


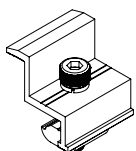
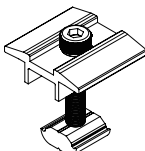
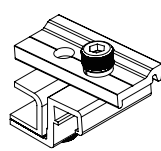

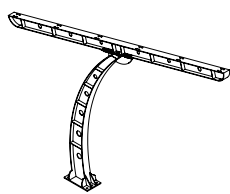
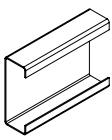
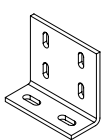



Carpark Installation Manual

I. Installation Tools

 <input type="checkbox"/> Tape Measure	 <input type="checkbox"/> Chalk Line	 <input type="checkbox"/> Labor Protection Products
 End Clamp	 Mid Clamp	 Rail Fix Kit
 <input type="checkbox"/> Allen key		
 Carport support structure		
 Rail	 Rail Fixed Kits	 <input type="checkbox"/> Open-end Spanner

II. Installation Rule

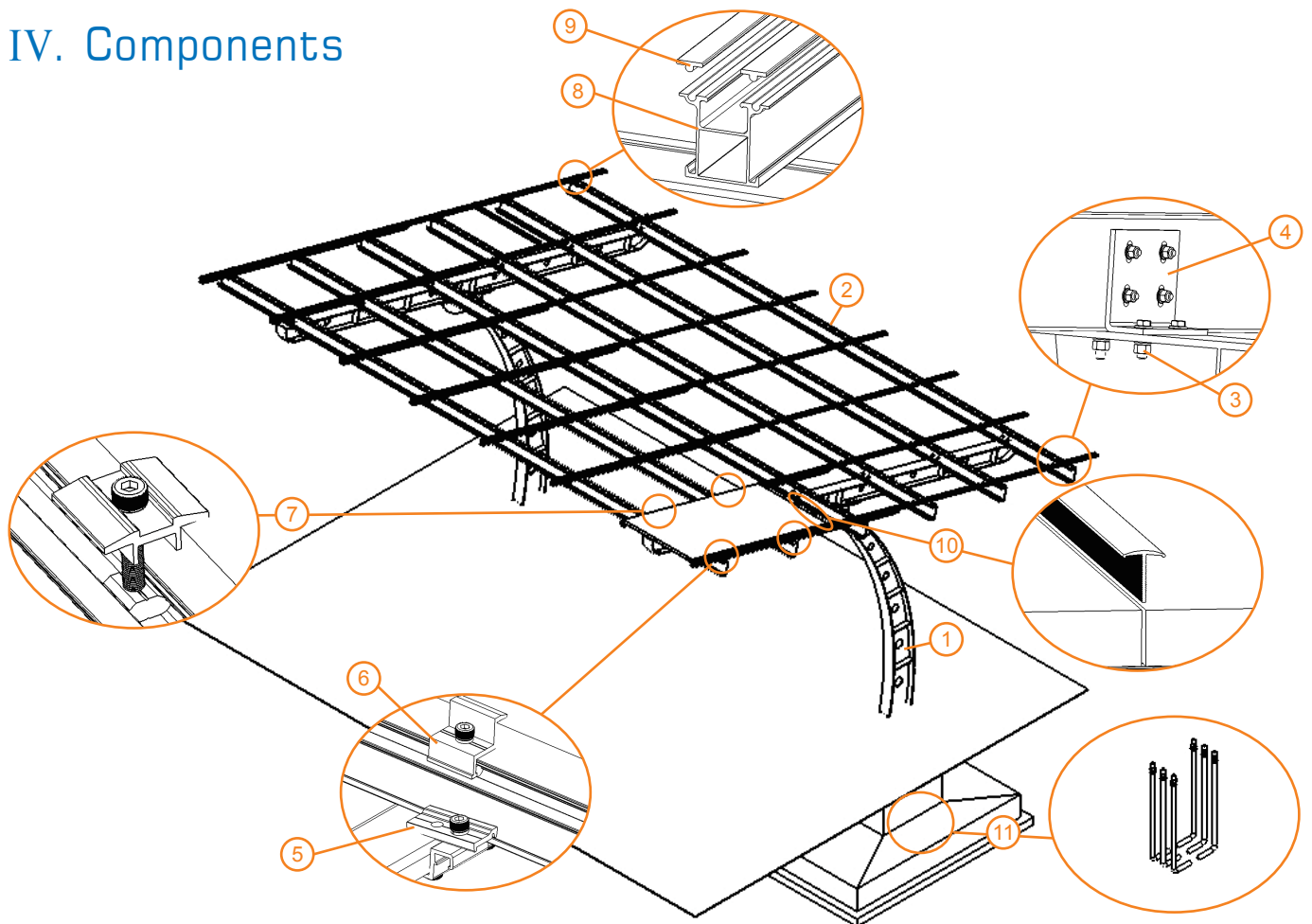
Installation of the framing shall conform to relevant local government standards, manufacturer's specifications and good building practice. The roof to which the panels are to be installed shall conform to the relevant local government standards.

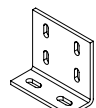
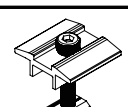

- Follow the risk management process prior to commencing work – that is, identify all the hazards, assess their risks and eliminate or control them.
- Consult with those involved in the work.
- Develop safe work procedures for installing solar panels, using information from the risk management process, which would include reviewing the following information:
 - Provide appropriate information and training to anyone involved in performing the work.
 - Provide appropriate tools and personal protective equipment (PPE).
 - Ensure that a system is in place to prevent or arrest falls.
 - Ensure there are adequate first aid facilities.
 - Ensure all employees are aware of the emergency procedures.

