

Tile Roof Mounting System

Solar Roof Mounting System

The GS Tile Roof Mounting System Solution is designed for a wide range of roofs, including asphalt shingle, slate tiles and Roman concrete roof tile. Grace designs different types of hooks for different styles of roof tiles. When installing the system, the hooks are fixed on the purlins by bolting (drilling) or clamping (no drilling), and then rails are installed to support the solar panels to form a photovoltaic roof system. By adjusting the span of the hook, it can resist different wind and snow loads and has great flexibility. Moreover, the overall construction is easy and low maintenance costs.

Installation site	Residential Roof		
Angle	Parallel roof (10-60deg)	Material	High-strength aluminum alloy & Stainless steel
Building height	Below 20m	Color	Silver or customized
Maximum wind speed	<60m/s	Surface treatment	Anodizing & Stainless steel
Maximum snow cover	<1.4KN/m ²	Quality assurance	10-year quality assurance
Reference standards	AS/NZS 1170 & EN1991 & Other	Usage time	More than 20 years



• Pitched Roof (Residential Roof)







GS-IK-01

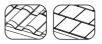
Item No.	Description	Size(mm)	Package
GS-IK-01	Stainless Steel Hook 1# Kit	166*105*30*5	10 kits/box 4 boxes/CTN
GS-IK-01-ND	Stainless Steel Hook 1# Kit (without tilt module)	166*105*30*5	10 kits/box 4 boxes/CTN





GS-AIK-01

Item No.	Description	Size(mm)	Package
GS-AIK-01	Aluminum Roof Hook 1# Kit	188*150*173	12 kits/box 4 boxes/CTN



The GS Tile Roof hook series are suitable for building roofs with different tile types (asphalt shingle, slate and Roman concrete roof etc), thicknesses, shapes and purlin structures, and are easy to install.

Note: Products can be customized according to the project needs.





GS-IK-02

Item No.	Description	Size(mm)	Package
GS-IK-02	Stainless Steel Hook 2# Kit	286*166*30*5	30 kits/box 2# 2 boxes 2#/CTN
GS-IK-02-ND	Stainless Steel Hook 2# Kit (without tilt module)	286*166*30*5	30 kits/box 2# 2 boxes 2#/CTN



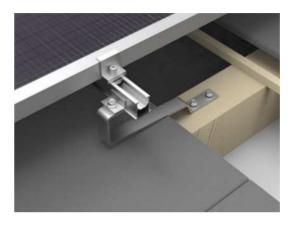


GS-IK-02-A

Item No.	Description	Size(mm)	Package
GS-IK-02-A	Stainless Steel Hook 2# A type	317.5*167*30*5	10 kits/box 2# 2 boxes 2#/CTN

• Pitched Roof (Residential Roof)







GS-IK-02-C

Item No.	Description	Size(mm)	Package
GS-IK-02-C	Stainless Steel Hook 2# C type	286*166*30*5	30 kits/box 2# 2 boxes 2#/CTN





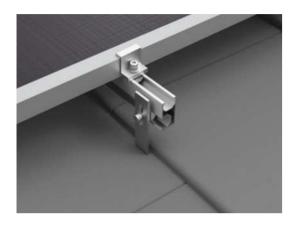
GS-AIK-02

Item No.	Description	Size(mm)	Package
GS-AIK-02-ST	Aluminum Roof Hook 2# Kit (with self tapping screw)	168*40	10 kits/box 4 boxes/CTN
GS-AIK-02	Aluminum Roof Hook 2# Kit	168*40	10 kits/box 4 boxes/CTN



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GS-IK-04

Item No.	Description	Size(mm)	Package
GS-IK-04	Stainless Steel Hook 4# Kit	200*120*30	20 kits/box 4 boxes/CTN





GS-IK-04-A

Item No.	Description	Size(mm)	Package
GS-IK-04-A	Stainless Steel Hook 4# A type	225*115*30*5	10 kits/box 4 boxes/CTN

• Pitched Roof (Residential Roof)







GS-IK-04-C

Item No.	Description	Size(mm)	Package
GS-IK-04-C	Stainless Steel Hook 4# B type	200*120*30	10 kits/box 4 boxes/CTN





GS-IK-06

Item No.	Description	Size(mm)	Package
GS-IK-06	Stainless Steel Hook 6# Kit	166*105*30*5	10 kits/box 4 boxes/CTN

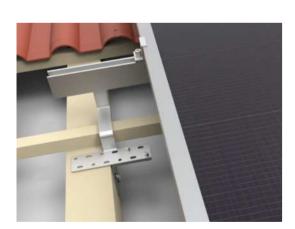


The GS Tile Roof hook series are suitable for building roofs with different tile types (asphalt shingle, slate and Roman concrete roof etc), thicknesses, shapes and purlin structures, and are easy to install. Note: Products can be customized according to the project needs.





Item No.	Description	Size(mm)	Package
GS-IK-12	Stainless Steel Hook 12# Kit	166*105*30*5	10 kits/box 4 boxes/CTN





GS-IK-14

Item No.	Description	Size(mm)	Package
GS-IK-14	Stainless Steel Hook 14# Kit	259*105*30*5	10 kits/box 4 boxes/CTN

• Pitched Roof (Residential Roof)







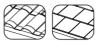
GS-IK-15

Item No).	Description	Size(mm)	Package
GS-IK-1	5	Adjustable Stainless Steel Hook 15# Kit	165.5*147*140	10 kits/box 4 boxes/CTN





Item No.	Description	Size(mm)	Package
GS-IK-16	Stainless Steel Hook 16# Kit	220*180*153	8 kits/box 4 boxes/CTN



The GS Tile Roof hook series are suitable for building roofs with different tile types (asphalt shingle, slate and Roman concrete roof etc), thicknesses, shapes and purlin structures, and are easy to install.

Note: Products can be customized according to the project needs.





