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固美金属 金固美能源科技 铝型材应用

**SOLAR**  
 PV MOUNTING SYSTEM  
 Solar Panel Brackets

Xiamen Goomax Energy Technology Co., Ltd.

# Goomax Solar Bracket Features:

- High Strength
- High Stability
- Corrosion Resistance
- Easy Installation
- Recyclable
- Custom-made Available



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## Company Profile

Xiamen Goomax Energy Technology Co.,Ltd is a subsidiary of Goomax Group. With leading technology and efficient services, Xiamen Goomax Energy Technology Co.,Ltd specializes in the field of solar photovoltaic products development, manufacture, sales and services, and is committed to providing customers with reliable, cost-effective solar photovoltaic system solutions. Since its establishment, Goomax's solar products have been successfully sold to more than 100 countries and regions, which makes Goomax to be one of the largest solar photovoltaic product exporters in China.

Xiamen Goomax Energy Technology Co.,Ltd has established a professional R&D team, and the strategic partnerships with China's major colleges and universities. Goomax has launched a variety of PV mounting systems for ground, roof, carport and farmland, which have been an industry leader in both structure design and system performance.

At present, Goomax owns 2 major production bases in Nan'an, Fujian and Foshan, Guangdong, which cover 600,000 square meters and have more than 1,000 employees. Goomax has its own aluminum and stainless steel production bases, with mold factory, casting line, automatic extrusion line, anodization line, spraying line, galvanizing plant and chemical & physical laboratories center. Goomax's products successfully passed UL, AS / NZS1170, Golden Sun and many other international and domestic certification authorities, and has a variety of patented installation systems, which help to achieve the industry-leading level.

Since establishment, Goomax persists in "customer-oriented, honesty, unity and pragmatic", adheres to the scientific concept of development and strict quality management, has passed the ISO9001: 2008 quality certification and ISO14001 environment certification, and has obtained the titles of "advanced quality management enterprise", "high-tech enterprises in Fujian Province".

## Honorary titles

- Famous Chinese Trademark
- Fujian brand
- Innovative enterprises
- Science and technology enterprises
- Top 10 Chinese aluminum manufacturers

AS/NZS 1170.2



## Production Base



Production Headquarters in Goomax Industrial Park,  
 Dongtian Town, Nan'an City, Fujian, China



Production Base in GOOMAX Industrial Park

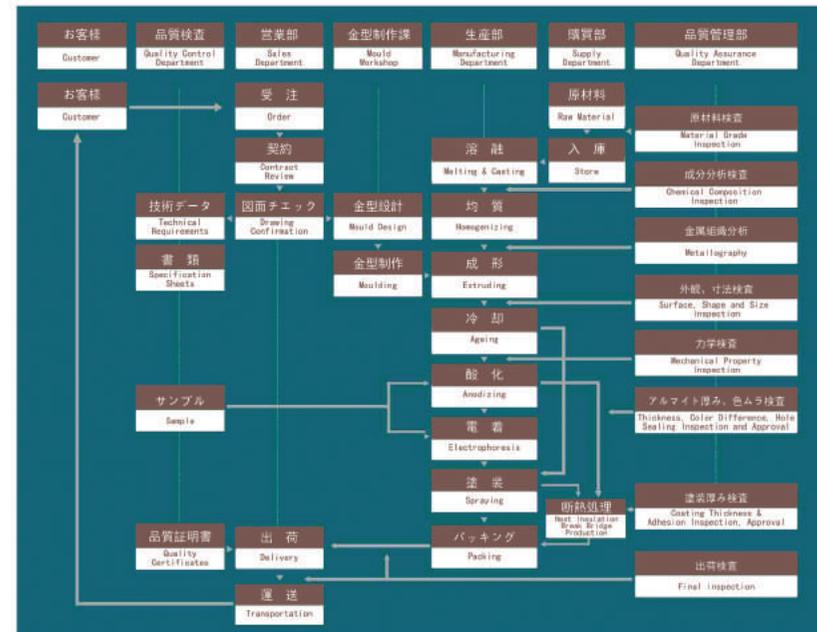
## Production System

Goomax Aluminum production base is equipped with top-ranking equipments, such as the advanced high automatic horizontal spraying production lines and ultra-large-scale horizontal anodization production workshop. While practising corporate responsibility, Goomax achieves a harmony with nature.



## Quality Management System

Since its establishment, Goomax has been viewing product quality as the enterprise's life. From selection of raw materials to innovation of production process, strictly implementing international quality standards to setting up a directly governed quality control center, we take strict quality control in each step from R & D to production, ensuring each product to be perfect.



## Logistics Supply System



Warehouse



Land Transportation System

## Sales Network

"Limit of the market rests with the limit of enterprise pursuance; Width of the market is decided by the enterprise vision." After years of market cultivation, Goomax not only establishes a widely distributed domestic sales network, but also extends the sales to overseas markets. With the intensified market competition and accelerated global economic integration, Goomax expects to work together with the partners to set up a more competitive global marketing system and seek for a better business development.



## Enterprise Honors



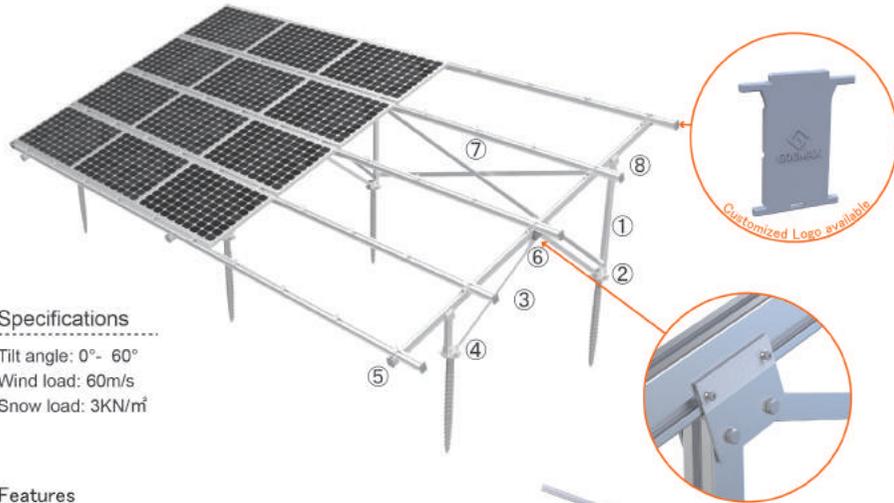
## Company Culture

Humanities Vitality Diversity

- ☆ People-oriented
- ☆ Vitality-maintained
- ☆ Cohere with the powerful strength
- ☆ Forge the most powerful team
- ☆ Stimulate the forefront of creativity



## Aluminum Ground Mounting System I



### Specifications

Tilt angle: 0° - 60°  
Wind load: 60m/s  
Snow load: 3KN/m<sup>2</sup>

### Features

1. High class anodized 6005-T5 aluminum & SUS304 stainless steel for anti-corrosion.
2. Most of the parts are pre-assembled before shipment, which enables simple, fast and cost effective installation.
3. Each project is designed individually, to offer customers the most economic solutions.
4. The components pass strict SGS tests to ensure high strength.
5. Customized designs are available.