III. NOTICE

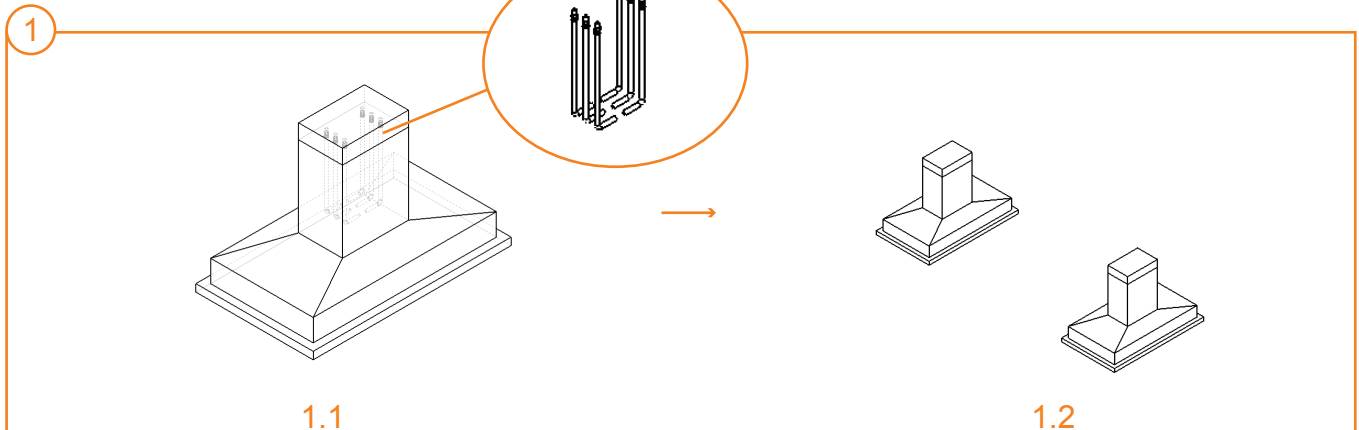
1. Determine the installation distance between legs.
 - 1) Factors affect the distance
 - Solar panel dimension
 - The systems layout
 - Angle between solar panel and ground
 - Max wind speed in installation site
 - Max snow in installation site
 - Earthquake magnitude in installation site
 - 2) Chiko technology team could design the distance base on above factors and make the technology drawing to show the distance between legs.
 - 3) When you have project, please offer above factors for our engineer to design the distance.
2. Please refer our technology drawing and below installation step to install the mounting system.

IV. Components



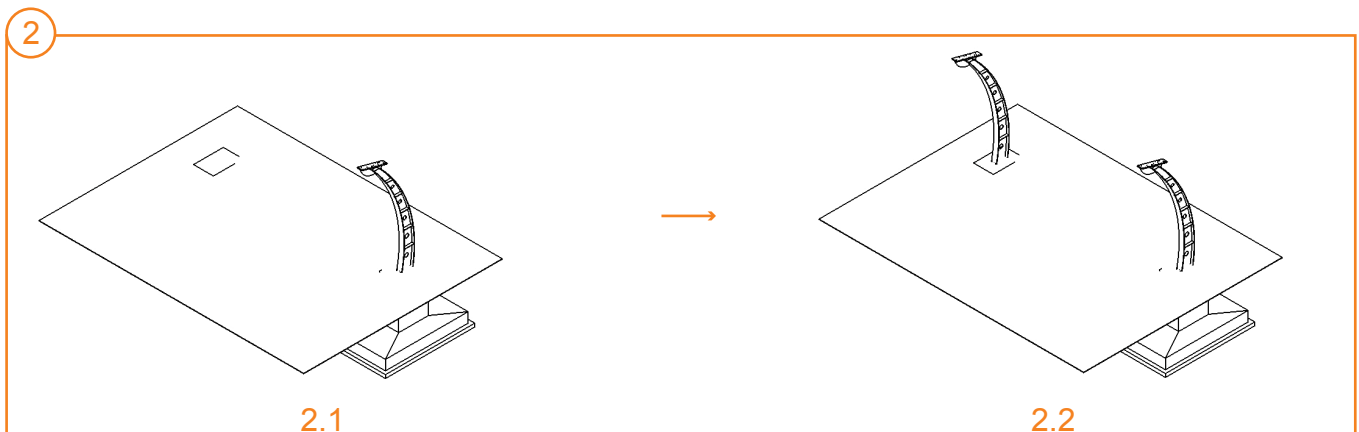
NO.	Item NO.	Item Name	Picture	Part No.	Part name	Part Qty
1	CK-PL	Carport support structure		1.1	Leg	2
				1.2	Beam	2
				1.3	Hex bolt kit M12*60 (Leg & Beam)	44
2	CK-C160-7700	C160 Rail		2	C160 Rail 7700 mm	6
3	CK-JH-1245	Hex bolt kit		3	Hex bolt kit M12*45(Rail & Beam)	24
4	CK-C160-FK	C Rail Fix Kit		4.1	L steel	12
				4.2	Hex bolt kit M10*30(Rail & L steel)	48
				4.3	Hex bolt kit M12*45(L steel & Beam)	24
5	CK-R507-FX	A Rail Fix Kit		5	A Rail Fix Kit	96
6	CK-FTE	End clamps 35mm		6	End clamps	12
7	CK-FTM	Mid clamps 35mm		7	Mid clamps	36
8	CK-FT-R507-6400	A Rail		8	A Rail 6400 mm	8
9	CK-IP-53-6400	P waterproof strape		9	P waterproof strape 6400 mm	16
10	CK-IP-63-7484	L waterproof strape		10	L waterproof strape 7484 mm	2
11	CK-PL-008-NH	Embedded part M27		11	Embedded part M27*1000	12

