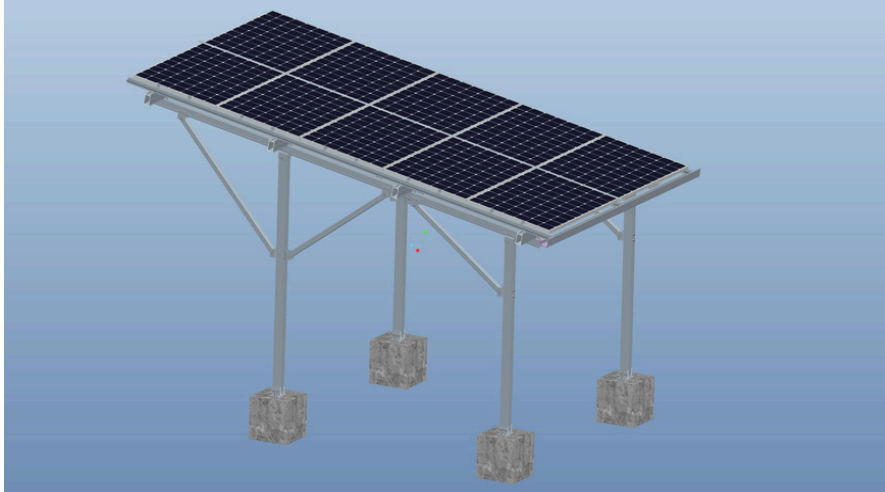# Installation manual

1. Preparation

1.1 Safty

Please use the following tools and pay attention to safety during construction

Safety Clothing   Safety Shoes   Helmet   Safety Glas   Goggles

1.2 Tools

Allen wrench M8-M12   Wrench M8-M12   Twist Wrench M8-M12   Electric Rotor   Awning Turned

Electric Screw   Tape Measure   Rope   Wood Hammer

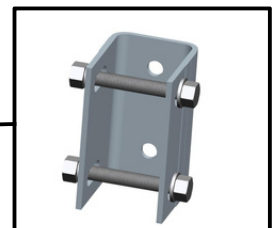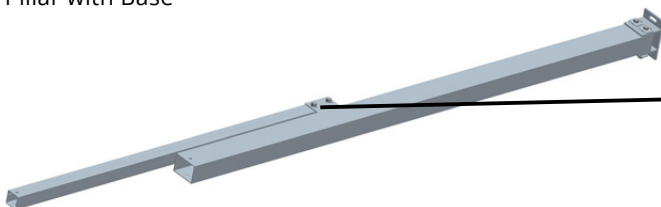| Outer hexagonal bolt	Type of sleeve:	Inner hexagonal bolt	Type of sleeve:
ST6.3	10mm sleeve	M8	6mm hexagon wrench
M10	16(17)mm sleeve		
M12	18(19)mm sleeve		

If there is another type of bolt,pls use other sleeves

Sleeve

1.3 Solar Accessories

Preassemble Beam

Preassemble Pillar with Base

Other Accessories

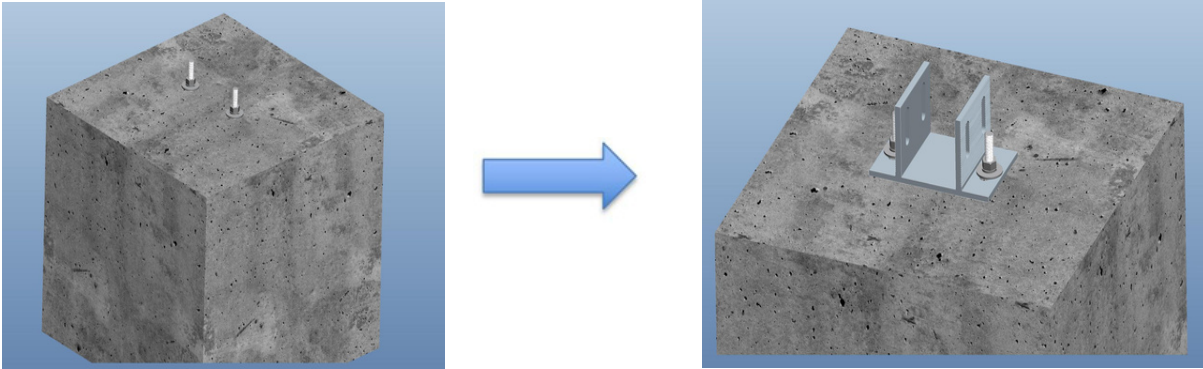|				
R035 Rail	R043 waterproof rail	SR-0015 for R034 rail	U Shape Rail (guiding gutter)	Gasket
End Clamp	Mid Clamp	Rail Clamp	Cover Plate	Pillar 60X60	Angle Aluminum
Guiding Gutter	Embedded Bolt	Bolt	Earth Lug	Earth Clip	Rail Cap	Beam Cap
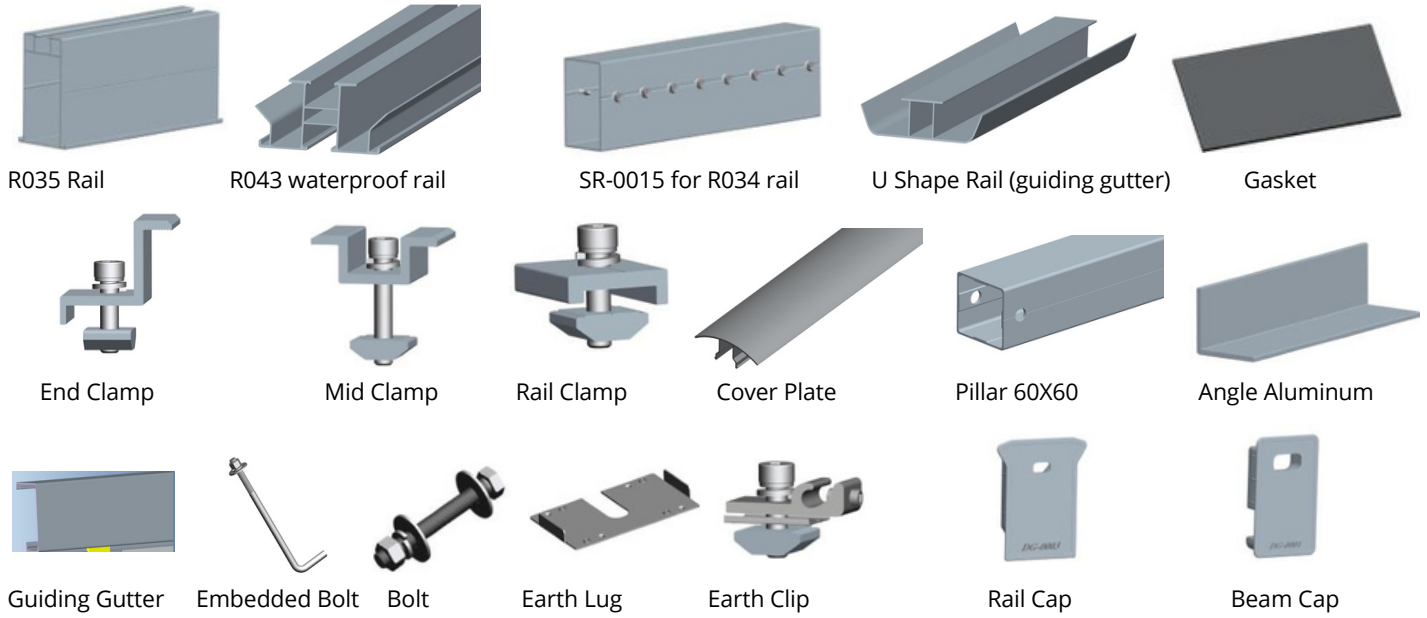
2. Installation

