

# Professional Solar Mounting Supplier









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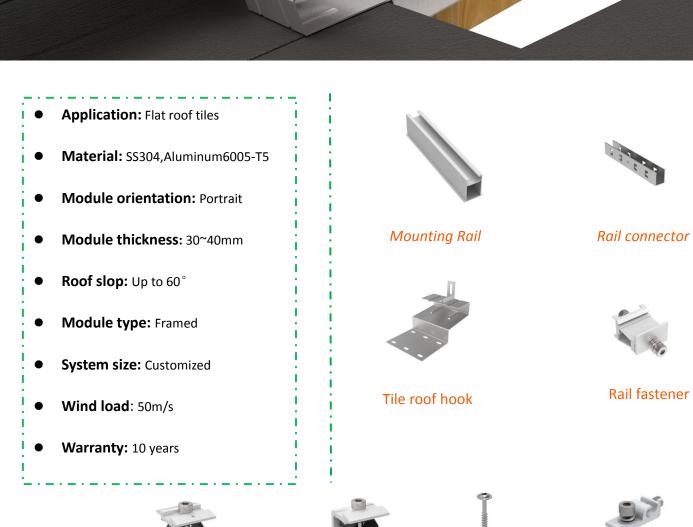
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## Tile roof mounting system



### Flat tile system LV-T081





Mid clamp

End clamp



Wooden Screws

Ground lug

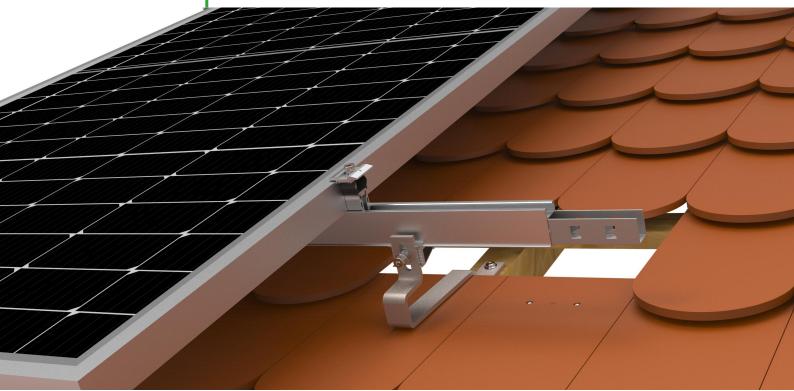
2







### Plain tile system LV-T083



- Application: Plain Tile roof
- Material: SS304, Aluminum 6005-T5
- Module orientation: Portrait
- Module thickness: 30~40mm
- **Roof slop:** Up to  $60^{\circ}$
- Module type: Framed
- System size: customized
- Wind load :50m/s
- Warranty: 10 years
- Service life: 25 years