① GM-AG1-S2    ① GM-AG1-S    ② GM-AG1-B04    ③ GM-AG1-ST2    ④ GM-AG1-B03



⑤ GM-R03    ⑥ GM-AG1-CH02    ⑦ GM-AG1-FS    ⑦ GM-AG1-LS    ⑧ GM-AG1-CH01



## Rail Splice Installation



## Leg Base Installation



Tolerance: 50mm back and forth

## Leg Base & Ground Screw Installation



## Mounting Structure Type

2 rows, 3 rows, 4 rows



4 rows, 5 rows



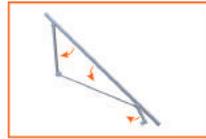
More than 5 rows



Customized design available

## Pre-assembled Parts

Front & back legs, beam and reinforced pipes are pre-assembled before shipment, which enables simple, fast and cost effective on-site installation.



## Installation Steps



Drive ground screws into the soil



Mount pre-assembled parts



Fasten ground screws and pre-assembled parts



Assemble rails and reinforced pipes



Install solar panels

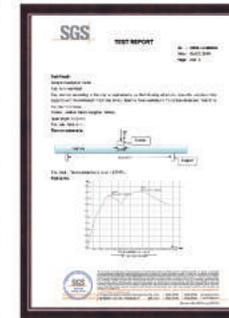


End

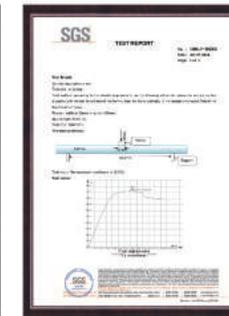
## Package & Logistics



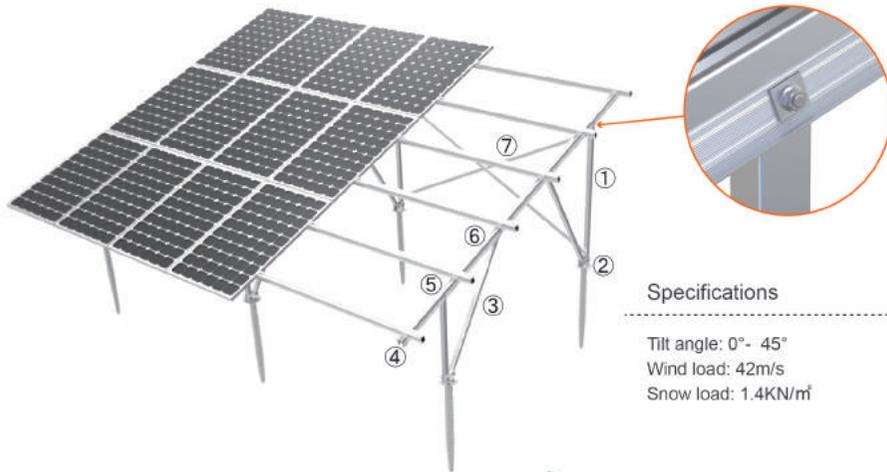
## R05 rail test report



## R03 beam test report



## Aluminum Ground Mounting System II



### Specifications

Tilt angle: 0°- 45°  
 Wind load: 42m/s  
 Snow load: 1.4KN/m<sup>2</sup>

### Features

1. AL mounting system II adopts bolt connection, which offers easier and more accurate installation.
2. New designed channel strut enables the installation by a single person.
3. AL mounting system II adapts to the places with wind load <42m/s and snow load <70CM.
4. Front-legless solution is recommended for ground clearance less than 500mm.



- ① GM-AG2-S      ② GM-AG2-B01      ③ GM-AG2-B04      ④ GM-AG2-ST2



- ④ GM-R21

- ⑤ GM-BR-01-Q

- ⑥ GM-AG2-M10\*85

- ⑦ GM-AG1-FS



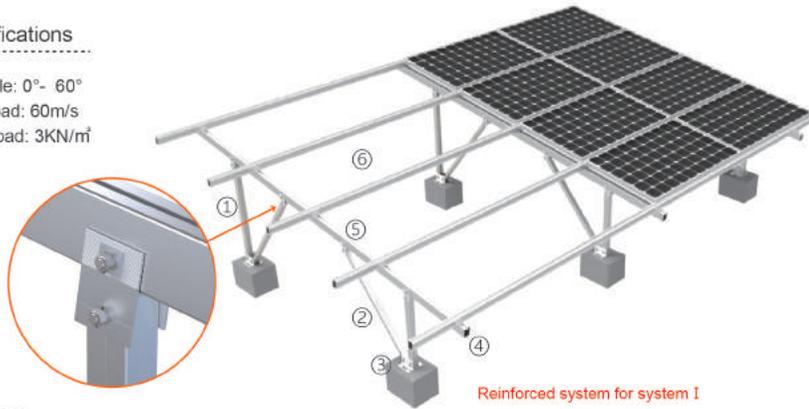
## Reinforced Pipe Installation



## Aluminum Ground Mounting System III

### Specifications

Tilt angle: 0°- 60°  
Wind load: 60m/s  
Snow load: 3KN/m<sup>2</sup>



Reinforced system for system I

### Features

1. Aluminum Ground Mounting System adopts 6005-T5 anodized aluminum and SUS304 stainless steel, which offer high strength and corrosion resistance.
2. Most of the parts are pre-assembled before shipment, which enables simple, fast and cost effective installation. The installation will be faster and easier than system I.
3. Different parts can be adopted to save cost per load requirements.



Side view

① GM-AG1-S2    ② GM-AG1-ST2    ③ GM-AG1-B03    ④ GM-AG1-B04



⑤ GM-R18    ⑥ GM-AG3-CH01    ⑦ GM-AG3-CH02    ⑧ GM-AG1-LS



## Front-legless Aluminum Ground Mount



During installation



After installation

### Parts

GM-AG1-S2    GM-AG1-ST2    GM-AG1-FS    GM-AG1-B02    GM-AG1-B06    GM-R21



GM-AG3-CH02    GM-AG3-CH01    GM-R18    GM-AG2-B04    GM-AG1-CH01    GM-R03



### Specifications

Tilt angle: 0°-30°  
Wind load: 60m/s  
Snow load: 3 KN/m<sup>2</sup>  
Materials:  
6005-T5 Aluminum  
SUS304 stainless steel