2.1: Prepare Base on the concrete block ,use

2.2: Install Pre-assembled Pillar to the base and insall the Pre-assembled Pillar Beam

Refer the drawing to fix the corresponding pillar on the base.
Fix the reinforcing pillar to the splice of the pillar and splice of the beam
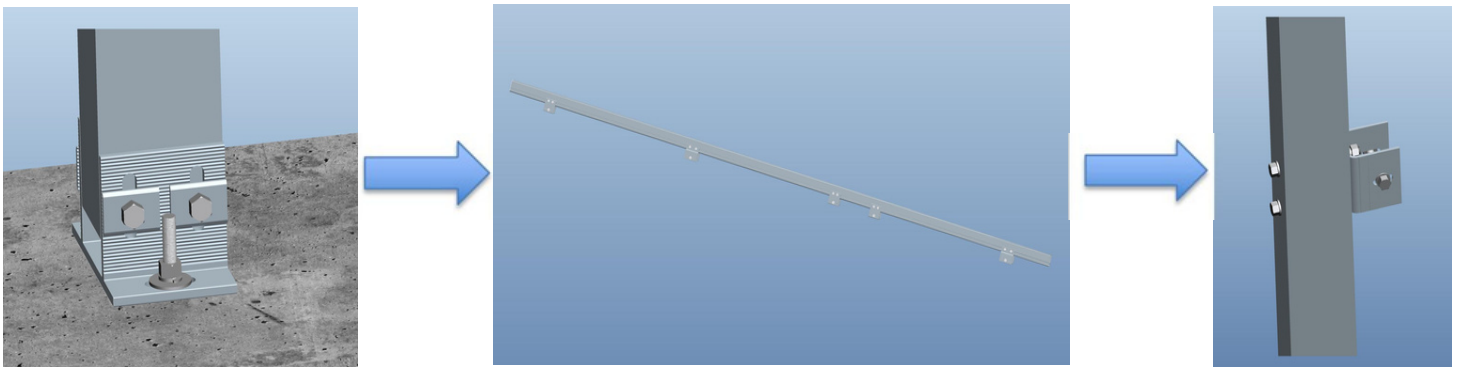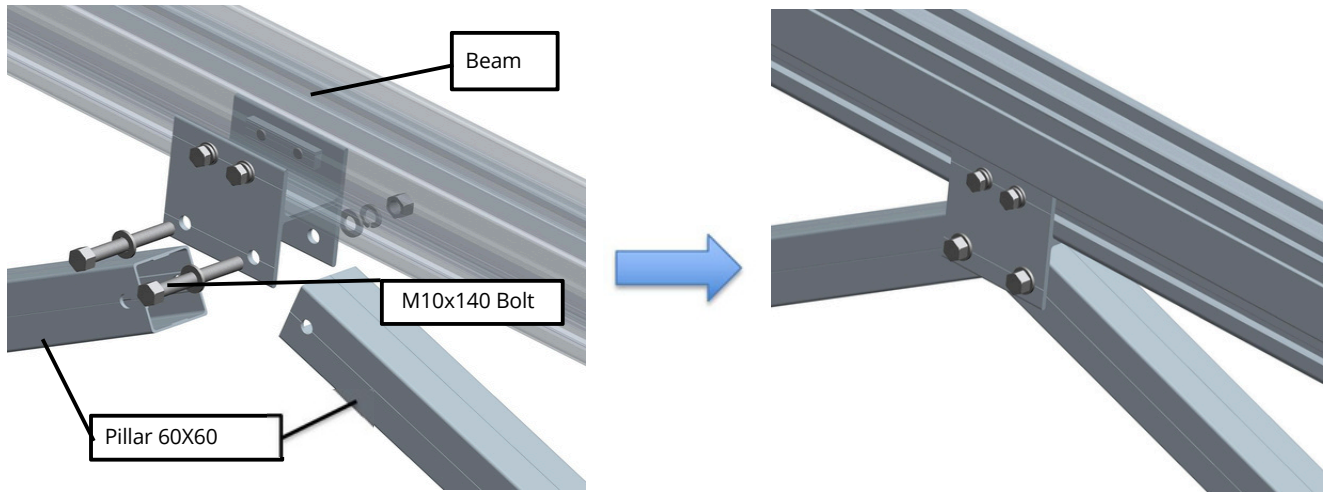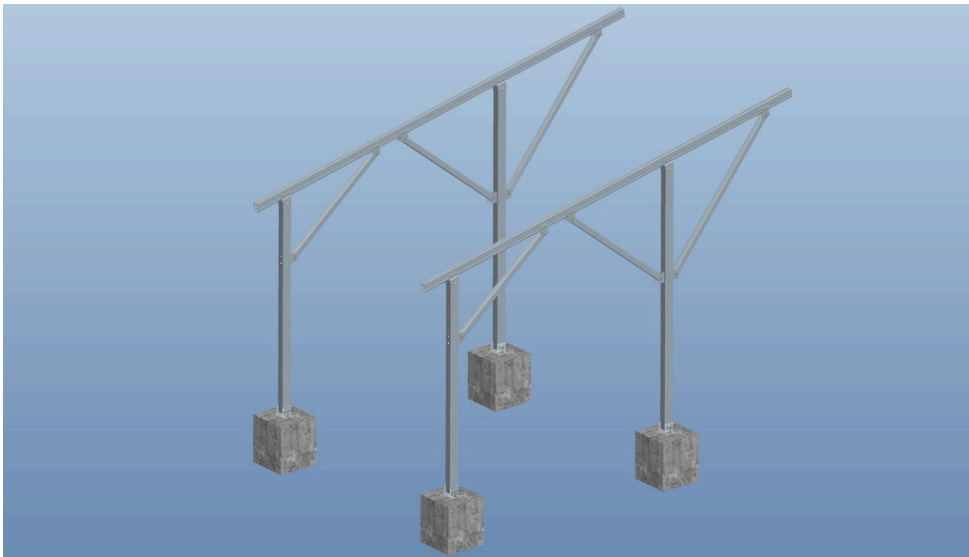
Refer to following pic
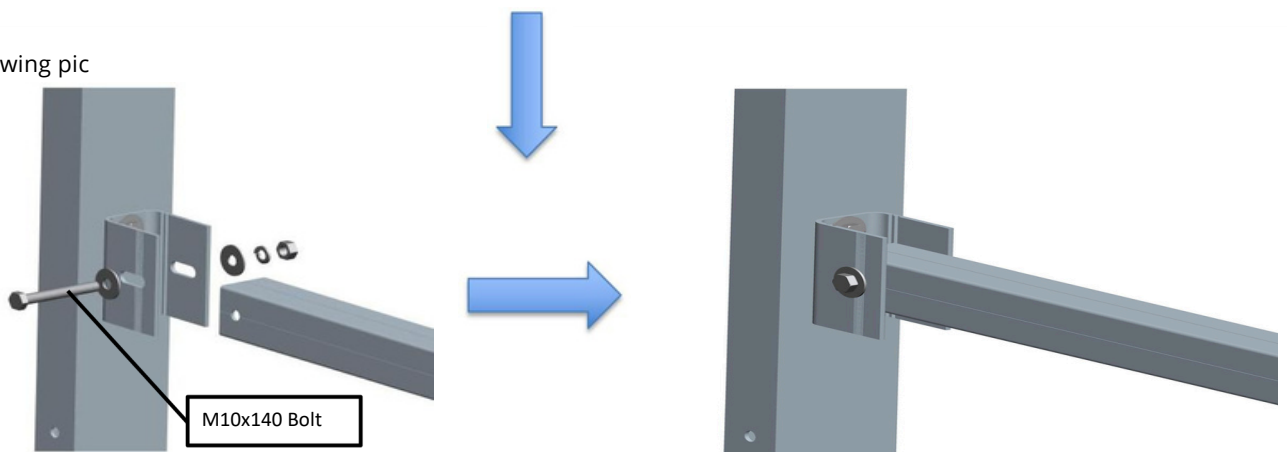
M10x140 Bolt

2.3: Use M10x140 Bolt to connect Preassemble Beam and Preassemble pillar.
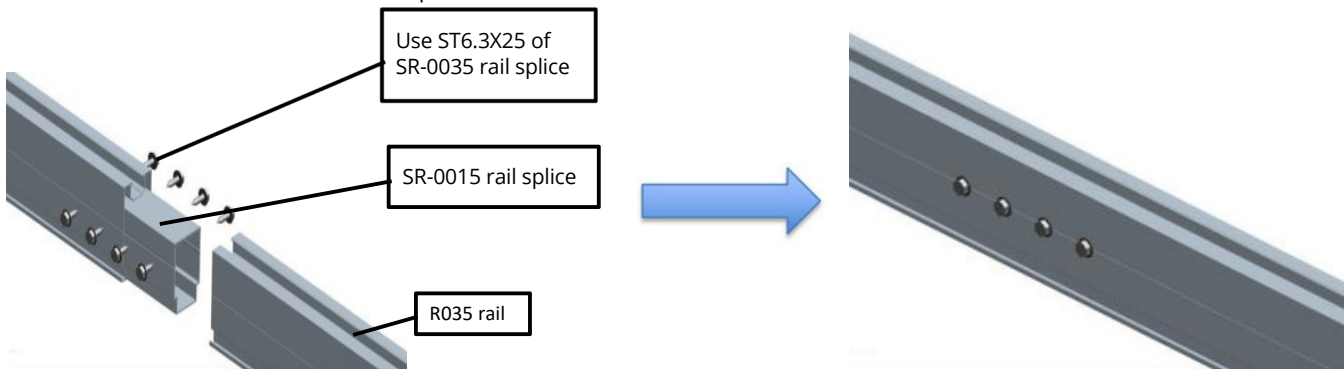
Beam