GS-ER-S01

Item No.	Description	Size(mm)	Package
GS-ER-S01	ER Stainless Hook 1# Kit	140*165*132	5 kits/box 4 boxes/CTN





GS-ER-S02

Item No.	Description	Size(mm)	Package
GS-ER-S02	ER Stainless Hook 2# Kit	170*158	5 kits/box 4 boxes/CTN

• Pitched Roof (Residential Roof)

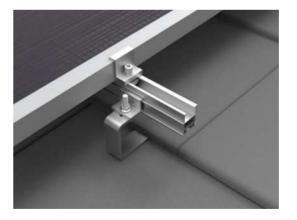






GS-ER-S03

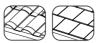
Item No.	Description	Size(mm)	Package
GS-ER-S03	ER Stainless Hook 3# Kit	139.5*162.5	10 kits/box 4 boxes/CTN





GS-ER-S04

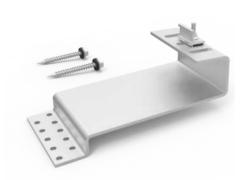
Item No.	Description	Size(mm)	Package
GS-ER-S04	ER Stainless Hook 4# Kit	30*235*75	15 kits/box 4 boxes/CTN



The GS Tile Roof hook series are suitable for building roofs with different tile types (asphalt shingle, slate and Roman concrete roof etc), thicknesses, shapes and purlin structures, and are easy to install.

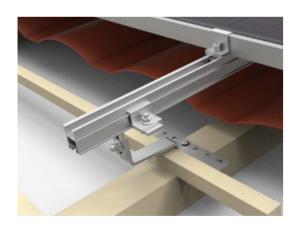
Note: Products can be customized according to the project needs.





GS-ER-S05

Item No.	Description	Size(mm)	Package
GS-ER-S05	ER Stainless Hook 5# Kit	136*290	5 kits/box 2# 2 boxes 2#/CTN



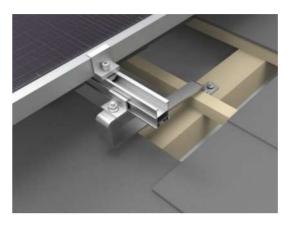


GS-ER-S06

Item No.	Description	Size(mm)	Package
GS-ER-S06	ER Stainless Hook 6# Kit	30*60*135	5 kits/box 2# 2 boxes 2#/CTN

• Pitched Roof (Residential Roof)

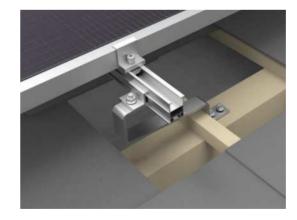






GS-ER-S07

Item No.	Description	Size(mm)	Package
GS-ER-S07	ER Stainless Hook 7# Kit	30*315*125	18 kits/box 2# 2 boxes 2#/CTN





GS-ER-S08

Item No.	Description	Size(mm)	Package
GS-ER-S08	ER Stainless Hook 8# Kit	30*240*132	24 kits/box 2# 2 boxes 2#/CTN

Tin Roof Mounting System

Solar Roof Mounting System

The GS Metal Roof Mounting System is suitable for trapezoidal, corrugated and other metal roofs. Grace can provide different types of clamping solutions according to project requirements. The brackets are installed by fixing the clamps on the purlins or fixing the clamps with metal. Rail and Rail-less solutions are available for different loads, and spans are adjusted by metal type to meet different project requirements. Applied to common aluminium framed and frameless solar panels, parallel mounted on sloping roofs. Raise and angle adjustments are available for special demands. Construction is economical and convenient for the design and planning of commercial and industrial rooftop solar systems.

Installation site	Commercial roof		
Angle	Parallel roof (10-60deg)	Material	High-strength aluminum alloy & Stainless steel
Building height	Below 20m	Color	Silver or customized
Maximum wind speed	<60m/s	Surface treatment	Anodizing & Stainless steel
Maximum snow cover	<1.4KN/m ²	Quality assurance	10-year quality assurance
Reference standards	AS/NZS 1170 & EN1991 & Other	Usage time	More than 20 years



• Pitched Roof (Industry · Commercial Roof)



The GS Metal Roof clamp series are suitable for various trapezoidal, corrugated and other metal roofs, and are easy to install.





GS-IK-05-ST

Item No.	Description	Size(mm)	Package
GS-IK-05-ST	Aluminum Tin interface Kit 5#	80*40*40*7	50 kits/box 4 boxes/CTN
GS-IK-05-ST-AR	Aluminum Tin interface Kit 5# (with Arc rubber pad)	80*40*40*7	50 kits/box 4 boxes/CTN





GS-IK-05-ST-GD

Item No.	Description	Size(mm)	Package
GS-IK-05-ST-GD	Aluminum Tin interface Kit 5# (with D-module)	40*80	36 kits/box 4 boxes/CTN





The GS Metal Roof clamp series are suitable for various trapezoidal, corrugated and other metal roofs, and are easy to install.

Note: Products can be customized according to the project needs.





GS-IK-H01-AL

Item No.	Description	Size(mm)	Package
GS-IK-H01-AL	Hanger Bolt Hook 1#	M10*200	20 kits/box 4 boxes/CTN





Item No.	Description	Size(mm)	Package
GS-IK-H04	Hanger Bolt Hook 4#	M10*200	20 kits/box 4 boxes/CTN

• Pitched Roof (Industry · Commercial Roof)



The GS Metal Roof clamp series are suitable for various trapezoidal, corrugated and other metal roofs, and are easy to install.





GS-IK-H06

Item No.	Description	Size(mm)	Package
GS-IK-H06	Hanger Bolt Hook 6#	M12*200	20 kits/box 4 boxes/CTN





Item No.	Description	Size(mm)	Package
GS-IK-L155-ST	Aluminum Tin interface Kit 5# (155mm)	155*40*40*8	50 kits/box 4 boxes/CTN



The GS Metal Roof clamp series are suitable for various trapezoidal, corrugated and other metal roofs, and are easy to install.

Note: Products can be customized according to the project needs.





