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A large solar panel array is mounted on a metal structure in a field. The panels are arranged in a grid pattern and are tilted towards the sun. The structure is made of metal poles and brackets. The ground is dry and dusty. There are some trees in the background under a clear blue sky.

Global Roofing

We have worked with roofing manufacturers and professional installers across the globe to develop, produce and deliver roof solar mounting solutions for variety kind of roof. Mounting solutions are available for popular and common roofing profiles manufactured from Africa, Europe, Middle East, Asia, America, Australia and New Zealand.

Latin America

Bluescope
Armco

Africa

Safintra
DURObuild
Classecon Roofing

AU/NZ

Lysaght
revolution roofing
Stramit
Apexsteel
McElroy metal
Fielders
Dimond Roofing
Footing Industries Ltd
Metalcraft roofing
JCP roofing

European

Domco
Kingspan
Katzip
Riverdack
Rukki
Versasteel
Phoenix Steels
Cladco Profiles Ltd
Accord Steel Cladding Ltd-C
German Munker Metallprofile
Zambelli

North America

ASC Profiles
Butler Manufacturing
ATAS International
VP Buildings
Metal Depots
Metal Sales
McElroy Metal
Fabral
Flatiron Steel
Vicwest
CBS Sheetmetal
Lakefront Roofing & Siding Supply
unioncorrugating
NOI Building Systems
Bridger Steel

Japan

Kyowa
Nihon Teppan
Sanko
Jfe-Nikkenpan

South-east Asia

Lysaght
Tata steel
Good Steel
Kextra
GAF



Global Service & Proven Records

Our clamps and solar roof mount has been installed worldwide, from South Africa, Tanzania, Kenya of Africa, Netherlands, Hungary, Belgium, Sweden, Norway, Poland, Ukraine, Romania of Europe, Oman, Qatar, Dubai or Middle East, Sri Lanka, India, Indonesia, Malaysia, Thailand, Philippines, Singapore, Japan, Korea, China of Asia, Australia and New Zealand, to Canada, USA, Mexico, Panama, Costa Rica, Guatemala, Honduras, Colombia, Argentina, Brazil, Uruguay or America.

manufactured from Africa, Europe, Middle East, Asia, America, Australia and New Zealand.





Metal Roof Mount-Cambodia



Pole Mount-Australia



Metal Roof Mount-China



East & West Ballasted Mounting-Bulgaria



Metal Roof Mount-Hungary



Ground Mount-Romania



Carport Mount-Romania



Ground Mount-Mexico



Metal Roof Mount-Hungary



Metal Roof Mount-Malaysia



Metal Roof Mount-Poland



Tile Roof Mount-Hungary

Rail & Accessories

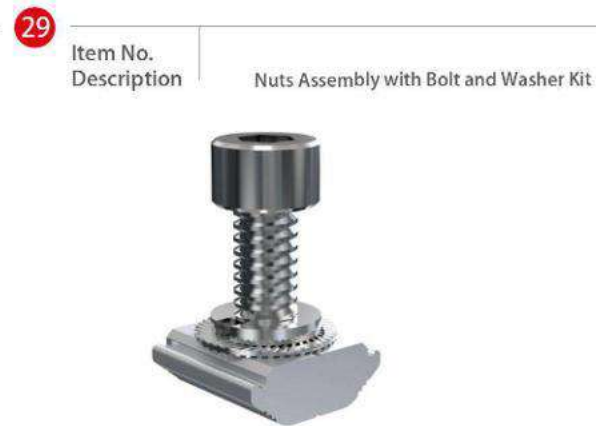
According to different market, different customer requirements, as well as the project budget, we design and produce various types of rails and accessories to meet the customer's projects need. Each product is subjected to rigorous strength calculation, SGS testing, TUV, CE, and AS/NZS1170.2 certifications.



Item No. Description	52mm Rail	1	Item No. Description	52mm L Rail	2
					
Item No. Description	62mm Rail	3	Item No. Description	62mm C Rail	4
					
Item No. Description	60mm Rail	5	Item No. Description	65mm Rail	6
					
Item No. Description	42mm Rail	7	Item No. Description	41 mm Rail (T-Bolt)	8
					

Rail & Accessories

9 Item No. Description 41mm Rail for Ballasted Mounting 	10 Item No. Description 46mm Rail 	17 Item No. Description Universal Adjustable (30-35mm) End Clamp Kit 	18 Item No. Description Universal Adjustable (30-40mm) Inner Clamp Kit 
11 Item No. Description 29mm Rail 	12 Item No. Description 26mm Rail 	19 Item No. Description Universal Adjustable (30-40mm) Inner Clamp Kit (Include Spring & Earthing Clip) 	20 Item No. Description General End Clamp Kit 
13 Item No. Description Splice for Rail Kit 01 	14 Item No. Description Splice for Rail Kit 02 	21 Item No. Description Standard Rail Clamp with Nuts 	22 Item No. Description Standard Rail Clamp with T-Bolt Kit 
15 Item No. Description Splice for R41 Rail Kit 	16 Item No. Description Splice for R41-2 Rail Kit 	23 Item No. Description Thin Film Double-glazed Module End Clamp Kit 	24 Item No. Description Thin Film Double-glazed Module Inner Clamp Kit 



Metal Roof Attachment

Tin roof systems divided into two fixing methods:

1. Drilling solutions, like bracket L-feet, hanger bolt, T type hook etc.
2. Standing seam clamp, direct mounting, no damage to the roof.

A design that includes major specifications saves you inventory cost, quick and easy to install. Innovative design of rail connect base-support can effectively increase the product strength, ensure the safety of the product use. We have a large variety of tin roof brackets provide customers options. Customized allowed according to customer needs to meet special installation requirements.

