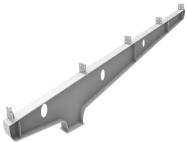
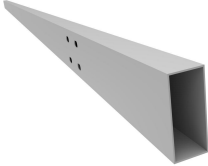


Installation Manual for the waterproof carport

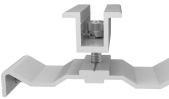
Installation effect drawing:



Components:

NO.	1	2	3	4
Name	Column	Beam	Purlin	Pull Rod
Pic.				
Material	Q355B	Q355B	Q235B	Q235B

NO.	5	6	7	8
Name	M Rail	Module Support	Horizontal U water channel	Cover
Pic.				
Material	S350GD+ZM	S350GD+ZM	S350GD+ZM	AL6063-T5

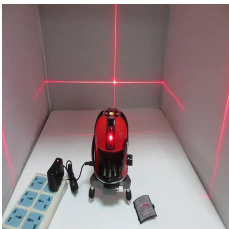
NO.	9	10	11	12
Name	Mid Clamp Assembly	End Clamp Assembly	Anchor Bolt M24*800	Hex Bolt M12X8
Pic.				
Material	AL6063-T5&SUS304	AL6063-T5&SUS304	High Strength Bolt	SUS304

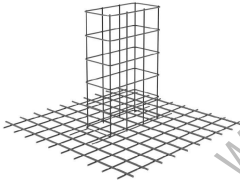
NO.	13	14	15
Name	Hex Bolt M14*30	Hex Bolt M18*50	Self-tapping Screw ST5.5*25
Pic.			
Material	SUS304	SUS304	SUS304

Tools:

Name	Crane	Excavator	Electric Wrench
Pic.			

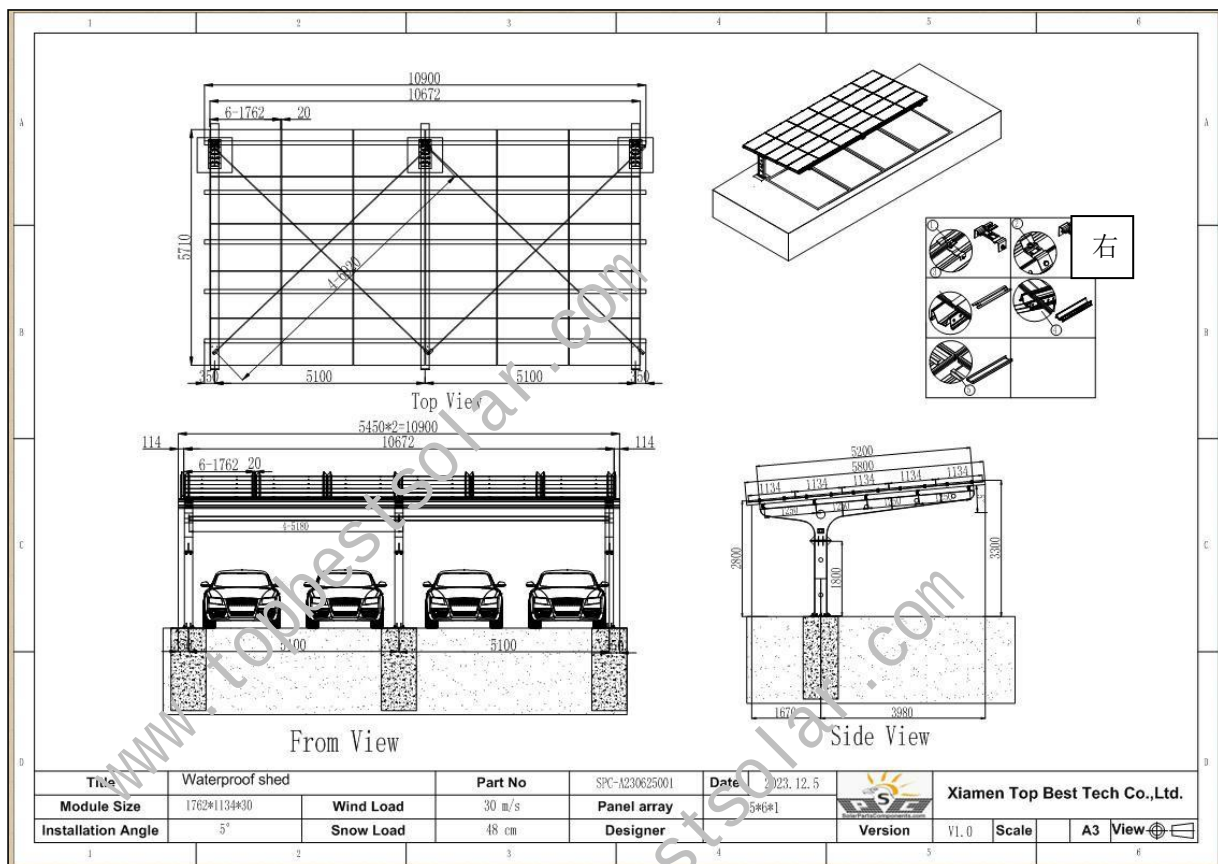
Name	Tapper	Money Wrench	Hex Wrench
Pic.			

Name	Laser level meter	Horizontal line	Open-end Wrench
Pic.			

