





- Tile Roof Mounting System
- Tin Roof Mounting System



COMPANY INTRODUCTION

Samil Power is dedicated in developing and producing panel mounting systems suitable for a variety of building types and climate zones. After years of efforts and accumulation of in-depth experience, Samil Power was able to form a system of effective solutions for multifarious power plants which include flat roof mounting system, pitched roof mounting system, open ground mounting system ,etc.

From design, test, manufacture to installation, we strive to ensure our mounting systems offer world-class safety and reliability.



Product features:

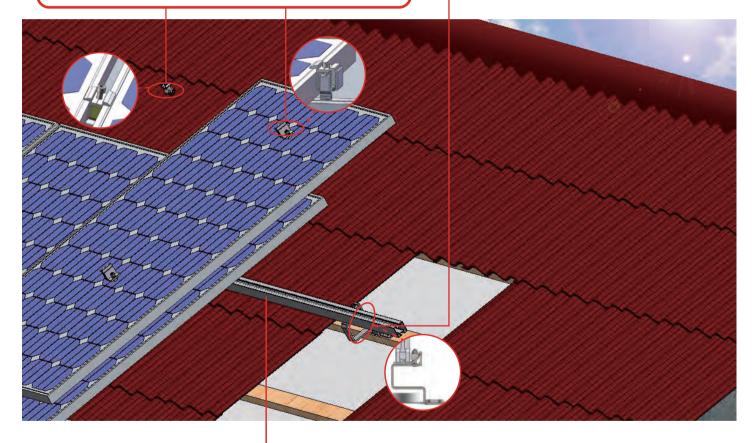
- · Fast and simple installation
- High quality components
- Suitable for all roof types and all PV modules
- Mechanical calculation and reliability tested to ensure highest product quality
- 10 years product warranty

3. Roof Hook

Once fastening the bolt, hook could be directly fixed to the rail. Samil Power offers a wide range of roof hooks with different strength limits and structures, available for different roof types and load capacity.

2.Click-in End / Middle clamp

Modules can be fastened by clicking clamps into rails. The height of end clamp is adjustable to fit any thickness modules from 30mm to 50mm.



1.Rail

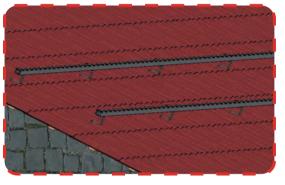
6063-T6 Aluminum rails are standard components for different types of mounting system solutions. With its optimized innerstructural design, rails have stronger strengths with lighter weight.

Installation Guidance

1. Open tiles, the connecting parts should be connected on the roof beams with tapping screws.



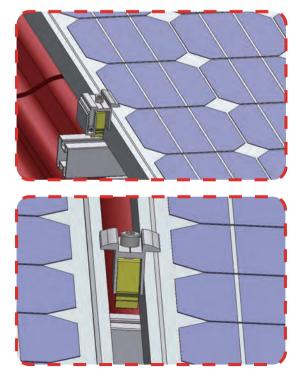
2. Fasten top screw of the roof hook to fix rails.



Advantage:

- The hooks can be adjusted to cater for tiles with different thickness
- This system is 100% water-proof, no water penetration to the roof.
- Pre-assembly
- Light weight

3. Install modules onto mounting system.

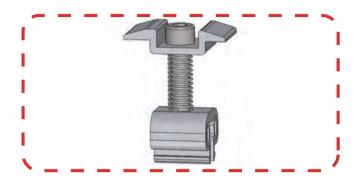


Tile Roof PV System Installation Data

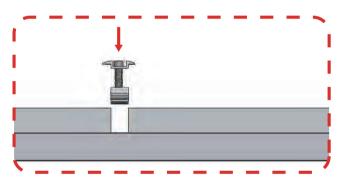
PV Array	185Wp Module	Installation Manpower	Installation time	Installation tool
	6	2 persons	20Min	Electric Drill
	Rail	Hook	End Clamp	Middle Clamp
1.1KW PV Array	2	6	4	10
	8	2 persons	26Min	Electric Drill
	Rail	Hook	End Clamp	Middle Clamp
1.5KW PV Array	4	10	4	14
	10	2 persons	32Min	Electric Drill
1.9KW PV Array	Rail	Hook	End Clamp	Middle Clamp
	4	12	4	18
	12	2 persons	40Min	Electric Drill
	Rail	Hook	End Clamp	Middle Clamp
2.2KW PV Array	4	12	8	20
	16	2 persons	52Min	Electric Drill
	Rail	Hook	End Clamp	Middle Clamp
3KW PV Array	4	20	8	28
	18	2 persons	60Min	Electric Drill
	Rail	Hook	End Clamp	Middle Clamp
3.3KW PV Array	6	18	12	30
	20	2 persons	60Min	Electric Drill
	Rail	Hook	End Clamp	Middle Clamp
3.7KW PV Array	8	24	8	36

