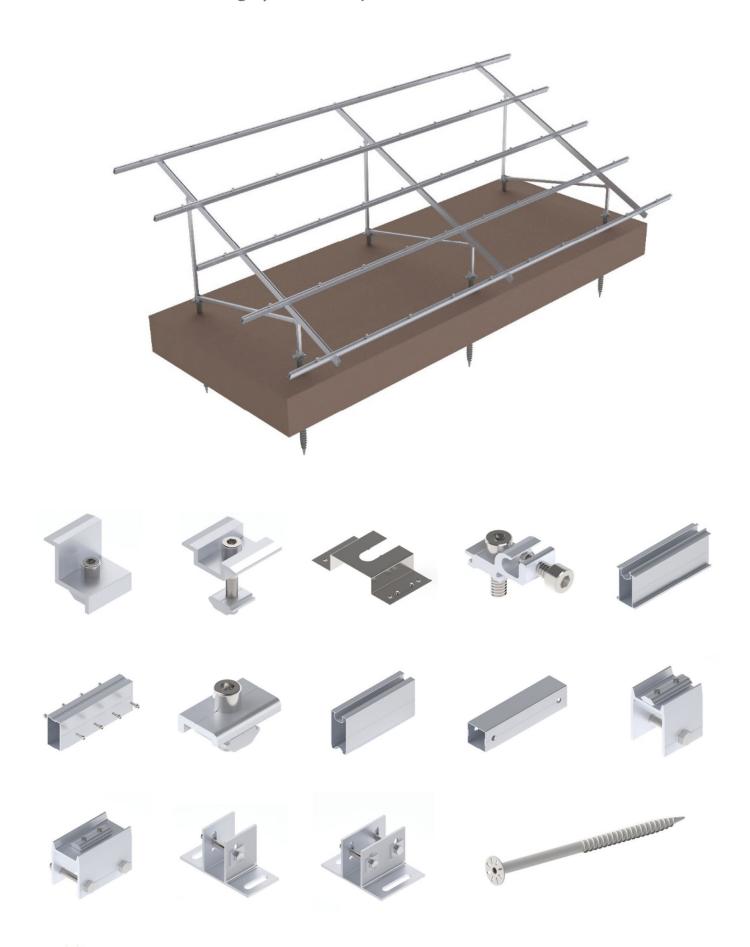


Ground Mount Systems

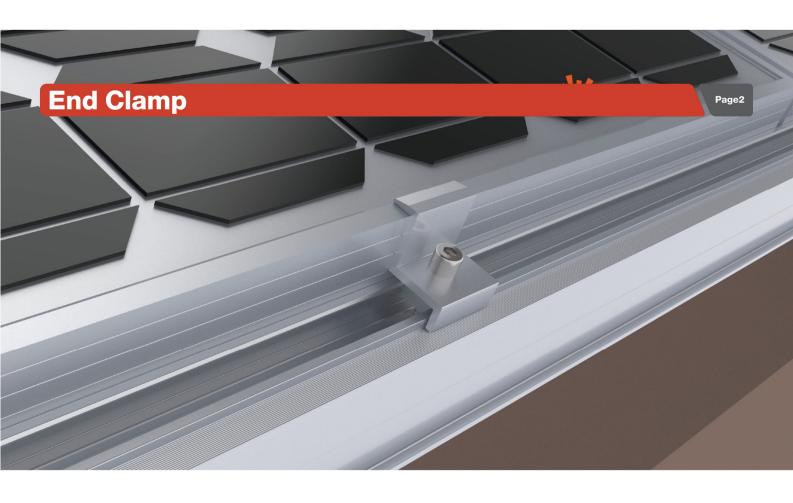
Aluminum Ground Mount for PV Module Ground Systems