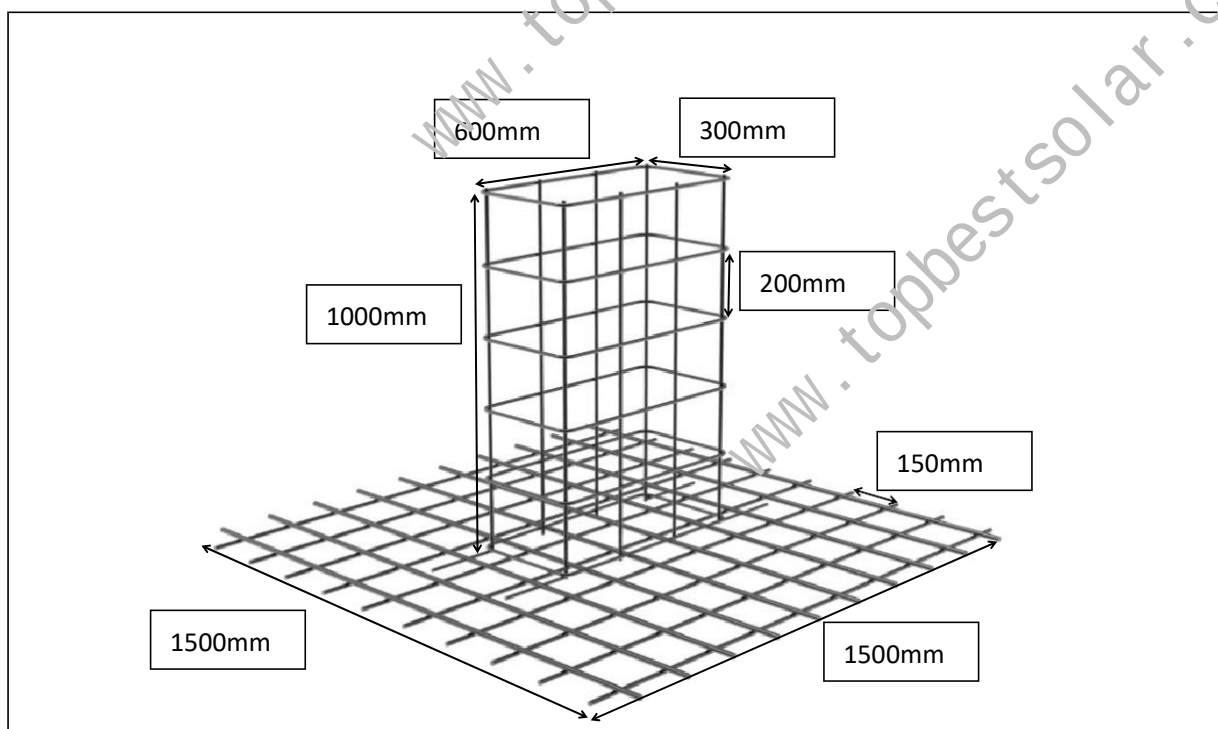
Name	Concrete	Reinforcement cage	MS Socket spanner
Pic.			

Installation Steps:

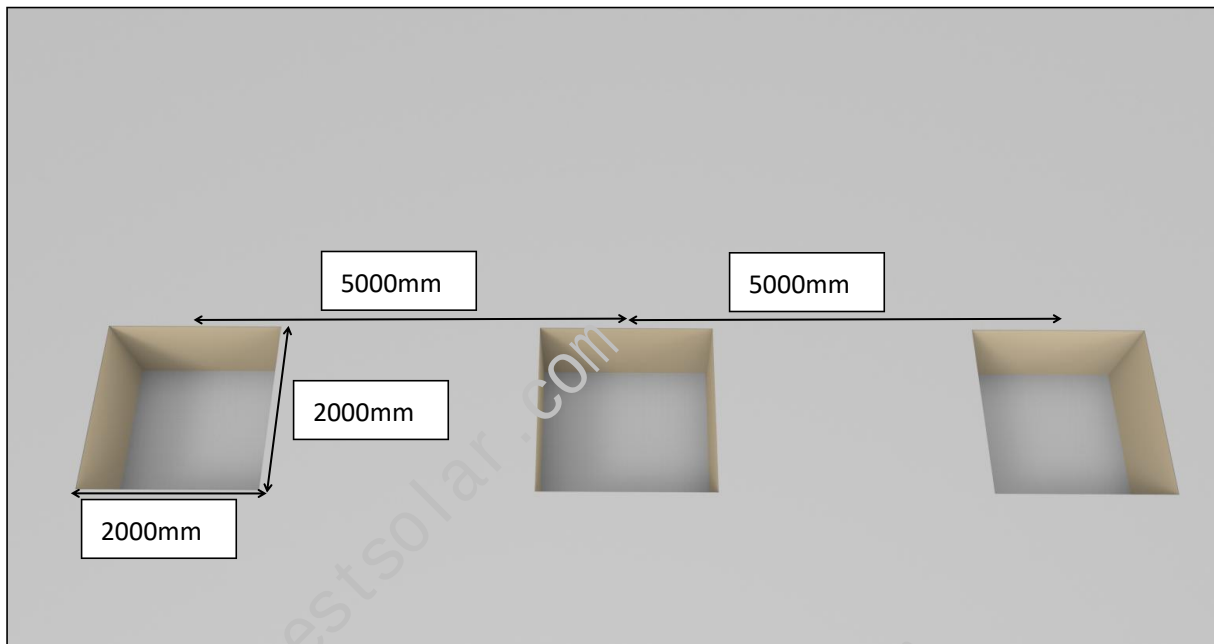
1. Drawing



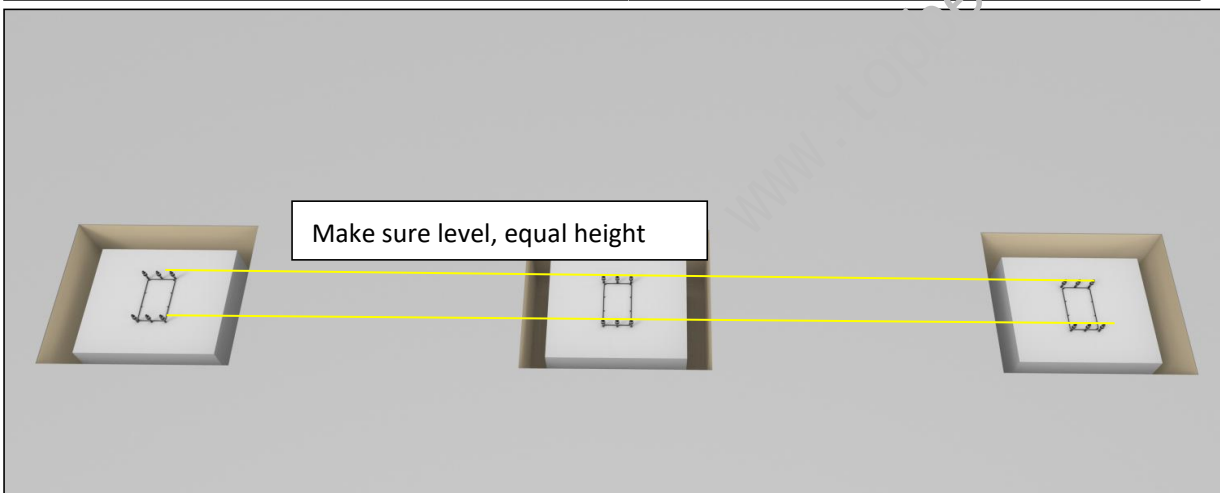
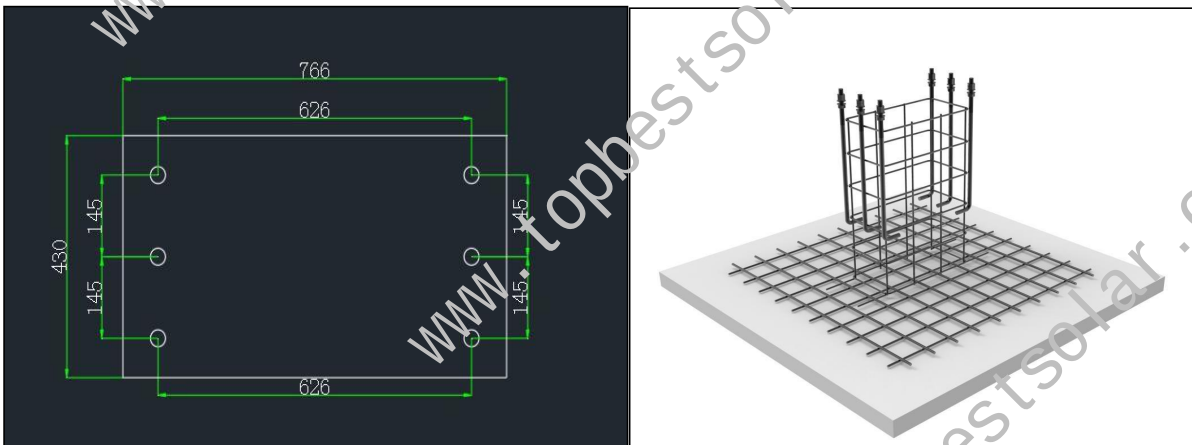
In the preliminary preparation work, the steel cage is made. The diameter of the steel bar is 10mm. The size of the reinforcement cage is as follows:



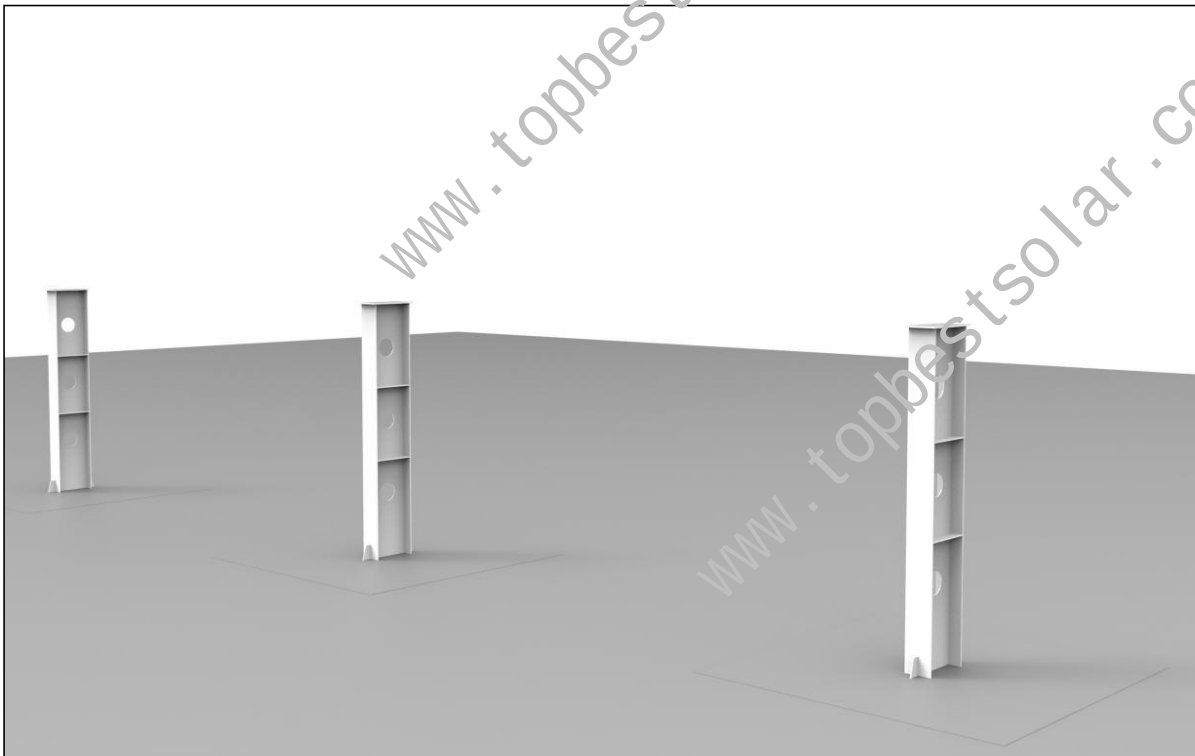
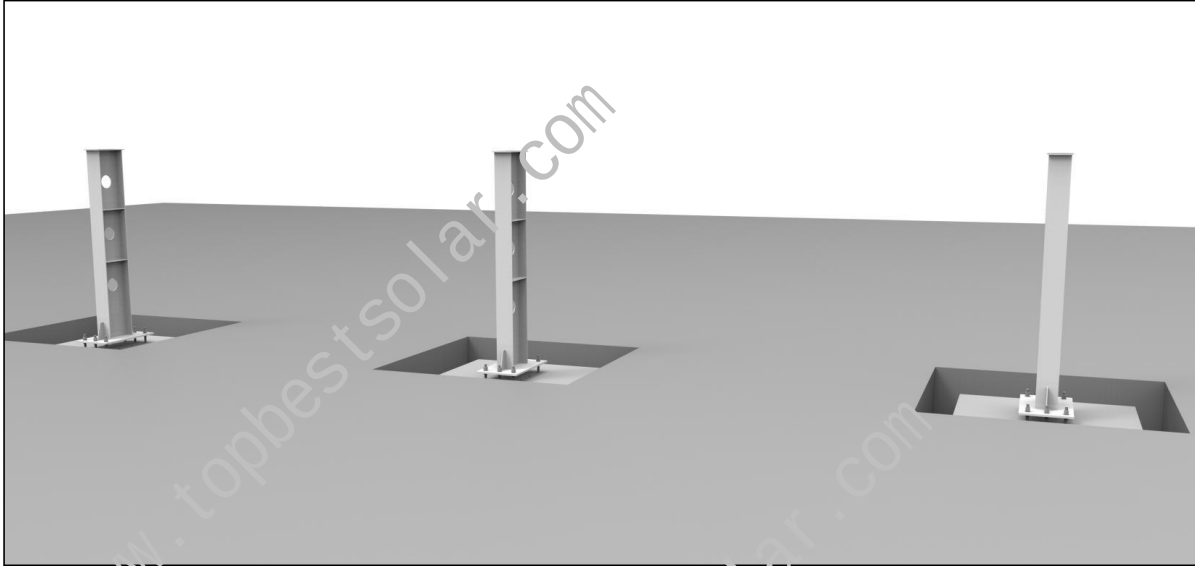
2. Dig holes, hole size: L2000xW2000xH1200mm, hole distance 5000mm, Fill the bottom to ensure that the bottom is equal height.