Mounting Rail



Tile roof hook







**Rail connector** 

**Rail fastener** 

Ground lug





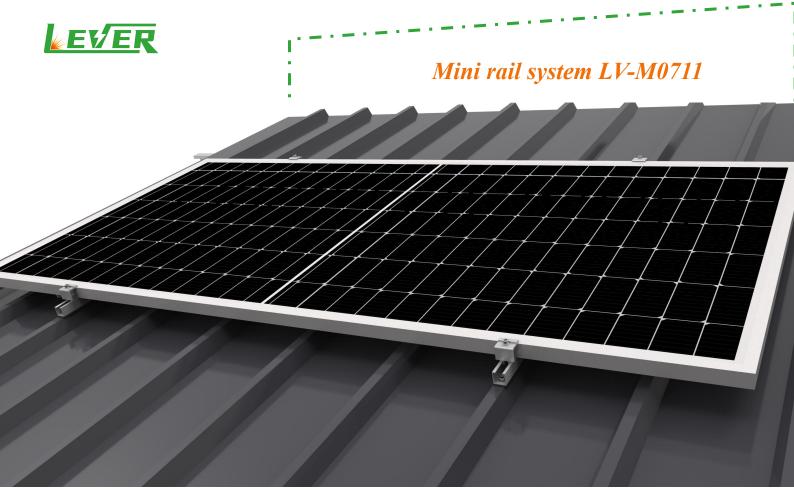


End clamp





## Metal roof mounting system





Ground lug



Mini rail



Middle clamp



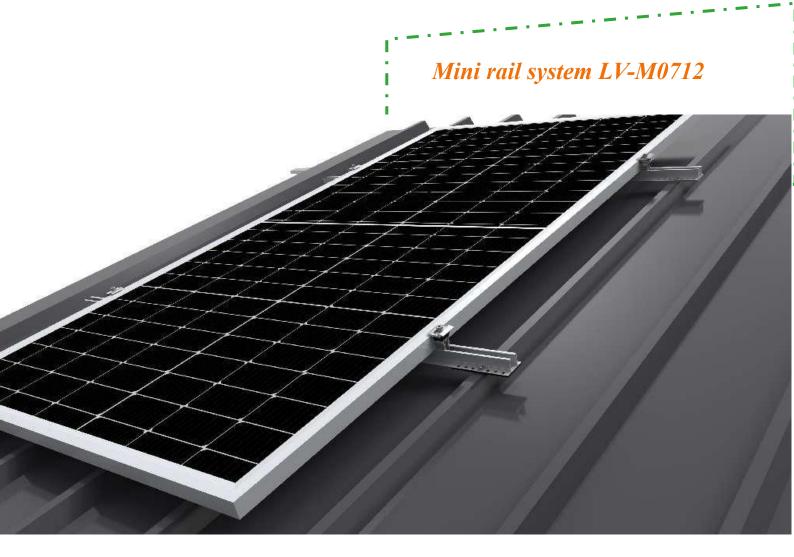
#### Screw ST5.5\*25



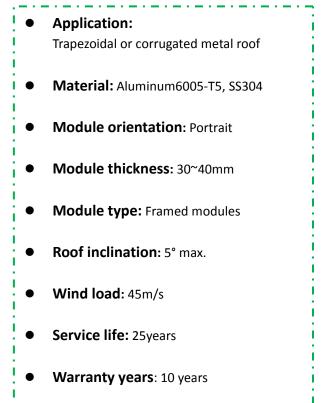
End clamp

•	Application: Trapezoidal metal roof
•	Material: Aluminum6005-T5, SS304
•	Module orientation: Landscape
•	Module thickness: 30~40mm
•	Module type: Framed modules
•	Building height: 25 m max.
•	Roof inclination: 35° max.
•	Wind load: 45m/s
•	Service life: 25years
•	Warranty years: 10 years

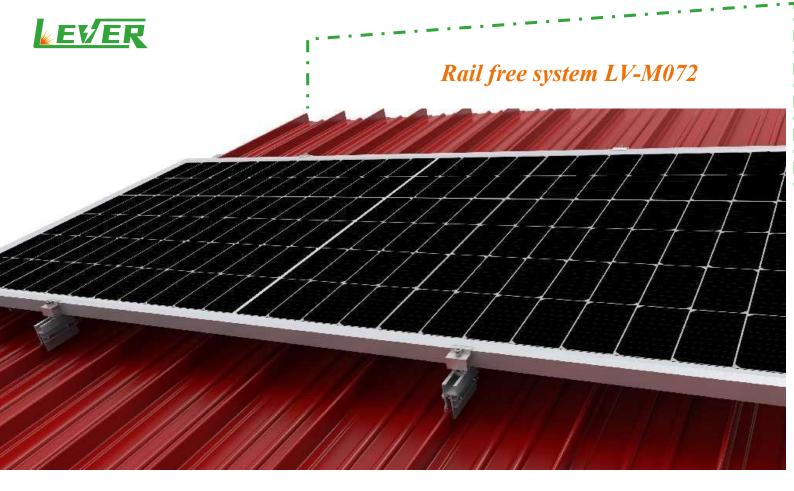
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Roof clamp