Horizontal Ground Mounting System Component



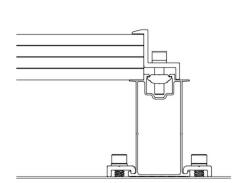


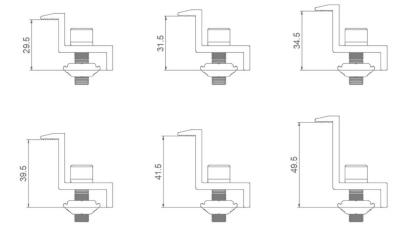




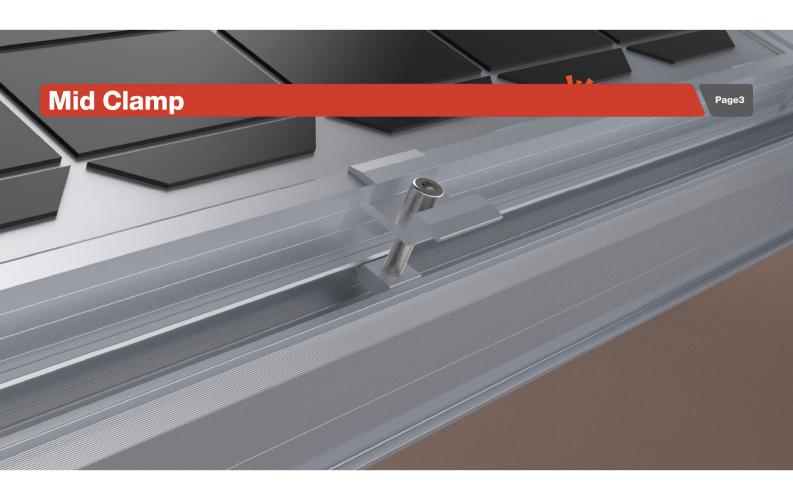
End Clamp

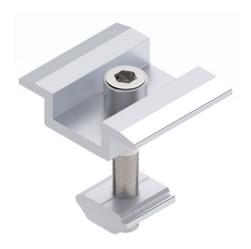
End clamp is suitable for horizontal ground mounting system, with different height end clamp can correspond to different thicknesses solar panel.





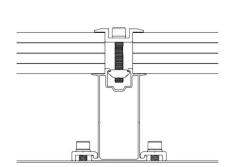


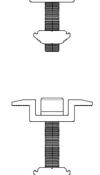


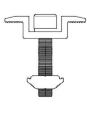


Mid Clamp

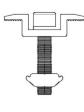
Mid clamp suitable for horizontal ground mounting system, with different height mid clamp can correspond to different thicknesses solar panel.

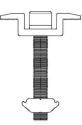












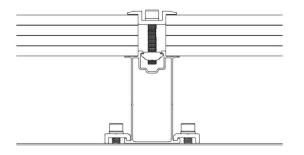






Rail Clamp

Main Force Component: Rail





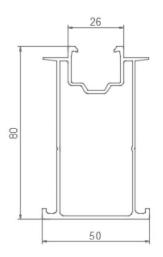


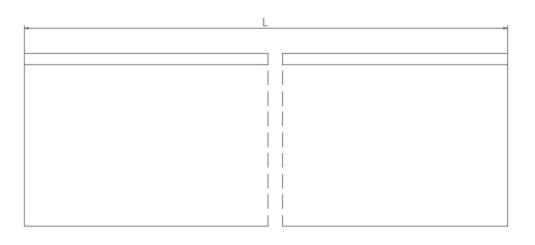


Main Force Component: Rail



Dimensions in mm				
Mechanical Properties				
Material	Aluminum 6005 T5			
Finish	Natural Anodized			
Ultimate Tensile Strength	260Mpa			
Yield Strength	240MPa			
0. 5. 5. 5.				
Section Properties				
Section area moment	S3=372396.63mm³ S2=112935.28mm³			
Cross section modulus	W3(MIN)= 8974.26mm4 W2(MIN)= 4517.41mm4			



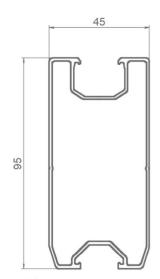


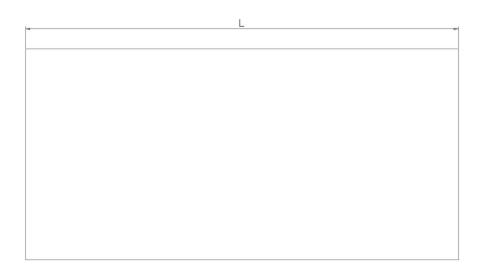


Main Force Component: Main beam



Dimensions in mm	
Mechanical Properties	
Material	Aluminum 6005 T5
Finish	Natural Anodized
Ultimate Tensile Strength	260Mpa
Yield Strength	240MPa
Section Properties	
Section area moment	S3= 514707.76mm³ S2= 141822.53mm³
Cross section modulus	W3(MIN)= 10570.55mm4 W2(MIN)= 6303.22mm4