Installation Steps

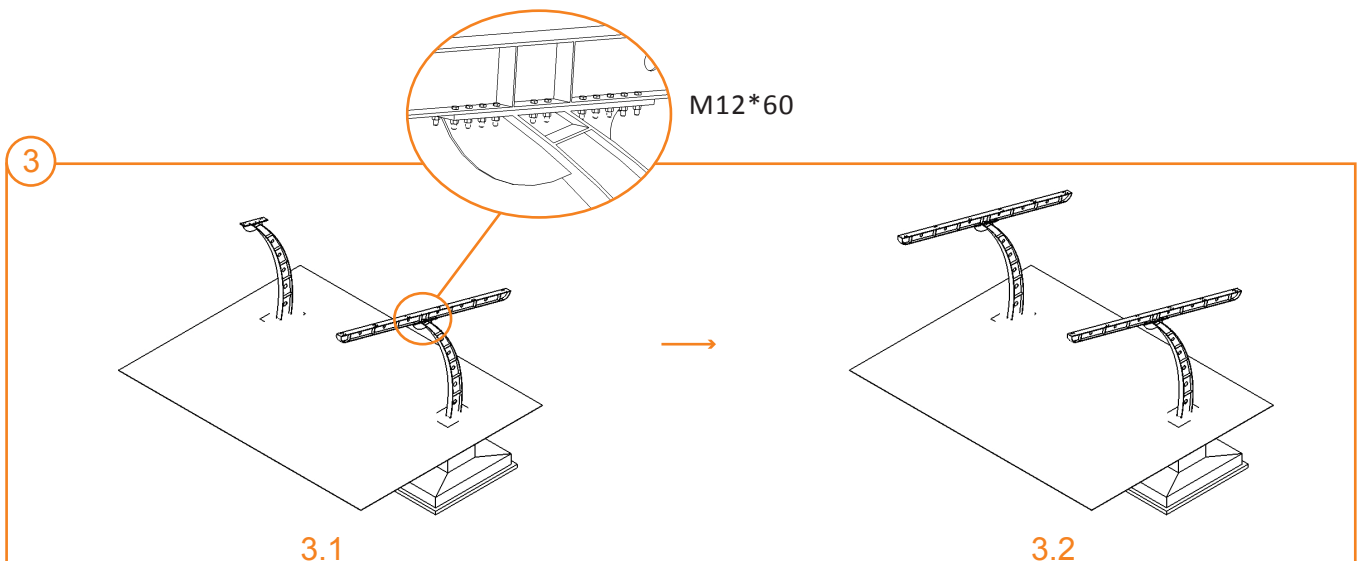


Insert concretes into the ground according to Design drawing-ET-3x7-15°-2500

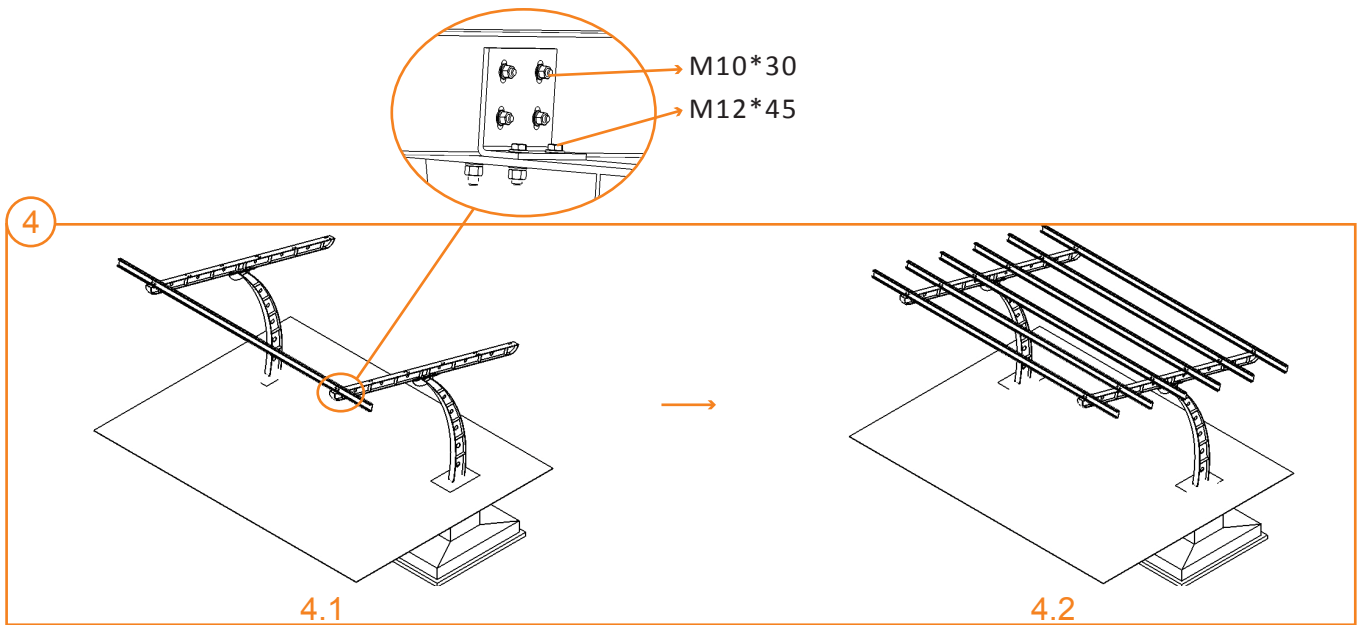
Note: Concrete foundation poured as Foundation Details