Ground lug



Middle clamp

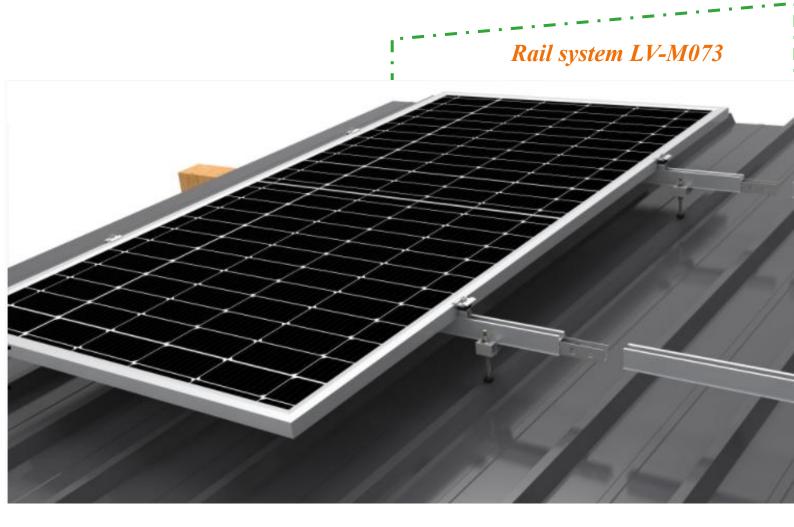


End clamp

•	Application: Sanding seam metal roof
•	Material: Aluminum6005-T5, SS304
•	Module orientation: Vertical
•	Module thickness: 30~40mm
•	Module type: Framed modules
•	Roof inclination: 5° max.
•	Wind load: 45m/s
•	Service life: 25years
•	Warranty years: 10 years
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- Application: Trapezoidal or corrugated metal roof
- Material: Aluminum6005-T5, SS304
- Module orientation: Portrait
- Module thickness: 30~40mm
- Module type: Framed modules
- Roof inclination: 5° max.
- Wind load: 60m/s
- Service life: 25years
- Warranty years: 10 years





Middle clamp

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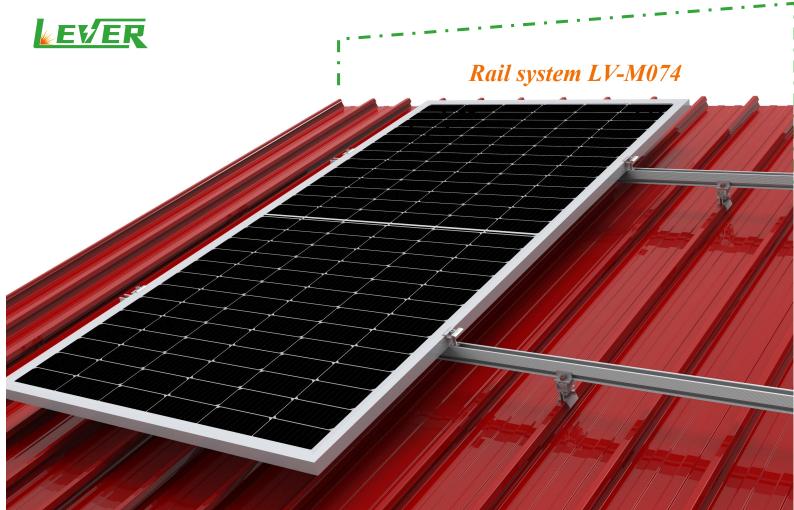
Rail connector



Ground lug



End clamp





Mounting Rail



Roof clamp



Middle clamp

Rail connector



Rail fastener



End clamp



Ground lug

•	Application: Standing seam metal roof
•	Material: Aluminum6005-T5, SS304
•	Module orientation: Portrait
•	Module thickness: 30~40mm
•	Module type: Framed modules
•	Wind load: 45m/s
•	Service life: 25years
•	Warranty years: 10 years
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## Flat roof mounting system