M10x140 Bolt

Pillar 80X110

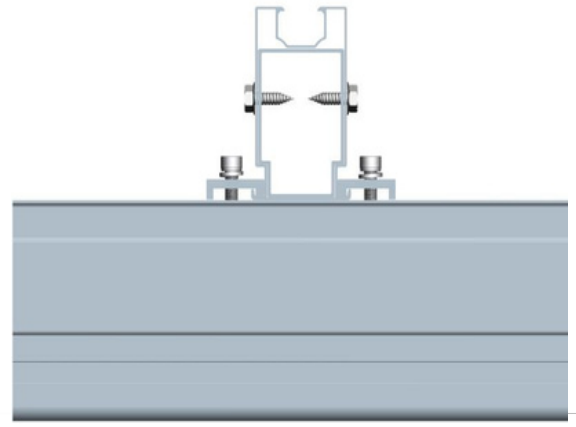2.4: Use M10x140 Bolt to connect Preassemble Beam and Preassemble pillar

Beam

M10x140 Bolt

Pillar 60X60
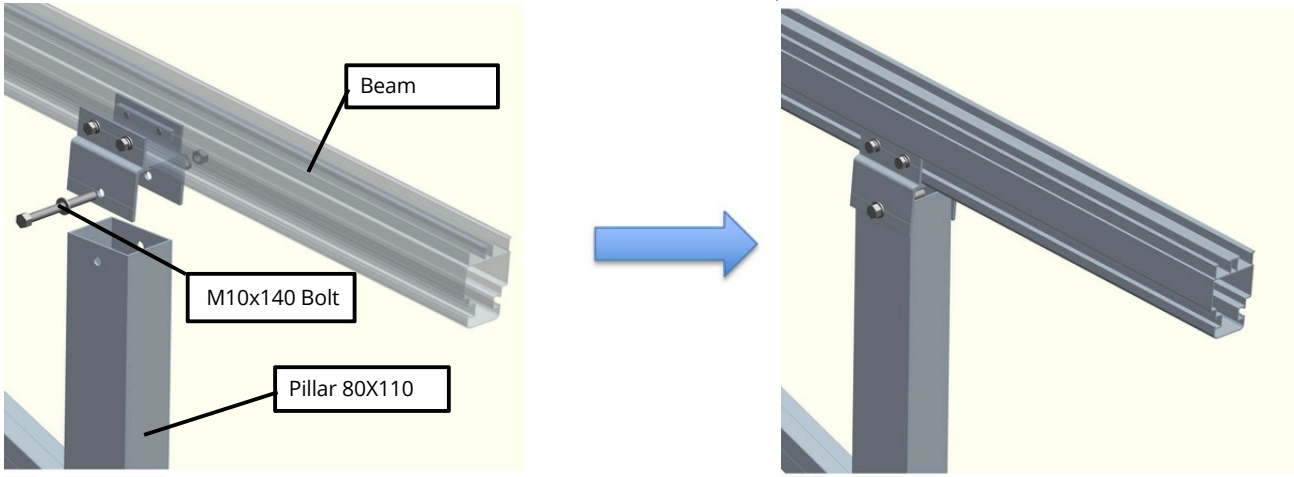
Completed

2.5 Install R034 Rail and SR-0035 Rail Splice
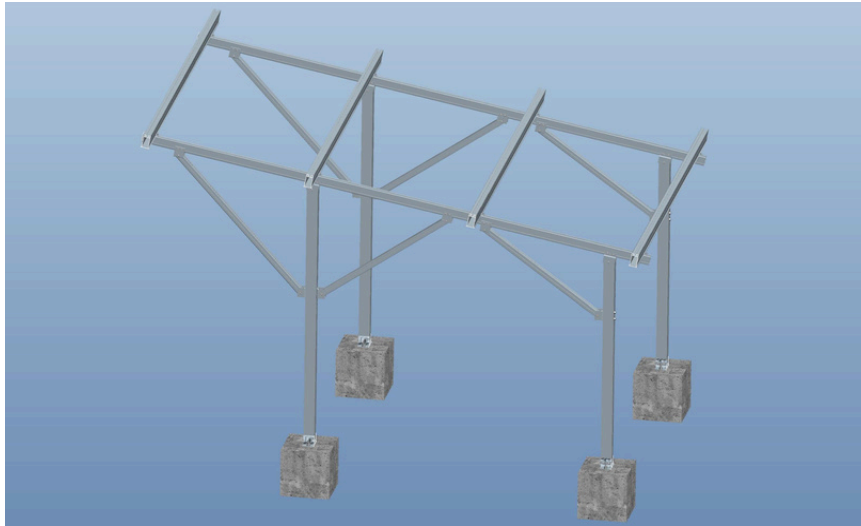
Use ST6.3X25 of SR-0035 rail splice