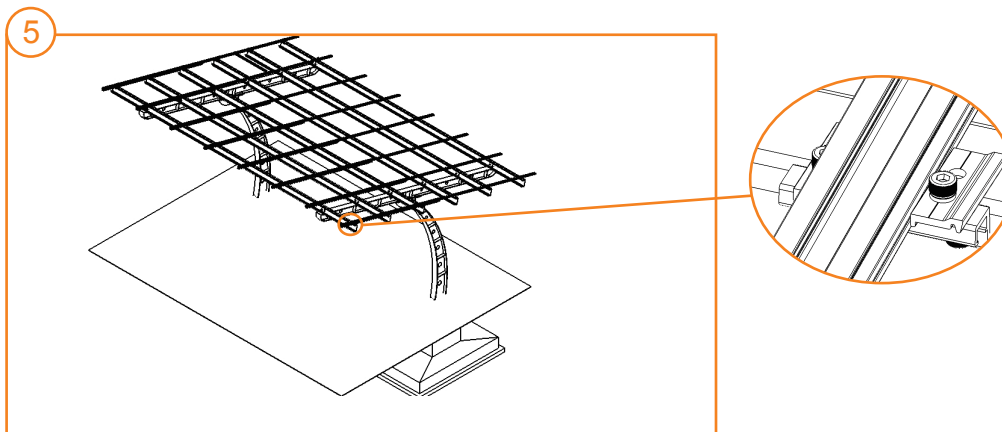
Install Legs onto concrete foundation



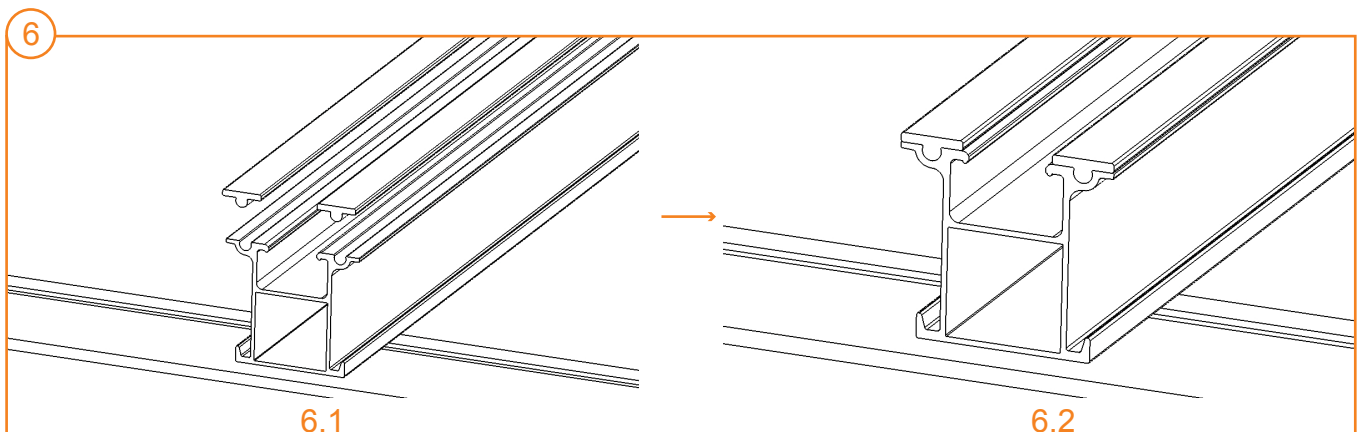
Install beams onto leges by hex bolt M12*60



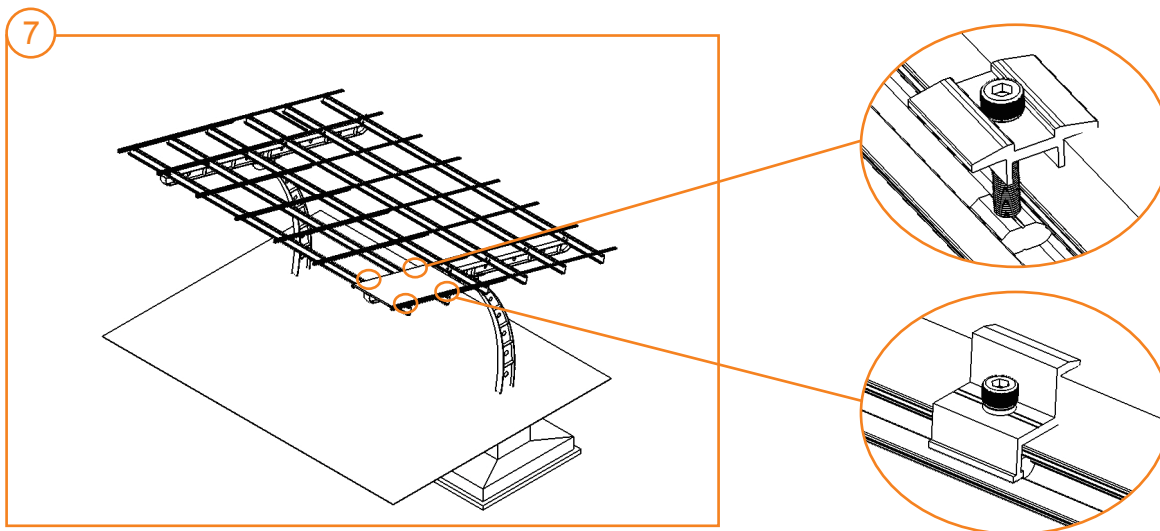
Install C Rails onto beams by C rail fix kit and Hex bolt kit M12*45



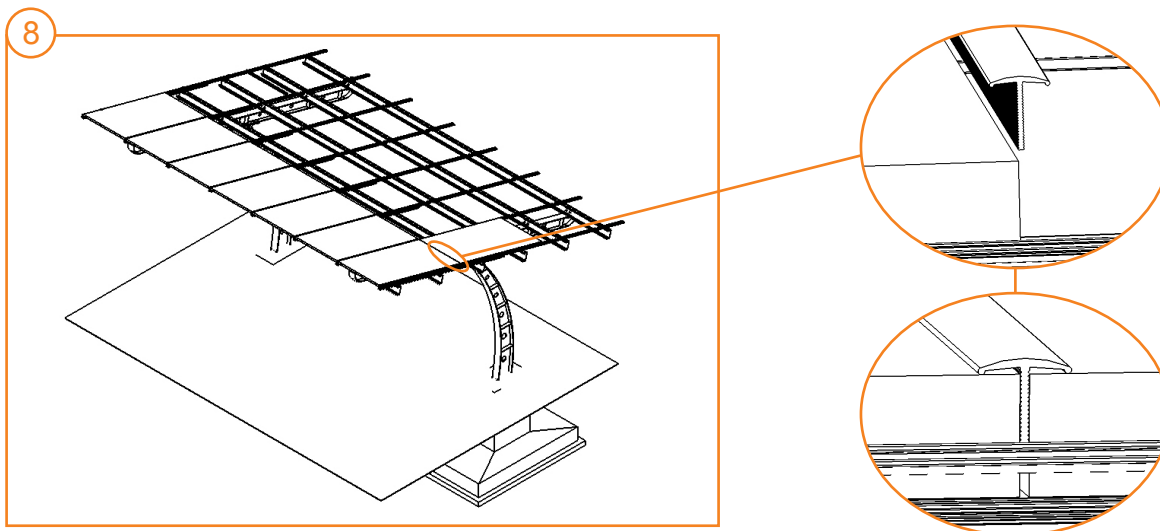
Install A rail onto C rail by A rail fix kit.



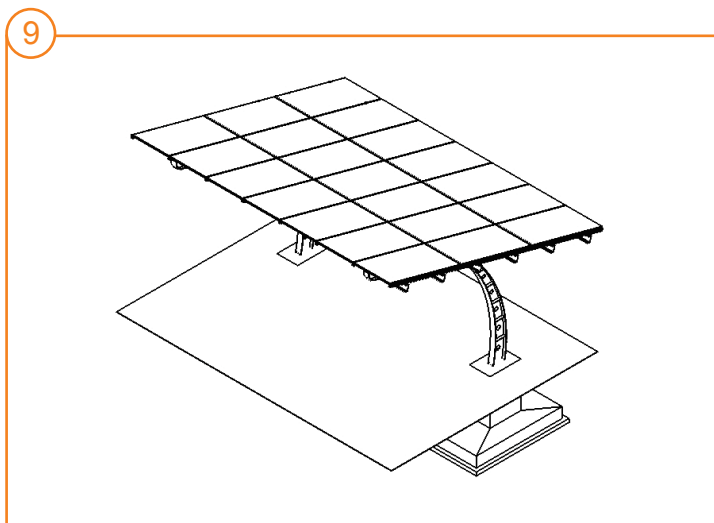
Attach L waterproof straps to A rails



install first row of panels onto A rails by mid and end clamps.