### Z-bracket system LV-F061



Z bracket



Middle clamp

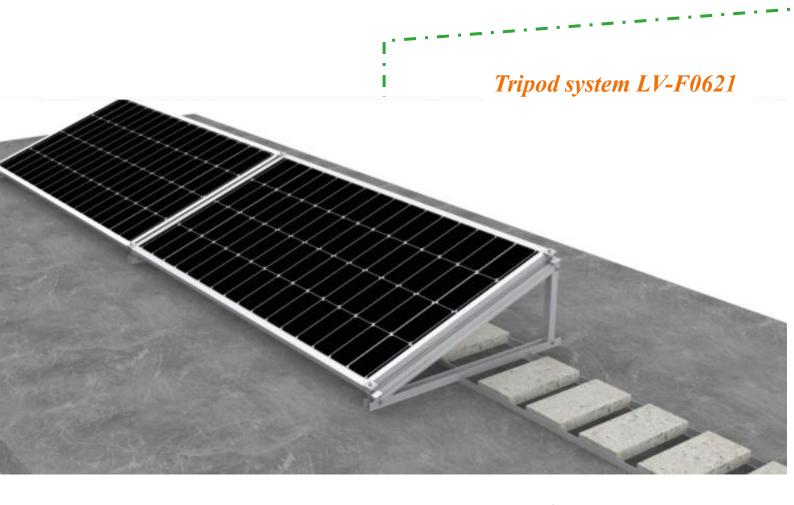


Wind deflector

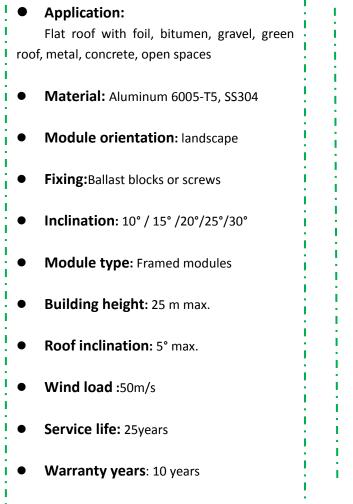


End clamp

• roof	<b>Application:</b> Flat roof with foil, bitumen, gravel, green , metal, concrete, open spaces
•	Material: ZM275 Magnelis
•	Module orientation: South, West-east
•	Fixing: Ballast blocks
•	Inclination: 5° /10° / 15° /20°
•	Module type: Franed modules
•	Building height: 50 m max.
•	Roof inclination: 5° max.
•	Wind load:40m/s
•	Service life: 25years
•	Warranty years: 10 years



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Give me a pivot, I can prize up the earth.



#### • Application:

Flat roof with foil, bitumen, gravel, green roof, metal, concrete, open spaces

- Material: Aluminum6005-T5, SS304
- Module orientation: Portrait
- Fixing: Ballast blocks /Screws
- Inclination: 10° / 15° /20°/25°/30°
- Module type: Framed modules
- Building height: 50 m max.
- **Roof inclination:** 5° max.
- Wind load:50m/s
- Service life: 25years
- Warranty years: 10 years



Tripod structure



Middle clamp

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End clamp



Rail

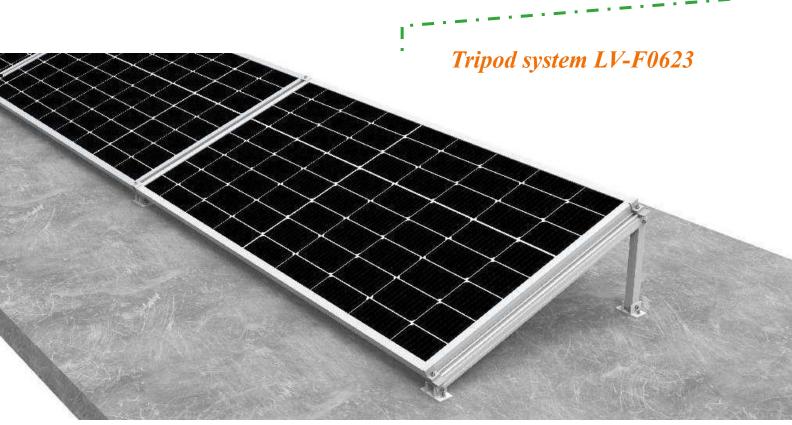
Rail fastener





Ground lug

Ballast rack /Expansion bolt







Middle clamp



Expansion bolt



End clamp



Ground lug

	<b>Application:</b> Flat roof with foil, bitumen, gravel, green f, metal, concrete, open spaces
•	Material: Aluminum6005-T5, SS304
•	Module orientation: landscape
•	Fixing: screws
•	Inclination: 10° / 15° /20°/25°/30°
•	Module type: Framed modules
•	Building height: 50 m max.
•	Roof inclination: 5° max.
•	Wind load: 50m/s
•	Service life: 25 years
•	Warranty years: 10 years