GS-UTK-01

Item No.	Description	Size(mm)	Package
GS-UTK-01	Universal Trapezoid Metal Roof Hook 1#	80*80*41	25 kits/box 4 boxes/CTN





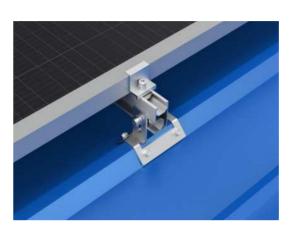
GS-IK-07

Item No.	Description	Size(mm)	Package
GS-IK-07	Stainless Steel Hook 7#	100*66*4	40 kits/box 2 boxes/CTN 2#

• Pitched Roof (Industry · Commercial Roof)



The GS Metal Roof clamp series are suitable for various trapezoidal, corrugated and other metal roofs, and are easy to install.





GS-IK-07-A

Item No.	Description	Size(mm)	Package
GS-IK-07-A	Stainless Steel Hook 7# A	100*66*4	40 kits/box 2 boxes/CTN 2#





GS-IK-07-B

Item No.	Description	Size(mm)	Package
GS-IK-07-B	Stainless Steel Hook 7# B	100*66*4	40 kits/box 2 boxes/CTN 2#



The GS Metal Roof clamp series are suitable for various trapezoidal, corrugated and other metal roofs, and are easy to install.

Note: Products can be customized according to the project needs.





GS01-IK-A07

Item No.	Description	Size(mm)	Package
GS01-IK-A07- G024	7# AL-Hook 90	90	30 kits/box 4 boxes/CTN
GS02-IK-A07- G024	7# AL-Hook 90	90	30 kits/box 4 boxes/CTN





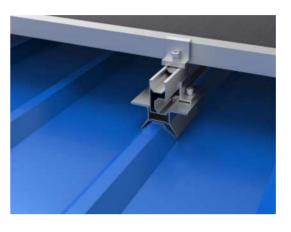
GS-IK-A07

Item No.	Description	Size(mm)	Package
GS-IK-A07	7# AL-Hook	90	30 kits/box 4 boxes/CTN

• Pitched Roof (Industry · Commercial Roof)



The GS Metal Roof clamp series are suitable for various trapezoidal, corrugated and other metal roofs, and are easy to install.





GS-TIK-A01

Item No.	Description	Size(mm)	Package
GS-TIK-A01	Trapezoid Metal Roof Hook	100*100*49	16 kits/box 4 boxes/CTN





GS-TIK-08

Item No.	Description	Size(mm)	Package
GS-TIK-08	Trapezoid Metal Roof Hook	80*122*147*5	6 kits/box 4 boxes/CTN



The GS Metal Roof clamp series are suitable for various trapezoidal, corrugated and other metal roofs, and are easy to install.

Note: Products can be customized according to the project needs.





GS-JIK-WG19

Item No.	Description	Size(mm)	Package
GS-JIK-WG19	Colar Plate Hook	100*100	4 kits/box 4 boxes/CTN





GS-TIK-09

Item No.	Description	Size(mm)	Package
GS-TIK-09	Trapezoid Metal Roof Hook #9	60*200*5	12 kits/box 4 boxes/CTN
GS-TIK-10	Trapezoid Metal Roof Hook #10	78*200*5	12 kits/box 4 boxes/CTN
GS-TIK-11	Trapezoid Metal Roof Hook #11	88*200*5	12 kits/box 4 boxes/CTN

• Pitched Roof (Industry · Commercial Roof)



The GS Metal Roof clamp series are suitable for various trapezoidal, corrugated and other metal roofs, and are easy to install.





GS-TIK-L01-20HA2

Item No.	Description	Size(mm)	Package
GS-TIK-L01-20HA2	Trapezoid Metal Roof L-type Hook (with 20µm Composite film thickness +sus304 bolt)	60	12 kits/box 4 boxes/CTN





GS-TIK-L02-20HA2

Item No.	Description	Size(mm)	Package
GS-TIK-L02-20HA2	Trapezoid Metal Roof L-type+ Concave shape Hook (with 20µm Composite coating +sus304 bolt)	60	12 kits/box 4 boxes/CTN



The GS Metal Roof clamp series are suitable for various trapezoidal, corrugated and other metal roofs, and are easy to install.

Note: Products can be customized according to the project needs.





GS-UIK-A01

Item No.	Description	Size(mm)	Package
GS-UIK-A01	R Flat Hook 800mm	40	76 kits/box 4 boxes/CTN





GS-TKT-01

Item No.	Description	Size(mm)	Package
GS-TKT-01	Adjustable Trapezoidal Hook	50	90 kits/box 4 boxes/CTN
GS-TKT-L-50	Trapezoidal Adjustable Hook 50mm + L feet	39	18 kits/box 4 boxes/CTN

• Pitched Roof (Industry · Commercial Roof)



The GS Metal Roof clamp series are suitable for various trapezoidal, corrugated and other metal roofs, and are easy to install.





GS-WIK-A01

Item No.	Description	Size(mm)	Package
GS-WIK-A01	Corrugated roof Hook 1# (AL)	45	40 kits/box 4 boxes/CTN





GS-IK-UR-01

Item No.	Description	Size(mm)	Package
GS-IK-UR-01	UR Flat Hook	200*28*30	50 kits/box 4 boxes/CTN
GS-IK-UR-02	R Flat Hook 400mm(with 4 self-tapping screw and pads)	400*28*30	50 kits/box 2# 2 boxes 2#/CTN



The GS Metal Roof clamp series are suitable for various trapezoidal, corrugated and other metal roofs, and are easy to install.

Note: Products can be customized according to the project needs.

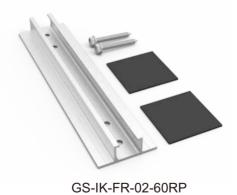




GS-IK-FR-ST

Item No.	Description	Size(mm)	Package
GS-IK-FR-ST	FB Rail Hook	120*60*21.2	40 kits/box 4 boxes/CTN





Item No.DescriptionSize(mm)PackageGS-IK-FR-02-
60RPFB Rail Hook Kit 2#250*60*21.225 kits/box
4 boxes/CTN

• Pitched Roof (Industry · Commercial Roof)



The GS Metal Roof clamp series are suitable for various trapezoidal, corrugated and other metal roofs, and are easy to install.