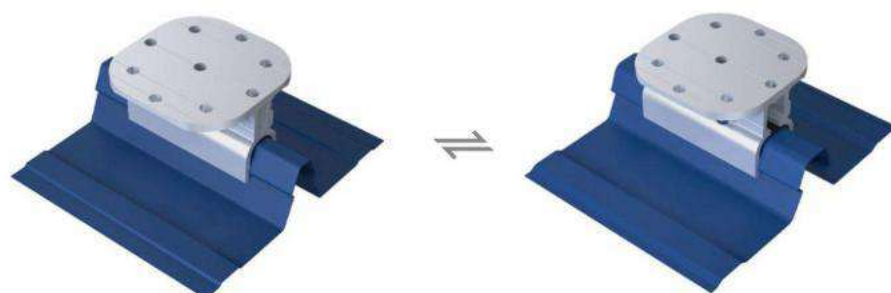
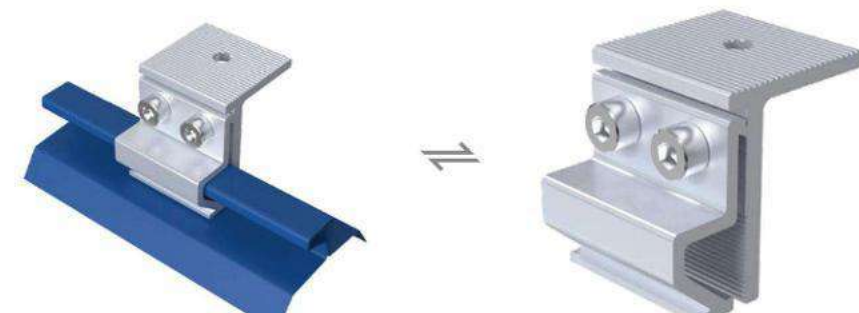
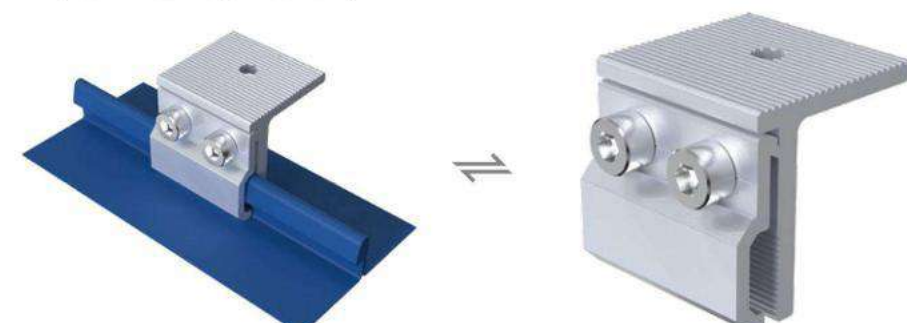
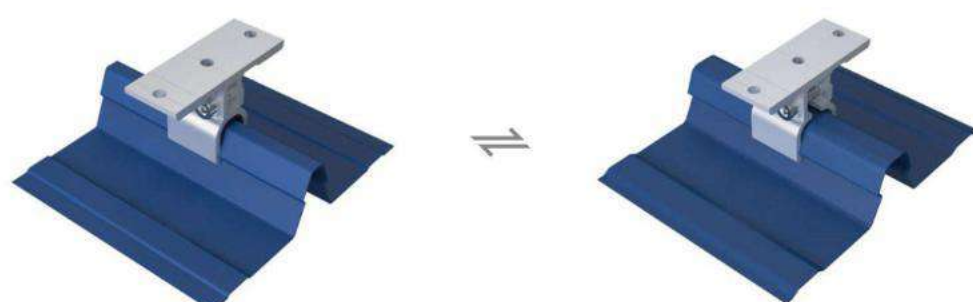
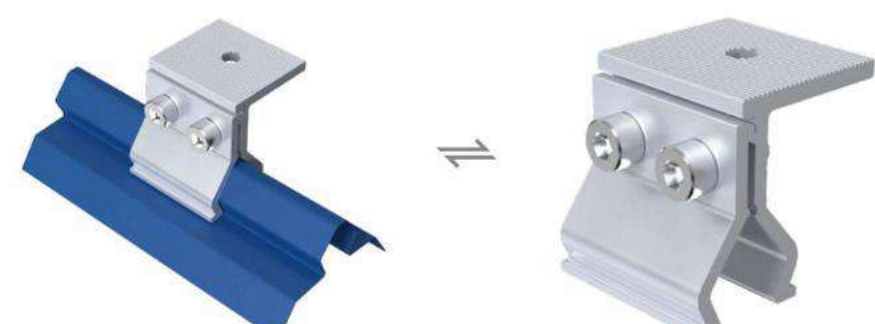
Technical features:

Product name	Metal roof mounting system
Application	Metal roof
Inclination	Parallel to the roof
Material	AL 6005-T5, SUS 304, EPDM
Finish	AL 6005-T5 Anodized, SUS 304 Shot blasting
Module orientation	Landscape or Portrait