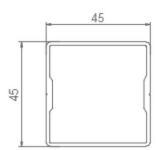






Main Force Component: Post

Dimensions in mm					
Mechanical Properties					
Material	Aluminum 6005 T5				
Finish	Natural Anodized				
Ultimate Tensile Strength	260Mpa				
Yield Strength	240MPa				
Section Properties					
Section area moment	S3= 81372.88mm³ S2= 94534.66mm³				
Cross section modulus	W3(MIN)= 3616.57mm4 W2(MIN)= 4201.54mm4				



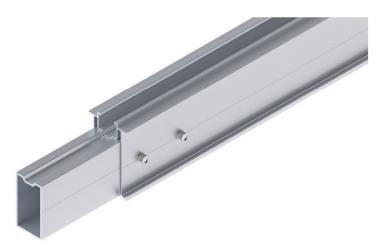




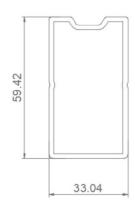
Rail Splice

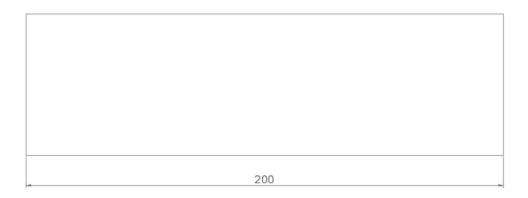
Use rail connector with self-tapping screws to connect rails.