GS-IK-FR2-A

Item No.	Description	Size(mm)	Package
GS-IK-FR2-A	Rail Bracket	250*80*70	4 kits/box 4 boxes/CTN





GS-IK-FR-03-60RP

Item No.	Description	Size(mm)	Package
GS-IK-FR-03-60RP	FB Rail Hook Kit 3#	250*60*71.2	10 kits/box 4 boxes/CTN

Standing Seam Roof Mounting System

Solar Roof Mounting System

The GS Metal Roof Mounting System (no drilling) is suitable for metal roofs such as standing seam roofs, and Grace can provide different types of fixture solutions based on project needs, allowing great flexibility in selection. The brackets are installed by fixing the clamps with metal. In addition, for different loads, Grace provides two solutions - rail and rail-less to choose from. During installation, the span can be adjusted according to the metal type to adapt to different project requirements. This system applies common aluminum frame and frameless solar panels, mounted parallel to pitched roofs. Elevation and angle adjustments can also be accepted under special needs. The construction is economical and convenient, and it is suitable for the design and planning of industrial and commercial rooftop solar systems.

Installation site	Commercial roof		
Angle	Parallel roof (10-60deg)	Material	High-strength aluminum alloy & Stainless steel
Building height	Below 20m	Color	Silver or customized
Maximum wind speed	<60m/s	Surface treatment	Anodizing & Stainless steel
Maximum snow cover	<1.4KN/m ²	Quality assurance	10-year quality assurance
Reference standards	AS/NZS 1170 & EN1991 & Other	Usage time	More than 20 years



• Pitched Roof (Industry · Commercial Roof)











The GS Metal Roof clamp series metal roofs such as standing seam roofs, and are easy to install. Note: Products can be customized according to the project needs.





GS-IK-S01

Item No.	Description	Size(mm)	Package
GS-IK-S01	Stand Seam Roof Hook 1#	110	15 kits/box 4 boxes/CTN





GS-SIK-A01

Item No.	Description	Size(mm)	Package
GS-SIK-A01	Stand Seam Universal Tin roof Hook #1	38.2*38.2*60	30 kits/box 4 boxes/CTN



The GS Metal Roof clamp series metal roofs such as standing seam roofs, and are easy to install. Note: Products can be customized according to the project needs.





GS-JIK-L01

Item No.	Description	Size(mm)	Package
GS-JIK-L01	JIK#1 Roof Hook	80*86.5*45	15 kits/box 4 boxes/CTN





GS-JIK-S01

Item No.	Description	Size(mm)	Package
GS-JIK-S01	Stand Seam Roof Hook	80	15 kits/box

• Pitched Roof (Industry · Commercial Roof)









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The GS Metal Roof clamp series metal roofs such as standing seam roofs, and are easy to install. Note: Products can be customized according to the project needs.





GS-IK-S02

Item No.	Description	Size(mm)	Package
GS-IK-S02	Stand Seam Roof Hook 2#	50	20 kits/box 4 boxes/CTN





GS-IK-S02-A

Item No.	Description	Size(mm)	Package
GS-IK-S02-A	Stand Seam Roof Hook 2# A type	80	15 kits/box 4 boxes/CTN



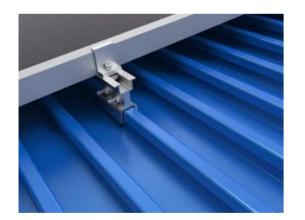
The GS Metal Roof clamp series metal roofs such as standing seam roofs, and are easy to install. Note: Products can be customized according to the project needs.





GS-IK-S04

Item No.	Description	Size(mm)	Package
GS-IK-S04	Stand Seam Roof Hook 4#	110	15 kits/box 4 boxes/CTN





GS01-IK-S07-A

Item No.	Description	Size(mm)	Package
GS01-IK-S07-A	Standing Seam Roof Hook S07-A	45*53*80	20 kits/box 4 boxes/CTN

• Pitched Roof (Industry · Commercial Roof)









The GS Metal Roof clamp series metal roofs such as standing seam roofs, and are easy to install.





GS01-IK-S11-A

Item No.	Description	Size(mm)	Package
GS01-IK-S11-A	Kliplock clamp (35mm width, 80mm length + smaller rail)	35*80	18 kits/box 4 boxes/CTN





GS-IK-SK7-110

Item No.	Description	Size(mm)	Package
GS-IK-SK7-110	Stand Seam Roof Hook K7 (with bolt kits)	110	10 kits/box 4 boxes/CTN



The GS Metal Roof clamp series metal roofs such as standing seam roofs, and are easy to install. Note: Products can be customized according to the project needs.





GS-IK-S08

Item No.	Description	Size(mm)	Package
GS-IK-S08	New Kliplok700 Roof Hook	60	30 kits/box 4 boxes/CTN





GS-IK-S09

Item No.	Description	Size(mm)	Package
GS-IK-S09	New Kliplok 406Roof Hook406	60	30 kits/box 4 boxes/CTN

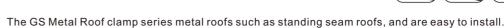
• Pitched Roof (Industry · Commercial Roof)

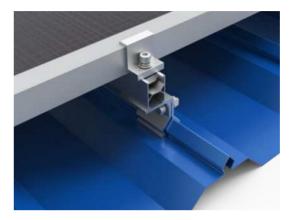














GS-TRB-VRC-15AO

Item No.	Description	Size(mm)	Package
GS-TRB-VRC-15AO	Metal roof Clamp (with D-module+ 20bolts and 15µm oxide coating)	50	40 kits/box 4 boxes/CTN





GS-VSW-VRC

Item No.	Description	Size(mm)	Package
GS-VSW-VRC	Stand Seam Roof Hook (with D module)	50	45 kits/box 4 boxes/CTN

Adjustable Tilt Mounting System

Solar Roof Mounting System

The GS adjustable roof mounting system is suitable for fixing various common framed solar panels at a specific angle of the roof. The system can be used for a fixed angle or an adjustable angle such as $10\sim15$ degrees, $15\sim30$ degrees or $30\sim60$ degrees. Reliable high corrosion resistance, structural strength and aesthetics. The pre-assembly makes installation easy and fast, saving you labor costs and installation time.