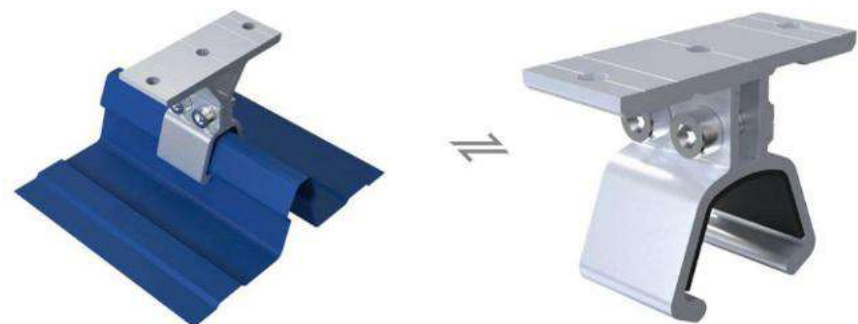
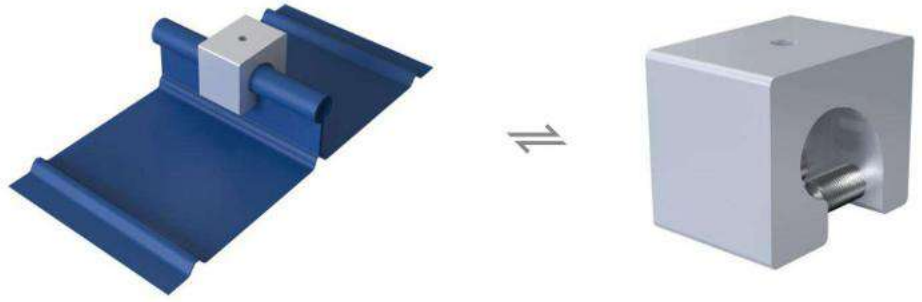
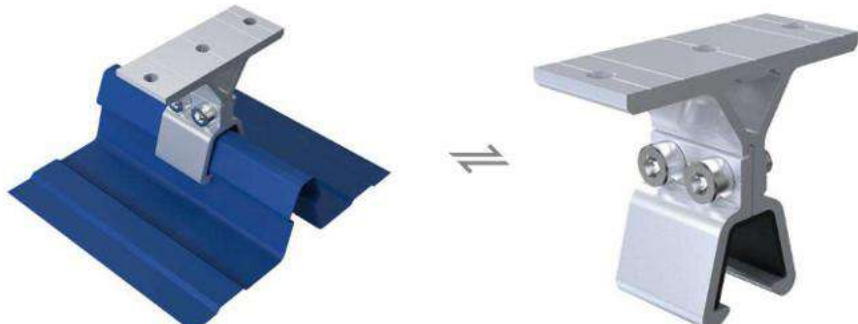
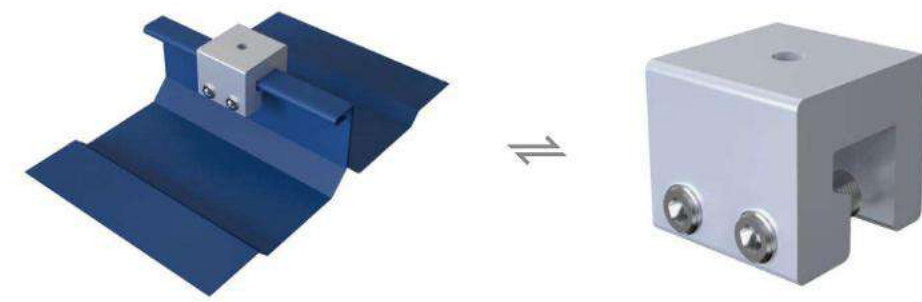
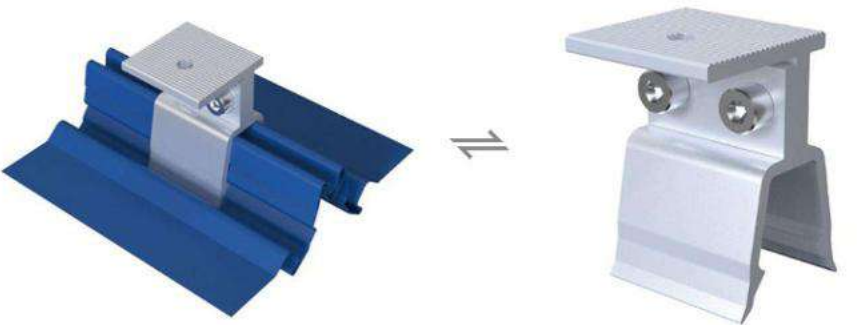
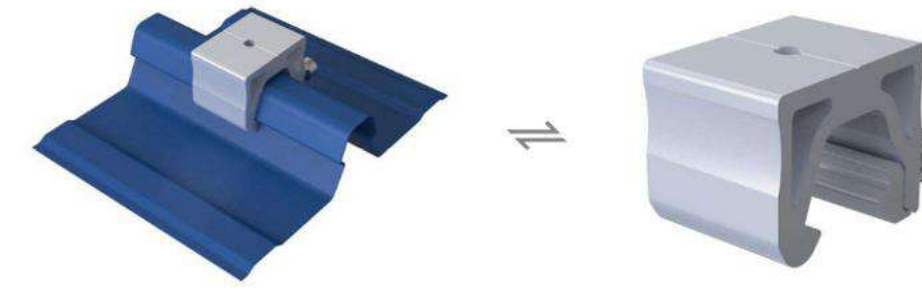
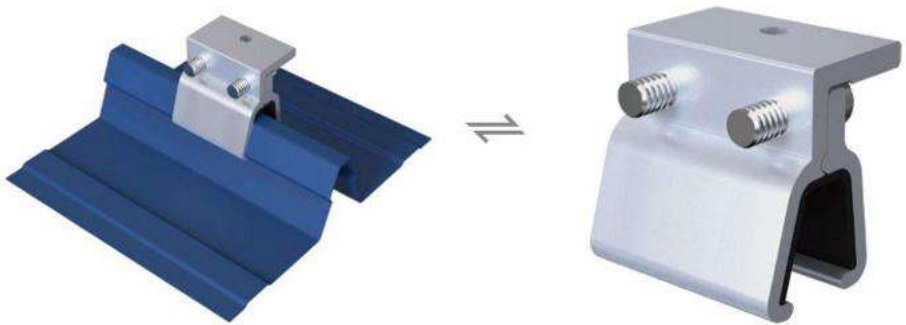


Item No. Description	1 L Feet for Corrugated or Trapezoidal Sheet Metal	Item No. Description	2 Hanger Bolt L Feet for Corrugated Fibre Cement, Corrugated or Trapezoidal Sheet Metal (M10×180, M10×200, M10×250, M10×300)
			
Item No. Description	3 Hanger Bolt for Corrugated Fibre Cement, Corrugated or Trapezoidal Sheet Metal (M10×180, M10×200, M10×250, M10×300)	Item No. Description	4 Asphalt Shingles Interface
			
Item No. Description	5 7# Tin Roof Hook for Trapezoidal Sheet Metal	Item No. Description	6 8# Tin Roof Hook for Trapezoidal Sheet Metal
			
Item No. Description	7 18# Tin Roof Hook for Trapezoidal Sheet Metal	Item No. Description	8 6# Tin Roof Hook for Trapezoidal Sheet Metal
			

Metal Roof Attachment

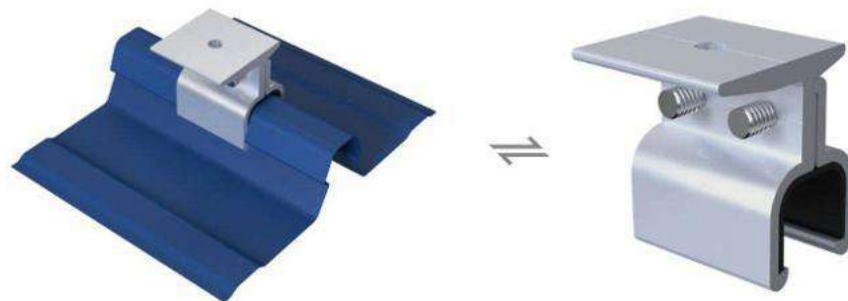
9 Item No. Description 21# Tin Roof Hook for Trapezoidal Sheet Metal 	10 Item No. Description 65mm Mini Rail for Corrugated or Trapezoidal Sheet Metal 	Item No. Description Klip Lok 406 & 700 Interface 	16
11 Item No. Description 60mm Mini Rail for Corrugated or Trapezoidal Sheet Metal 	12 Item No. Description 26mm Mini Rail for Corrugated or Trapezoidal Sheet Metal 	Item No. Description Standing Seam Clamp 	17
13 Item No. Description 29mm U Type Rail for Corrugated or Trapezoidal Sheet Metal 	14 Item No. Description 46mm Mini Rail for Corrugated or Trapezoidal Sheet Metal 	Item No. Description Standing Seam Clamp 	18
15 Item No. Description Klip Lok 406 & 700 Interface 	Item No. Description Standing Seam Clamp 	19	