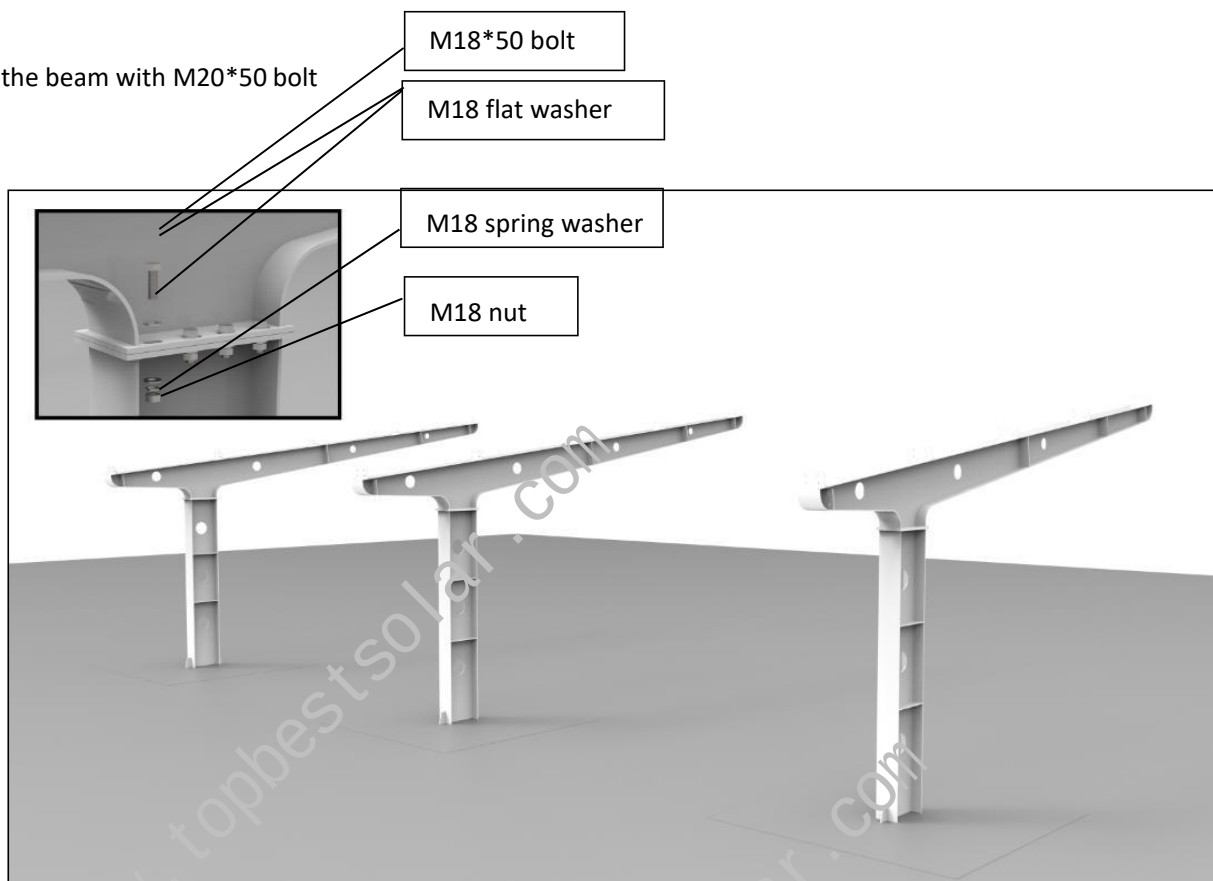
3. Precast cement foundation, cement foundation dimensions: L1500xW1500xH1000mm. *Pay attention to the distance of the anchor bolts, according to the size of the column and bottom plate, to ensure accuracy. We can also make a model of the same base plate for comparison. Anchor bolts exceed the cement foundation by about 200mm.



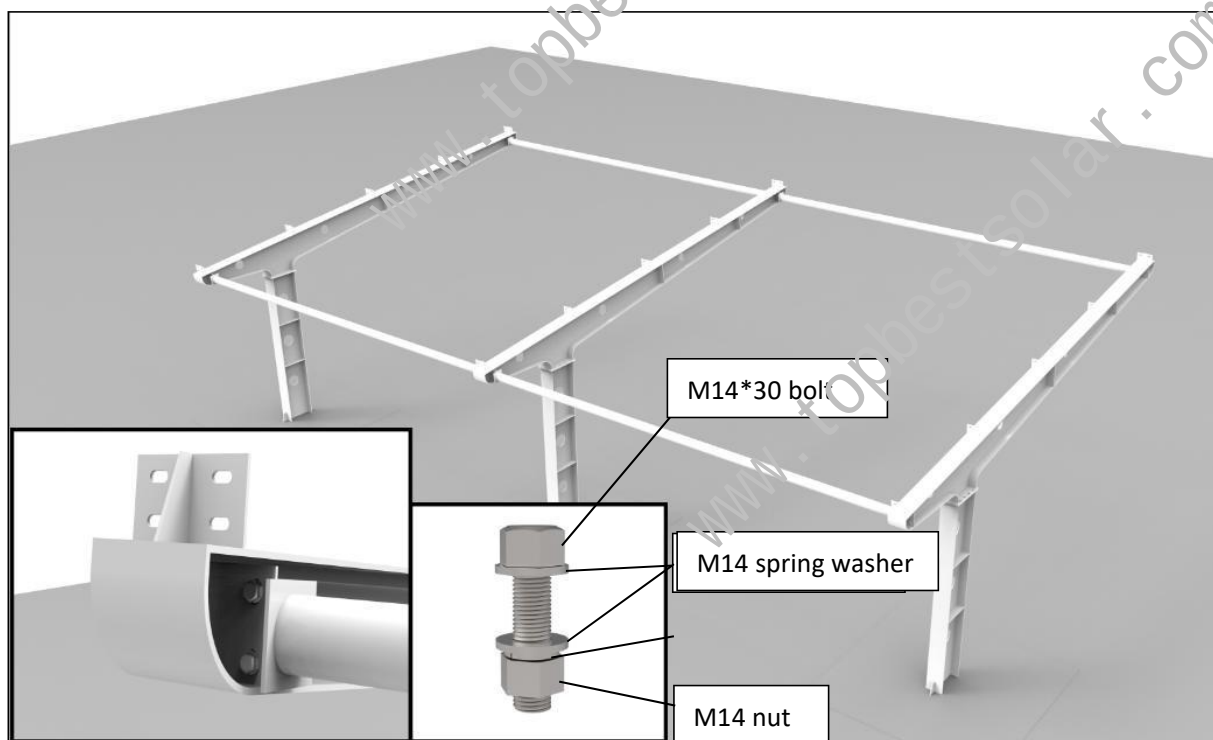
4. Install the Column, the nut on the anchor bolt can be adjusted up and down, and the level and height can be checked repeatedly to ensure that the concrete can be poured for reinforcement.



