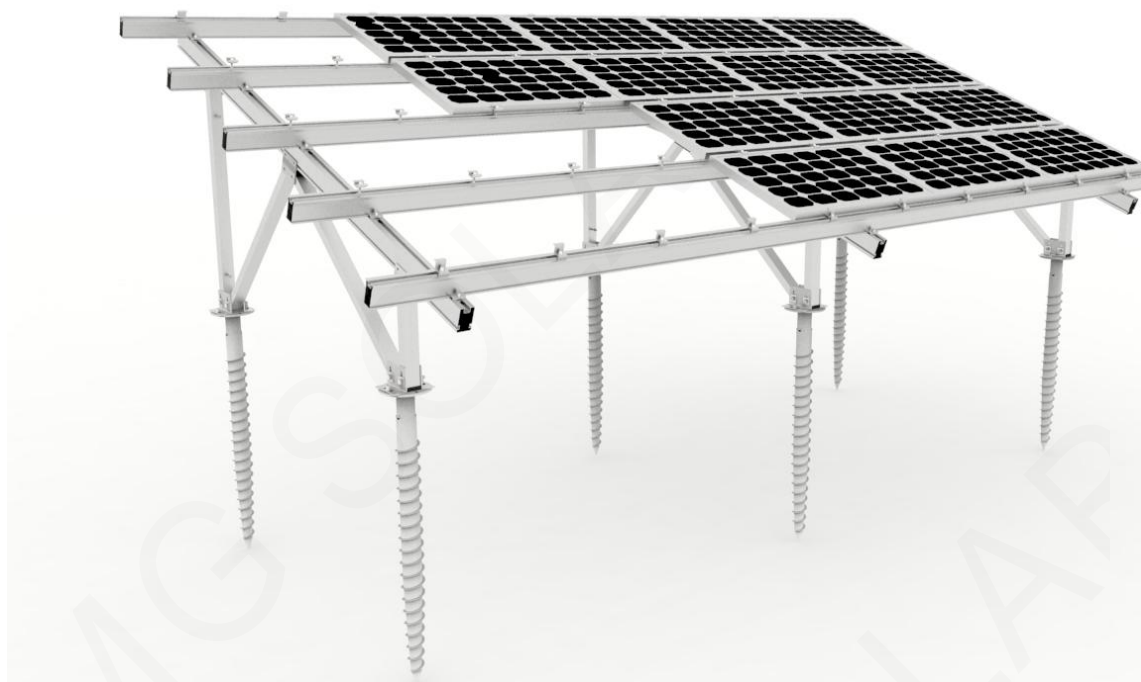
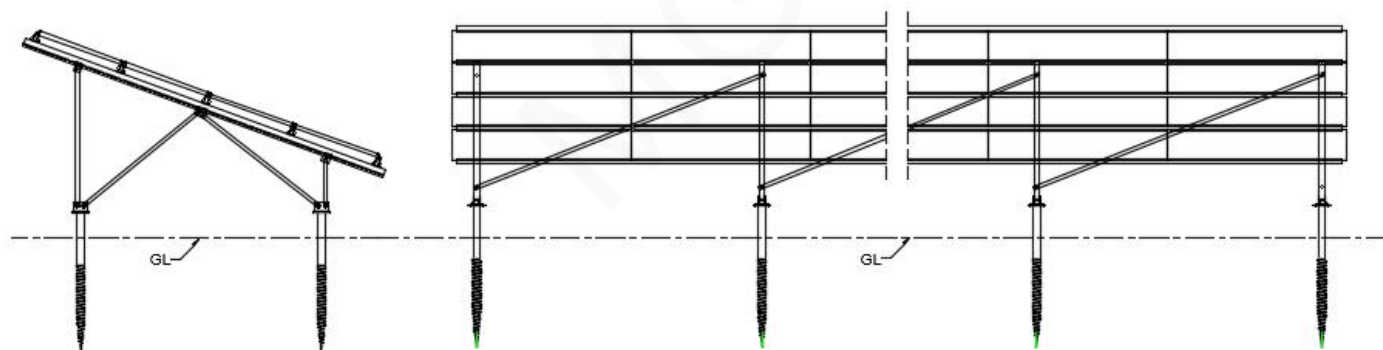


Aluminum Ground Mounting System Installation Manual



1.Before Installation

1.1.Engineering drawing



1.2 Tools For Installation

8mm Allen key



Drill Sleeve(M8~M12)



Torque Wrench M8~M12



Rule



Spirit level



Socket Spanner(M8/M14)