Metal Roof Attachment

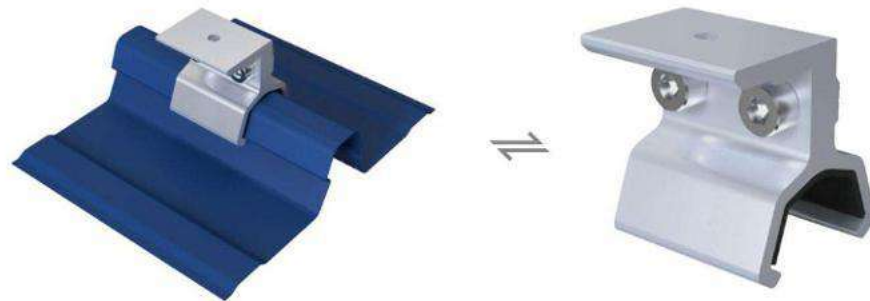
20	Item No. Description	Metdek 855 Dimondek 630 Interface	Item No. Description	Standing Seam Clamp	24
					
21	Item No. Description	Metdek 500 Interface	Item No. Description	Standing Seam Clamp	25
					
22	Item No. Description	RiverClack Roofing Profile	Item No. Description	Klip Lok 700 Interface	26
					
23	Item No. Description	Lysaght Klip-lok 406 Interface	Item No. Description	Standing Seam Clamp	27
					

Metal Roof Attachment

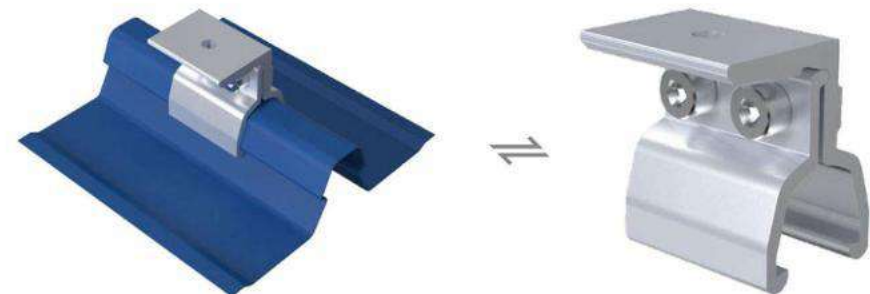
28 Item No.
Description Klip Lok 700 Interface



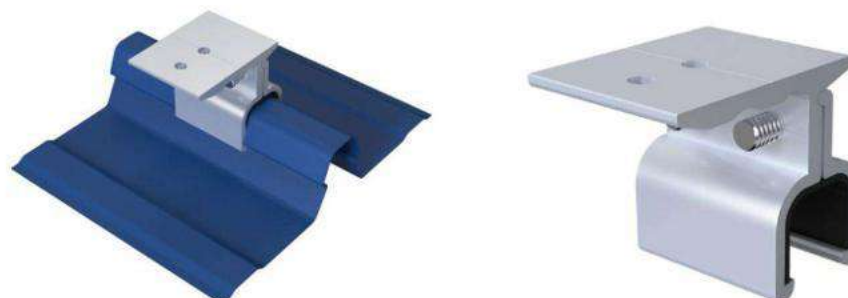
29 Item No.
Description WeatherClip II 700 Interface



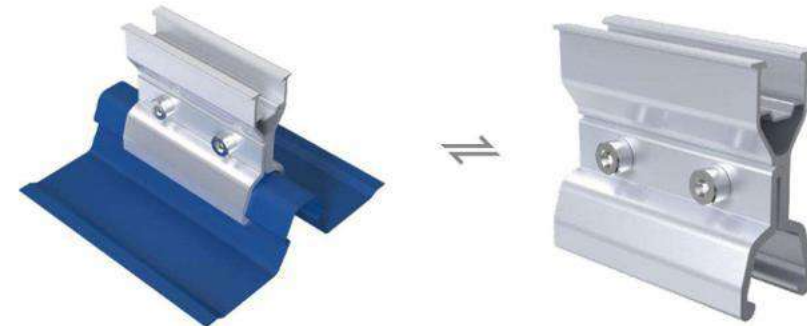
30 Item No.
Description Lysaght Klip-lok 700 Interface



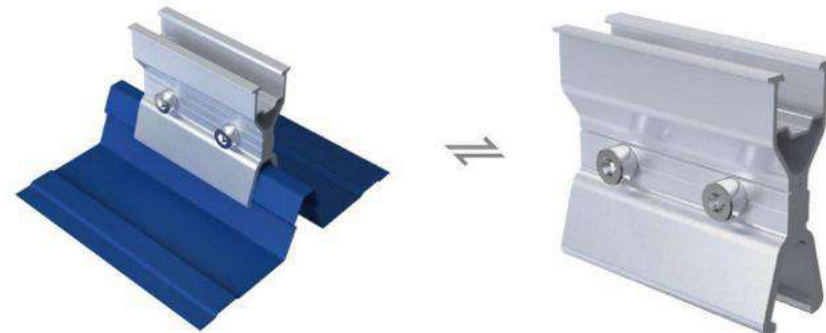
31 Item No.
Description Klip Lok 700 Interface



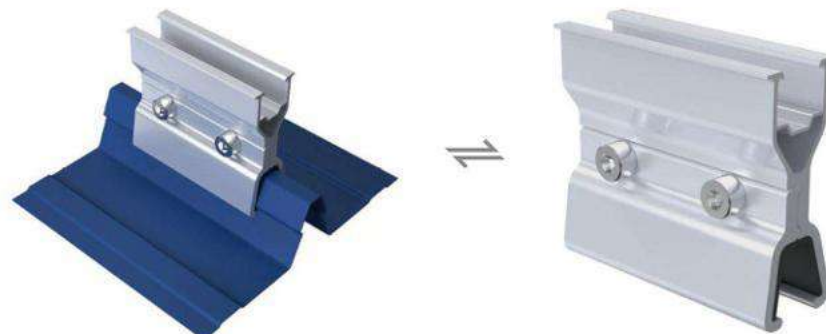
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Description Lysaght Klip-lok 700 Interface