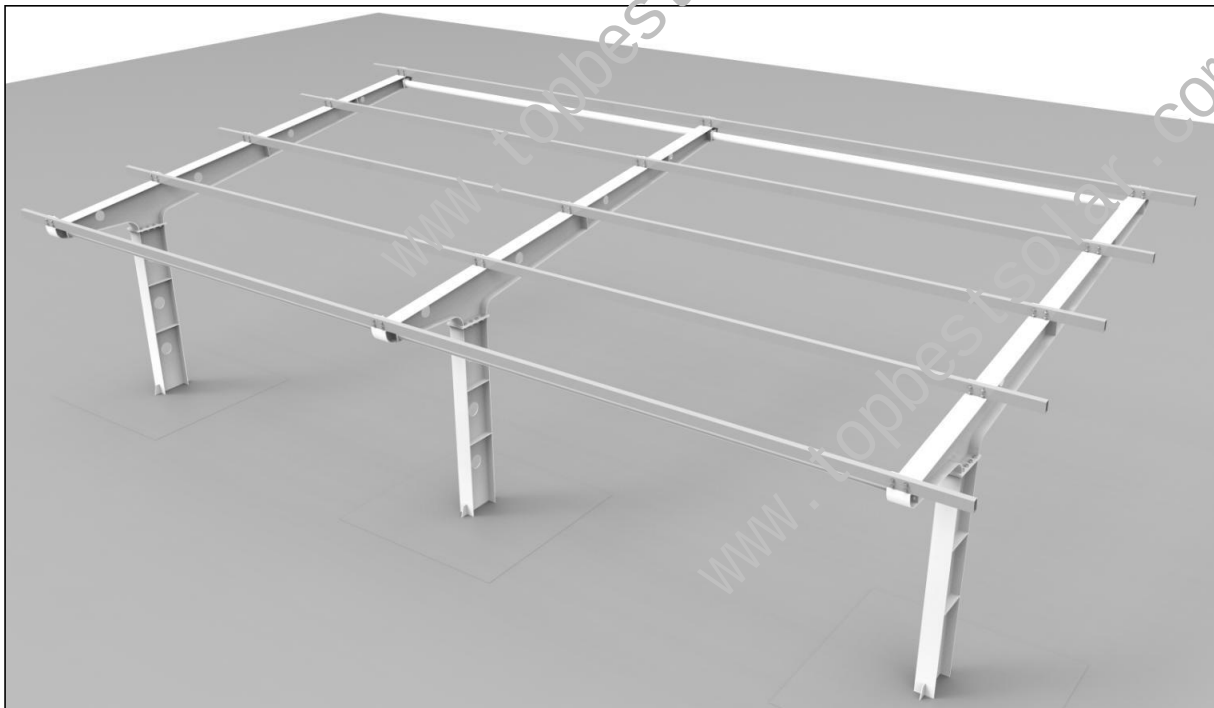
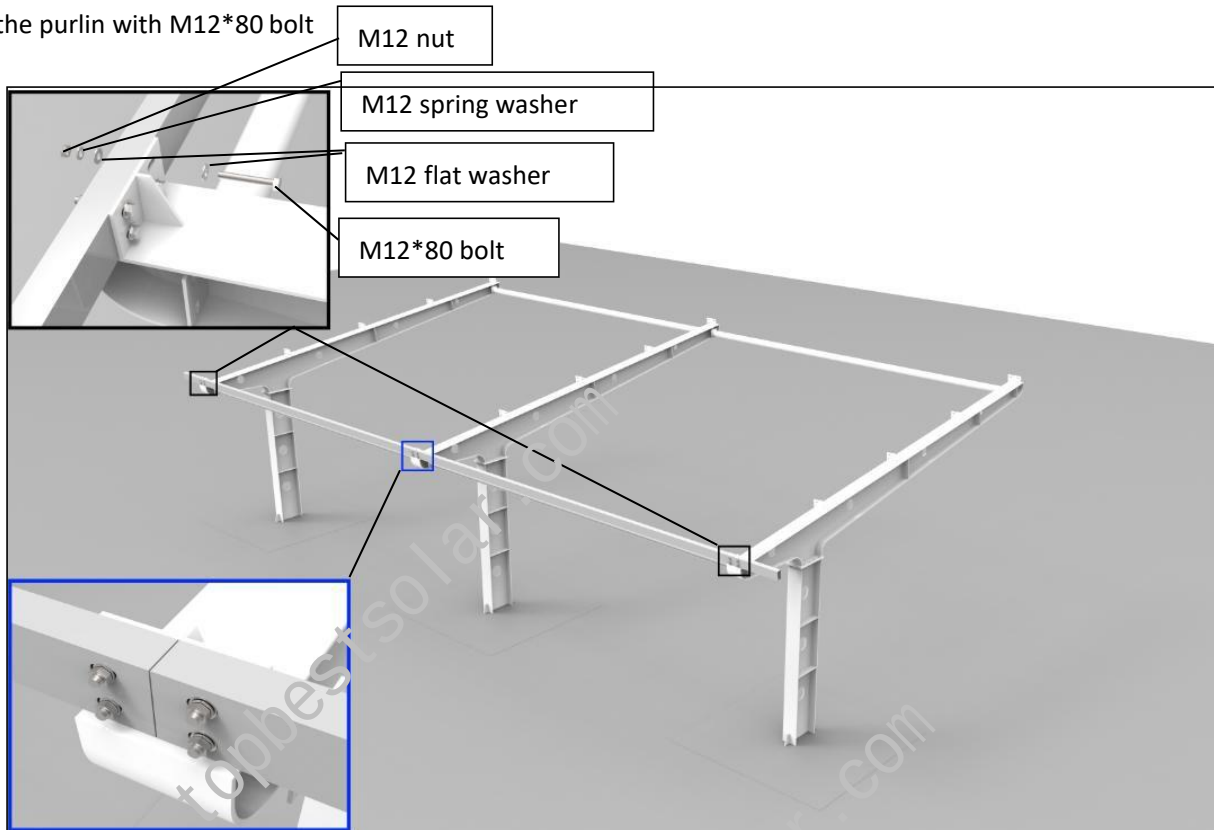
5. Fix the beam with M20*50 bolt