Rope

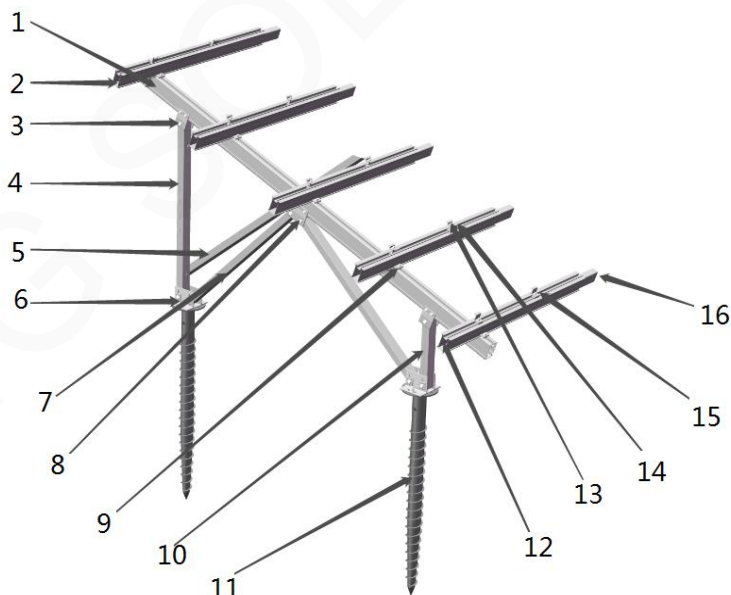


Cordless drill





















1.3 Component List

NO.	ITEM NO.	Products Name
1	MG-AGM-MB-01	Main Beam
2	MG--AGM-GR-01/02	Grounding Rail 01#/02#
3	MG-AGM-HBC-01	H Connector Kit 1#
4	MG-AGM-P-01	Back Leg
5	MG-AGM-BS	Back Support
6	MG-AGM-BB-01/02	Bottom Base 01#/02#
7	MG-AGM-IS	Inclined Support
8	MG-AGM-HBC-02	H Connector Kit 2#
9	MG-AGM-GRC-50	Ground Rail Clamp
10	MG-AGM-P-01	Front Leg
11	MG-GS-F76-T3-1600	Screw Pile
12	MG-GS-RGL	Grounding Lug
13	MG-GS-GC	Grounding Clip
14	MG-MC-C-L40	Mid Clamp
15	MG-EC-C-L40	End Clamp
16	MD-AGM-RC-300	Ground Rail Splice Kit



1.4 Appearance

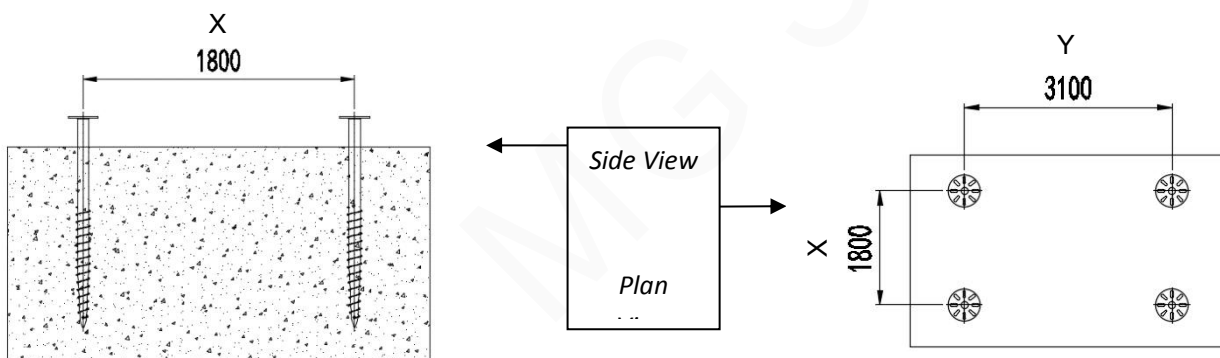
				
Main Beam	Grounding Rail 01#	Grounding Rail 02#	H Connector Kit 1#	Back Leg
				
Back Support	H Connector Kit 2#	Bottom Base 01#	Bottom Base 0#	Inclined Support
				
Ground Rail Clamp	Front Leg	Screw Pile	Grounding Lug	Grounding Lug
				
Mid Clamp	End Clamp	Ground Rail Splice Kit		

2. Installation Guide

2.1 Positioning installation foundation

According to the engineering drawing, the distance between base location is as follows:

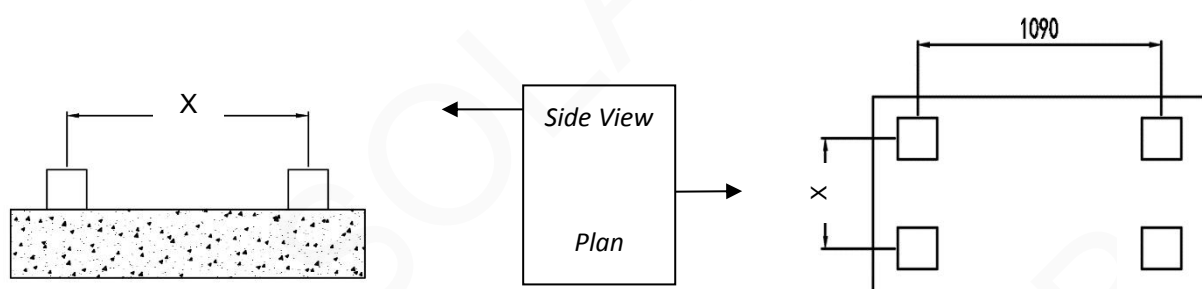
:



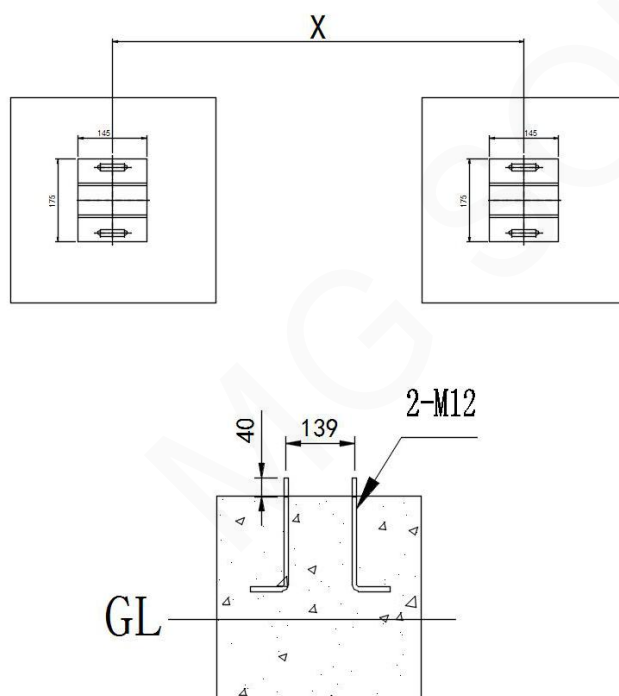
● Screw Pile Foundation

On the left side picture is screw pile position side view, distance X we called S/N span. Spiral pile into the underground shall ensure that at least 1400 mm, flange height should be consistent.

On the right side picture is ground screw position Plan view, distance Y is we called E/W span. Be sure to error less than 20mm, otherwise It will affect your installation.



● Concrete Foundation

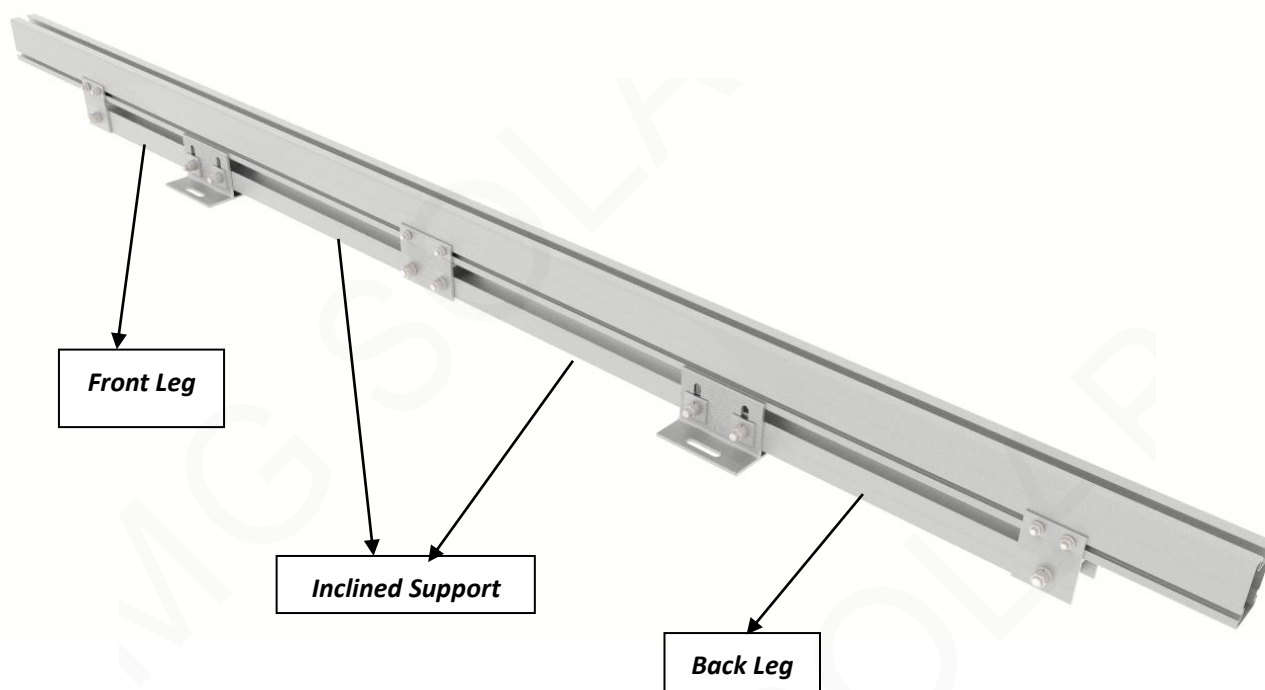


The above picture is concrete embedded bolt positioning, the bolt specification is M12, length ≥ 150 , more than concrete length 30 ~ 40 mm, embedment Length at least 100mm.