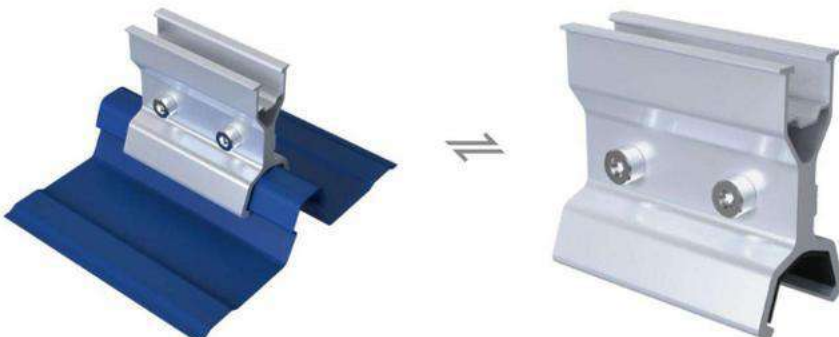
Item No.
Description Lysaght Klip-lok Interface



Item No.
Description Lysaght Klip-lok 406 Interface



Item No.
Description WeatherClip II 700 Interface



Metal Roof Attachment

36	Item No. Description	Clip Lock Interface		⇌		Item No. Description	Standing Seam Clamp		⇌		40
37	Item No. Description	Valio Metal Sheet Roof Interface		⇌		Item No. Description	Standing Seam Clamp		⇌		41
38	Item No. Description	Standing Seam Clamp		⇌		Item No. Description	Valio Metal Sheet Roof Interface		⇌		42
39	Item No. Description	Standing Seam Clamp		⇌		Item No. Description	Stainless Steel Tin Interface Bracket		⇌		43

Tile Roof Attachment

We have many types of tile roof hooks, suitable for most roof types of tile, flat tile, slate tile, asphalt shingle tile. A design that includes major specifications saves you inventory cost, quick and easy to install. Innovative design of rail connect base-support can effectively increase the product strength, ensure the safety of the product use. We have a large variety of roof hooks provide customers options. Customized allowed according to customer needs to meet special installation requirements.

Technical features:

Product name	Tile roof mounting system
Application	Tile roof, Flat tile roof, Slate roof
Inclination	Parallel to the roof
Material	AL 6005-T5, SUS 304
Finish	AL 6005-T5 Anodized, SUS 304 Shot blasting
Module orientation	Landscape or Portrait



Item No.

Description

Tile Roof Hook

1

Item No.

Description

Tile Roof Hook

2

Item No.

Description

Tile Roof Hook

3

Item No.

Description

Tile Roof Hook

4

Item No.

Description

Tile Roof Hook

5

Item No.

Description

Tile Roof Hook

6

Item No.

Description

Tile Roof Hook

7

Item No.

Description

Tile Roof Hook

8

Item No.

Description

Tile Roof Hook

9

Item No.

Description

Tile Roof Hook

10

Item No.

Description

Tile Roof Hook

11

Tile Roof Attachment

12	Item No. Description	Tile Roof Hook	13	Item No. Description	Tile Roof Hook	20	Item No. Description	Flat Tile Roof Hook	21	Item No. Description	Flat Tile Roof Hook
											
14	Item No. Description	Tile Roof Hook	15	Item No. Description	Tile Roof Hook	22	Item No. Description	Flat Tile Roof Hook	23	Item No. Description	Flat Tile Roof Hook
											
16	Item No. Description	Tile Roof Hook	17	Item No. Description	Tile Roof Hook	24	Item No. Description	Slate Roof Hook	25	Item No. Description	Slate Roof Hook
											
18	Item No. Description	Tile Roof Hook	19	Item No. Description	Tile Roof Hook	26	Item No. Description	Slate Roof Hook	27	Item No. Description	Slate Roof Hook
											

Tilt Mounting



Adjustable tilt system is used for metal roof concrete roof, you can fixed or adjustable angle as 10-15deg, 15-30deg and 30-60deg options to maximize energy production. All Products pre-assembled before shipment, to make the installation easy and quickly. Unique design of inner and outer tube with adjustable Joint, made structure stronger, different from the same type products on the market today, and widely compatible with standing seam clamp.

Technical features:	
Product name	Adjustable tilt mounting system
Application	Flat concrete roof, metal roof
Inclination	10-15° , 15-30° , 30-60° or customized
Material	AL 6005-T5, SUS 304, EPDM
Finish	AL 6005-T5 Anodized
Module orientation	Landscape or Portrait

1 Assembly

Item No. | Description
Adjustable Front Leg



Item No. | Description
General End Clamp Kit



Item No. | Description
Universal Adjustable (30-40mm) Inner Clamp Kit (Include Spring & Earthing Clip)



Mini Rail with 5 degree support base, lift up the height of the solar panel to achieve cooling conditions, thus maximizing power generation. Simple design, easy to install, with good price.

Technical features:	
Product name	Mini Rail 5° Support mounting system
Application	Metal roof
Inclination	5°
Material	AL 6005-T5, SUS 304
Finish	AL 6005-T5 Anodized
Module orientation	Portrait

1 Assembly

Item No. | Description
General End Clamp Kit



Item No. | Description
Universal Adjustable (30-40mm) Inner Clamp Kit



Item No. | Description
26mm Mini Rail for Corrugated or Trapezoidal Sheet Metal



Item No. | Description
Mini Rail 5° Support Rear Leg



Item No. | Description
Mini Rail 5° Support Front Leg



Tilt Mounting



Tripod system is used for metal roof concrete roof, you can adjustable angle as 10-15deg, 15-30deg and 30-60deg options to maximize energy production. All Products pre-assembled before shipment, to make the installation easy and quick for saving your labor cost and time. Customized angle allowed according to customer needs to meet special installation requirements.

Technical features:	
Product name	Tripod mounting system
Application	Flat concrete roof, metal roof, open terrain
Inclination	Customized
Material	AL 6005-T5, SUS 304
Finish	AL 6005-T5 Anodized
Module orientation	Landscape or Portrait



1

Assembly

Item No. Description The Fixing Angle Tripod



Item No. Description The Adjustable Angle Tripod



Item No. Description Enerack 52mm Rail



Item No. Description Universal Adjustable (30-40mm) Inner Clamp Kit (Include Spring & Earthing Clip)



Item No. Description General End Clamp Kit



Tripod systems have fixed angle and adjustable angle design for options.



1.Fixed Angle Tripod system: According to customer need,we customize different sizes and angles to make a fast, easy and lower cost installation, this is Suitable for installation at known building angle.