R13 beam test reports



## Projects Reference

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▲ I baraki-ken, Japan



▲ Saitama-ken, Japan



▲ Fukushima-ken, Japan  
▼ Gunma-ken, Japan

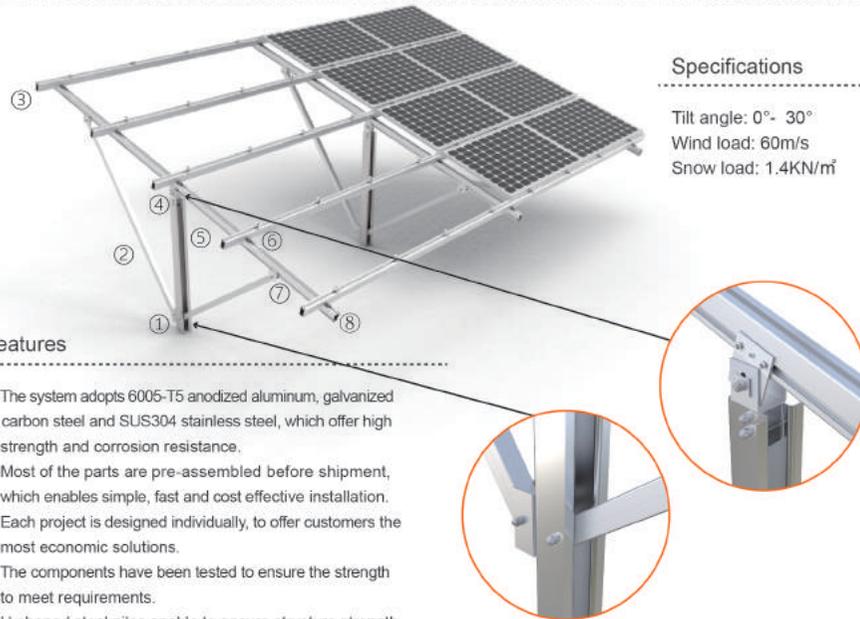
▼ I baraki-ken, Japan



## Projects Reference



## U-shaped steel Single Pole Ground Mount



### Specifications

Tilt angle: 0°- 30°  
Wind load: 60m/s  
Snow load: 1.4KN/m<sup>2</sup>

### Features

1. The system adopts 6005-T5 anodized aluminum, galvanized carbon steel and SUS304 stainless steel, which offer high strength and corrosion resistance.
2. Most of the parts are pre-assembled before shipment, which enables simple, fast and cost effective installation.
3. Each project is designed individually, to offer customers the most economic solutions.
4. The components have been tested to ensure the strength to meet requirements.
5. U-shaped steel piles enable to ensure structure strength and reduce construction time.

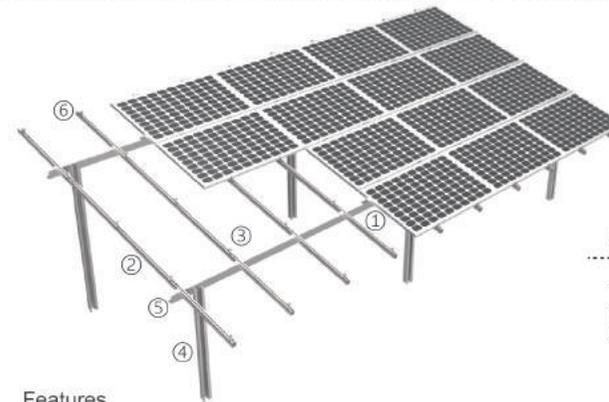
① GM-US-C02      ② GM-AG1-S2      ③ GM-R05      ④ GM-US-C01



⑤ GM-US-B      ⑥ GM-BR-01      ⑦ GM-AG1-CH01      ⑧ GM-R03



## Galvanized Carbon Steel Piling System



### Specifications

Tilt angle: 5~20°  
Wind load: 60m/s  
Snow load: 3KN/m<sup>2</sup>

### Features

1. The system adopts hot-galvanized carbon steel and stainless steel, which offer high strength and corrosion resistance.
2. This system is more efficient and cheaper than ground screw system.
3. The posts can be piling directly into the soil, which make the system stronger.
4. The design simplifies on-site installation. There is no need for on-site cutting, drilling and welding, which enables simple, fast and cost effective installation.
5. Custom-design per request to lower down the cost.

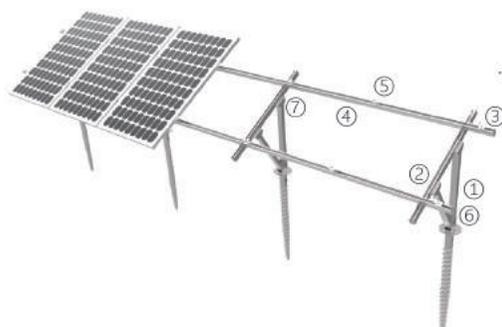
① GM-SG-RS-01      ② GM-SG-R01      ③ GM-SG-MC-40



④ GM-SG1-U01      ⑤ GM-SG1-BE-01      ⑥ GM-SG-EC-40



## Single Ground Screw Carbon Steel Mount

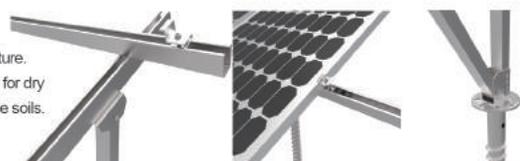


### Specifications

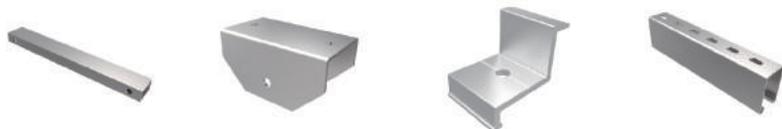
- Applicable for: civil use, ground power system
- Foundation: ground screw
- Structure material: hot-dip galvanized steel, aluminum alloy, stainless steel
- Ground screw material: Q235
- Snow load: 0.8 KN/m<sup>2</sup>
- Wind load: 32m/s
- Tilt angle: fixed, customized available
- Solar module type: framed module, or frameless thin film module
- Galvanizing thickness: 65µm or customized

### Features

1. Competitive Price.
2. Fast Installation.
3. Suitable for small power station.
4. To save installation time and cost.
5. Ground screw system to assure sturdy and stable structure.
6. Applicable for different geological conditions, especially for dry and rigid soils such as rocky, frozen, gravelly and pebble soils.
7. Array: Landscape or Portrait.



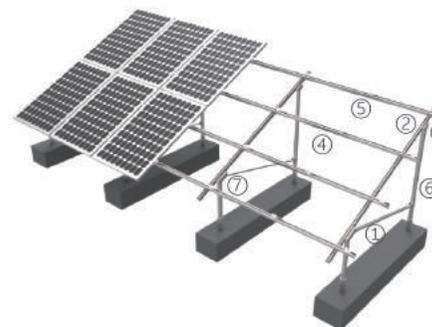
① GM-SF-S      ② GM-SF-C01      ③ GM-SF-EC-X      ④ GM-SF-R01



⑤ GM-SF-MC-X      ⑥ GM-SF-B01      ⑦ GM-SF-C02



## Concrete Foundation Ground Mount (Pre-buried Steel Pipe)



### Specifications

- Applicable for: large-scale ground solar park
- Foundation: concrete base
- Structure material: hot-dip galvanized steel, aluminum alloy, stainless steel
- Snow load: 1.0 KN/m<sup>2</sup>
- Wind load: 38m/s
- Tilt angle: fixed, customized available
- Solar module type: framed module, or frameless thin film module
- Galvanizing thickness: 65µm or customized

### Features

1. With steel pipe pre-buried, fast installation.
2. Sturdy, Stable, Durable.
3. Cast-in concrete for high accuracy, perpendicularity and evenness of module arrays.
4. Suitable for regions with low-cost concretes.
5. Applicable for different geological conditions, such as soft grass lands, or rigid and stony soils, gobi, deserts, gravel soils.
6. Suitable for regions with high wind and heavy snow.
7. Array: Landscape or Portrait.