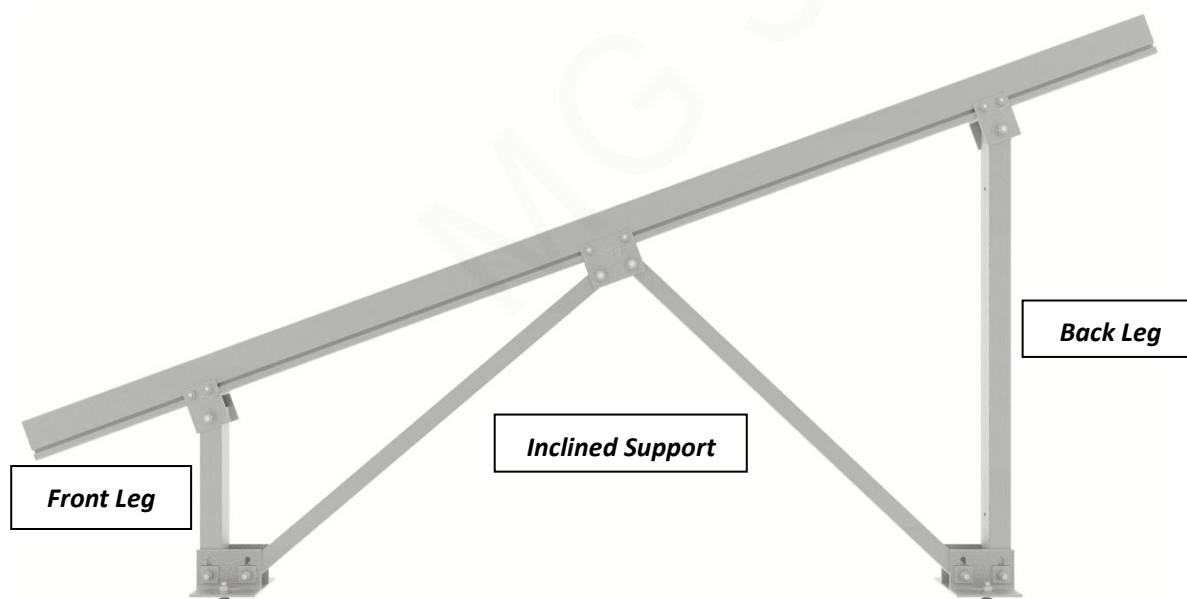
2.2 Installation Guide

In generally, most of mounting part would be pre-assembled at our factory. So you just need to open it and fixed it with screw and bolt according to drawings. Installation steps please see below:

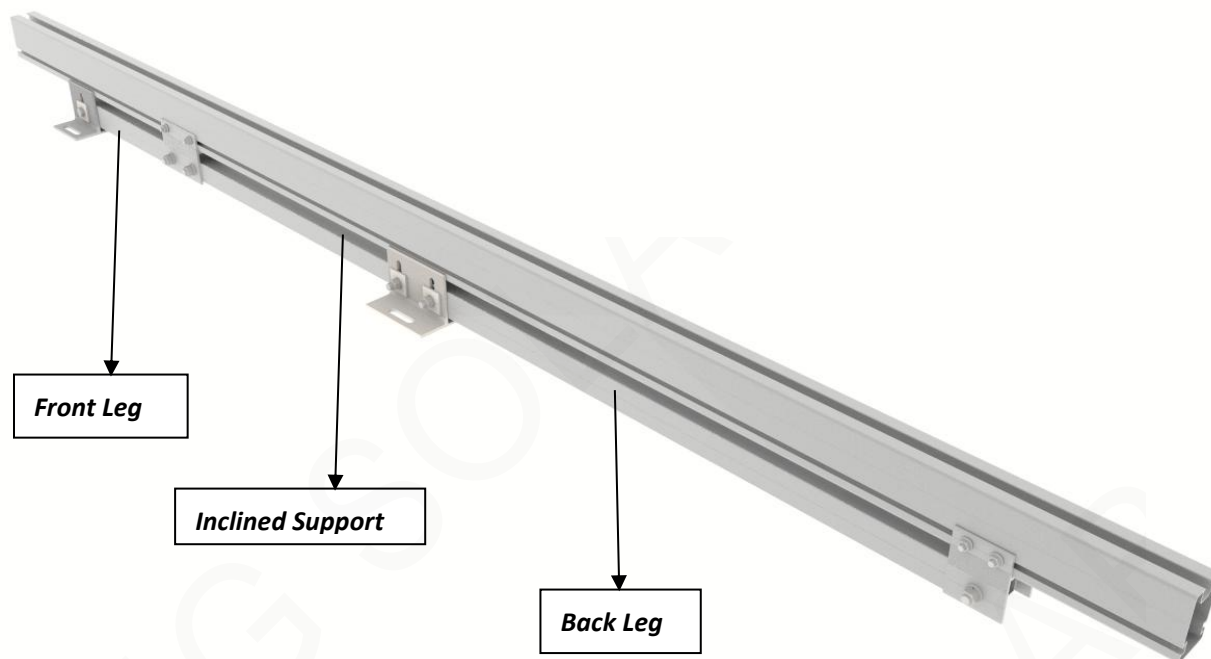
2.2.1 W Type Pre-assembled Mounting Parts Installation