### Tripod system LV-F0624







Rail



Middle clamp





End clamp

### Expansion bolt

Rail fastener

Ground lug

• roo	<b>Application:</b> Flat roof with foil, bitumen, gravel, green f, metal, concrete, open spaces
•	Material: Aluminum6005-T5, SS304
•	Module orientation: Portrait
•	Inclination: 10° / 15° /20°/25°/30°
•	Module type: Framed modules
•	Building height: 50 m max.
•	Roof inclination: 5° max.
•	Wind load: 50m/s
•	Service life: 25 years
•	Warranty years: 10 years

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### Adjustable system LV-F063



### • Application:

Flat roof with foil, bitumen, gravel, green roof, metal, concrete, open spaces

- Material: Aluminum6005-T5, SS304
- Module orientation: Portrait
- Inclination: 10° ~20°/25°~40°
- Module type: Framed modules
- Building height: 25 m max.
- **Roof inclination:** 5° max.
- Wind load: 50 m/s
- Service life: 25 years
- Warranty years: 10 years



Front foot



Rail



Middle clamp



Rear foot



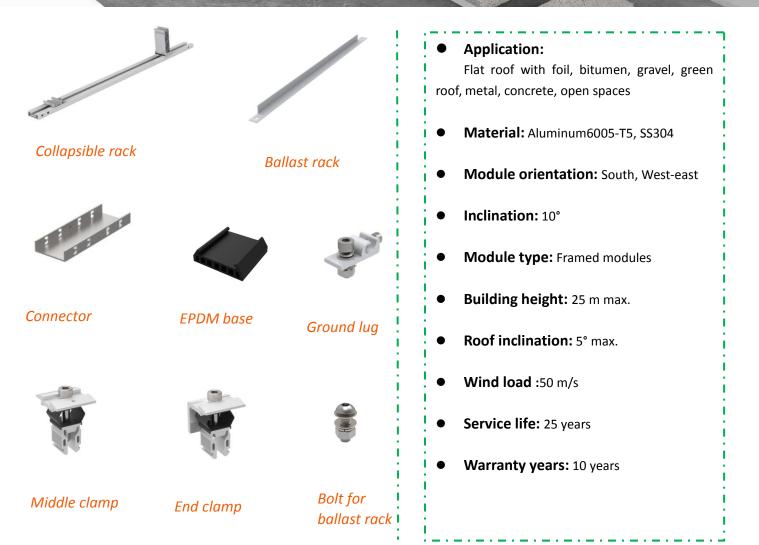
Ground lug



End clamp



### S& EW system LV-F064



Application: Balcony or wall Material: SS304,Aluminum6005-T5 Module orientation: Landscape Module type: Framed • **Balcony structure U** fastener System size: customized ۲ Wind speed :50 m/s • Warranty: 10 years Service life: 30 years **Fastener bolts Structure Fastener** 

**Balcony mounting system LV-B09** 

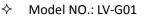


## Ground mounting system

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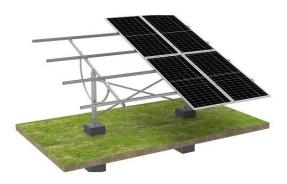




- ♦ Material: Steel Q235B with HDG or ZM310 Magnelis
- ♦ Module orientation: Landscape/ Portrait
- Founation type: Concrete foundation/Ground screw/ Rammed post
- ♦ Wind speed: Up to 60m/s
- $\diamond$  Tilt angles: 5° 50°
- ♦ Model NO.: LV-G03
- ♦ Material: Aluminum 6005-T5
- ♦ Module orientation: Landscape/ Portrait
- Foundation type: Concrete foundation/Ground screw/ Rammed post
- ♦ Wind speed: Up to 45m/s
- $\diamond$  Tilt angles: 5° 50°



- ♦ Model NO.: LV-G15
- ♦ Material: Steel Q235B with HDG or ZM310 Magneli
- ♦ Module orientation: Landscape/ Portrait
- Foundation type: Concrete foundation/Ground screw/ Rammed post
- ♦ Wind speed: Up to 45m/s
- ♦ Tilt angles:  $5^{\circ}$   $50^{\circ}$



- ♦ Model NO.: LV-G05
- ♦ Material: Steel Q235B with HDG or ZM310 Magnelis
- ♦ Module orientation: Landscape/ Portrait
- Foundation type: Concrete foundation/Ground screw/ Rammed post
- ♦ Wind speed: Up to 45m/s
- ♦ Tilt angles:  $5^{\circ}$   $50^{\circ}$

Give me a pivot, I can prize up the earth.