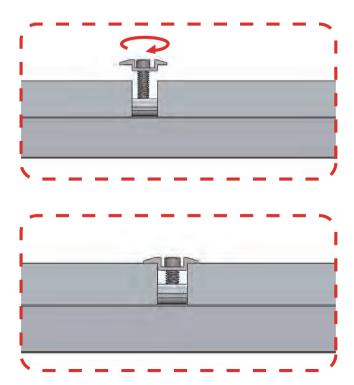
Click-in Middle Clamp MCA-Q01

The Material is AL6063-T6. The Modules can be fastened by clicking the clamps into rails.



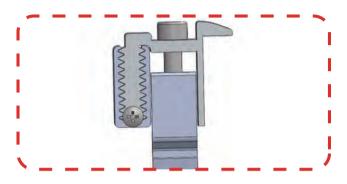
1. Click the clamp, fasten the module to the rail.



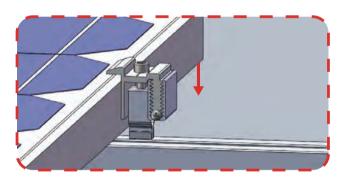


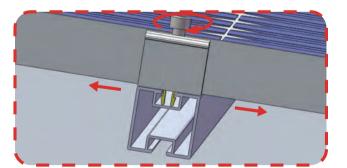
Click-in End Clamp ECA-Q01

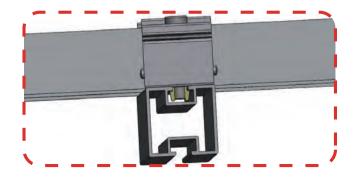
The Material is AL6063-T6, the Clamp can be adjusted to cater for modules with thickness from 30mm to 50mm. The Modules can be fastened by clicking the clamps into rails.



1. Put the PV module on the rail. Click the clamp, fasten the module to the rail.





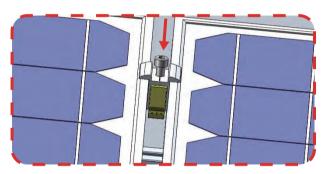


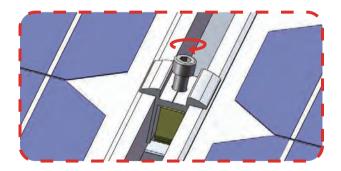
Click-in Middle Clamp MCA-Q02

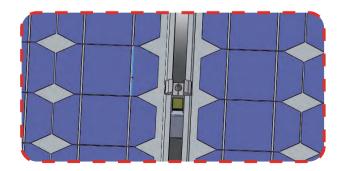
The Material is AL6063-T6, The Modules can be fastened by clicking the clamps into rails. put the PV module on the rail.



1. Click the clamp, fasten the module to the rail.





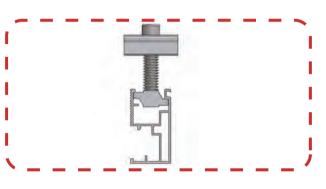


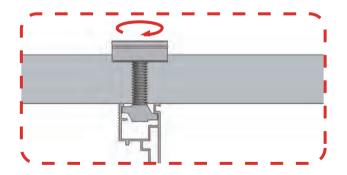
T-type Middle Clamp MCA-001

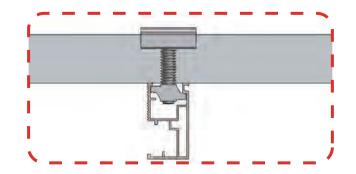
The Material is AL6063-T6, with the T-bot, it can be easily fastened into the rail to fix the module.