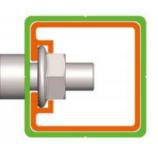
Installation site	Commercial roof		
Angle	Parallel roof (10-60deg)	Material	High-strength aluminum alloy & Stainless steel
Building height	Below 20m	Color	Silver or customized
Maximum wind speed	<60m/s	Surface treatment	Anodizing & Stainless steel
Maximum snow cover	<1.4KN/m ²	Quality assurance	10-year quality assurance
Reference standards	AS/NZS 1170 & EN1991 & Other	Usage time	More than 20 years



• Pitched Roof (Industry · Commercial Roof)

Adjustable Tilt System





Telescope Solution

Solar Panels Size 1722*1134*35	Rail GS-DR-L	Front Leg GS-AD-FL	Rear Leg GS-AD-RL_	Inter Clamp GS-IC-F35	End Clamp GS-EC-F35	Rail Splice GS-DR-SP
Adjustable 10/15 4Panels installation	2 pcs	4	4	6	4	2
Adjustable 15/30 4Panels installation	2 pcs	4	4	6	4	2
Adjustable 30/60 4Panels installation	2 pcs	4	4	6	4	2

Feature

- ·Main Material: Anodized Al6005-T5
- ·Fasten Material: SUS A2-70
- ·Wood Screw: 2pcs M6x80

- ·Patent Telescope solution can adjust the angle
- ·Anti-Slip and Anti-out design



GS-AD-FL-LD

GS-AD-RL_

Item No.	Description	Leg Length	Package
GS-AD-FL-LD	AD Front Leg		50pcs/box, 4 boxes/CTN
GS-AD-RL10/15-LD	AD Rear Leg 10/15 deg	240~360mm	30pcs/CTN
GS-AD-RL15/30-LD	AD Rear Leg 15/30 deg	340~680mm	25pcs/CTN
GS-AD-RL30/60-LD	AD Rear Leg 30/60 deg	700~1200mm	25pcs/CTN III

Triangle Bracket Mounting System

Solar Roof Mounting System

GS's latest triangle system is suitable for Roof and Ground with certain angles. This latest triangle system is light, flexible and strong. It is easy to assemble and can be done with one tool. It can also be folded during packaging, and can be used together with other products of our company.

Installation site	Commercial and Residential Roof		
Angle	Parallel roof (10-60deg)	Material	High-strength aluminum alloy & Stainless steel
Building height	Below 20m	Color	Silver or customized
Maximum wind speed	<60m/s	Surface treatment	Anodizing & Stainless steel
Maximum snow cover	<1.4KN/m ²	Quality assurance	10-year quality assurance
Reference standards	AS/NZS 1170 & EN1991 & Other	Usage time	More than 20 years



• Flat Roof (Industry · Commercial · Residential Roof)

NT Triangle Bracket





Solar Panels Size 1722*1134*35	Rail GS-DR-L	Bracket GS-NT01-C10	Rail Clamp GS-RC-D	Inter Clamp GS-IC-F35	End Clamp GS-EC-F35
Angle: 10 deg Array: 1x4	2 pcs	3 pcs	6 pcs	6 pcs	4 pcs
Solar Panels Size 2278*1134*35	Rail GS-DR-L	Bracket GS-NT03-C10	Rail Clamp GS-RC-D	Inter Clamp GS-IC-F35	End Clamp GS-EC-F35
Angle: 10 deg Array: 1x4	2 pcs	3 pcs	6 pcs	6 pcs	4 pcs

KNT Triangle Bracket

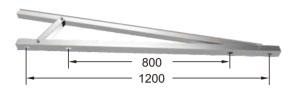




Solar Panels Size	Bracket	Inter Clamp	End Clamp
1722*1134*35	GS-KNT2000-C10	GS-KIC-F35	GS-KEC-F35
Angle: 10 deg Array: 2x2	3 pcs	4 pcs	8 pcs

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NT Triangle Bracket





GS-NT01-XX

- For module length less than 1700mm



Feature

- Main material: Anodized Al6005-T5
- Fasten material: SUS A2-70
- Fixed angle from 5~60deg



GS-NT02-XX

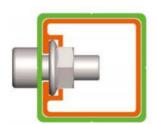
- For module length less than 1200mm

GS-NT03-XX

- For module length less than 2300mm



GD Rail Clamp



Telescope Solution

GS-NT03-C12/20

- For module length less than 2300mm
- Angle is adjustable from 12 to 20deg

GS-NT03-C15/30

- For module length less than 2300mm
- Angle is adjustable from 15 to 30deg

Item No.	Description	Angle
GS-NT01-C10	NT Tri-angle Bracket 01, 10deg	10deg
GS-NT02-C10	NT Tri-angle Bracket 02, 10deg	10deg
GS-NT03-C12/20	AD NT Tri-angle Bracket 03, 12-20deg	12-20deg
GS-NT03-C15/30	AD NT Tri-angle Bracket 03, 15-30deg	15-30deg



GS-RC-D

- Clamp the GD Rail on the NT Tri-angle bracket

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KNT Triangle Bracket



Solar Panels Size	Bracket	Inter Clamp	End Clamp
1722*1134*35	GS-KNT800-C10	GS-KIC-F35	GS-KEC-F35
Angle: 10 deg Array: 1x2	3 pcs	2 pcs	4 pcs

Installation Guide



Item No.	Description	Placement	Angle
GS-KNT2000-C10	KNT Bracket 2000-10deg	2x2, landscape	Fixed 10deg

GS-RC-D

Ballast Bracket Mounting System

Solar Roof Mounting System

The GS Ballast Bracket is an excellent engineering solution to secure the array of solar panels on flat roofs without damaging the roof. It is compatible with most types of solar panels on the market and requires virtually no drilling on the roof.

Installation site	Commercial and Residential Roof		
Angle	Parallel roof (5,10,15,20 deg)	Material	High-strength aluminum alloy & Stainless steel
Building height	Below 20m	Color	Silver or customized
Maximum wind speed	<60m/s	Surface treatment	Anodizing & Stainless steel
Maximum snow cover	<1.4KN/m ²	Quality assurance	10-year quality assurance
Reference standards	AS/NZS 1170 & EN1991 & Other	Usage time	More than 20 years



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BM3 Ballast System (One-way Design)

The BM3 ballast system is suitable for flat roofs with a certain angle installation required which is flexible and easy to install. And the wind-shielding structure improves the wind resistance of the entire system.



