



XIAMEN TOPFENCE CO.,LTD.
Add: Unit401-04,N0.77.Lingxia South Road.HuliDistrict,Xiamen,Fujian,China
www.xmtopfence.com | Tel: +86 592 560 1660 | info@xmtopfence.com
One-stop solar mounting system solutions

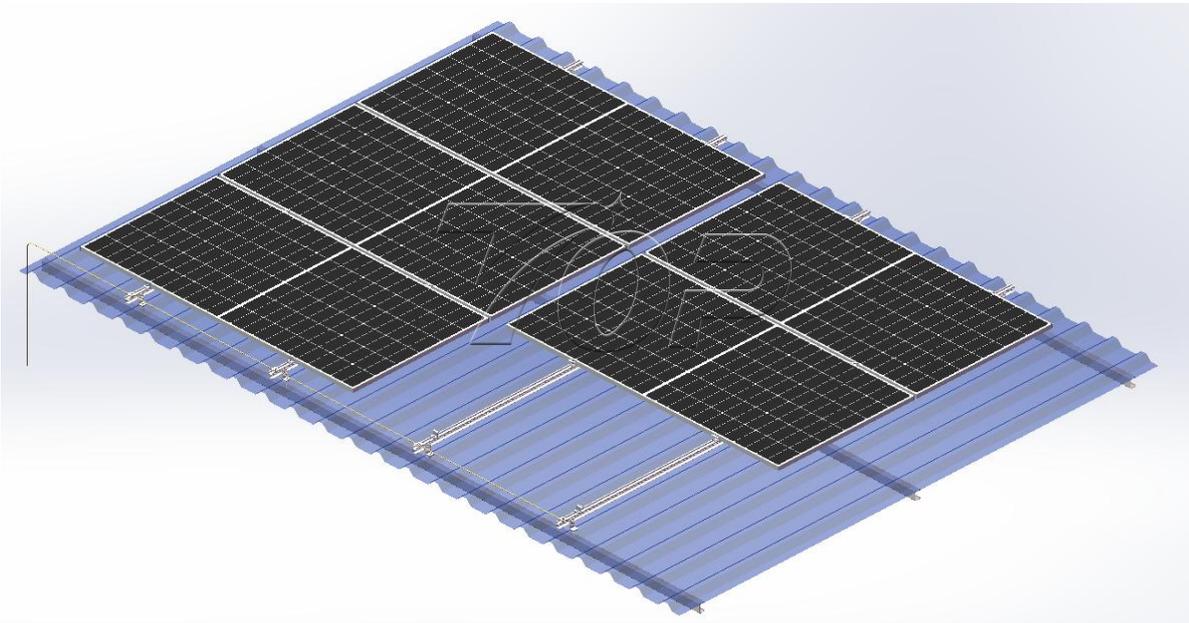


XIAMEN TOPFENCE CO.,LTD.

TOPFENCE USER MANUAL

L-Feet (Self-Tapping Screw) Roof Mounting System

L-Feet + Rail Solution





Please read this entire manual carefully before installing your roof solar system.

*Strictly following the installation instructions of the L-foot roof mounting solution will meet the structural requirements of the product and comply with relevant standards. During installation, please be sure to comply with relevant safety regulations and pay attention to the relevant regional regulations.

Installers should abide by the following norms.

1. Comply with all applicable local or national building codes, including any that may supersede this manual;
2. Ensure that products such as brackets are suitable for specific installations and installation environments;
3. Please use the accessories provided by our company and the installation tools you bring with. (Our company will not assume any liability for construction using substitute accessories);
4. How to recycle: Please follow the local regulations;
5. Operation staffing: Ensure no less than two professional solar panel installers;
6. Ensure that the installation of electrical related equipment is completed by professional electricians;
7. Ensure the safe installation of electrical components of the solar panel array.



L-Foot (Self-Tapping Screw) Roof Plan Installation Instructions

Main Features

- Mainly used for ladder-shaped colored steel tile roofs supported by wooden beams or steel beams
- Lightweight design, durable and beautiful, easy to assemble and quick to install
- Suitable for all kinds of framed and frameless solar panel installations on the market
- Components are pre-assembled in the factory and reasonably packaged to save on-site installation time

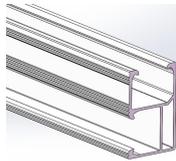
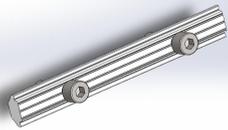
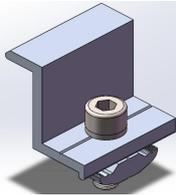
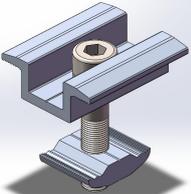
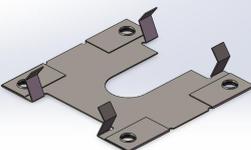
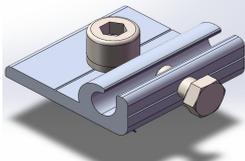
1. Description

This system uses aluminum alloy accessories, aluminum rails and stainless steel bolts, and is suitable for ladder-shaped colored steel tile roofs supported by wooden beams or steel beams. Before installing the system, please read the following installation instructions carefully. And please comply with local laws during installation.