2.Adjustable Angel Tripod : According to the site need to adjust the tripod angle for installation demand. It is suitable for multi-angle installation projects.

2

Assembly

Beam



U Base



32-32 AL Tube



3

Assembly

Beam



U Base



32-32 AL Tube



27-27 AL Tube



East & West Ballasted Mounting

1 Assembly

Item No. Description Ballasted 10° Front leg



Item No. Description Ballasted 10° Rear leg



Item No. Description Ballasted 15° Rear leg



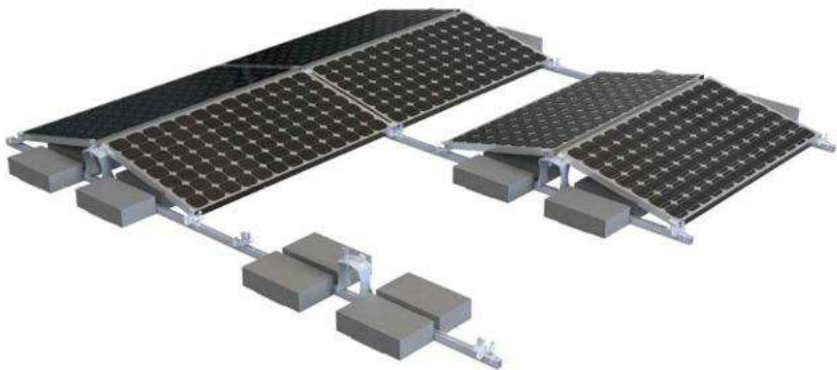
Item No. Description Ballast Tray



Item No. Description Ballast Wind Shield



Item No. Description EPDM Foam Tape for R41 Rail

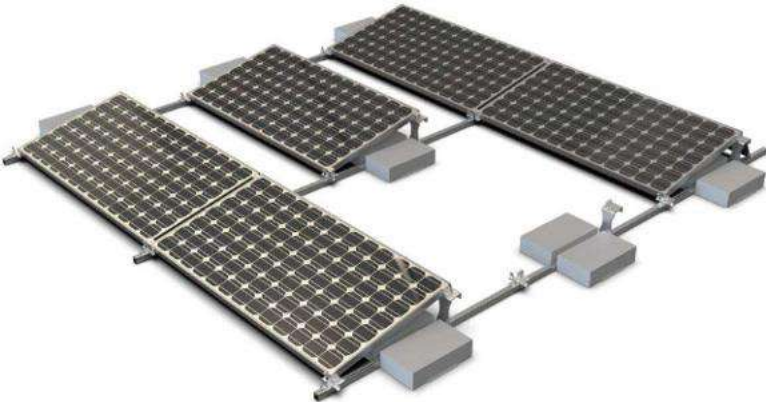
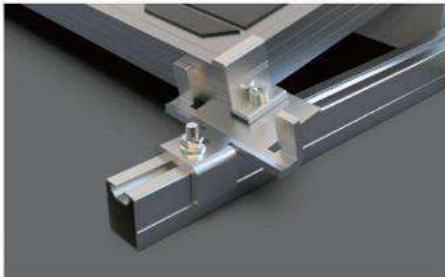
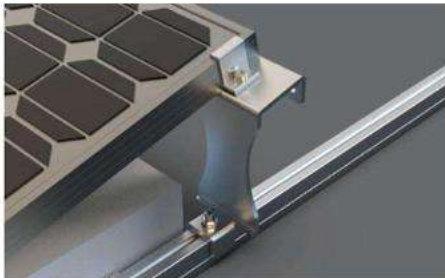


East & West ballasted mounting system

Technical features:	
Product name	East & West ballasted mounting system
Application	Flat concrete roof, metal roof, open terrain
Inclination	10° , 15° or customized
Material	AL 6005-T5, AL5052-H32, SUS 304, Aluminum zinc plate
Finish	AL 6005-T5 & AL5052-H32 Anodized
Module orientation	Landscape



2 Assembly

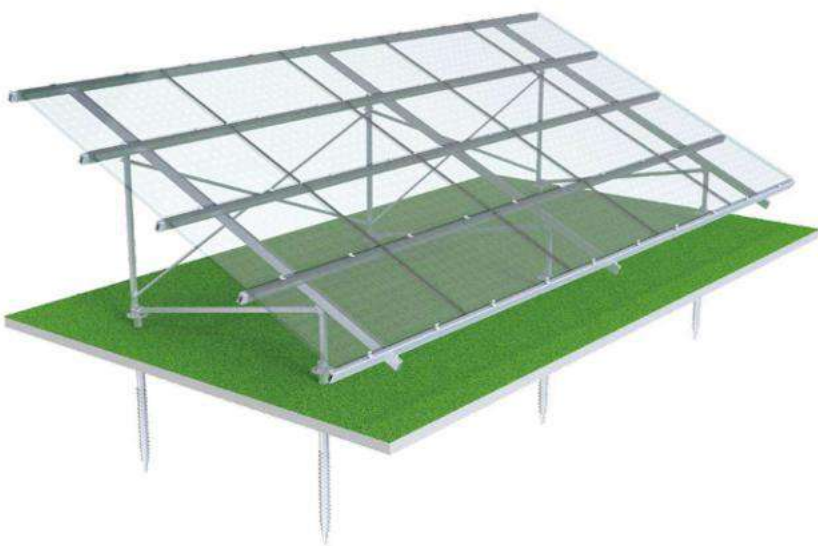


South or North ballasted mounting system

Technical features:	
Product name	South or North ballasted mounting system
Application	Flat concrete roof, metal roof, open terrain
Inclination	10° , 15° or customized
Material	AL 6005-T5, AL5052-H32, SUS 304, Aluminum zinc plate
Finish	AL 6005-T5 & AL5052-H32 Anodized
Module orientation	Landscape