SR-0015 rail splice

R035 rail

2.6: Use rail clamp to fix R034 rail to Beam

Rail Clamp

Rail
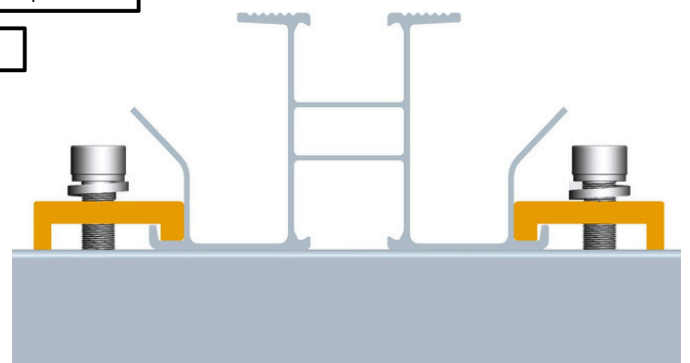
Beam
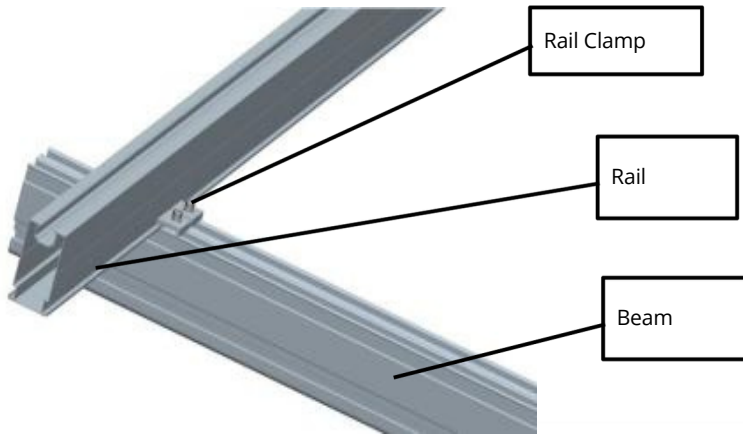
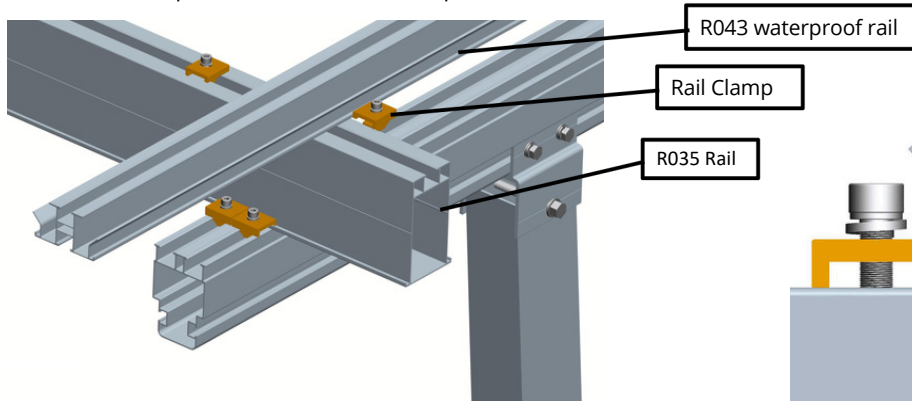Tips： pls install the rail clamp as following steps
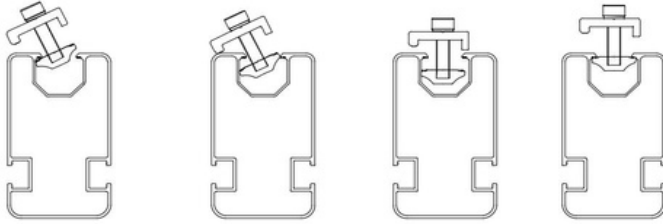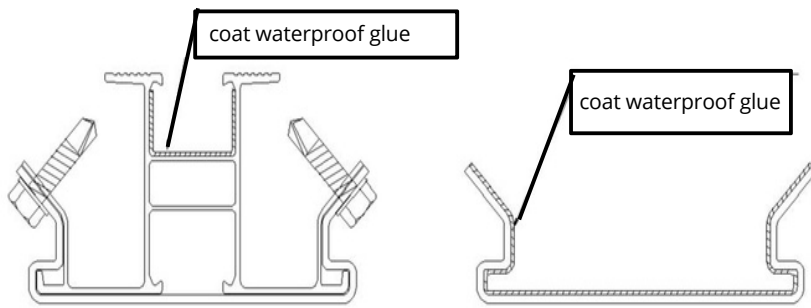
Completed

2.7 Install R043 waterproof rail

①.Use rail clamp to connect R043 waterproof rail to R043 rail
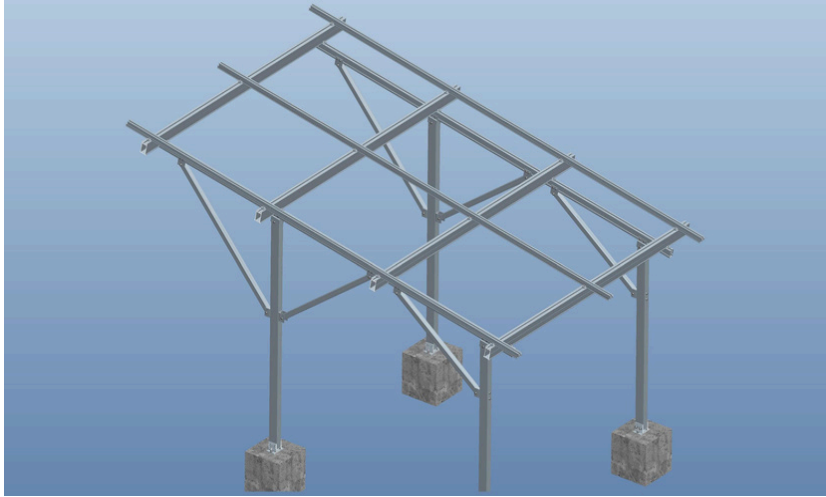
R043 waterproof rail