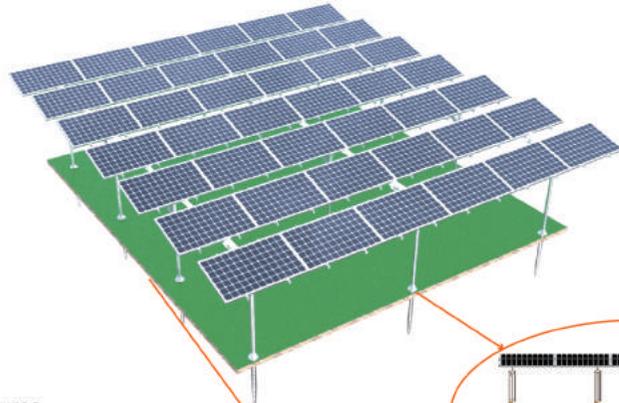
① GM-SF-ST      ② GM-SF-C01      ③ GM-SF-EC-X      ④ GM-SF-R01



⑤ GM-SF-MC-X      ⑥ GM-SF-S      ⑦ GM-SF-C02



## Farmland Mounting System I

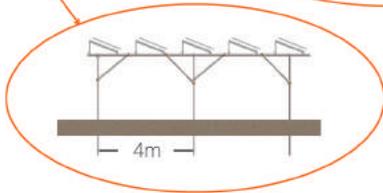
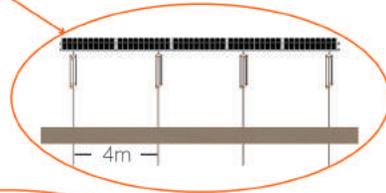


### Specifications

Tilt angle: 0°- 30°  
Wind load: 42m/s  
Snow load: 1.4 KN/m<sup>2</sup>  
Materials:  
6005-T5 anodized aluminum  
SUS304

### Features

1. High strength & corrosion resistance.
2. Heavy snow and typhoon resistance.
3. Easy and fast installation.
4. To install over the farmland, help to economize land utilization.
5. Recyclable.
6. Customized design available.



GM-FG-S2



GM-FG-S1



GM-FG-B01



GM-R33



GM-FG-C02



GM-FG-C01



GM-FG-C03



## Farmland Mounting System II



### Features

1. High corrosion resistance, light weight and high strength.
2. Easy for installation.
3. Easy and fast installation.
3. Agricultural land + solar power generation, effective use of land resources.
4. It can be customized according to customer requirements.



## Project reference



## Carport Mounting System I



### Specifications

Tilt angle: 0° - 15°  
 Wind load: 60m/s  
 Snow load: 3KN/m<sup>2</sup>  
 Customized color available



### Features

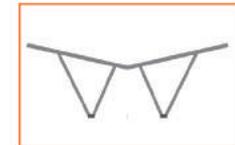
- Made of 6005-T5 aluminum and 304 stainless steel, high strength & corrosion resistance.
- Heavy snow and typhoon resistance.
- Easy and fast installation.
- Economize the land utilization.
- Recyclable.
- Customized design available.



IV-Rack



W-Rack



V-Rack

GM-BR-01



GM-CP-S



GM-R06



GM-R07



GM-CP-B01



GM-CP-LS



GM-CP-M14 × 140



GM-MC-50-CP



## Project Reference



◀ Gunma-Ken, Japan

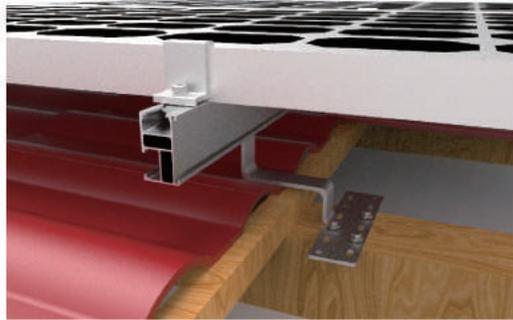
▼ Takamatsu city, Japan



▲  
Yamaguchi-ken, Japan ▶



## Roman Tile Roof Mount

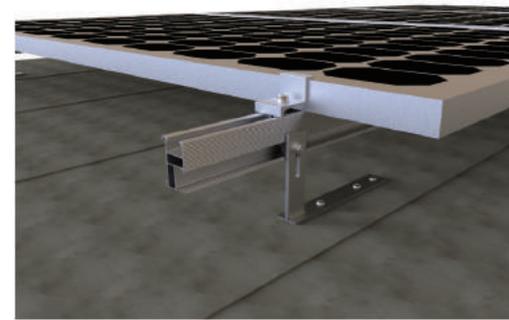


### Features

1. Accommodate different types of PV solar panels.
2. Custom-made tile hooks based on tile specifications.
3. Made of 6005-T5 aluminum and 304 stainless steel for heavy snow and typhoon resistance.
4. Light weight, high strength & corrosion resistance.
5. Easy and fast installation.
6. Recyclable.
7. Custom-made available.



## Flat Tile Roof Mount



### Features

1. Accommodate different types of flat tile roofs.
2. Made of 6005-T5 aluminum and 304 stainless steel for heavy snow and typhoon resistance.
3. Pre-assembled parts for easy and fast installation.
4. Recyclable.
5. Custom-made available.



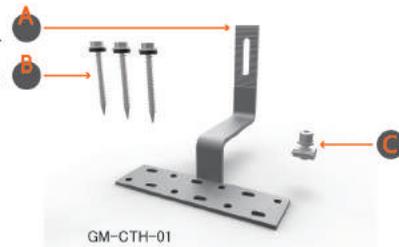
### Component List

#### Components

- A. 304 Stainless steel hook
- B. 6.3\*80mm lag screw & EPDM washer
- C. M8\*25mm SUS304 bolt & rail nut & SUS washer

#### Quantity

- 1
- 3
- 1



### Component List

#### Components

- A. 304 Stainless steel hook
- B. 6.3\*80mm lag screw & EPDM washer
- C. M8\*25mm SUS304 bolt & rail nut & SUS washer

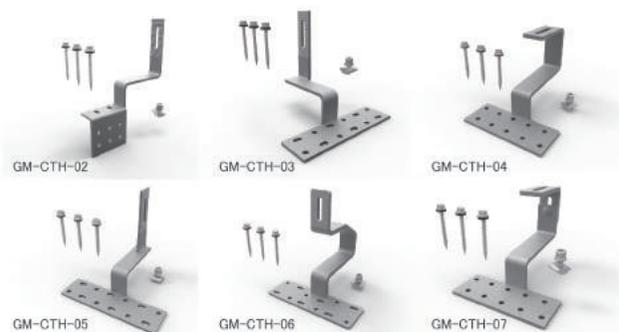
#### Quantity

- 1
- 3
- 1

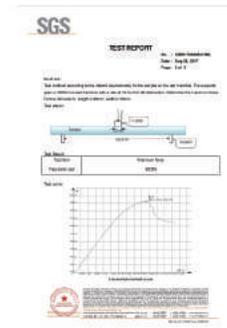


AS/NZS 1170.2

### Roman tile hook options



### SGS test report



### Flat tile hook options



## L Feet Mount

Goomax L feet mount can be widely used on universal corrugated metal sheet roof. It can fix to the wooden or steel roof rafter directly.