1. Put T-Middle clamp into the rail.







Tile Roof Mounting System

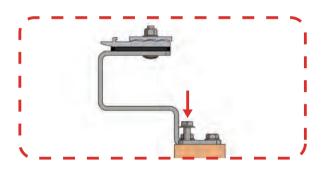
Quick-Fasten Hook HOU-Q01



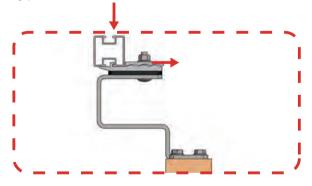
Material:

- Hook part: SUS304
- Connecting part: AL6063-T6
- Rubber cushion: EPDM Rubber

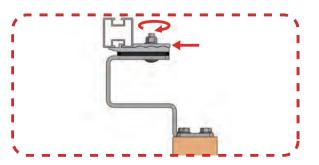
1. Fasten the bottom screw, fix hook to the wood beam.



2. Put the rail on the connecting part.



3. Fasten the top screw, fix hook to the rail.

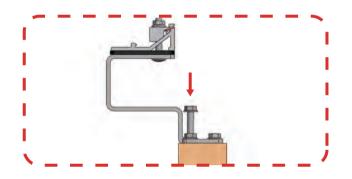


Tile Roof Mounting System

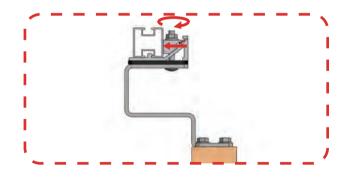
Quick-Fasten Hook HOU-Q02



1. Fasten the bottom screw, fix hook to the wood beam.



2. Put the rail on the connecting part. Fasten the top screw, fix hook to the rail.

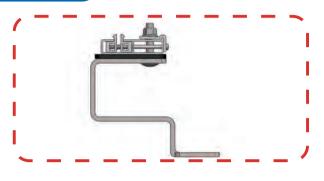


Material:

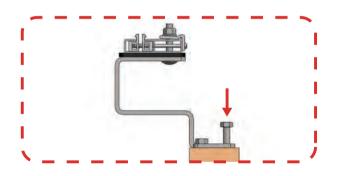
- Hook part: SUS304
- Connecting part: AL6063-T6
- Rubber cushion: EPDM Rubber

Tile Roof Mounting System

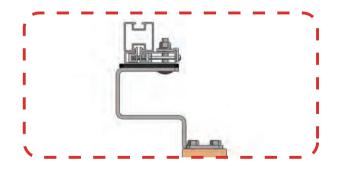
Quick-Fasten Hook HOU-Q03



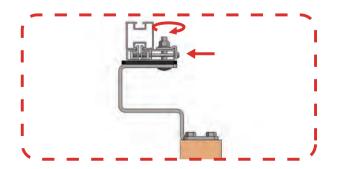
1. Fasten the bottom screw, fix hook to the wood beam.



2. Put the rail on the connecting part.



3. Fasten the side screw and top screw, fix hook to the rail.



Material:

- Hook part: SUS304
- Connecting part: AL6063-T6
- Rubber cushion: EPDM Rubber

Optional Hook

Roof hooks with different strength limits and structures are available for different roof types and load capacity.

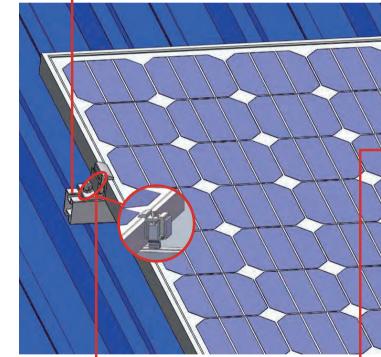
Hook type	Part NO.	Drawing	Dimension(mm)	Material
	HOU-001		135*145*5	SUS304
	HOU-002		230*80*70*5	SUS304
	HOU-003		80*230*5	SUS304
	HOU-004		(90~130)*80*235*5	SUS304
	HOU-005		80*85*5	SUS304
	HOU-006		(125~165)*85*150*5	SUS304
	HOU-007		110*145*85*5	SUS304

1.Rail

6063-T6 Aluminum rails are standard components for different types of mounting system solutions. With its optimized innerstructural design, rails have stronger strengths with lighter weight.

3. Metal Sheet Clamp

Once fastening the bolt, metal sheet clamp could be directly fixed to the rail. Samil Power offers a wide range of metal sheet clamp with different strength limits and structures, available for different roof types and load capacity.

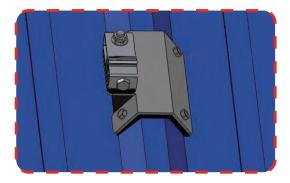


2.Click-in End/Middle clamp

Modules can be fastened by clicking clamps into rails. The height of end clamp is adjustable to fit any thickness modules from 30mm to 50mm.