Component List

Item No.	Description	QTY	Material
GS-BM3-T10	BM3 Bracket, 10deg	12 pcs	AL6005-T5
GS-KIC-F35/40	Inter Clamp 35-40	12 pcs	AL6005-T5
GS-KEC-F40	End Clamp 40	12 pcs	AL6005-T5
GS-BM-CT-400	Landscape Link tube, 400	12 pcs	AL6005-T5
GS-BM2-V450	Portrait Link tube, 450	12 pcs	AL6005-T5
GS-BM2-WA 17	20 Wind Deflection, 1720mm	12 pcs	Q235
GS-BM2-A01	Accessories	12 pcs	A2-70

• Flat Roof (Industry · Commercial · Residential Roof)

BM4 Ballast System (One-way Design)

The BM4 ballast system is suitable for flat roofs with certain angle requirements. The system adopts a front and rear support foot structure, which makes installation more convenient and effectively reduces material and installation costs.



Component List (2*4)

Item No.	Description	QTY	Material
GS-BM4-FL-10-Q01	BM4 ballasted 10deg front support kit	12 pcs	AL6005-T5
GS-BM4-RL-10-Q01	BM4 ballasted 10deg rear support kit	12 pcs	AL6005-T5
GS-AC-TH-G-Q01	Inter-end integrated clamp 30/46 assembly (with spring + ground clip)	12 pcs	AL6005-T5
GS-AC-Q01	Inter-end integrated clamp kit 30/46 kit	12 pcs	AL6005-T5
GS-BM4-MB-1200-Q01	BM4 ballast bottom beam 132*1200	12 pcs	AL6005-T5
GS-BM4-MB-SP-500-Q01	BM4 ballast bottom beam connector L500	9 pcs	AL6005-T5
GS-BM4-MB-SP-90-Q01	BM4 ballast bottom beam connector L90	6 pcs	AL6005-T5
GS-BM4-WD-10-2350-Q01	BM4 Ballast Wind Deflection 10deg	8 pcs	Q235
GS-KYR-GL-Q01	KYR copper wire connector kit (with self-tapping screws)	4 pcs	AL6005-T5
GS-A502-B8-2350-Q01	BM4 ballast bar 50*2.5*2350	16 pcs	AL6005-T5
GS-FA-T825-H18	T-bolt M8*25 (head length 18) + M8 flange nut assembly	32 pcs	SUS304
GS-BM4-SWD-10-Q01	BM4 ballast side wind deflection 10 deg	8 pcs	Q235
GS-F-T625-Q01	Self-tapping bolt 410 St6.3*25 (passivated)	24 pcs	SUS410

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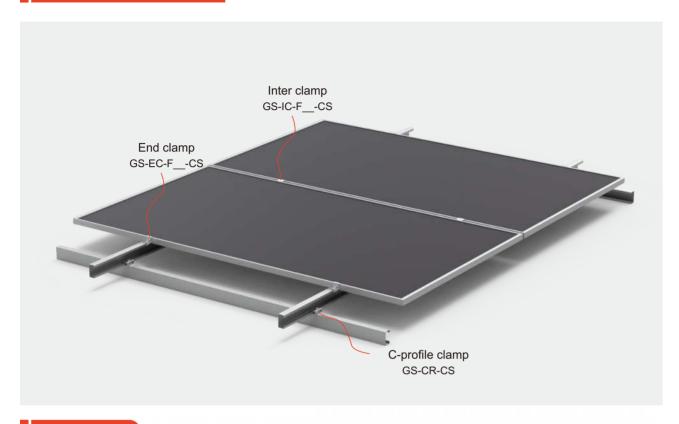
BM4 Ballast System (East-west Design)



Component List (2*4)

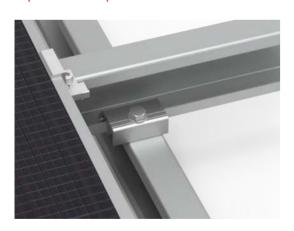
Item No.	Description	QTY	Material
GS-BM4-FL-10-Q01	BM4 ballasted 10deg front support kit	12 pcs	AL6005-T5
GS-BM4-RL-10-Q01	BM4 ballasted 10deg rear support kit	12 pcs	AL6005-T5
GS-AC-TH-G-Q01	Inter-end integrated clamp 30/46 assembly (with spring + ground clip)	12 pcs	AL6005-T5
GS-AC-Q01	Inter-end integrated clamp kit 30/46 kit	12 pcs	AL6005-T5
GS-BM4-MB-1200-Q01	BM4 ballast bottom beam 132*1200	12 pcs	AL6005-T5
GS-BM4-MB-SP-180-Q01	BM4 ballast bottom beam connector L180	9 pcs	AL6005-T5
GS-BM4-MB-SP-90-Q01	BM4 ballast bottom beam connector L90	6 pcs	AL6005-T5
GS-KYR-GL-Q01	KYR copper wire connector kit (with self-tapping screws)	4 pcs	AL6005-T5
GS-A502-B8-2350-Q01	BM4 ballast bar 50*2.5*2350	16 pcs	AL6005-T5
GS-FA-T825-H18	T-bolt M8*25 (head length 18) + M8 flange nut assembly	32 pcs	SUS304
GS-BM4-SWD-10-Q01	BM4 ballast side wind deflection 10 deg	8 pcs	Q235
GS-F-T625-Q01	Self-tapping bolt 410 St6.3*25 (passivated)	24 pcs	SUS 410

C-Profile Fixing Components



Fixing Clamps

C-profile Clamp Kit



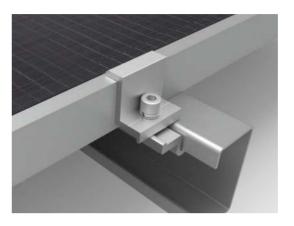


GS-CR-CS

Item No.	Description	Size(mm)	Package
GS-CR-CS	C-profile clamp	60	36 kits/box 4 boxes/CTN