GM-MRH-L5  
( For wooden rafter )



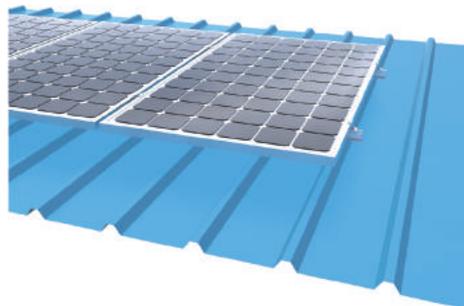
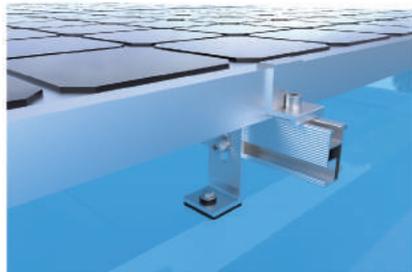
GM-MRH-L10  
( For steel rafter )

### Features

1. AL6005-T5 with 10 micron anodized layer
2. Simple, fast and cost-effective installation
3. Water-proof EPDM



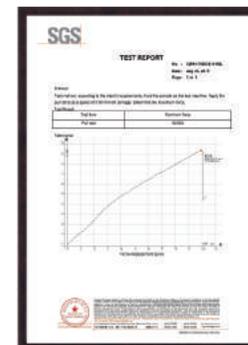
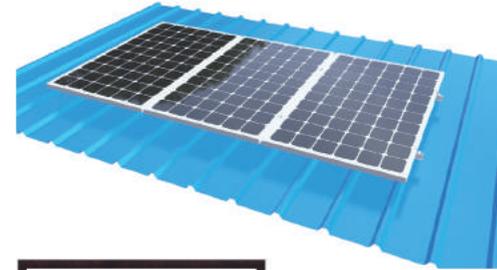
\* AN/NZS 1170.2 certificate



## Hanger Bolt Roof Mount

### Features

1. Accommodate different types of PV solar panels.
2. Unique connector design for quick and easy installation.
3. Parts made of 6005-T5 aluminum and 304 stainless steel to offer high strength, corrosion resistance and durability.
4. Accommodate different types of metal tile roof.
5. Recyclable.
6. Custom-made available.



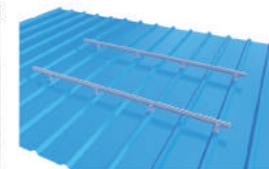
GM-MRH-L



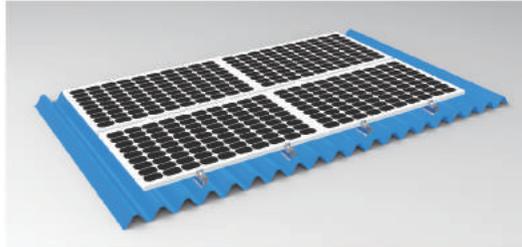
GM-MRH-LDS-03



GM-MRH-DS

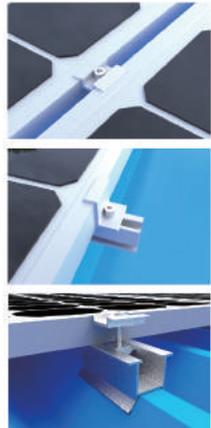


## Rail Free Roof Mount



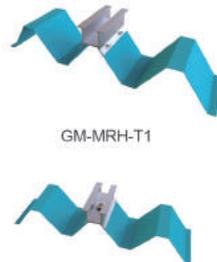
### Features

1. Accommodate different types of PV solar panels.
2. Unique connector design for quick and easy installation.
3. Parts made of 6005-T5 aluminum and 304 stainless steel to offer high strength, corrosion resistance and durability.
4. No roof penetration & recyclable.
5. Custom-made available for different metal roof tiles.



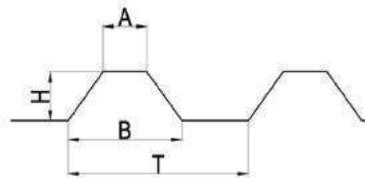
### Rail free mount

This hook is designed for trapezoid metal roof, which supply a strong solution by fixed to the roof purlin directly.



GM-MRH-T1

Metal roof tile:



Trapezoid metal sheet spec				
Style	A	H	B	T
88Style	35	88	165	200
150tyle	40	150	210	250
S 60tyle	50	170	250	300

For other sheet specs, please consult us.

## Trapezoidal Metal Roof Mount

This trapezoidal metal roof mounting system offers the best horizontal and vertical installation solution.



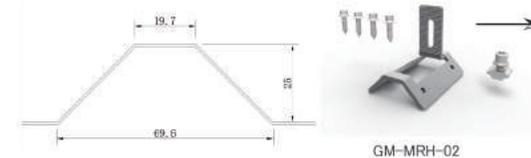
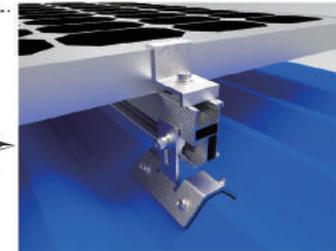
### Features

1. Simple and fast installation.
2. SUS304 Material for good corrosion resistance.
3. Waterproof EPDM rubber integrated.
4. Fasteners and rail nuts included.

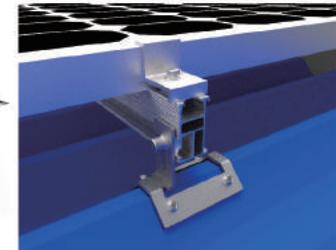
Fix the rail on trapezoidal metal roof directly.



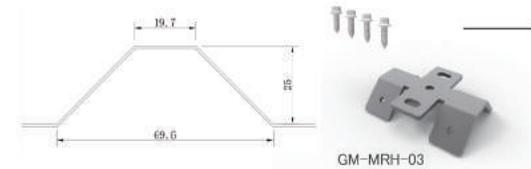
GM-MRH-01



GM-MRH-02



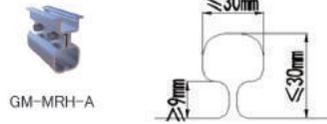
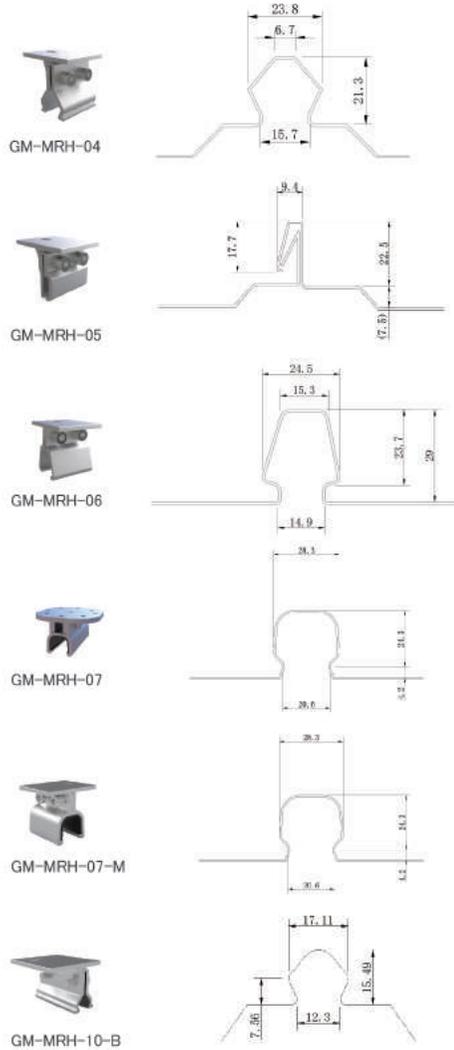
It can be used as a base or work with rail clamp to fix the rail on trapezoidal metal roof.