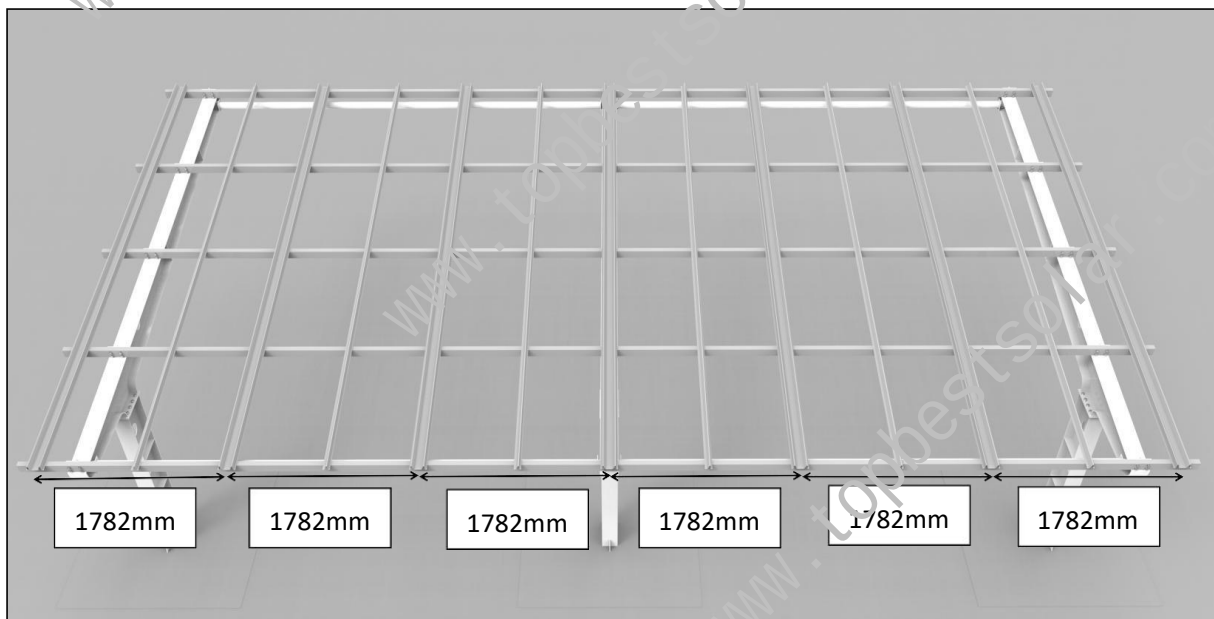
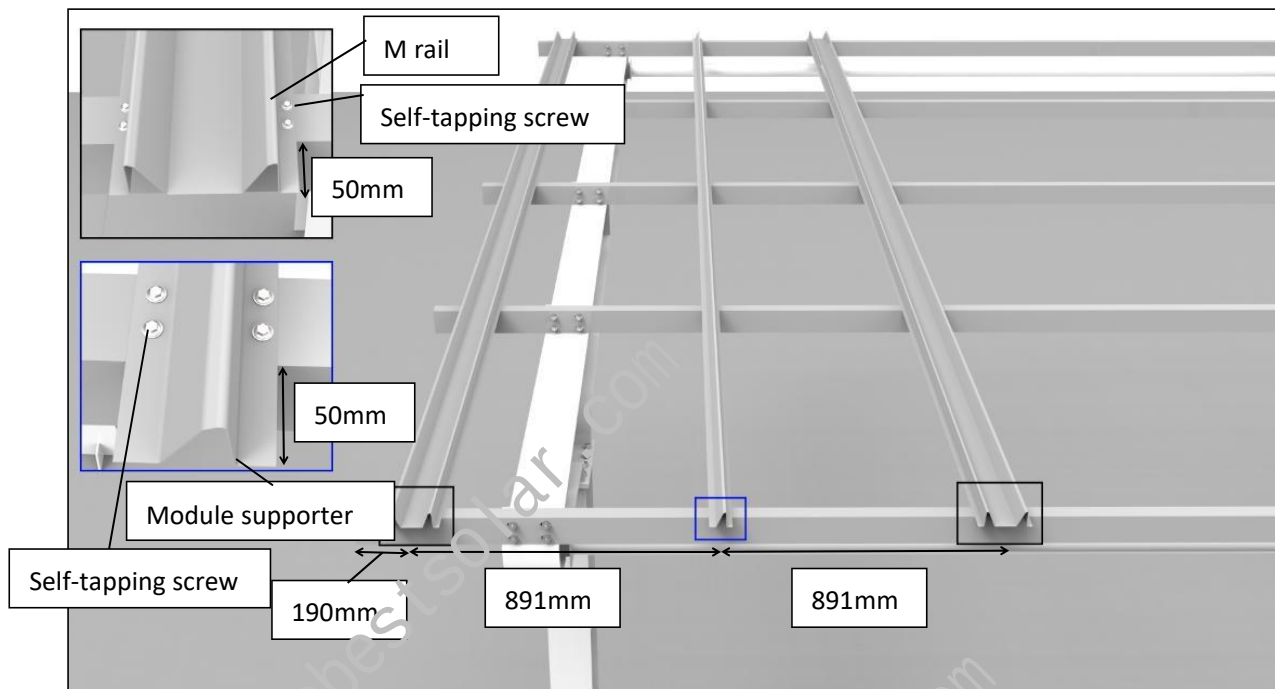
6. Install the pull rod, fix with M14*80bolt.