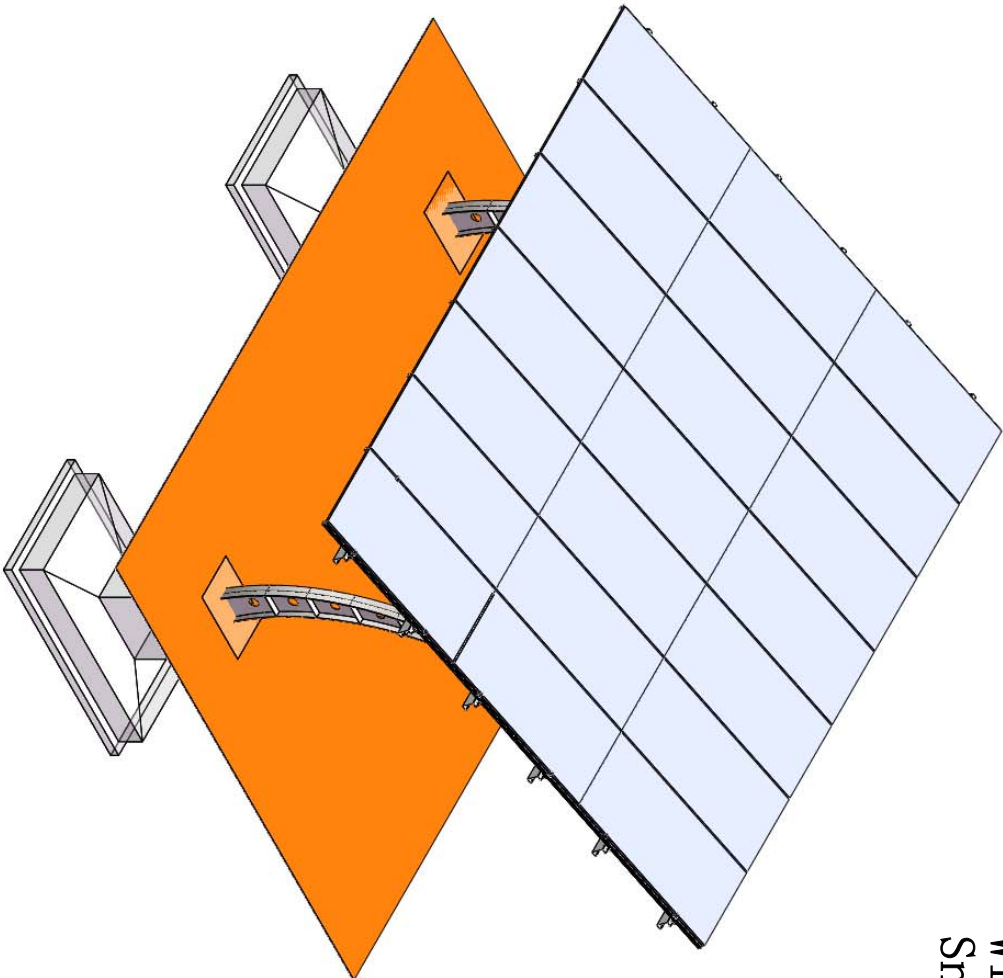






Lay second row of panels onto A rails, adjust to make sure the gap between first and second row of panels is sealed well by P waterproof strape, then secure mid and end clamps.



Install the other P waterproof strape and third row of panels as step 8.
Double-check to make sure all bolts are fastened tight a fter installing all panels.

Design Factors:
Module Dimensions:2131*1052*35
Tilted Angle:15°
Front Clearance:2500mm
Wind Speed:30m/s
Snow Load:1.2KN/m²



					Des			Shanghai CHIKO Solar Technology Co., Ltd				
Mark	Modification		Modify by	Doc No.	Data	Drw	Bowen	200526	<div>View:</div> <div><div></div><div></div></div> <div>Rate</div> <div>Page /</div> <div>Steel Carport</div> <div>3x7-15° -2500</div>			
						Check						
						Craft						
						App						