GM-MRH-03

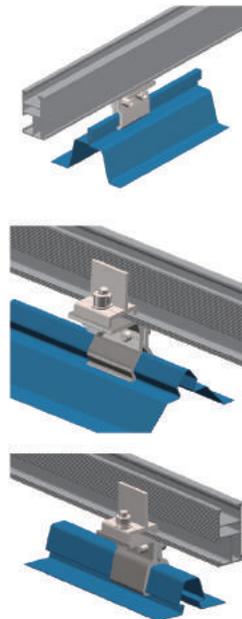


## Standing Seam Roof Mount

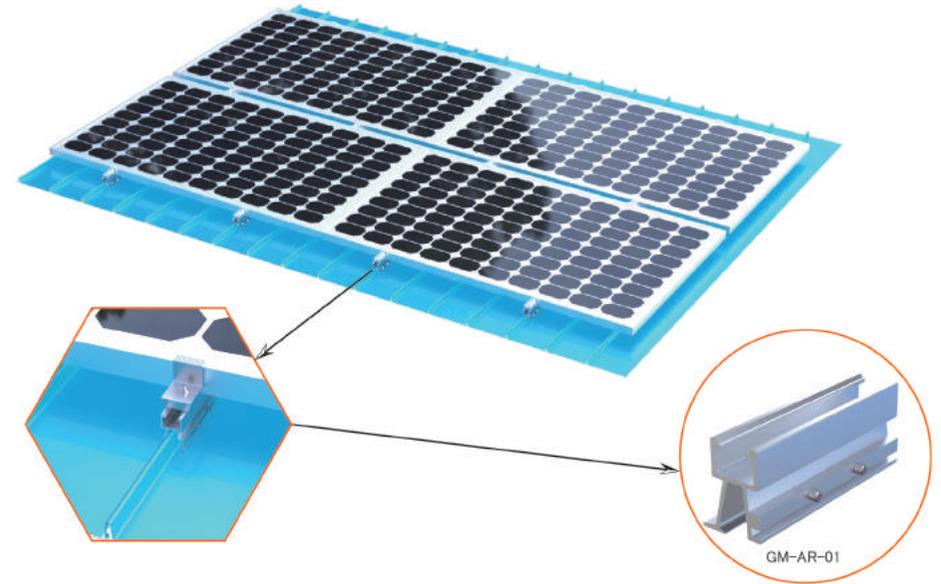


### Features

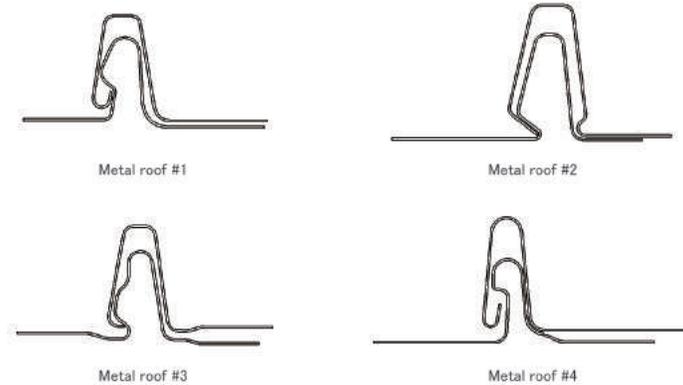
- Simple and fast installation.
- High grade anodized 6005-T5 aluminum for corrosion resistance.
- Waterproof EPDM rubber integrated.



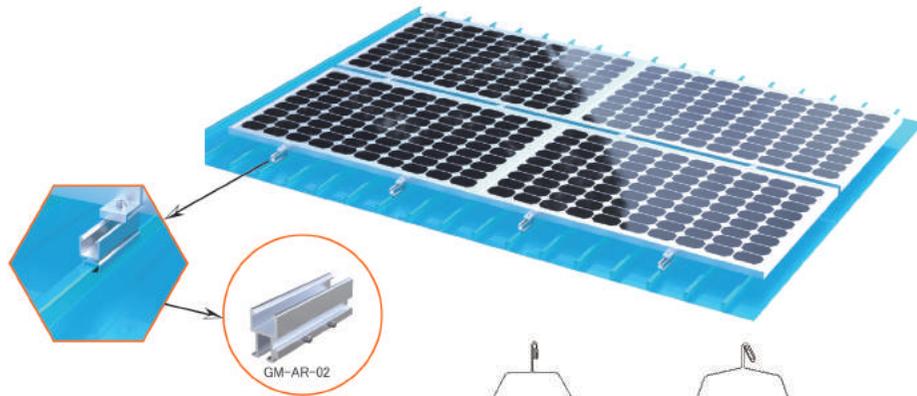
## Standing Seam Roof Mount



This clamp can accommodate the following 4 types of metal roof profiles.



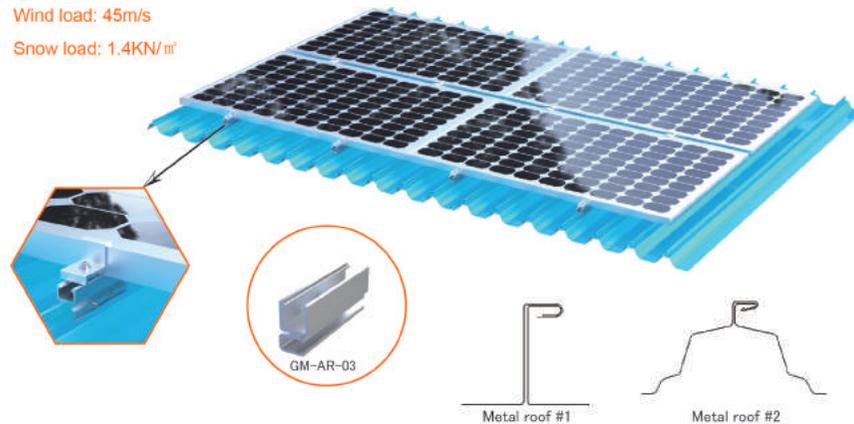
## Standing Seam Roof Mount



Conditions recommended as below:

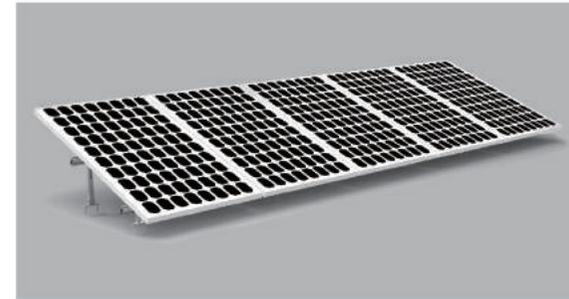
Wind load: 45m/s

Snow load: 1.4KN/m<sup>2</sup>



These metal roof clamps are our most versatile clamps, which can fit various metal roofs. Roof clamp is made of Al6005-T5 and SUS304 with high strength and corrosion-resistance. Easy and fast installation with roof clamp and panel clamps only. There is no need for rails, which can help to save the cost dramatically.

