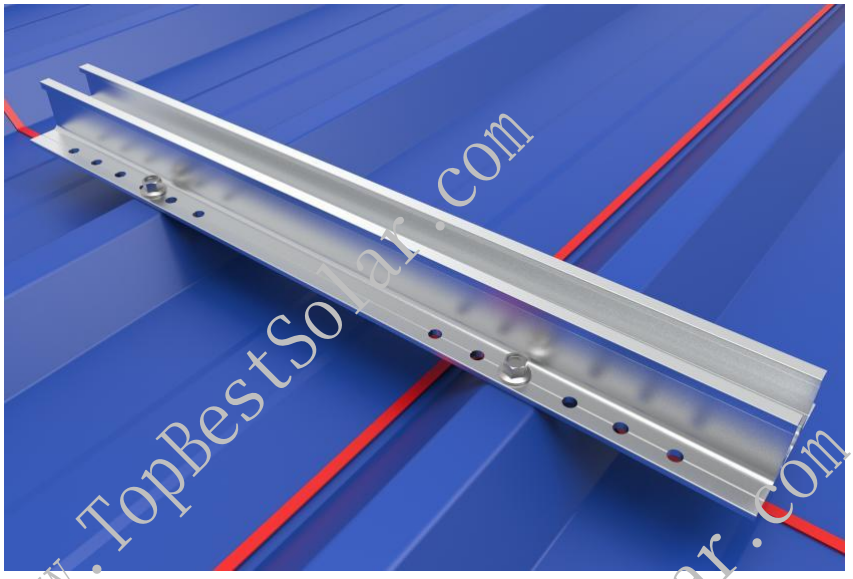


1.4 Use self-tapping screws to install the U-shaped rail on the two crests of the metal roof, as shown in Figure 4

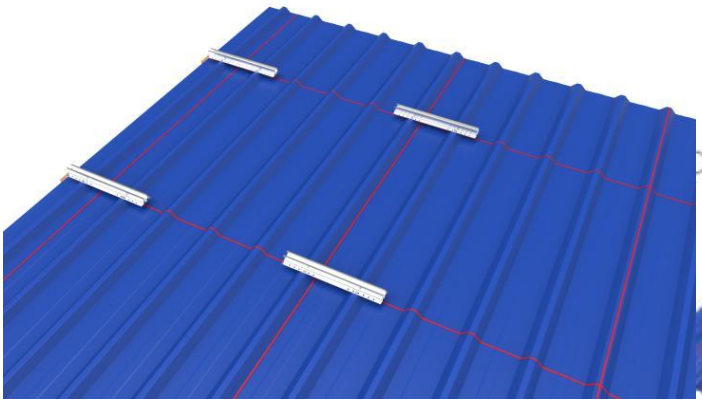


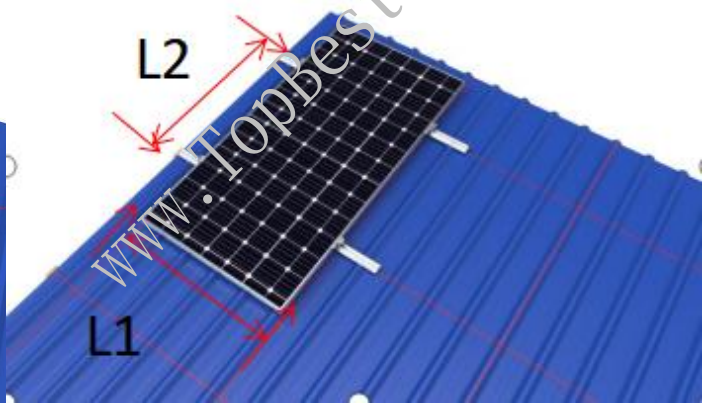
1.5 After the self-tapping screw is locked, apply a layer of sealing glue on it, as shown in

Figure 5

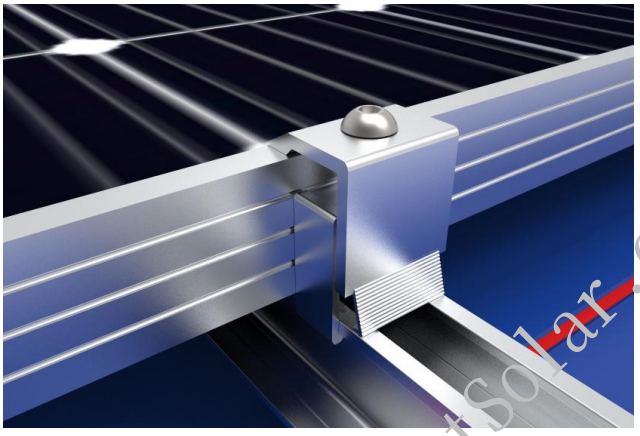


1.6 Lay the solar panel on the U-shaped rail. Pay attention to the distance between the U-shaped rail;. The vertical distance L2 is about half of the long side of the solar panel. The horizontal distance L1 is adjusted according to the length of the short side of the solar panel. U-shaped The rail needs to be installed on the wave crest, and the distance between the solar panel and the solar panel is determined by the size of the mid clamp.
As shown in Figure 6, Figure 7

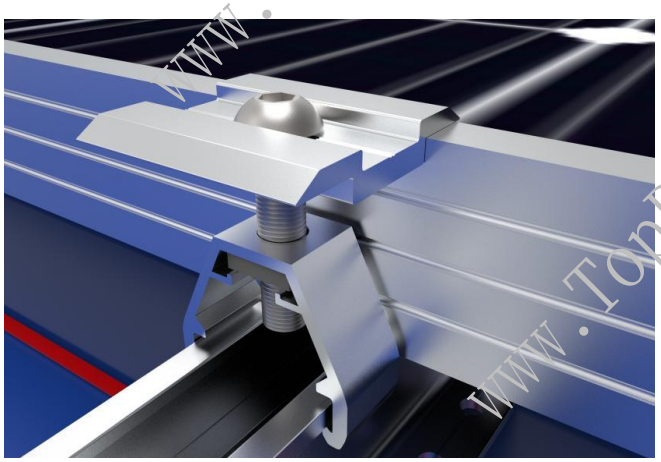




1.7 Use end clamp to fix the solar panel on the U-shaped rail, as shown in Figure 8 and Figure 9



1.8 Use mid clamp to fix the solar panel to the solar panel, as shown in Figure 9 and Figure 10



1.9 Repeat before steps, Install the other solar panel. Figure 11

2.0 All solar panels installed. Figure 12

Other ways to use the clamp: It can be also use common End clamp and Mid clamp

Name	Inter clamp rack	End clamp rack
Picture	 AI-R04-IU	 AI-R04-EU