Installation Guidance

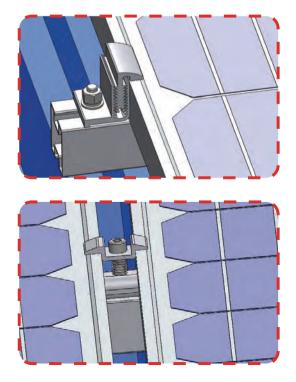
1. The metal sheet clamp should be connected on the beams of roof with screws.



2. The rails should be installed on the metal sheet clamp.



3. The modules should be installed on rails with middle clamps and end clamps.



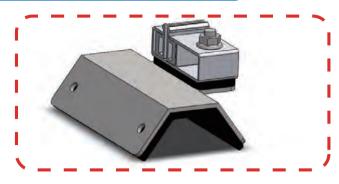
Tin Roof PV System Installation Data

PV Array	185Wp Module	Installation Manpower	Installation time	Installation tool
	6	2 persons	20Min	Electric Drill
	Rail	Metal Sheet Clamp	End Clamp	Middle Clamp
1.1KW PV Array	2	6	4	10
	8	2 persons	26Min	Electric Drill
	Rail	Metal Sheet Clamp	End Clamp	Middle Clamp
1.5KW PV Array	4	10	4	14
	10	2 persons	32Min	Electric Drill
1.9KW PV Array	Rail	Metal Sheet Clamp	End Clamp	Middle Clamp
,	4	12	4	18
	12	2 persons	40Min	Electric Drill
	Rail	Metal Sheet Clamp	End Clamp	Middle Clamp
2.2KW PV Array	4	12	8	20
	16	2 persons	52Min	Electric Drill
	Rail	Metal Sheet Clamp	End Clamp	Middle Clamp
3KW PV Array	4	20	8	28
	18	2 persons	60Min	Electric Drill
	Rail	Metal Sheet Clamp	End Clamp	Middle Clamp
3.3KW PV Array	6	18	12	30
	20	2 persons	60Min	Electric Drill
	Rail	Metal Sheet Clamp	End Clamp	Middle Clamp
3.7KW PV Array	8	24	8	36

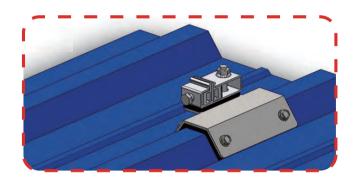
• Rubber cushion: EPDM Rubber

Material: • AL6063-T6

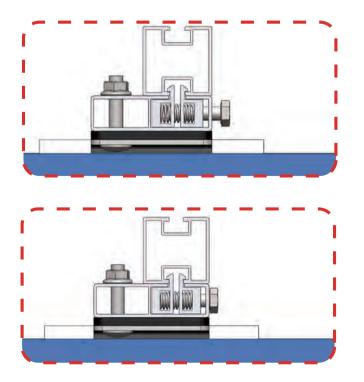
Quick-Fasten Metal Sheet Clamp MSA-Q01



1. Fasten the bottom screw, fix metal sheet clamp to the beam.



2. Put the rail on the connecting part. Fasten the side screw, fix metal sheet clamp to the rail.



Tin Roof Mounting System

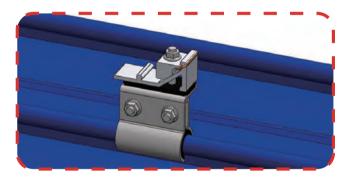
Quick-Fasten Metal Sheet Clamp MSA-Q02



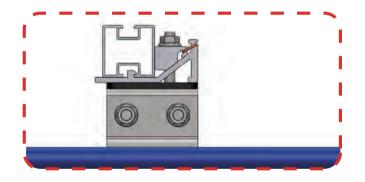
1. Fasten the bottom screw, connect the metal sheet clamp to the Tin roof.