## Adjustable Tilt Roof Mount

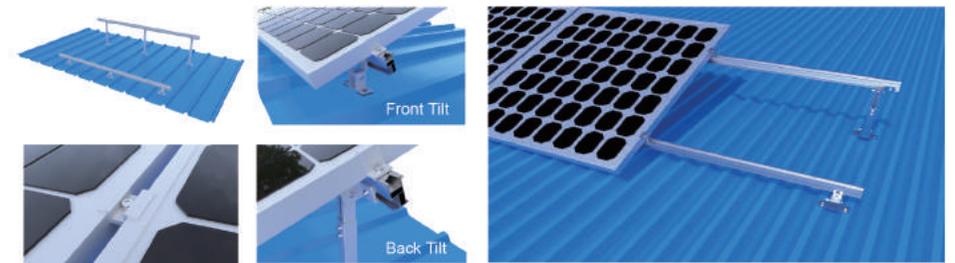


### Features

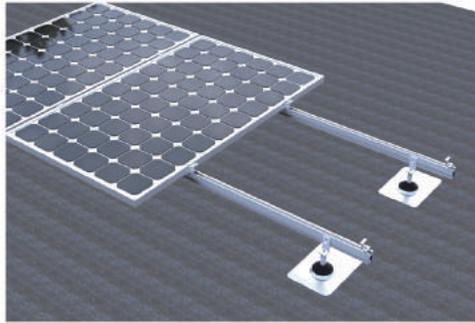
1. Easy and fast installation.
2. Adjustable tilt angle per different requests.
3. Saving on-site installation time and labor costs.
4. Recyclable.
5. Custom-made available.



AS/NZS 1170.2



## Asphalt Shingle Roof Mount



### Features

1. Simple and fast installation.
2. Aluminum flashing for high water-proof protection.
3. Waterproof EPDM rubber integrated.
4. Fasteners and rail nuts included.



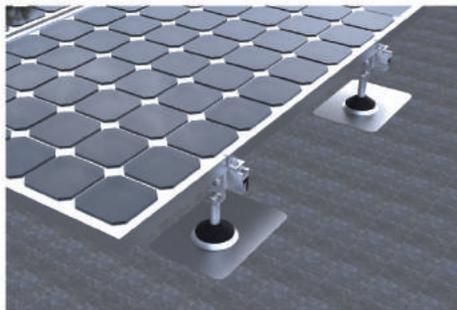
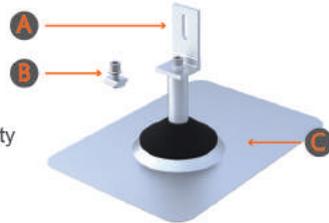
### Component List

#### Components

- A. 6005-T5 aluminum L foot
- B. M8\*25mm SUS304 bolt & rail nut & SUS washer
- C. Aluminum flashing

#### Quantity

- 1
- 1
- 1

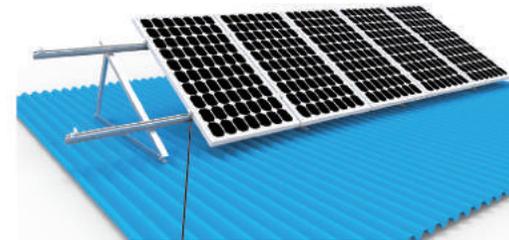


L foot water-proof system



Flat tile water-proof system

## Tripod Roof Mount



### Specification

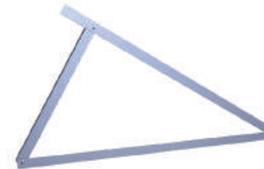
- Tilt angle: 0°- 60°
- Wind load: 60m/s
- Snow load: 1.4KN/m<sup>2</sup>
- Material: 6005-T5 aluminum & SUS304



\*Suitable for a variety of roofs.



Integrated bonding mid clamp



### Project Reference



General triangle roof mounting system ▲



Custom-made triangle roof mounting system ▲

## Ballasted Roof Mount



### Specifications

Tilt angle: 0°- 15°  
 Wind load: 42m/s  
 Snow load: 1.4KN/m<sup>2</sup>  
 Material:  
 6005-T5 aluminum & SUS304



### Features

1. PV Module: framed & frameless.
2. Ballasted blocks without roof penetration.
3. Pre-assembled parts for simple and fast installation.
4. Tilt angles: 5°/10°/15°.



GM-R11 	GM-BS-RE 	GM-BS-FF 
GM-BS-WB 	GM-BS-EBP 	GM-BS-MBP 

## Rail



GM-R01



GM-RS-01



GM-R01-Light



GM-RS-01-L

## Roof Mount Parts

## Mid Clamp & End Clamp

Middle clamp



GM-MC-30/33/35/40/45/50mm

End clamp



GM-EC-30/33/35/40/45/50mm

Thin film mid clamp  
5mm - 8mm



GM-MC-60-TF2

Thin film end clamp  
5mm - 8mm



GM-EC-60-TF2

Grounding Lug



GM-EK

Rail earthing



GM-E-EL-04

## Project Reference

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## Ground Screws



### Ground screw galvanization procedures:

- 1. Deoiling:**  
Dip ground screws into a pool with heated sodium hydroxide solution to remove the oil, then rinse with water.
- 2. Acid wash:**  
Remove the rust and oxidation by hydrochloric acid, then rinse with water.
- 3. Hot dip galvanizing:**  
Dip ground screws into the galvanizing pool with 98.5% and 450 C zinc solution, and control the galvanization time to achieve the thickness of zinc layer per request.
- 4. Package:** Clean the surface of ground screws and pack with iron-framed box.

### Goomax ground screw advantages:

- ◆ Strong corrosion resistance with more than 80 micron galvanized layer.
- ◆ Meeting JIS H 8641 technical standards; HDZ 55 coating thickness standard.
- ◆ Monthly Capacity: more than 75,000pcs.



## Ground Screw Workshops



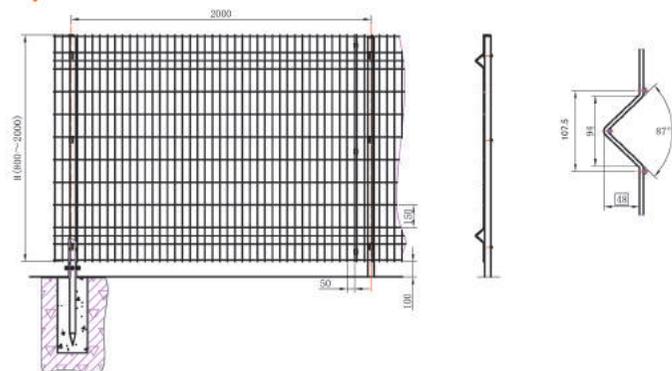
\*Custom-made ground screws available.