Ground Mounting

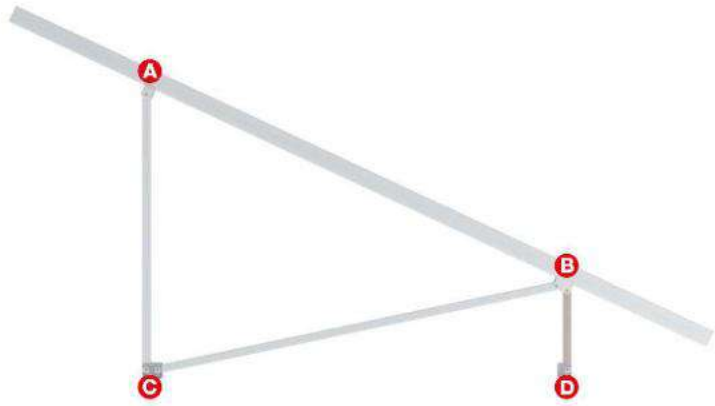


Standard Ground Mounting System

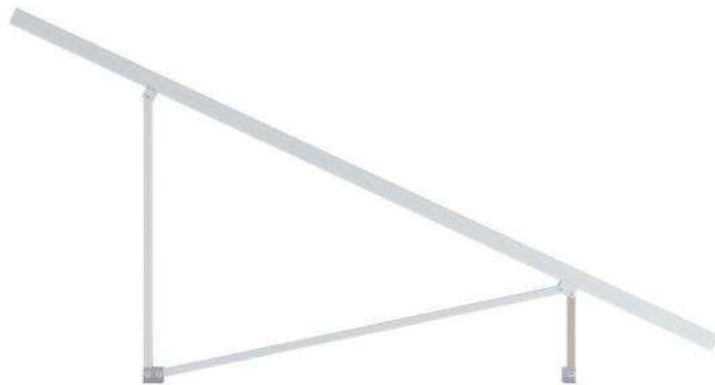
Aluminum ground mount, optimized for lightweight, quick and efficient installation with flexible engineering upon site conditions. Optional on foundation by ground screw or concrete. Maximize pre-assembled before shipment

Technical features:	
Product name	Standard ground mounting system
Application	Flat concrete roof, open terrain
Inclination	Customized
Material	AL 6005-T5, SUS 304, Q235
Finish	AL 6005-T5 Anodized, Q235 Hot-dip galvanizing
Module orientation	Landscape or Portrait

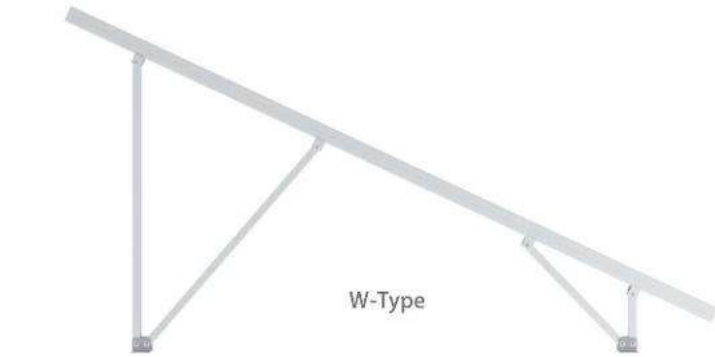
1 Assembly



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



N-Type



W-Type

2 Pre-Assembly



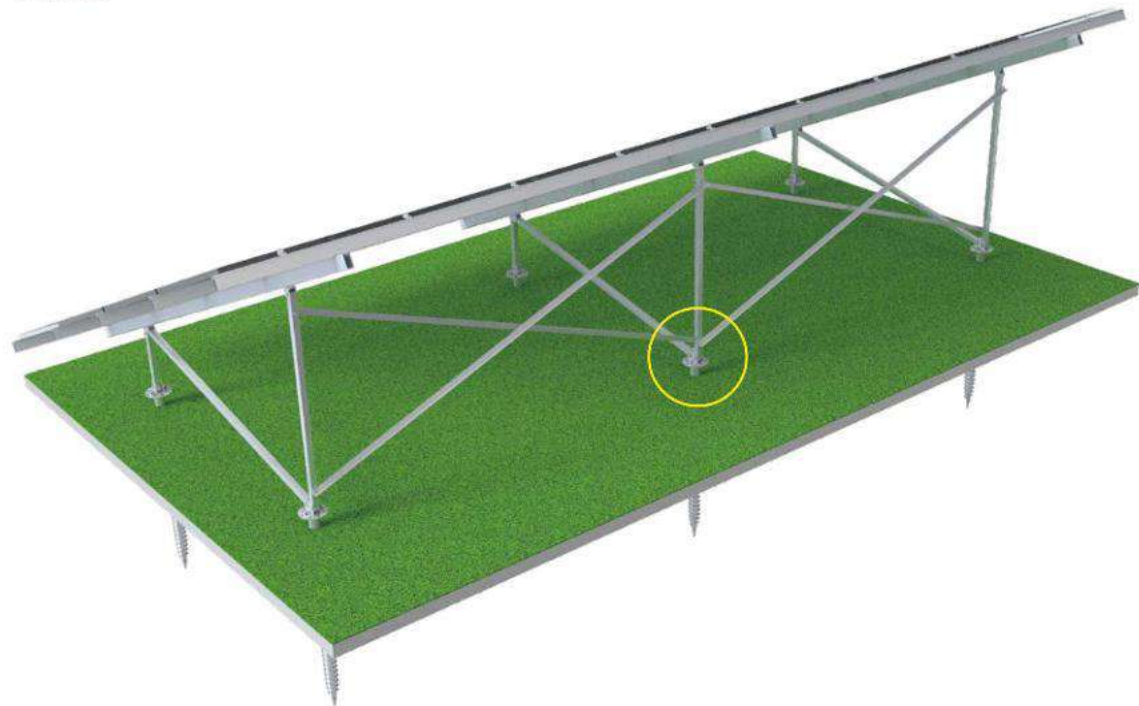
Depending on the different design conditions, pre-assembly support are generally designed into the following two shapes:

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.