Rail Clamp

R035 Rail

Use SR-0041 waterproof railing splice to connect waterproof railing
Tips :The interior of the waterproof rail splice and the connection of the waterproof rail should be coated with waterproof glue to prevent water leakage.
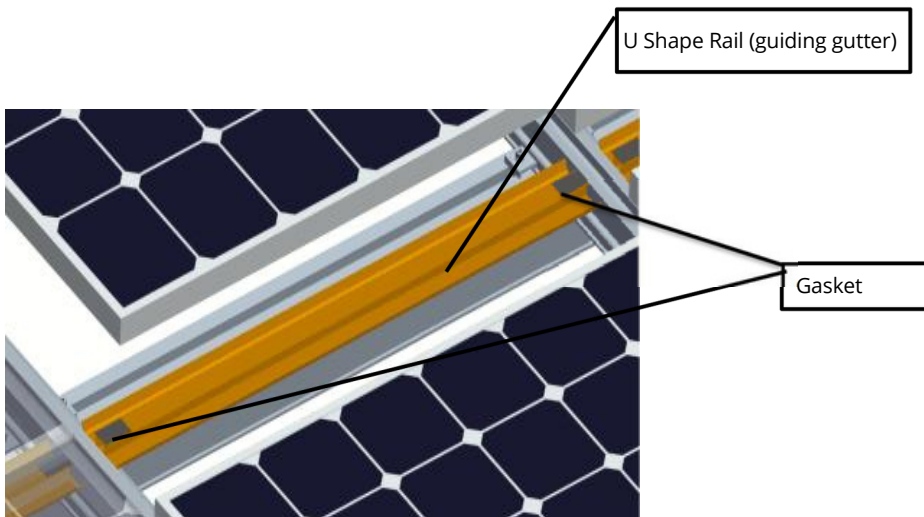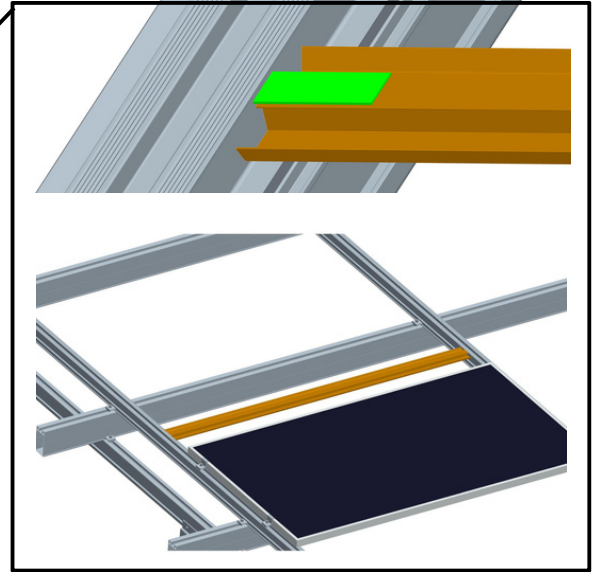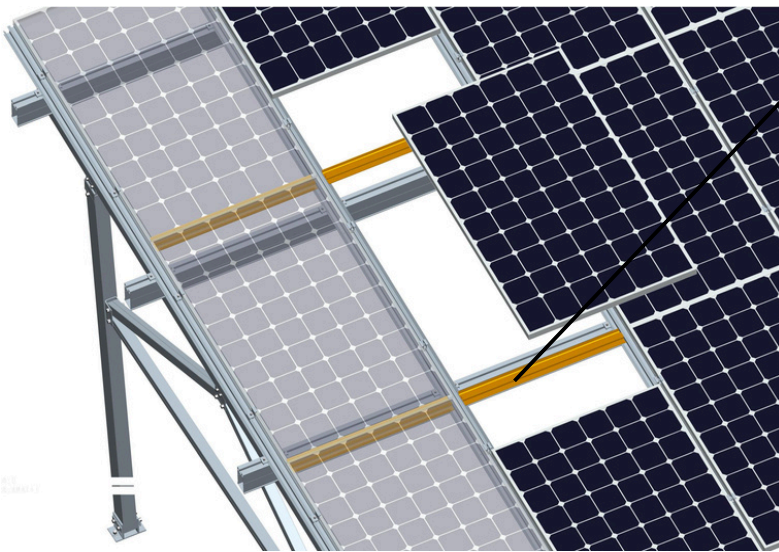
coat waterproof glue

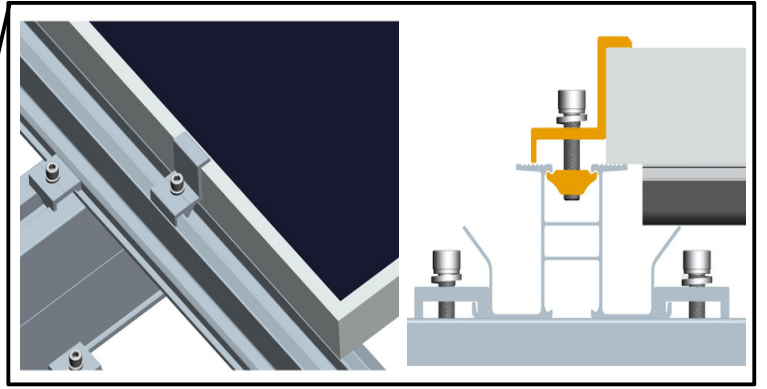coat waterproof glue
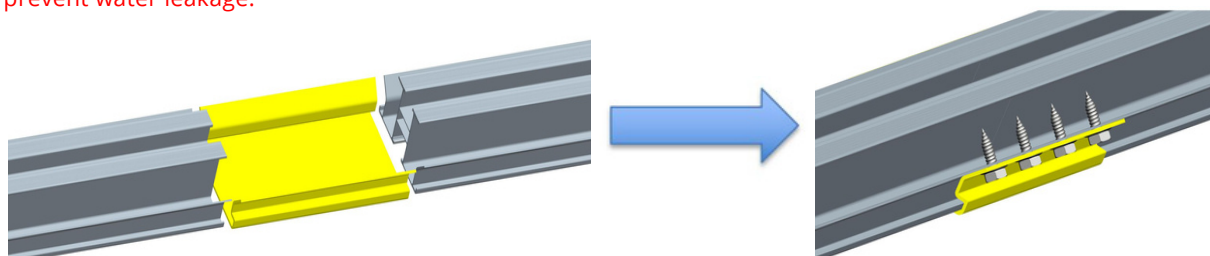
Completed

