

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

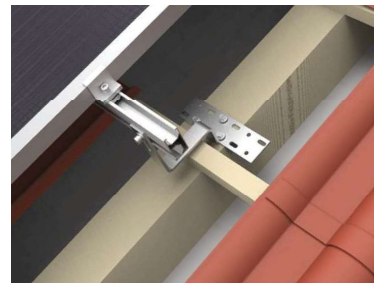


• Pitched Roof (Residential Roof)

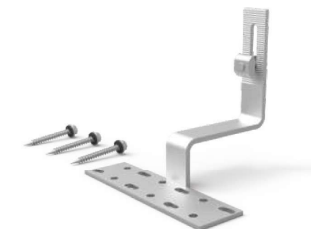


The GS Tile Roof hook series are suitable for building roofs with different tile types (asphalt shingle, slate and Roman concrete roof tile etc), thicknesses, shapes and purlin structures, and are easy to install.

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



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



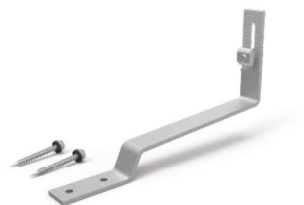
Item No.	Description	Size(mm)	Package
GS-AIK-01	Aluminum Roof Hook 1# Kit	188*150*173	12 kits/box 4 boxes/CTN

● Pitched Roof (Residential Roof)



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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

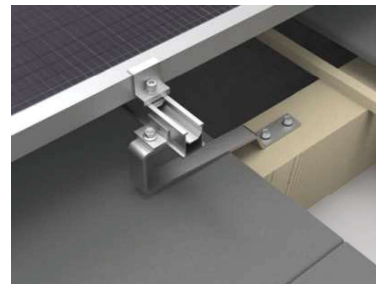
Item No.	Description	Size(mm)	Package
GS-IK-02-A	Stainless Steel Hook 2# A type	317.5*167*30*5	10 kits/box 2# 2 boxes 2#/CTN

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GS-IK-02-C

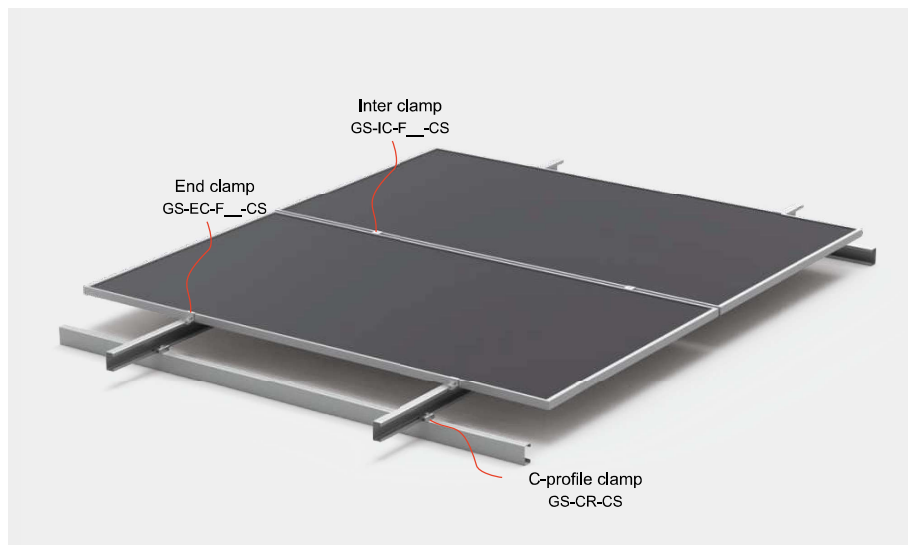
Item No.	Description	Size(mm)	Package
GS-IK-02-C	Stainless Steel Hook 2# C type	286*166*30*5	30 kits/box 2# 2 boxes 2#/CTN



GS-AIK-02

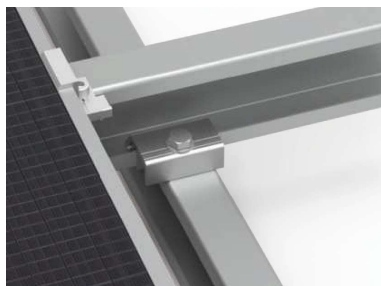
Item No.	Description	Size(mm)	Package
GS-AIK-02-ST	Aluminum Roof Hook 2# Kit (with self tapping screw)	168*40	10 kits/box 4 boxes/CTN
GS-AIK-02	Aluminum Roof Hook 2# Kit	168*40	10 kits/box 4 boxes/CTN

C-Profile Fixing Components



Fixing Clamps

C-profile Clamp Kit

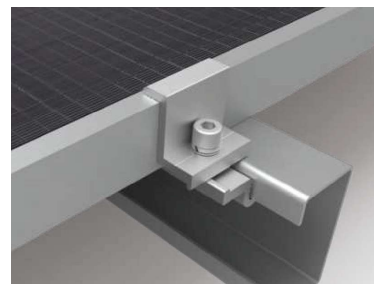


GS-CR-CS

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



GS-IC-F__CS

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
	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