A

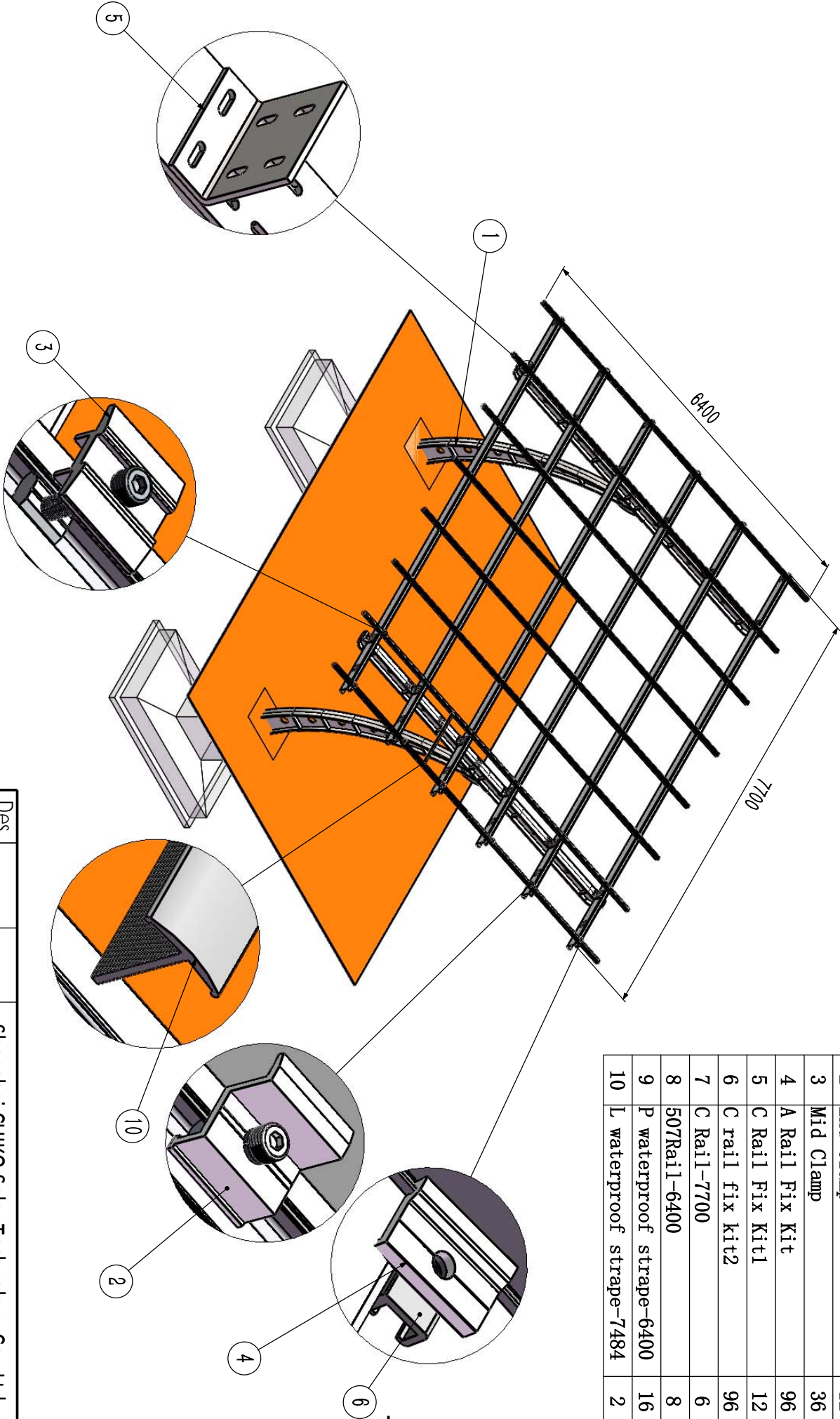
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
C

D

ANNEX A: Design drawing-ET-3x7-15°-2500

NO.	Description	QTY
1	Support Rack	2
2	End Clamp	12
3	Mid Clamp	36
4	A Rail Fix Kit	96
5	C Rail Fix Kit1	12
6	C rail fix kit2	96
7	C Rail-7700	6
8	507Rail-6400	8
9	P waterproof strape-6400	16
10	L waterproof strape-7484	2



Shanghai CHIKO Solar Technology Co., Ltd									
Mark	Modification	Modify by	Doc No.	Data	Des	Drw	Bowen	200526	Steel Carport
						Check			
						Craft			3x7-15° -2500
						App			
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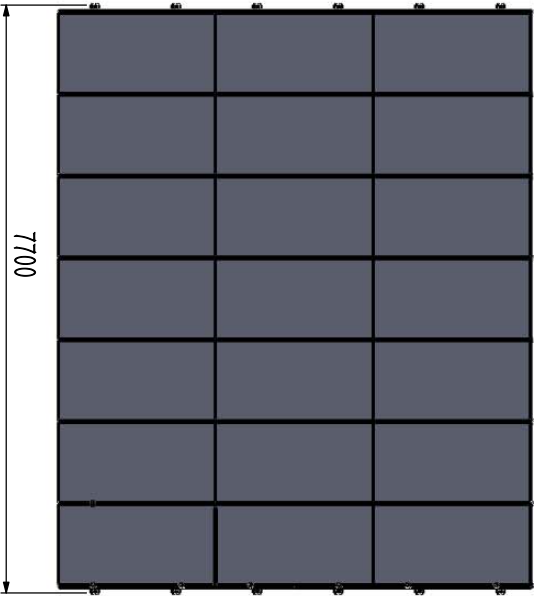
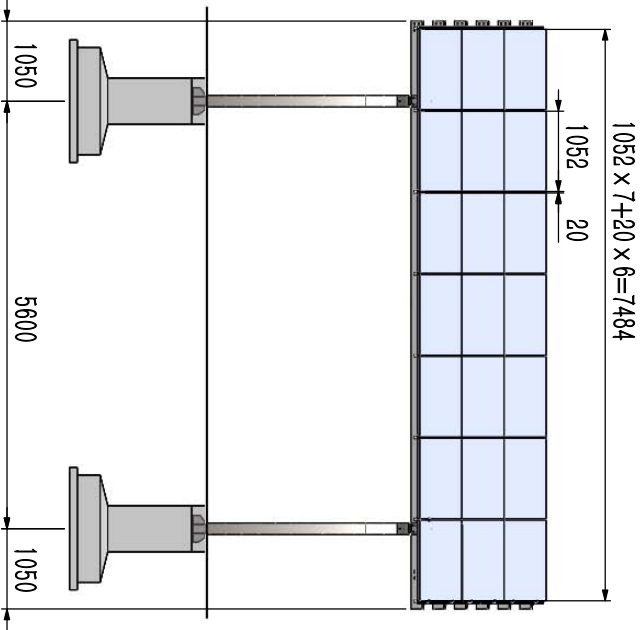
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ANNEX A: Design drawing-ET-3x7-15°-2500