- ♦ Model NO.: LV-G013-1
- ♦ Material: Steel Q235B with HDG
- ♦ Module orientation: Landscape/ Portrait
- ♦ Wind speed: Up to 45m/s
- ♦ Tilt angles:  $0^{\circ}$   $15^{\circ}$
- ♦ Carport size: Customized
- ♦ Park space: Single sided



- ♦ Model NO.: LV-G13-2
- ♦ Material: Steel Q235B with HDG
- ♦ Module orientation: Landscape/ Portrait
- ♦ Wind speed: Up to 45m/s
- ♦ Tilt angles:  $0^{\circ}$   $15^{\circ}$
- ♦ Carport size: Customized
- ♦ Park space: double sided



## **Roof mounting accessories**



### **Solar Mounting rails & Rail splices**















Roof rail **5801300** Material : Aluminum 6005-T5 Color: Mill/Black Max Length: 6200mm

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Roof rail **5801300H** Material : Aluminum 6005-T5 Color: Mill/Black Max Length: 6200mm

Roof rail **5801400** Material : Aluminum 6005-T5 Color: Mill/Black Max Length: 6200mm

Roof rail **5801400H** Material : Aluminum 6005-T5 Color: Mill/Black Max Length: 6200mm

Roof rail **5801500** Material : Aluminum 6005-T5 Color: Mill/Black Max Length: 6200mm

Rail splice **5801300-C** Material : Stainless 304 Max Length: 200mm

Rail splice **5801300H-C** Material : Stainless 304 Max Length: 200mm











Rail splice !	5801400-C
Material :	Aluminum6005-T5 & SS304
Max Lengt	n: 200mm

Rail splice **5801400H-C** Material : Aluminum6005-T5 & SS304 Max Length: 200mm

Rail splice **5801500-C** Material : Aluminum6005-T5 & SS304 Max Length: 200mm

Rail fastener 7830201 Material : Aluminum6005-T5 & SS304 Bolt: M8x20

Rail fastener 7820701 Material : Aluminum6005-T5 & SS304 Bolt: M8x20

### Solar Panel clamps





### End clamp: 7817501 Material : Aluminum 6005-T5 Colar: Sliver/Black Module frame height: From 30mm up to 40mm Mid clamp: 7817601 Material : Aluminum 6005-T5 Colar: Sliver/Black Module frame height: From 30mm up to 40mm

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Mid clamp: 7817401 Material : Aluminum 6005-T5 Colar: Sliver/Black Module frame height: From 30mm up to 40mm

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End clamp: 7817301 Material : Aluminum 6005-T5 Colar: Sliver/Black Module frame height: From 30mm up to 40mm

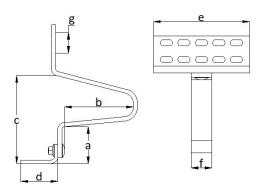
Mid clamp: 7816800-L Material : Aluminum 6005-T5 Color: Sliver Module type: Thin film/Frameless module

Mid clamp: Product No.: 7816900-L Material : Aluminum 6063-T5 Clamp length: 80mm

End clamp: 7817100-L Material : Aluminum 6063-T5 Color: Sliver Module type: Thin film/Frameless module End clamp: 7817200-L Material : Aluminum 6063-T5

Color: Sliver

Module type: Thin film/ Frameless module











#### Aluminum tile hook 7820501

Material : Aluminum 6063-T5

Screw: 2 pcs of M8x80 TX40

а	b	с	d	е	f	g
44	101	126	90	100	30	27

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Tile Roof hook 7840042	
Material : Stainless 304	

Screw: 2 pcs of M8x80 TX40

а	b	с	d	е	f	g
50	104	125	50	180	30	30

Tile Roof hook 7840046

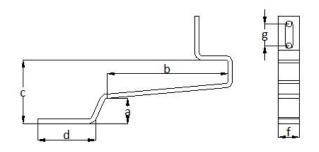
Material : Stainless 304

Screw: 2 pcs of M8x80 TX40

а	b	с	d	е	f	g
54	100	128	54	140	30	30

Tile Roof hook 7840047										
Material : Stainless 304										
Screw: 2	Screw: 2 pcs of M8x80 TX40									
а	a b c d e f g									
48 100 118 54 140 30 30										