2. Installation Tools

Installation Tools			
Power Tools	M8 hexagon wrench	String	5m measuring tape
			
Level rule	Marker pen		
			

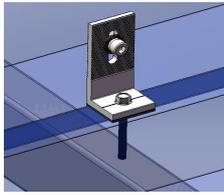
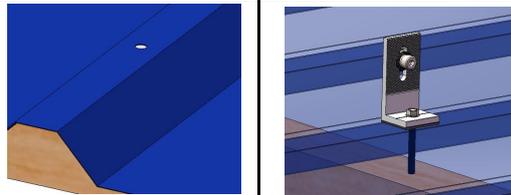
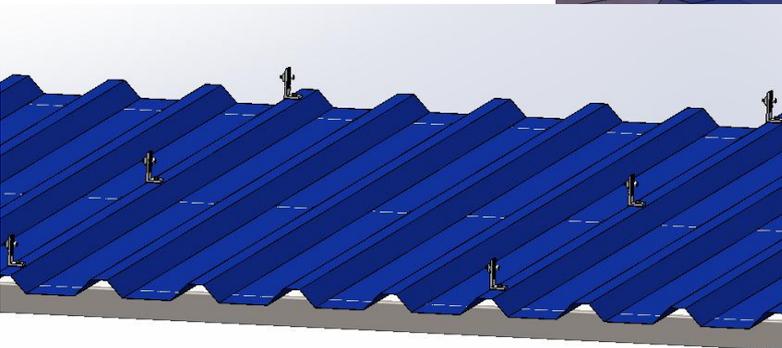
3. Product Accessories

Product accessories			
L feet assembly	B45 rail	B45 rail connector	Vertical End-Clamp
			
Vertical Mid-Clamp	Vertical conductive sheet	Vertical grounding piece	Self-tapping screws/wood screws
			

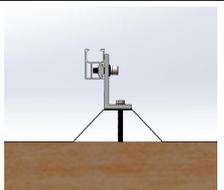
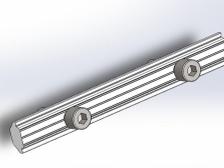
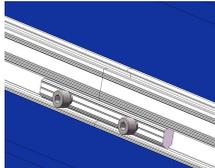


4. Installation Process

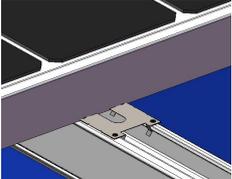
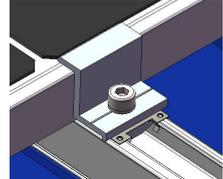
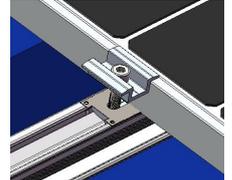
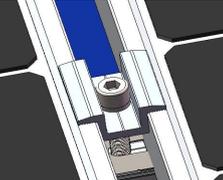
4.1 Installing the L-foot

<p>According to the material of the support beam, use self-drilling screws (the support beam is a steel beam) or wood screws (the support beam is a wooden beam) to install and fix the L-feet assembly at the crest position of the trapezoidal color steel tile.</p>	
<p>PS If the purlins supporting the trapezoidal steel tiles are made of wooden beams, it is necessary to use a drilling tool to drill a small hole of $\phi 6\text{mm}$ in the colored steel tiles in advance to facilitate the insertion of wood screws.</p>	
<p>Arrange according to the drawing and install the remaining L-foot assemblies using the above method.</p>	

4.2 Installing B45 rail

<p>Adjust the direction of the corrugated surface of the B45 rail to align it with the corrugated surface of the already installed and fixed L feet component, and use an M8 hexagonal wrench to tighten the hexagonal bolt on the hook to lock the rail.</p>		
<p>Install the rail connector at the rail joint position, and use an M8 hexagonal wrench to tighten the hexagonal bolts on the rail connector to lock the joints at both ends.</p>		

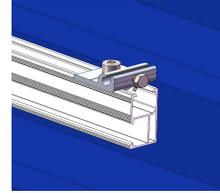
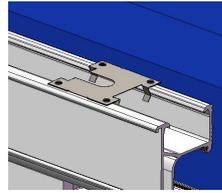
4.3 Installing solar panels

<p>Place the solar panel on the rail, adjust the position of the end assembly and fix it with the End-clamp (if equipped with a conductive sheet, press the conductive sheet into the rail slot, adjust the position and press one end of the conductive sheet with the metal frame of the solar panel).</p>		
<p>After adjusting the position of the middle solar panel, fix it with the Mid-clamp (if equipped with a conductive sheet, press the conductive sheet into the rail slot, and after adjusting the position, use the metal frames of the solar panels on both sides to press the two ends of the conductive sheet).</p>		



4.4 Installing the grounding fitting

(1) Install the conductive sheet at the end of the rail.
(2) Then install the grounding component.



(3) Install the grounding clips at the ends of the remaining rails. (4) Pass a copper wire through these grounding clips, tighten the hexagonal bolts, and finally ground the grounding copper wire.