	GS-DR-SP	DR Rail Splice Kit	Connect two pcs DR Rail Pre-assembly	50 kits/box 4 boxes/CTN
	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
	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
	GS-UR-SP	UR Rail Splice Kit	Connect two pcs UR Rail	100 kits/box 4 boxes/CTN

Accessories

	Item No.	Name	Description	Package
	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
	GS-CT-01	Cable Tie 1# 4.6x300	SUS304 with PVC Coat Tie the cable with Rail	1000 kits/box 4 boxes/CTN
	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
Mid Clamp Kit				
	GS-IC-F30	Inter Clamp Kit 30-32mm	Inter Clamp D- Module Socket Head Screw M8 Pre-assembly	100 kits/box 4 boxes/CTN
	GS-IC-F35	Inter Clamp Kit 35mm		
	GS-IC-F40	Inter Clamp Kit 40mm		
	GS-IC-F46	Inter Clamp Kit 46mm		
	GS-IC-F50	Inter Clamp Kit 50mm		
	GS-IC-F30-TH-G01	Inter Clamp Kit 30-32mm	Inter Clamp D- Module Socket Head Screw M8 Grounding Clip Spring Pre-assembly	100 kits/box 4 boxes/CTN
	GS-IC-F35-TH-G01	Inter Clamp Kit 35mm		
	GS-IC-F40-TH-G01	Inter Clamp Kit 40mm		
	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	Inter Clamp D- Module Socket Head Screw M8 Grounding Clip Spring Pre-assembly	100 kits/box 4 boxes/CTN
	GS-IC-F35-TH-G02	Inter Clamp Kit 35mm		
	GS-IC-F40-TH-G02	Inter Clamp Kit 40mm		
	GS-IC-F46-TH-G02	Inter Clamp Kit 46mm		
	GS-IC-F50-TH-G02	Inter Clamp Kit 50mm		
End Clamp Kit				
	GS-EC-F30	End Clamp Kit 30mm	End Clamp D- Module Socket Head Screw M8 Washer Pre-assembly	100 kits/box 4 boxes/CTN
	GS-EC-F35	End Clamp Kit 35mm		
	GS-EC-F40	End Clamp Kit 40mm		
	GS-EC-F46	End Clamp Kit 46mm		
	GS-EC-F50	End Clamp Kit 50mm		
	GS-IC-L80	Thin Film Inter Clamp Kit	Top and Bottom Clamp D- Module Socket Head Screw M8 Pre-assembly	40 kits/box 4 boxes/CTN
	GS-EC-L80	Thin Film End Clamp Kit		50 kits/box 4 boxes/CTN

Module Clamp

	Item No.	Name	Description	Package
Adjustable Clamp Kit				
	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
	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	Clamp T- Module Socket Head Screw M8 Washer Pre-assembly	50 kits/box 4 boxes/CTN
Rail Clamp Kit				
	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
	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	Package on request
	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	
	GS-F-AS820	Anti-Theft Screw	Stainless Steel A2-70, M8*20	
	GS-F-AS825	Anti-Theft Screw	Stainless Steel A2-70, M8*25	
	GS-F-AS828	Anti-Theft Screw	Stainless Steel A2-70, M8*28	
	GS-F-AS830	Anti-Theft Screw	Stainless Steel A2-70, M8*30	
	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	Package on request
	GS-F-W208	Lock Washer, M8 OD13	Stainless Steel A2-70, M8, OD13	
	GS-F-W308	Lock Washer, M8 OD18	Stainless Steel A2-70, M8, OD18	
	GS-F-T625	Self-tapping Screw	Stainless Steel 410 St6.3x25	
	GS-FS-W660	Wood Screw	Stainless Steel 410 St6.3x60 With Pad	
	GS-FS-W680	Wood Screw	Stainless Steel 410 St6.3x80 With Pad	60 kits/box 4 boxes/CTN
	GS-F-H020	Hanger Bolt	Stainless Steel A2-70 M10x200	
	GS-FA-H020	Hanger Bolt Assembly	Stainless Steel Hanger Bolt& 3xFlange Nuts & Rubber Pad M10x200	

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
	GS-G-BJ-A	Bonding Jumper	Braider copper wire Stainless Steel Plate Socket Head Screw Pre-assembly	100 kits/box 2 boxes/CTN II

SERVICE & SUPPORT



On-site investigation

Conduct on-site investigation and investigation to the project location to provide targeted technical solutions



Service response

24 hours a day to respond to and reply to customer questions



Technical solution

In-depth analysis of project requirements such as the topography of the project site, soil conditions, array layout, communication conditions, etc., and provide technical solutions that can meet technical and commercial requirements



Financial analysis

After comparing the economic benefits of different technical solutions, recommend the best design solutions to customers



On-site support

Go to the construction site to guide the construction staff to ensure the progress of the project



Various services

Provide on-site, Internet, teleconference and other forms of training for the installation, operation and maintenance of the bracket system