Fixing Clamps

End Clamp





GS-EC-F__-CS

Item No.	Description	Size(mm)	Package
GS-EC-F30-CS	30mm End clamp	40	48 kits/box 4 boxes/CTN
GS-EC-F35-CS	35mm End clamp	40	48 kits/box 4 boxes/CTN
GS-EC-F40-CS	40mm End clamp	40	48 kits/box 4 boxes/CTN

Inter Clamp





Item No.	Description	Size(mm)	Package
GS-IC-F30-CS	30mm Inter clamp	40	90 kits/box 4 boxes/CTN
GS-IC-F35-CS	35mm Inter clamp	40	90 kits/box 4 boxes/CTN
GS-IC-F40-CS	40mm Inter clamp	40	90 kits/box 4 boxes/CTN

Rail

	Item No.	Name	Description	Package
	GS-DR-(length) Classical	DR Rail	Spec: 55*28mm Customized length	8pcs/bundle, 512pcs/pallet
	GS-SR-(length) Classical	SR Rail	Spec: 50*28mm Customized length	8pcs/bundle
	GS-10R-(length) Economy	GS 10# Rail	Spec: 46*28mm Customized length	8pcs/bundle, 512pcs/pallet
	GS-DR4-(length)	DR 4# Rail	Spec: 57*33mm Customized length	8pcs/bundle, 336pcs/pallet
3	GS-DR5-(length)	DR 5# Rail	Spec: 55*49mm Customized length Cable Rail	8pcs/bundle, 336pcs/pallet
	GS-7R-(length)	GS 7# Rail	Spec: 38*36mm Customized length	8pcs/bundle, 560pcs/pallet
	GS-16R-(length)	GS 16# Rail	Spec: 42*27.4mm Customized length	8pcs/bundle
	GS-DWR-(length)	DWR Rail	Spec: 40*40mm Customized length	4pcs/bundle
	GS-ER-(length)	ER Rail	Spec: 39*33.2mm Customized length	8pcs/bundle
	GS-UR-(length)	UR Rail	Spec: 36*45mm Customized length	8pcs/bundle
	GS-HR-(length)	HR Rail	Spec: 55*28mm Customized length	8pcs/bundle, 340pcs/pallet
	GS-HR01-(length)	HR01 Rail	Spec: 37.6*27mm Customized length	8pcs/bundle
	GS01-IHR-(length)	IDH Rail	Spec: 38*29.4mm Customized length	8pcs/bundle
	GS-CRC-(length)	Cable Rail Cap	Customized length Cap of Cable Rail	8pcs/bundle

Rail Splice

0)	GS-DR-SP	DR Rail Splice Kit	Connect two pcs DR Rail Pre-assembly	50 kits/box 4 boxes/CTN
0 0	GS-DR-SP-GW	DR Rail Splice with Ground Washer	Connect two pcs DR Rail with ground washer Pre-assembly	50 kits/box 4 boxes/CTN
	GS-DR4-SP	GS 4# Rail Splice Kit	Connect two pcs DR 4# Rail Pre-assembly	15 kits/box 4 boxes/CTN
9 -9	GS-7R-SP	GS 7# Rail Splice Kit	Connect two pcs GS 7# Rail Pre-assembly	50 kits/box 4 boxes/CTN
	GS-ER-SP	ER Rail Splice Kit	Connect two pcs ER Rail	55 kits/box 4 boxes/CTN
1-	GS-UR-SP	UR Rail Splice Kit	Connect two pcs UR Rail	100 kits/box 4 boxes/CTN

Accessories

	Item No.	Name	Description	Package
4	GS-A-PC01	Plastic Cable Clip	Nylon 66, black connection 2 wires with GS Rail by side	1000 kits/box 4 boxes/CTN
	GS-A-DRC-SG	GS Rail Cap	Nylon 66, Silver Gray End Cap for GD Rail	1000 kits/box 4 boxes/CTN
	GS-SSCC-03	SS Cable Clip 3#	Stainless Steel connection 4 wires with the bottom of Frame Module	2000 kits/box 4 boxes/CTN
	GS-SSCC-05	SS Cable Clip 5#	Stainless Steel connection 2 wires with the bottom of Frame Module	1000 kits/box 4 boxes/CTN
P	GS-CT-01	Cable Tie 1# 4.6x300	SUS304 with PVC Coat Tie the cable with Rail	1000 kits/box 4 boxes/CTN
1	GS-DC-330-240	GS DC Isolator Box	AL5052,330x240mm With 2x D module Kits Enclosure for fixing the DC Isolator onto GS rail	20 kits/box 4 boxes/CTN

Module Clamp

	Item No.	Name	Description	Package
d Clamp Kit				
	GS-IC-F30	Inter Clamp Kit 30-32mm	Inter Clamp	100 kits/box 4 boxes/CTN
	GS-IC-F35	Inter Clamp Kit 35mm		
	GS-IC-F40	Inter Clamp Kit 40mm	D- Module Socket Head Screw M8	
	GS-IC-F46	Inter Clamp Kit 46mm	Pre-assembly	
~	GS-IC-F50	Inter Clamp Kit 50mm		
	GS-IC-F30-TH-G01	Inter Clamp Kit 30-32mm		
	GS-IC-F35-TH-G01	Inter Clamp Kit 35mm	Inter Clamp D- Module Socket Head Screw M8 Grounding Clip Spring Pre-assembly	100 kits/box 4 boxes/CTN
	GS-IC-F40-TH-G01	Inter Clamp Kit 40mm		
F	GS-IC-F46-TH-G01	Inter Clamp Kit 46mm		
	GS-IC-F50-TH-G01	Inter Clamp Kit 50mm		
	GS-IC-F30-TH-G02	Inter Clamp Kit 30-32mm		
-	GS-IC-F35-TH-G02	Inter Clamp Kit 35mm	Inter Clamp D- Module	
	GS-IC-F40-TH-G02	Inter Clamp Kit 40mm	Socket Head Screw M8 Grounding Clip	100 kits/box 4 boxes/CTN
	GS-IC-F46-TH-G02	Inter Clamp Kit 46mm	Spring Pre-assembly	
	GS-IC-F50-TH-G02	Inter Clamp Kit 50mm		
nd Clamp Kit				