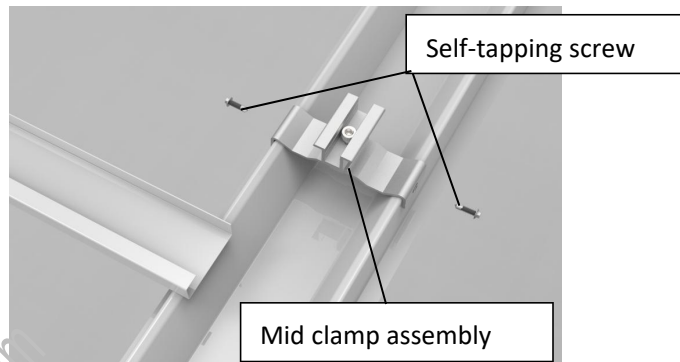
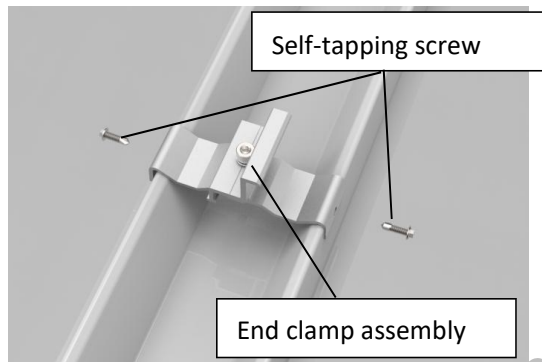
7. Fix the purlin with M12*80 bolt



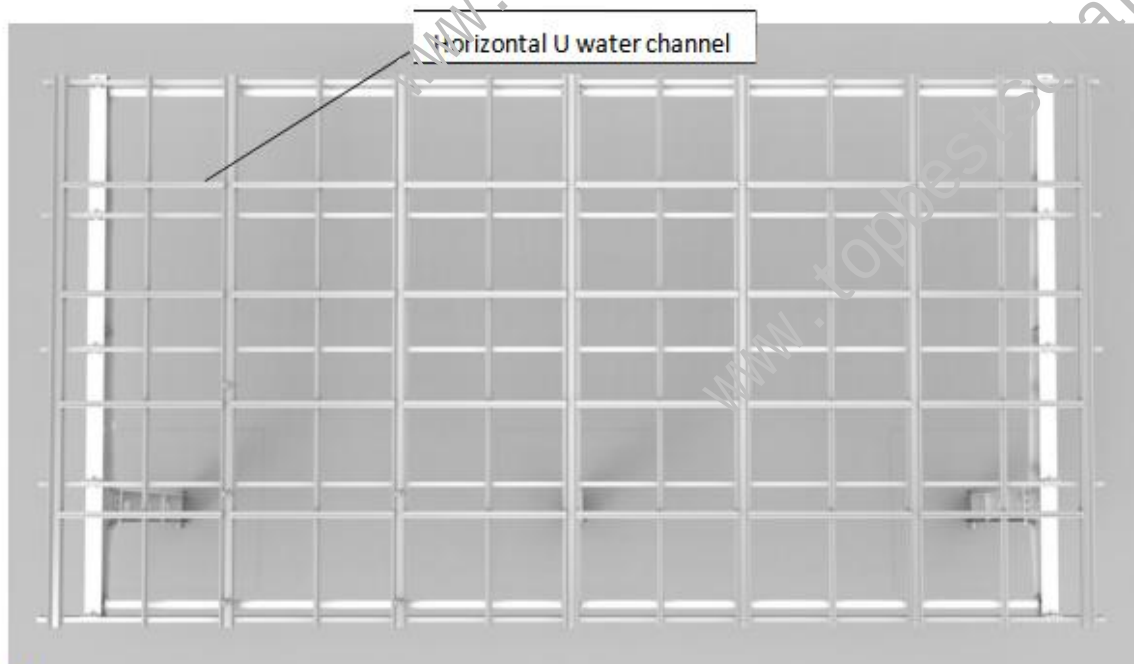
8. Fix the M rail and module supporter with self-tapping screws.



9. Install Modules, fix the mid and end clamp assembly with self-tapping screws, the horizontal U water channel is press between modules.



Horizontal U water channel distribution is shown below:



10. Aluminum Cover plate is installed at the mid clamp assembly.