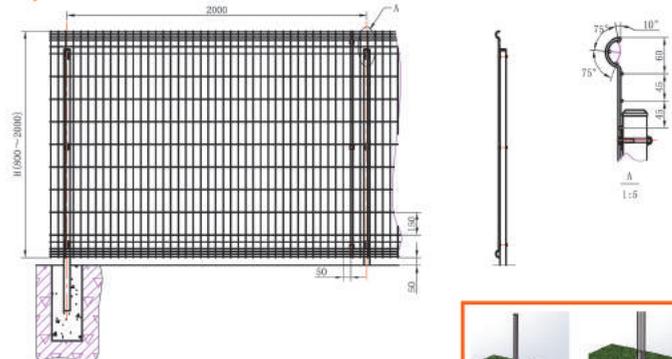
Item NO	Diameter (mm)	Thickness (mm)	Flange Diameter (mm)	Tension and pressure when the flange is 200mm above the floor									
				Clay soil N value					Sandy soil N value				
				3	5	10	15	25	3	5	10	15	25
GM-F76-1200-T3	76	3	220	4.6	8.4	17.8	27.3	45.8	6.1	8.9	15.4	22.9	36.9
GM-F76-1400-T3	76	3	220	5.9	10.6	22.4	34.3	57.7	7.7	11.2	20	28.8	46.7
GM-F76-1600-T3	76	3	220	7.3	13.1	27.6	42.1	71.2	9.4	13.8	24.7	35.7	57.4
GM-F76-1800-T3	76	3	220	8.9	15	31.6	48.2	81.4	10.8	15.8	28.2	40.9	65.9
GM-F76-2000-T3	76	3	220	9.3	17.3	36.5	55.7	94.1	12.5	18.2	32.6	47.8	75.6
GM-F76-2200-T3	76	3	220	10.7	18.1	38.3	58.8	98.8	13.4	19.2	34.3	49.5	79.9
GM-F76-2500-T3	76	3	220	11.8	20.7	43.7	66.8	112.8	15.5	21.9	39.1	56.5	90.6
GM-F76-3000-T3	76	3	220	13.9	25	52.8	80.9	136.2	18.9	26.4	47.3	68.3	109
GM-F76-1200-T3.5	76	3.5	220	4.9	8.4	17.9	27.5	45.8	6.3	8.8	15.8	22.8	36.8
GM-F76-1400-T3.5	76	3.5	220	5.9	10.8	22.6	34.5	57.7	7.9	11.5	19.3	28.5	46.7
GM-F76-1600-T3.5	76	3.5	220	7.3	13.1	27.6	42.1	71.2	9.4	13.8	24.7	35.6	57.8
GM-F76-1800-T3.5	76	3.5	220	8.3	15	31.6	48.2	81.4	10.8	15.8	28.3	40.7	65.9
GM-F76-2000-T3.5	76	3.5	220	9.6	17.3	36.5	55.7	94.1	12.5	18.2	32.3	47.8	75.6
GM-F76-2200-T3.5	76	3.5	220	10.1	18.1	38.3	58.5	98.8	13.1	19.2	34.7	49.6	79.9
GM-F76-2500-T3.5	76	3.5	220	11.4	20.7	43.7	66.8	112.8	15	21.9	39.1	56.6	90.6
GM-F76-3000-T3.5	76	3.5	220	13.9	25	52.8	80.6	136.2	18.1	26.4	47.9	68.1	109

## Photovoltaic Plant Fence

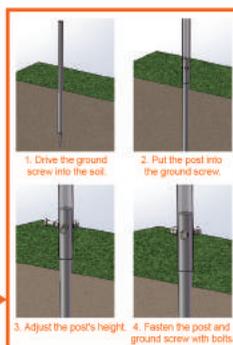
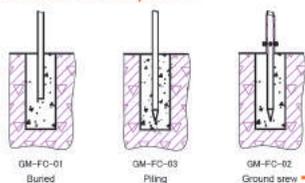
Style 1



Style 2

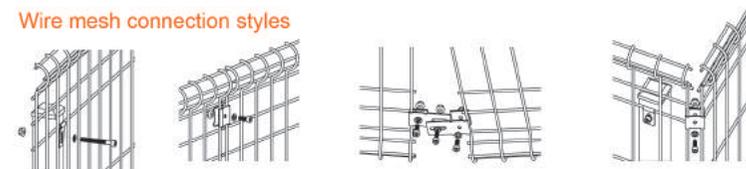


Post installation Options



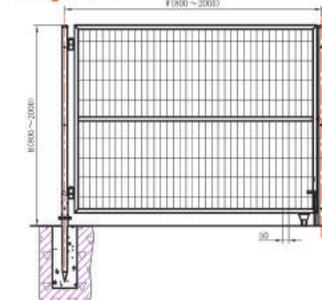
## Photovoltaic Plant Fence

Wire mesh connection styles

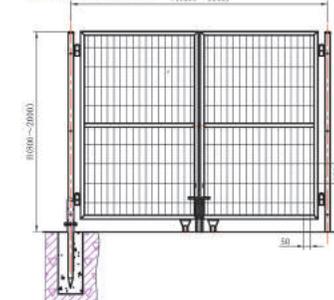


No	Item No	Height	Fence style	Assembly	Post	Wire OD	Base
01	GM-FC-01	800	Half round	Buried	40*40*2.0	φ3.0	Concrete base
02	GM-FC-01	1000	Half round	Buried	40*40*2.0	φ3.0	Concrete base
03	GM-FC-01	1200	Half round	Buried	40*40*2.0	φ3.0	Concrete base
04	GM-FC-01	1500	Half round	Buried	40*40*2.0	φ3.0	Concrete base
05	GM-FC-01	1800	Half round	Buried	40*40*2.0	φ3.0	Concrete base
06	GM-FC-02	800	Half round	Piling	φ48*2.0	φ3.0	Ground screw
07	GM-FC-02	1000	Half round	Piling	φ48*2.0	φ3.0	Ground screw
08	GM-FC-02	1200	Half round	Piling	φ48*2.0	φ3.0	Ground screw
09	GM-FC-02	1500	Half round	Piling	φ48*2.0	φ3.0	Ground screw
10	GM-FC-02	1800	Half round	Piling	φ48*2.0	φ3.0	Ground screw
11	GM-FC-03	800	Half round	Piling	φ48*2.0	φ3.0	Piling post
12	GM-FC-03	1000	Half round	Piling	φ48*2.0	φ3.0	Piling post
13	GM-FC-03	1200	Half round	Piling	φ48*2.0	φ3.0	Piling post
14	GM-FC-03	1500	Half round	Piling	φ48*2.0	φ3.0	Piling post
15	GM-FC-03	1800	Half round	Piling	φ48*2.0	φ3.0	Piling post

Single door



Double doors



Projects reference