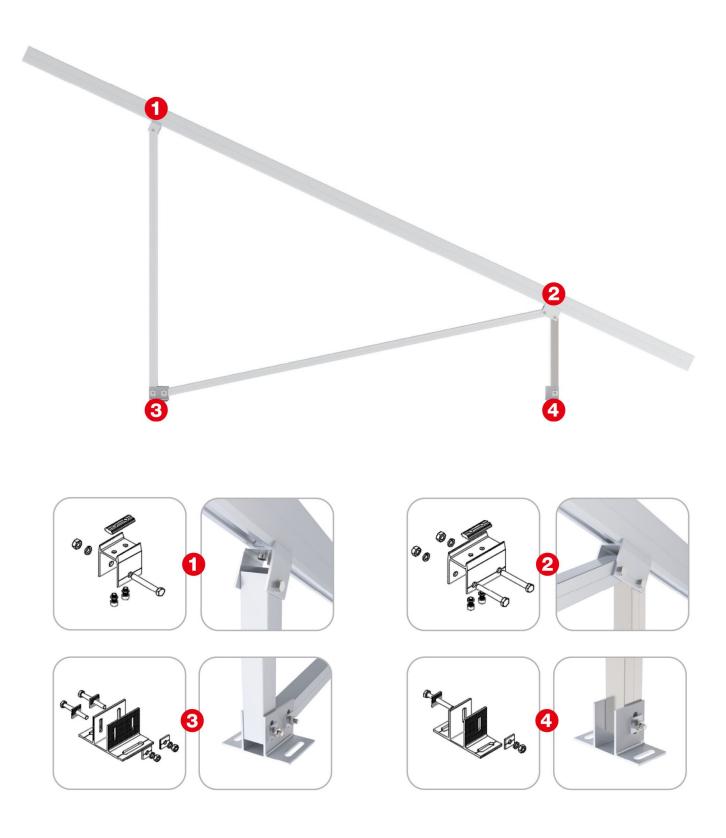








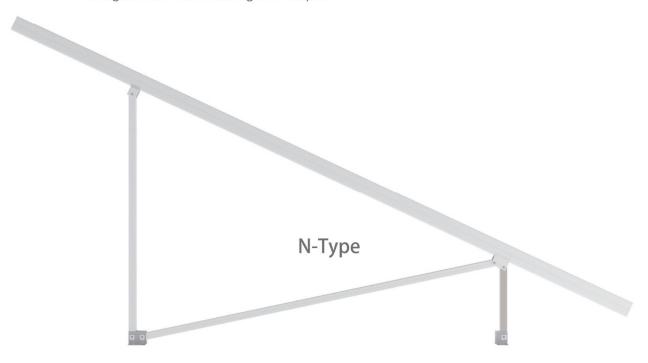




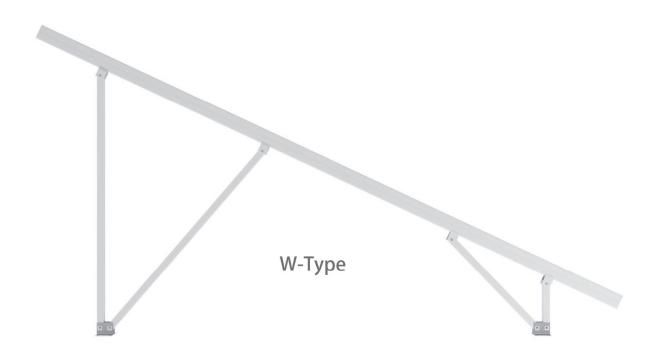
Ground mounting system has been maximize pre-assembly before shipment, which make it install more convenient.



Depending on the different design conditions, pre-assembly support are generally designed into the following two shapes:



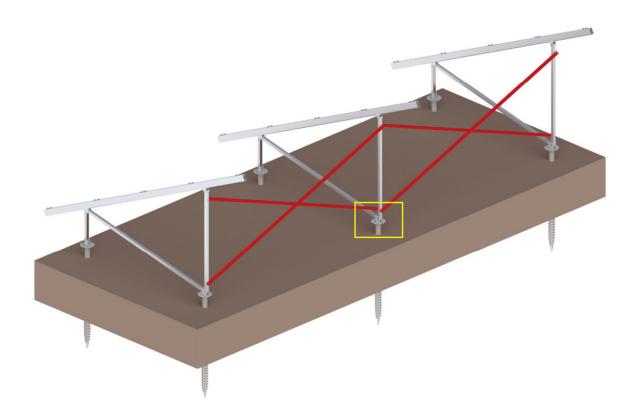
The N-Type pre-assembly support is mainly used for the small wind & snow load condition projects.(2-4 columns)



The W-type pre-assembly Support is mainly for the 4-5 columns wind & snow load condition projects.

We will add cross support to make the structure stronger if the ground height is higher or wind & snow load is larger.

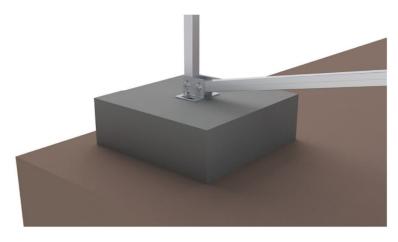


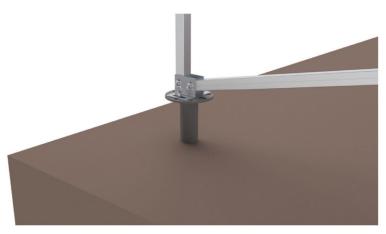


Ground mounting system are commonly used for Concrete Foundation and Screw Foundation.









Concrete Foundation

Screw Foundation

Customers can choose different foundations according to their needs.

The following table is a comparison of the two foundations:

Item	Concrete Foundation	Screw Foundation		
Applicable terrain	Flat, Even Tilt, Ladder			
Applicable geology (reference)	Random	SWS3≤N≤10 SWS Test, cohesive soil 3 ≤N≤10		
Difficult or Easy Degree	Complicated	Easy		
Cost	Higher	Lower		
Adjustment range	Inconvenient to adjust the height of base	Larger		
Corrosion resistance	Anti-Corrosion	Hot-dip galvanizing on the surface of the screw foundation, which has met the anti-corrosion requirements of the service life		

	Conventional pile compression and tensile strength reference values(KN)								
Ground	N=3		N=5		N=7		N=10		
Screw Length	Resistance	compression Resistance	Resistance	compression Resistance	Resistance	compression Resistance	Resistance	compression Resistance	
1600	8.7	9.1	14.6	15.2	20.4	21.4	29.2	30.6	
1800	9.9	10.2	16.5	17.1	23.1	24	33	34.4	
2000	11	11.4	18.4	19	25.8	26.7	36.8	38.2	
2200	12.2	12.5	20.3	21	28.4	29.4	40.6	42	
2500	13.9	14.2	23.2	23.8	32.4	33.4	46.4	47.8	

Remarks: The N value of the soil in this table are based on the Swedish penetration test (SWS).