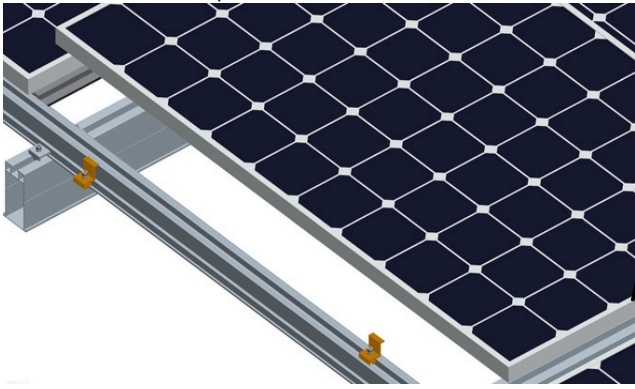

2.8 : Install solar panel,U Shape Rail (guiding gutter and gasket)

①.Put U Shape Rail (guiding gutter) between rail and panel,and fixed by panel.
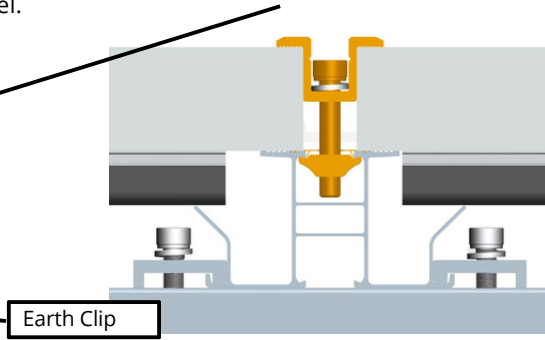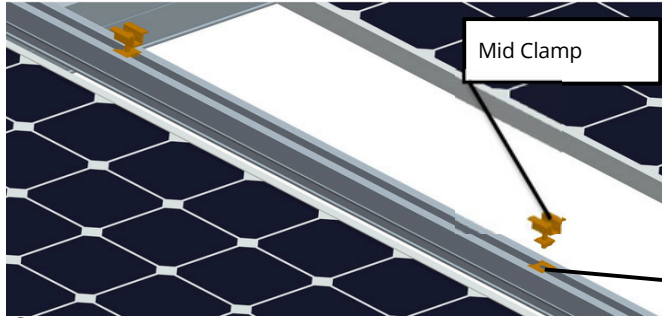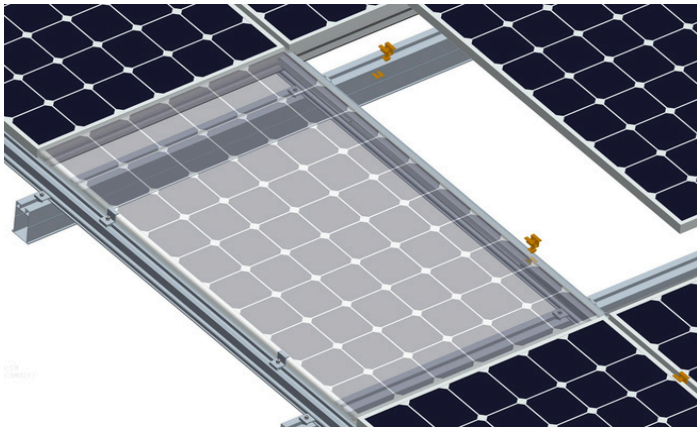