Material : Stainless 304

Screw: 2 pcs of M8x80 TX40

1									
į	а	b	с	d	е	f	g		
	35	168	88	81	/	30	30		

 Tile Roof hook 7840054

 Material : Stainless 304

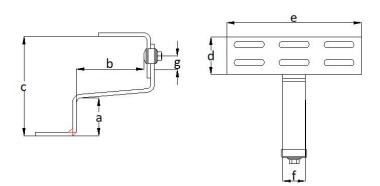
 Screw: 2 pcs of M8x80 TX40

 a
 b
 c
 d
 e
 f
 g

 /
 /
 39
 250
 /
 30
 30

Tile Roof hook 7840057 Material : Stainless 304 Screw: 2 pcs of M8x80 TX40 а b С d f е g 44 110 95 120 / 150 30

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Tile Roof hook 7840043

Material : Stainless 304

Screw: 2 pcs of M8x80 TX40

а	b	с	d	е	f	g
50	90	145	50	180	30	20









Tile Roof hook 7840048										
Material : Stainless 304										
Screw:	Screw: 2 pcs of M8x80 TX40									
а	b	с	d	е	f	g				
54 86 149 54 140 30 20										

Tile Roof hook 7840044

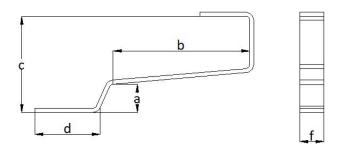
Material : Stainless 304

Screw: 2 pcs of M8x80 TX40

а	b	с	d	е	f	g
45	96	119	50	180	30	/

Tile Roof hook 7840049											
Material : Stainless 304											
Screw:	Screw: 2 pcs of M8x80 TX40										
a b c d e f g											
49	91	123	54	140	30	/					













Tile Roof hook 7840051										
Material : Stainless 304										
Screw:	2 pcs of	M8x80	ГХ40				_			
а	b	С	d	e	f	g				
35 169 119 81 / 30 /										
	•	•								

Tile Roof hook 7840052										
Material : Stainless 304										
Screw:	2 pcs of	M8x80	ГХ40							
a b c d e f g										
/	/	66	250	/	30	/				

Aluminum tile hook: 7840055
Matorial : Staiplace 204

iviateriai	: Stainless 304	

### Screw: 2 pcs of M8x80 TX40

а	b	с	d	е	f	g
34	231	116	52	/	75	/

Tile Roof hook:7840056							
Material : Stainless 304							
Screw: 2 pcs of M8x80 TX40							
а	b	с	d	e	f	g	
44	110	95	120	1	150	/	

### Mini rail system







Mini Rail 5813401 Material : Aluminum 6005-T5 Color: Sliver/Black Max Length: 100mm/customized Pre-drilled with 4 holes for Screw ST5.5x25 bottom side fully covered with EPDM sealing tape

Mini Rail 5813501 Material : Aluminum 6005-T5 Color: Sliver/Black Max Length: 300mm/400mm/customized Pre-drilled with 2x6 holes for Screw ST5.5x25 Bottom side covered with two pieces of EPDM sealing tape

Mini Rail Product No.: 5813601 Material : Aluminum 6005-T5 Colar: Sliver/Black Max Length: 120mm/customized Pre-drilled with 4 holes for Screw ST5.5x25 Bottom side fully covered with EPDM sealing tape



### Sheet metal seam clamp













Standing seam clamp 7810101
Material : Aluminum 6005-T5
Bolt: 1 pcs of M8x35
Type of roofing: Double-fold standing seam
Length: 45mm

Standing seam clamp 7810102 Material :Aluminum 6005-T5 Bolt: 2 pcs of M8x35 Type of roofing: Double-fold standing seam Length: 100mm

Standing seam clamp 7810201 Material : Aluminum 6005-T5 Bolt: 1 pcs of M8x35 Type of roofing: Check the detailed size Length: 45mm

Standing seam clamp 7810201 Material : Aluminum 6005-T5 Bolt: 2 pcs of M8x35 Type of roofing: Check the detailed size Length: 100mm