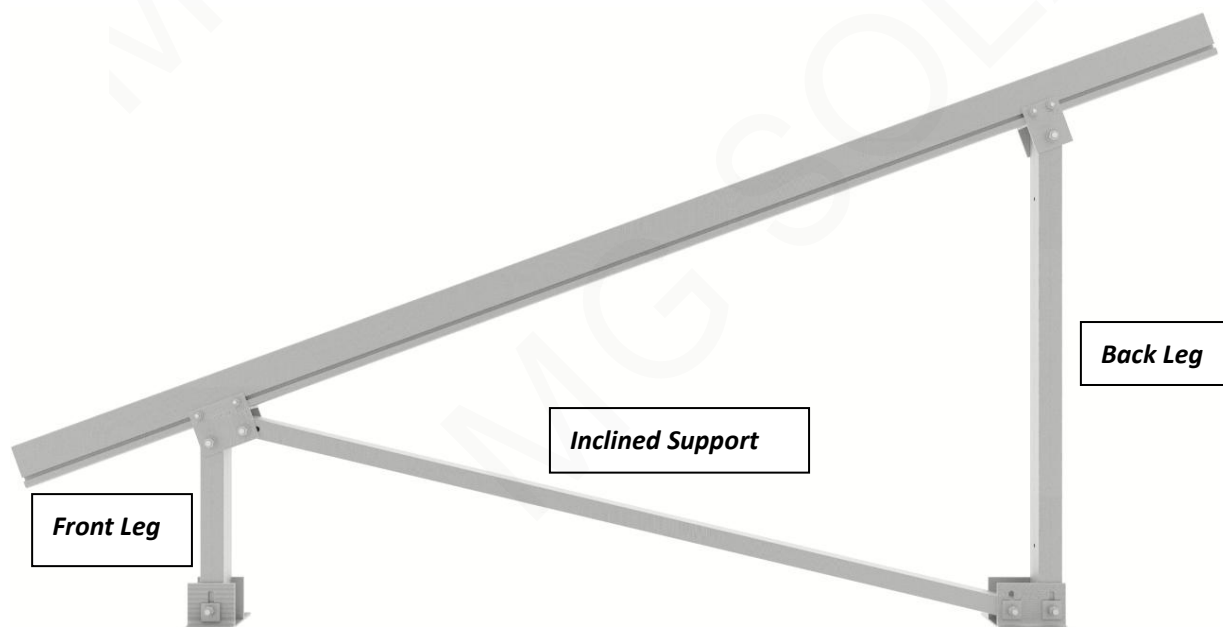
Spread it and confirm the location, then fix it with screw and bolt, please see below:



2.2.2 N Type Pre-assembled Mounting Parts Installation



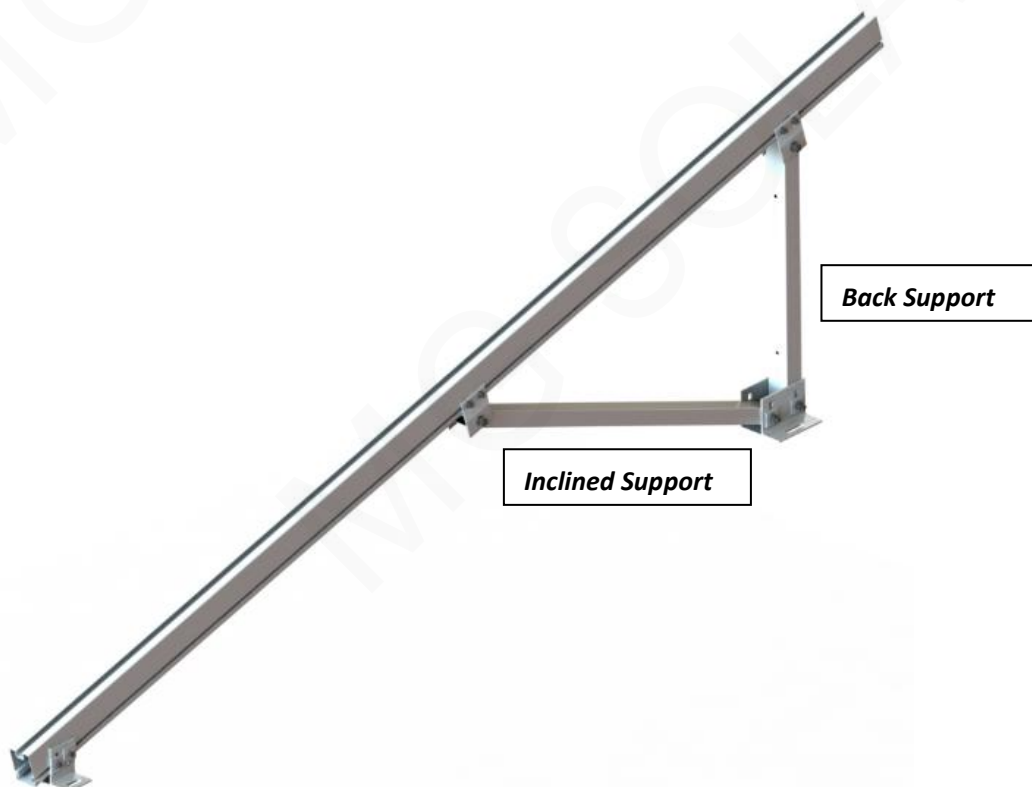
Spread it and confirm the location, then fix it with screw and bolt, please see below:



2.2.3 No Front Leg Type Pre-assembled Mounting Part Installation

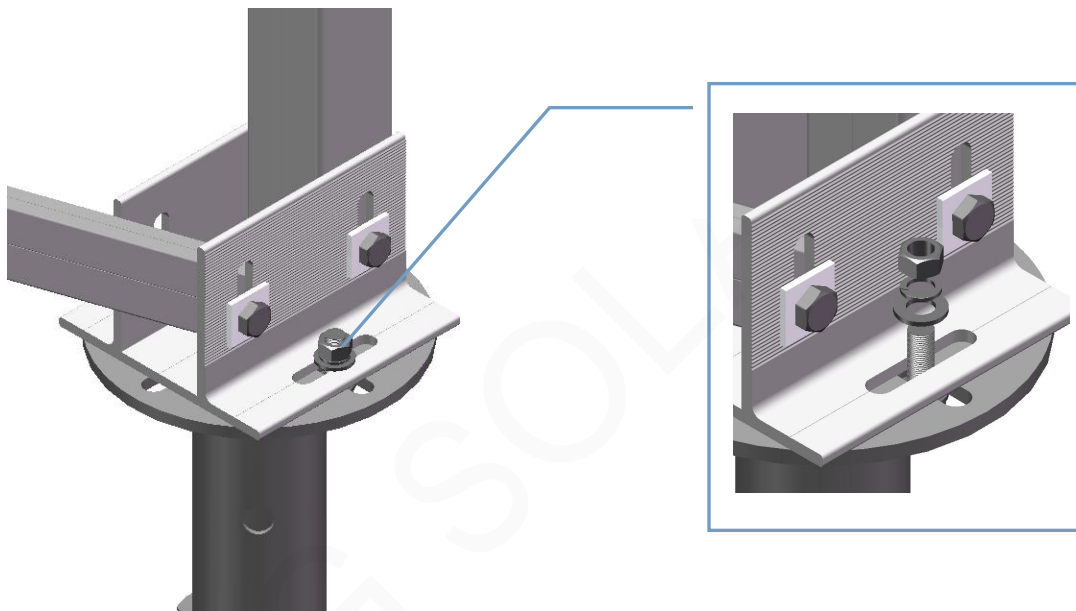


Spread it and confirm the location, then fix it with screw and bolt, please see below:

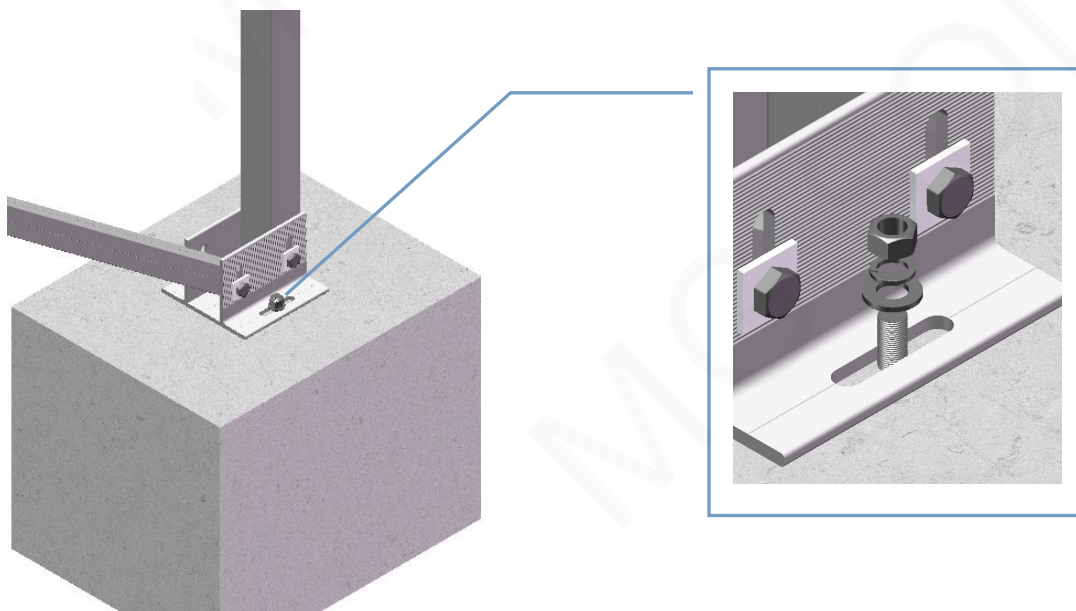


2.3 Connect Pre-assembled mounting part with different foundations

◆ Screw Pile Foundation:



◆ Concrete Block Foundation



After building connection with foundations, you can get below result:

a) Screw Pile Foundation



b) Concrete Block Foundation

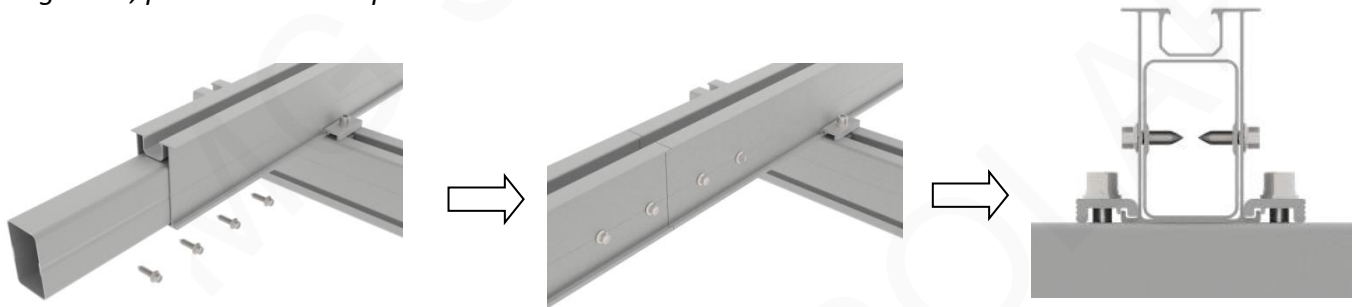


2.4 Grounding Rail Installation

According to the drawing, put the rail on the right position of main beam and use grounding rail clamp to fix it in the main beam, please see below pictures:

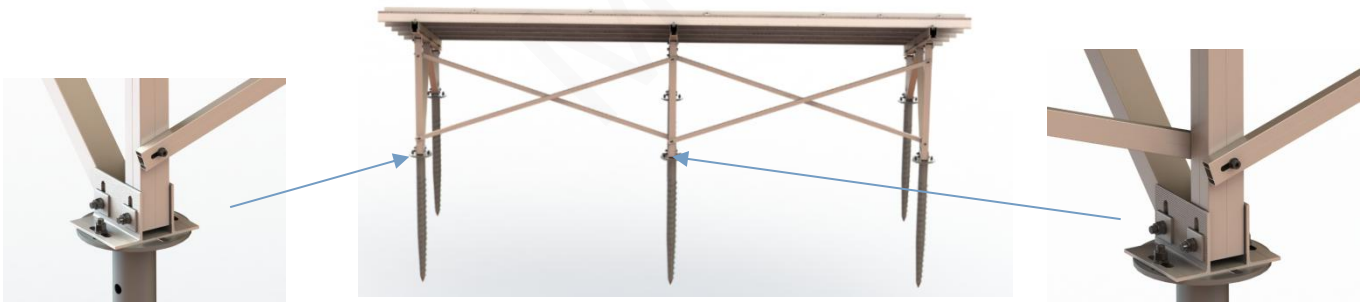


When the length of grounding rail is not enough, we can use grounding rail splice kit to connect them to get longer rail, please see below pictures:



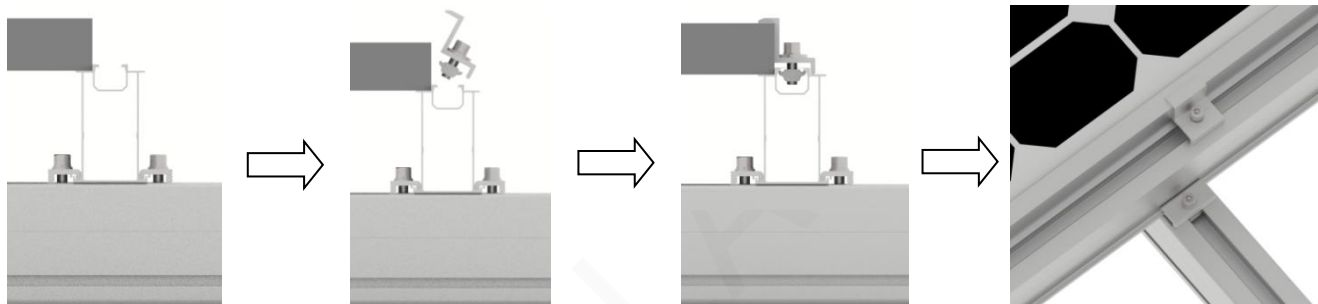
2.5: Back Support Installation

About the installation details of back support, please see below pictures:

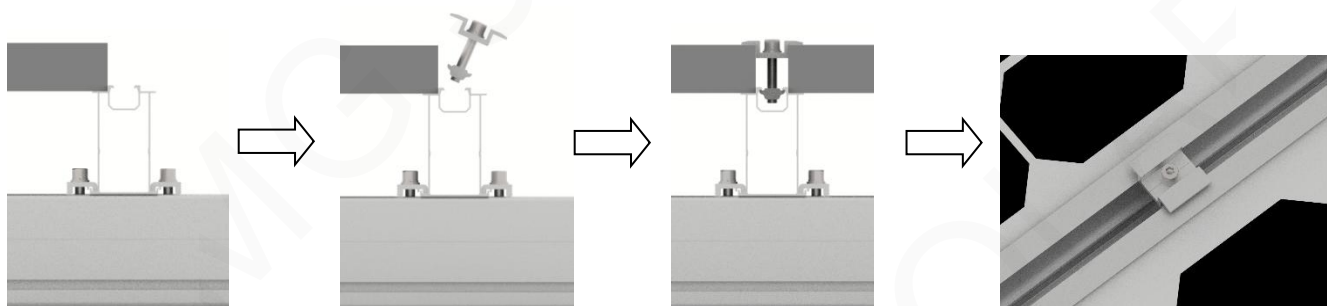


2.6 Solar Panel Installation

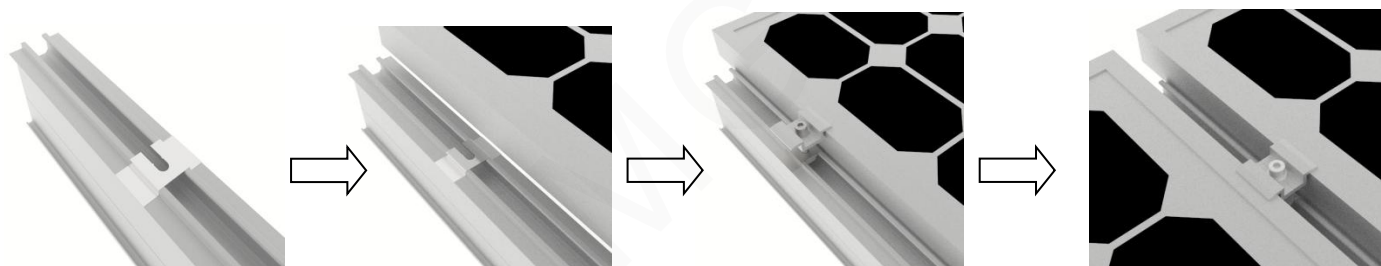
2.6.1 Using End Clamp to fix solar panel



2.6.2 Using Mid Clamp to fix solar panel



2.6.3 Grounding Clip Installation



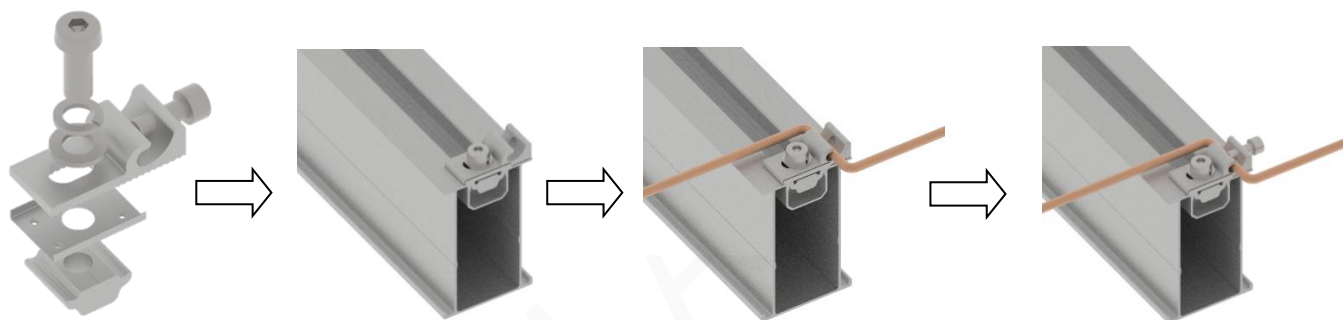
Put grounding clip
on the grounding rail

Put solar panel on the one
side of grounding clip

Mid clamp installation step
same as 2.62

Put solar panel on the other side
of grounding clip, then locked it.

2.7 Grounding Lug Installation



Finished.