En



Module Clamp				
	Item No.	Name	Description	Package
Adjustable Clamp Kit				
THE	GS-EC-A02	GS Adjustable End Clamp 2#, 30~46mm	End Clamp D- Module Socket Head Screw M8 Washer Pre-assembly	100 kits/box 4 boxes/CTN
10	GS01-EC-F35/F40	GS End Clamp Kit for 35 or 40mm		100 kits/box 4 boxes/CTN
	GS-AC	GS Universal modules Clamp Kit, 30~46mm	Clamp T- Module Socket Head Screw M8 Washer Pre-assembly can be as the inter or end clamp	50 kits/box 4 boxes/CTN
	GS-DEC	GS New End Clamp Kit 30~46mm	Clamp T- Module Socket Head Screw M8 Washer Pre-assembly	50 kits/box 4 boxes/CTN
	GS-DIC	GS New Inter Clamp Kit 30~46mm		50 kits/box 4 boxes/CTN
Rail Clamp Kit				
NJ.	GS-RC-D	GD Rail Clamp Kit	Clamp D- Module Socket Head Screw M8 Washer Pre-assembly	100 kits/box 4 boxes/CTN
	GS-7RC-D	7# Rail Clamp Kit		100 kits/box 4 boxes/CTN
	GS-2RC-01	Adjustable-Rail Clamp Kit	Clamp Socket Head Screw M8*25 Spring Washer,M8 Lock Washer,M8 Hexagon Nut, M8 Pre-assembly	100 kits/box 4 boxes/CTN
2	GS-ER-RC	ER Rail Clamp Kit	Clamp Semi-round head square diameter bolt M8*25 Hexagonal flange nut M8 Pre-assembly	100 kits/box 4 boxes/CTN
	GS-ER-GD	Rail fixing module kit	Left fixing module, Right fixing module, Hexagon bolt M8*40, Spring washerM8, Disc springs M8, Spring 0.8*D10*H25 Pre-assembled	100 kits/box 4 boxes/CTN

Fasten

	Item No.	Name	Description	Package
	GS-F-S820	Socket Head Screw	Stainless Steel A2-70, M8*20	
	GS-F-S825	Socket Head Screw	Stainless Steel A2-70, M8*25	
	GS-F-S828	Socket Head Screw	Stainless Steel A2-70, M8*28	
	GS-F-S830	Socket Head Screw	Stainless Steel A2-70, M8*30	
	GS-F-S835	Socket Head Screw	Stainless Steel A2-70, M8*35	
	GS-F-S840	Socket Head Screw	Stainless Steel A2-70, M8*40	
	GS-F-S845	Socket Head Screw	Stainless Steel A2-70, M8*45	
	GS-F-S850	Socket Head Screw	Stainless Steel A2-70, M8*50	
	GS-F-S855	Socket Head Screw	Stainless Steel A2-70, M8*55	
	GS-F-S860	Socket Head Screw	Stainless Steel A2-70, M8*60	
	GS-F-S865	Socket Head Screw	Stainless Steel A2-70, M8*65	Package on request
	GS-F-AS820	Anti-Theft Screw	Stainless Steel A2-70, M8*20	
	GS-F-AS825	Anti-Theft Screw	Stainless Steel A2-70, M8*25	
0.00	GS-F-AS828	Anti-Theft Screw	Stainless Steel A2-70, M8*28	
	GS-F-AS830	Anti-Theft Screw	Stainless Steel A2-70, M8*30	
000	GS-F-AS835	Anti-Theft Screw	Stainless Steel A2-70, M8*35	
	GS-F-AS840	Anti-Theft Screw	Stainless Steel A2-70, M8*40	
	GS-F-AS845	Anti-Theft Screw	Stainless Steel A2-70, M8*45	
	GS-F-AS850	Anti-Theft Screw	Stainless Steel A2-70, M8*50	
	GS-F-AS855	Anti-Theft Screw	Stainless Steel A2-70, M8*55	
	GS-F-AS860	Anti-Theft Screw	Stainless Steel A2-70, M8*60	
	GS-F-AS865	Anti-Theft Screw	Stainless Steel A2-70, M8*65	
	GS-F-AB08	Anti-Theft Screw Bit	Tool for the anti-thief screw M8	
	GS-F-N108	Hexagon Nut, M8	Stainless Steel A2-70, M8	
	GS-F-N208	Serrated flange nut, M8	Stainless Steel A2-70, M8	
	GS-F-N210	Serrated flange nut, M10	Stainless Steel A2-70, M10	
	GS-F-N212	Serrated flange nut, M12	Stainless Steel A2-70, M12	

Fasten

	Item No.	Name	Description	Package
	GS-F-W108	Spring Washer, M8	Stainless Steel A2-70 M8	
	GS-F-W208	Lock Washer, M8 OD13	Stainless Steel A2-70, M8, OD13	
0	GS-F-W308	Lock Washer, M8 OD18	Stainless Steel A2-70, M8, OD18	
All I	GS-F-T625	Self-tapping Screw	Stainless Steel 410 St6.3x25	Package on request
P	GS-FS-W660	Wood Screw	Stainless Steel 410 St6.3x60 With Pad	
	GS-FS-W680	Wood Screw	Stainless Steel 410 St6.3x80 With Pad	
//	GS-F-H020	Hanger Bolt	Stainless Steel A2-70 M10x200	60 kits/box 4 boxes/CTN
200	GS-FA-H020	Hanger Bolt Assembly	Stainless Steel Hanger Bolt& 3xFlange Nuts & Rubber Pad M10x200	60 kits/box 4 boxes/CTN

Grounding System

	Item No.	Name	Description	Package
	GS-G-GC	Grounding Clip	Stainless Steel Plate	1000 kits/box 4 boxes/CTN
	GS-G-GL	Grounding Lug	Stainless Steel Plate Aluminum Lay-in Lug Fastens Pre-assembly	200 kits/box 2 boxes/ CTN II
26	GS-G-BJ-A	Bonding Jumper	Braider copper wire Stainless Steel Plate Socket Head Screw Pre-assembly	100 kits/box 2 boxes/CTN II