Advantage:

- Ease for installation
- This system is 100% water-proof, no water penetration to the roof.
- Pre-assembly
- Light weight

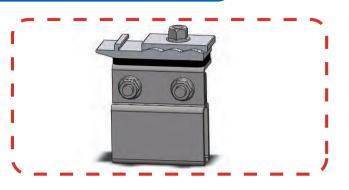


2. Fasten top screw of the clamp to fix rails.



Tin Roof Mounting System

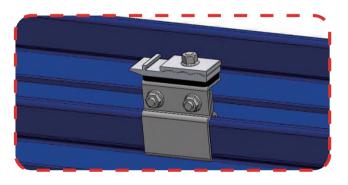
Quick-Fasten Metal Sheet Clamp MSA-Q03



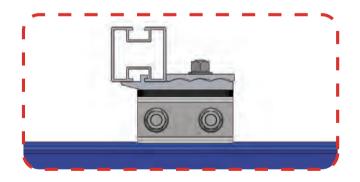
Ease for installation

Advantage:

- This system is 100% water-proof, no water penetration to the roof.
- Pre-assembly
- Light weight
- 1. Fasten the bottom screw, connect the metal sheet clamp to the Tin roof.



2. Fasten top screw of the clamp to fix rails.



Optional Metal Sheet Clamp

Metal Sheet Clamp with different strength limits and structures are available for different roof types and load capacity.

Metal Sheet Clamp type	Part NO.	Drawing	Dimension(mm)	Material
	MSA-001		135*145*5	SUS304
	MSA-002		230*80*70*5	SUS304
	MSA-003		80*230*5	SUS304
R	MSA-004		70*35*55*3	SUS304
	MSA-005		70*35*55*3	SUS304
	MSA-006		(125~165)*85*150*5	SUS304

Rail

Rail is used to support PV modules. Usually one PV module shall be fastened with two rails by clamps.

Rail type	Part NO.	Drawing	Dimension(mm)	Material
	RAA-001		30.27*55	6360-T6
	RAA-002		40*40	6360-T6
	RAA-003		30*55	6360-T6



To ensure module and the whole system stability, we design clamps suitable for C-Si and TF modules.

Clamp type	Part NO.	Drawing	Dimension(mm)	Material
	ECA-Q03		30~50	6063-T6
	ECA-Q01	Connection of the second	30~50	6063-T6
	MCA-Q01		30~50	6063-T6
Ĩ	MCA-Q02		(30~50)*25	6063-T6
	MCA-001		30~50	6063-T6
1	ECA-002		30~50	6063-T6
	MCA-Q03		30~50	6063-T6

Screw Bolt

Screw Bolt is made of 304 stainless steel.

Samil Power always provides high quality screw bolts which conform to GB to ensure high reliability of the whole system.

Screw Bolt	Part NO.	Dimension (mm)	Material
	Hexagon socket screw/bolt	M8*25/30/35/40/45/50	SUS304
	Step bolt	M8*40/M8*45	SUS304
	T-bolt	M8*25/M8*30/M8*35/ M8*40/M8*45/M8*50	SUS304
	Hexagon self-tapping screw	M8*25/M8*45	SUS304
	Cross recessed head self-tapping screw	ST3.5*9.5	SUS304
	Hexagon FLANGE nut	M8/M10	SUS304
	Hexagon socket nut	M6/M8	SUS304



Samil Power Co., Ltd.

Marketing & Sales Office

Add: No.52,Huigu Innovation Park, Huishan District, Wuxi,Jiangsu Province,P.R.China 214174
Tel: +86 510 83593131
Fax: +86 510 81819678
E-mail:info@samilpower.com
http://www.samilpower.com

Factory

Add: No.66 Taihangshan Road, Suyu Economic Development Zone, Suqian City, Jiangsu Province, P.R.China 223800
Tel: +86 527 88754666
Fax: +86 527 84453877

SAMIL POWER GmbH

Address: Landsberger Str. 302, 4th Floor D-80687 Munich Germany Tel: +49 (0) 89 9040 5182 Fax: +49 (0) 89 9040 5066 E-mail: germany@samilpower.com

Samil Power Australia Pty. Ltd.

Address: Sydney Business and Technology Centre Unit 5, 2 Railway Parade, Lidcombe, NSW, 2141 Australia

Postal Address: PO BOX 693 Lidcombe, NSW, 1825

Office Number: +61 1300 134 793 +61 (0)2 9643 7788

Fax Number: +61 (0)2 9643 7788 E-mail: Australia@samilpower.com

Samil Power France SAS

Adress:1,Place Joseph Bermond –Ophira 1-06560 Sophia Antipolis-France Cell:+33 (0)6 89 64 55 14 Fax:+33 (0)4 89 73 23 48 Email: patrice.lambert@samilpower.fr