Mark	Modification	Modify by	Doc No.	Data
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Des	Shanghai CHIKO Solar Technology Co., Ltd			
Drw	Bowen	200526	View:  	
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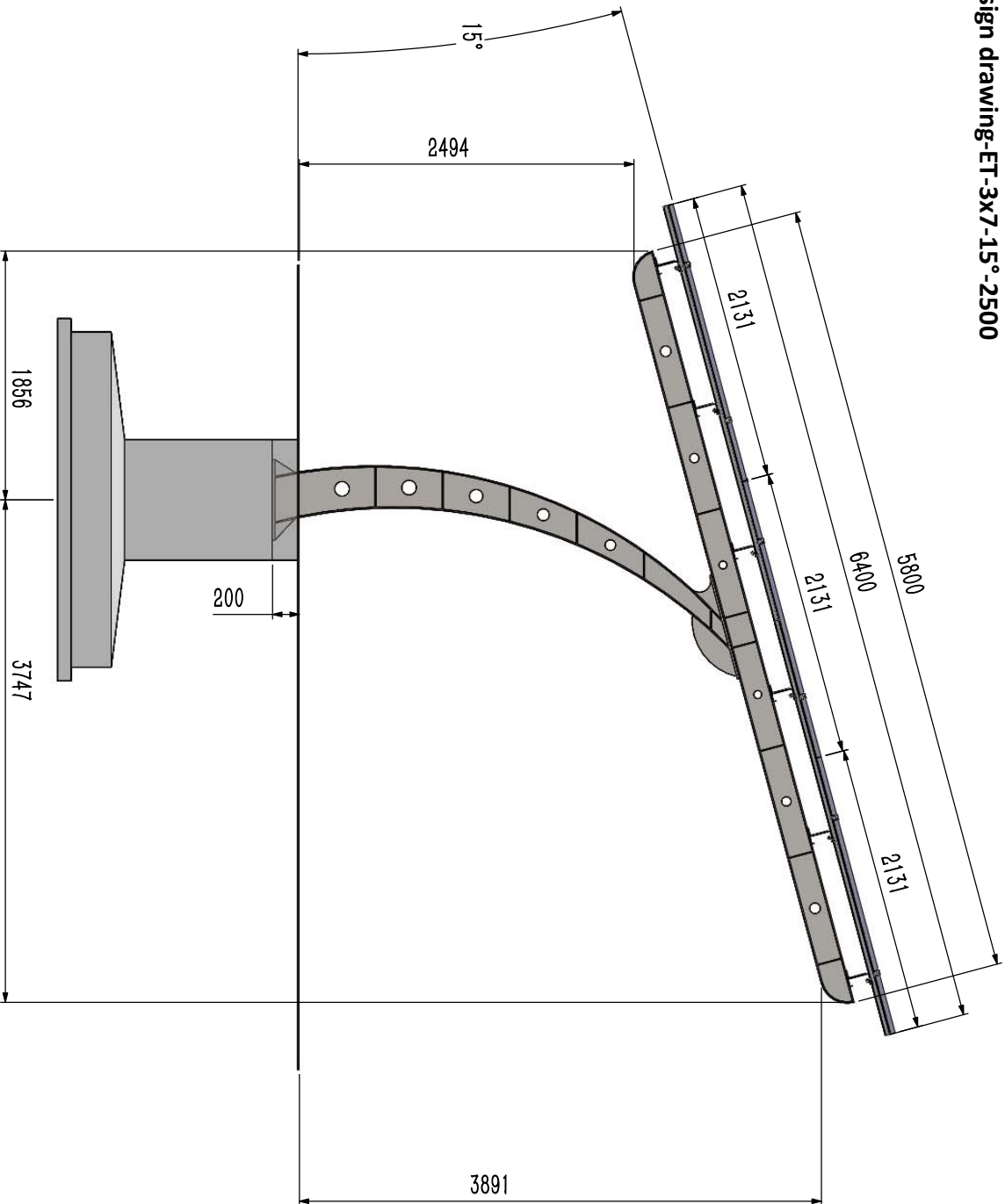
A

B



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ANNEX A: Design drawing-ET-3x7-15°-2500