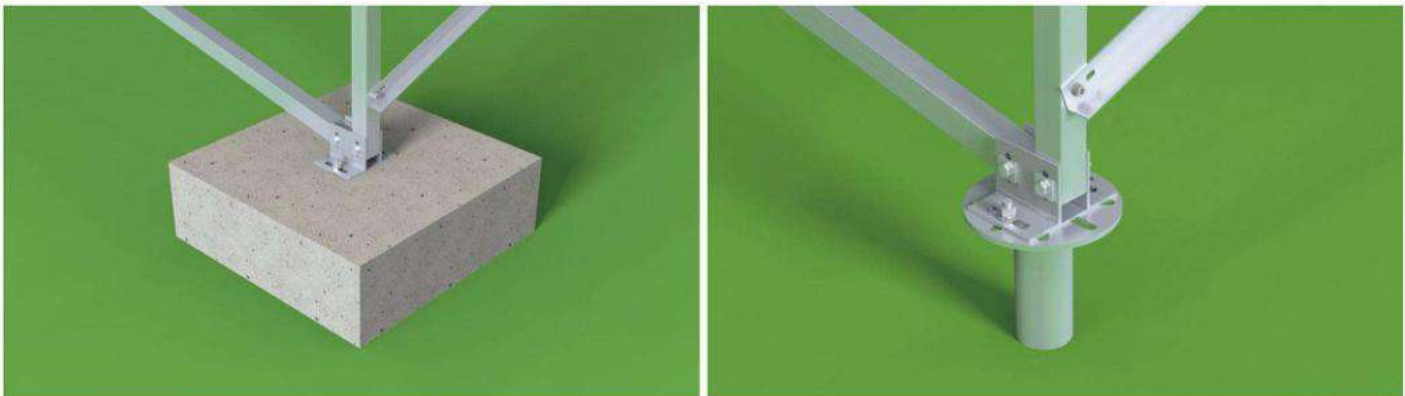
Ground Mounting

3 Cross



4 Foundation

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



Concrete Foundation

Screw Foundation

Item	Concrete Foundation		Screw Foundation					
Applicable terrain	Flat,EvenTilt,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	Not convenient 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 Screw Length	N=3		N=5		N=7		N=10	
	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).

Ground Mounting



U Pile Ground Mounting System

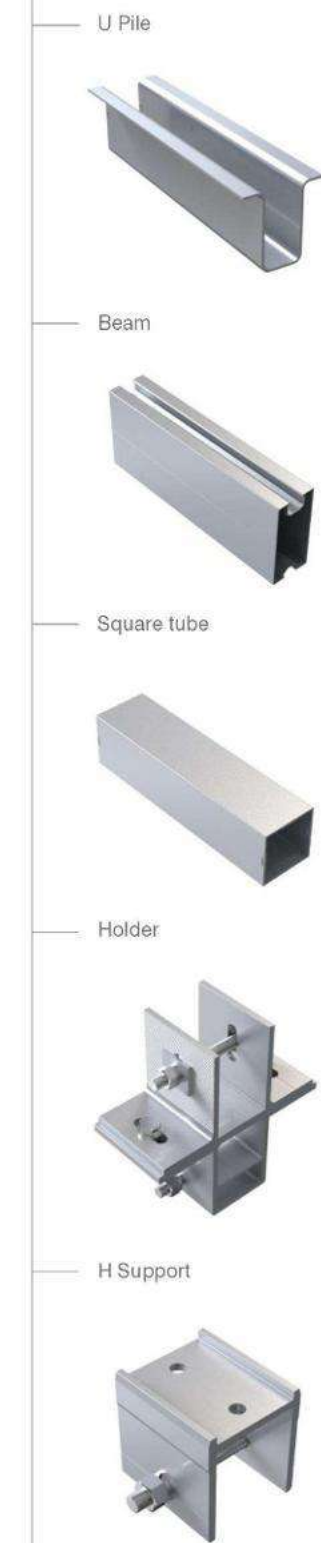
U Pile Ground Mounting Systems suitable for large scale power station installation, Pile to the ground made install faster and lower cost than others. Each components are Maximize pre-assembled, widely save your labor cost and install time. Customized allowed according to project wind & snow load, provide economic & effective solutions.



1 Assembly



2 Main structure & components



The U type Pile Ground Mounting System has been folded into a rectangular shape before shipment. Easy to transport.

Technical features:	
Product name	U Pile ground mounting system
Application	Open terrain
Inclination	Customized
Material	AL 6005-T5, SUS 304, Q235
Finish	AL 6005-T5 Anodized, Q235 Hot-dip galvanizing
Module orientation	Landscape or Portrait

Penetration depth	Conventional U pile compression and tensile strength reference values (KN)							
	N=3		N=5		N=7		N=10	
	Resistance	Compression Resistance	Resistance	Compression Resistance	Resistance	Compression Resistance	Resistance	Compression Resistance
1500	9.5	11.5	15.7	19.3	21.9	27	31.1	38.6
1600	10.1	12.3	16.7	20.6	23.3	28.8	33.2	41.2
1700	10.8	13.1	17.8	21.8	24.8	30.6	35.3	43.7
1800	11.4	13.9	18.8	23.1	26.2	32.4	37.3	46.3
2000	12.6	15.4	20.8	25.7	29.1	36	41.4	51.5
2200	13.8	17	22.9	28.3	32	39.6	45.6	56.6
2500	15.7	19.3	26	32.1	36.3	45	51.7	64.3

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

Carport Mounting



Carport Mounting System

Carport Mounting Systems offers a simplified and economical solutions that provides a perfect combination of Shade parking and solar power generation as well as electric vehicle charging. It applied for family parking, commercial parking, awnings and even bus stops.



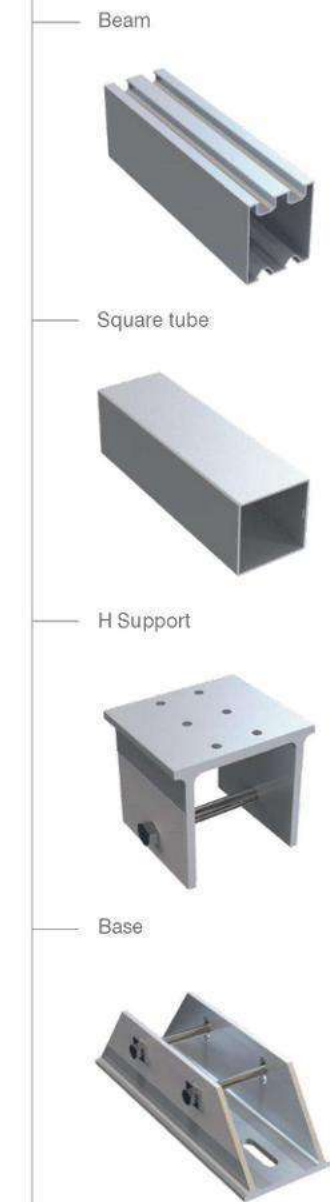
1 Structure & components



highly pre-assembled main structure for solar modules landscape or portrait 5° / 8° /10° inclination or custom customized and engineered to project maximal span up to 5.4m cover up to 2 parking spaces per span.

Technical features:	
Product name	Carport mounting system
Application	Solar parking structure
Inclination	5° , 8° ,10° or customized
Material	AL 6005-T5, SUS 304
Finish	AL 6005-T5 Anodized
Module orientation	Landscape

2 Main structure & components



SOLAR MOUNTING SOLUTIONS

ESSOLX

-Energy Storage Specialist-