U Shape Rail (guiding gutter)
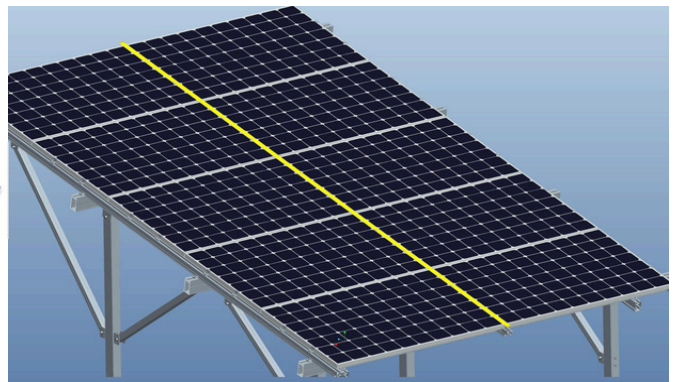
Gasket

2.9 : Install End clamp

2.10：Install Mid clamp,Earth Clip

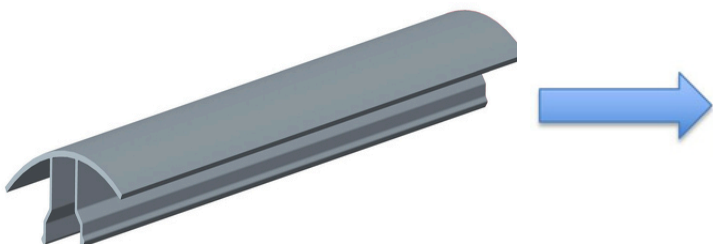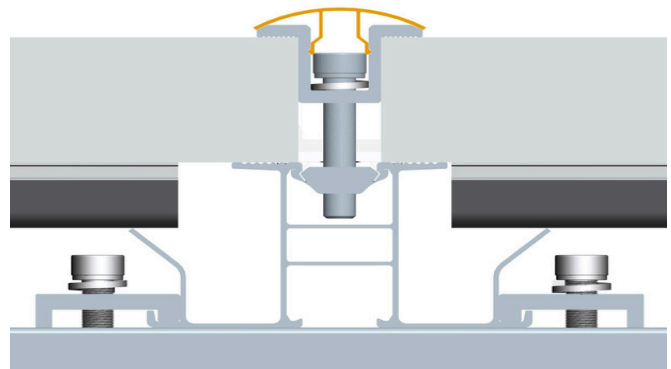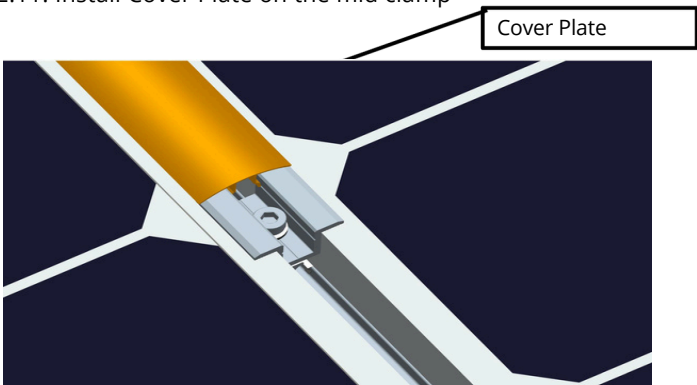①:Put earth lug under mid clamp,and then fix the solar panel.

Mid Clamp

Earth Clip

②：Earth lug will break the oxidation film of rail and panel to conduct electricity
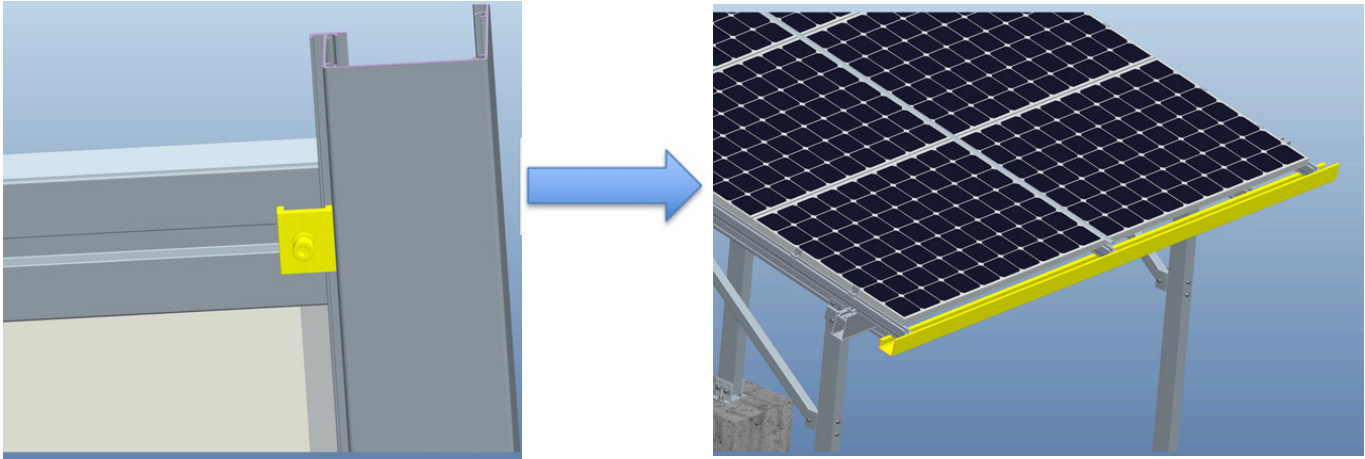

2.11: Install Cover Plate on the mid clamp

Cover Plate

2.12: Install Guiding Gutter

Place the Guiding Gutter on the lowest of the panel (one end of the gutter aligned with the horizontal rail).
Use the rail to fix the Guiding Gutter under the waterproof guide rail, to guarantee the water Guiding Gutter can take in the water on the panel.
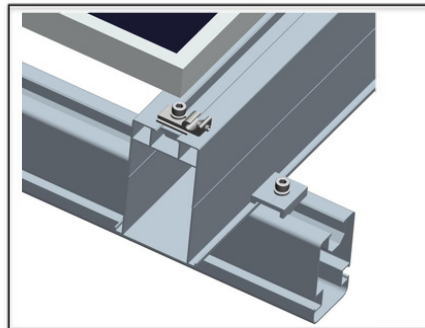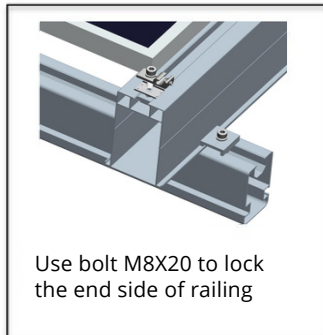

2.13 Install Earth Clip ,Rail Cap , Beam Cape

Solar Accessories	How to **install**	Complete

Earth Clip

Rail Cap   Beam Cap

Use bolt M8X20 to lock the end side of railing

Completed :