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Drw	Bowen	200526		
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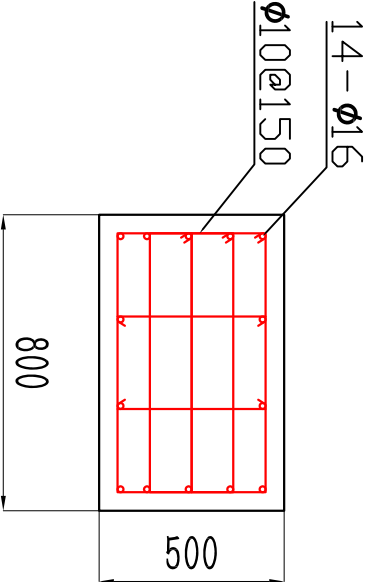
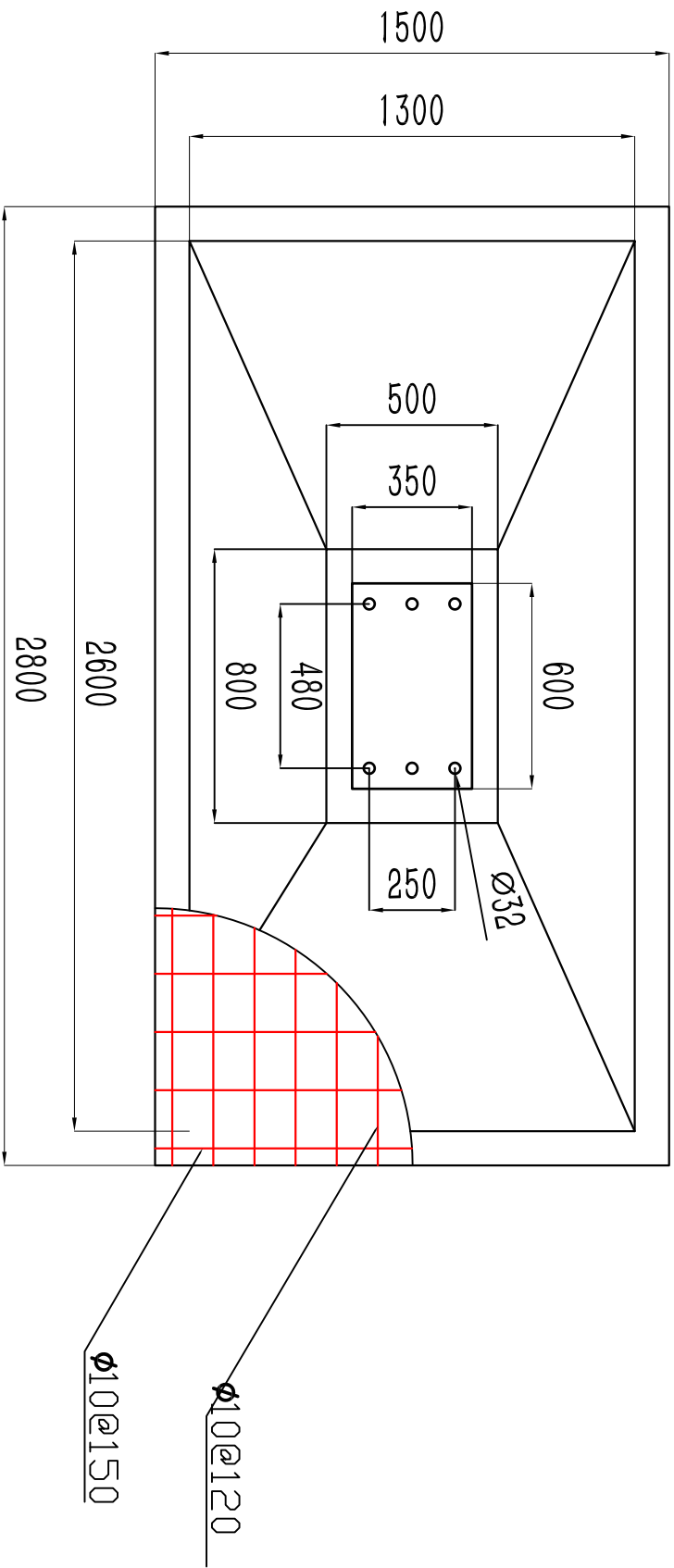
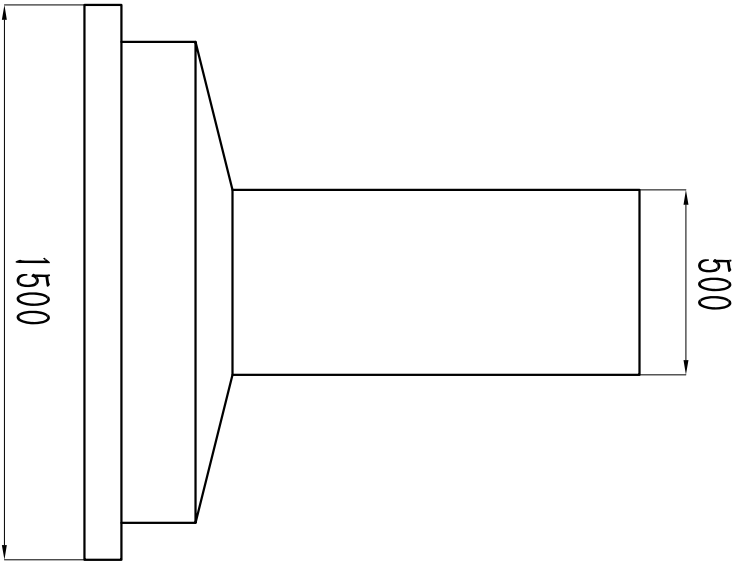
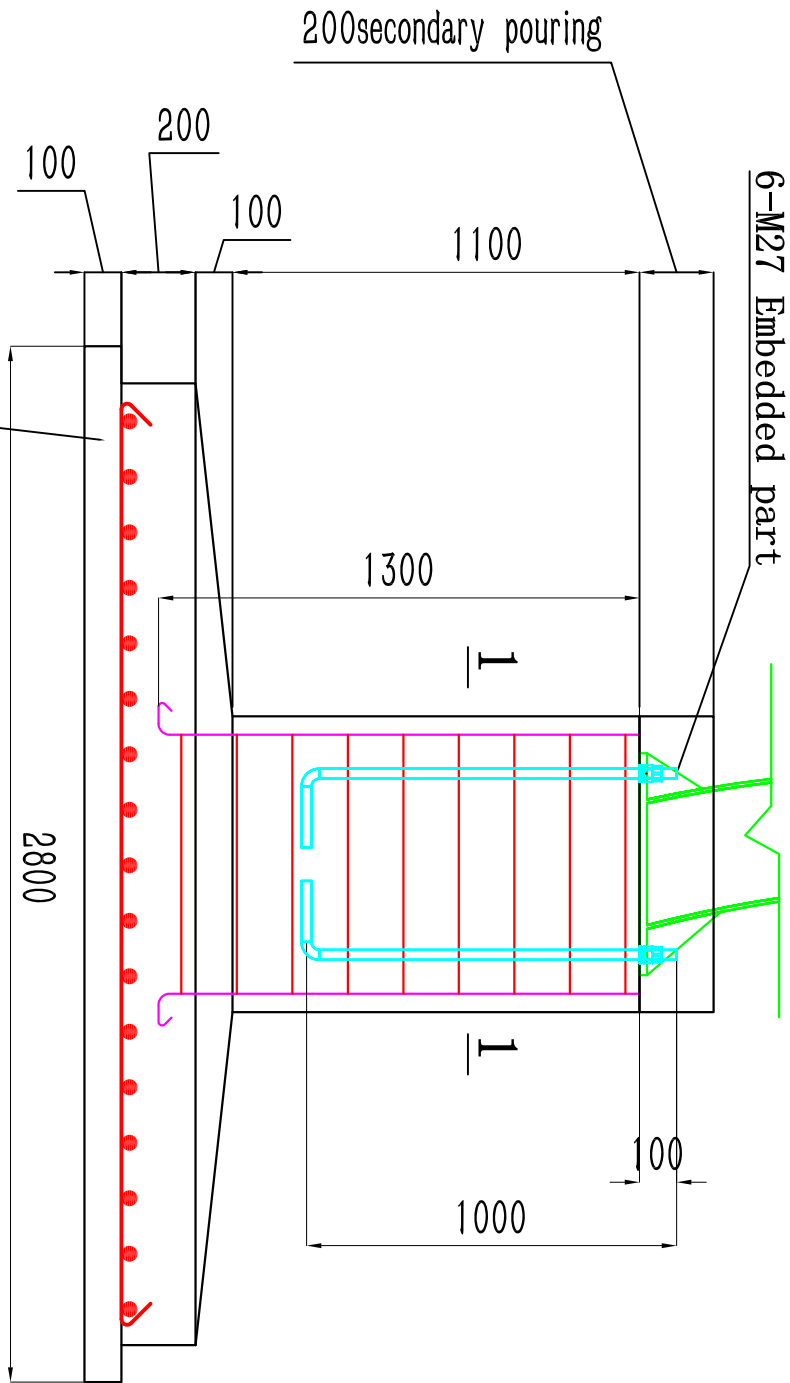
A

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ANNEX B: Foundation Details



Reinforcement: HRB400
Concrete: C30

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1				

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Dnw	Bowen	200714		
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基础

WORLDLEADING

M A N U F A C T U R E



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