Standing seam clamp 7810301 Material : Aluminum 6005-T5 Bolt: 1 pcs of M8x35 Type of roofing: Check the detailed size Length: 45mm

Standing seam clamp 7810302 Material : Aluminum 6005-T5 Bolt: 2 pcs of M8x35 Type of roofing: Check the detailed size Length: 100mm













	Standing seam clamp 7810401
	Material : Aluminum 6005-T5
	Bolt: 1 pcs of M8x35
i	Type of roofing: Double-fold standing seam
1	Length: 45mm

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Standing seam clamp 7810402 Material : Aluminum 6063-T5 Bolt: 2 pcs of M8x35 Type of roofing: Double-fold standing seam Length: 100mm

Standing seam clamp 7810501 Material :Aluminum 6005-T5 Bolt: 1 pcs of M8x35 Type of roofing: check the detailed size Length: 45mm

Standing seam clamp 7810502 Material :Aluminum 6005-T5 Bolt: 2 pcs of M8x35 Type of roofing:check the detailed size Length: 100mm

Standing seam clamp 7810601 Material : Aluminum 6005-T5 Bolt: 1 pcs of M8x35 Type of roofing: Diamond shape Length: 45mm

Standing seam clamp 7810602 Material : Aluminum 6005-T5 Bolt: 2 pcs of M8x35 Type of roofing: Diamond shape Length: 100mm















Standing seam clamp 7810701 Material : Aluminum 6005-T5 Bolt: 1 pcs of M8x35 Type of roofing:RIB-ROOF Evolution ; Kalzip Length: 45mm

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Standing seam clamp 7810702 Material : Aluminum 6005-T5 Bolt: 2 pcs of M8x35 Type of roofing: RIB-ROOF Evolution ; Kalzip Length: 100mm

Standing seam clamp 7810801 Material : Aluminum 6005-T5 Bolt: 1 pcs of M8x35 Type of roofing: check the detailed size Length: 45mm

Standing seam clamp 7810802 Material : Aluminum 6005-T5 Bolt: 2 pcs of M8x35 Type of roofing:check the detailed size Length: 100mm

Standing seam clamp 7810901 Material : Aluminum 6005-T5 Bolt: 1 pcs of M8x35 Type of roofing: RIB-ROOF 465Length: 45mm

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Standing seam clamp 7810902 Material : Aluminum 6005-T5 Bolt: 2 pcs of M8x35 Type of roofing: RIB-ROOF 465 Length: 100mm













Standing seam clamp 7811001	
Material : Aluminum 6005-T5	
Bolt: 1 pcs of M8x35	
Type of roofing: KLIP-LOK 406	
Length: 45mm	

Standing seam clamp 7811002 Material : Aluminum 6005-T5 Bolt: 2 pcs of M8x35 Type of roofing: KLIP-LOK 406 Length: 100mm

Standing seam clamp 7811101 Material : Aluminum 6005-T5 Bolt: 1 pcs of M8x35 Type of roofing: KLIP-LOK 700 Length: 45mm \_.\_...

Standing seam clamp 7811102 Material : Aluminum 6005-T5 Bolt: 2 pcs of M8x35 Type of roofing: KLIP-LOK 700 Length: 100mm

Standing seam clamp 7811201 Material : Aluminum 6005-T5 Bolt: 1 pcs of M8x35 Type of roofing: Rib-Roof Speed 500 Length: 45mm

Standing seam clamp 7811202 Material : Aluminum 6005-T5

Bolt: 2 pcs of M8x35

Type of roofing: Rib-Roof Speed 500

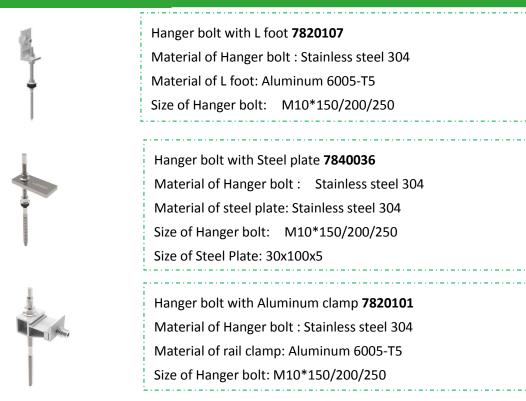
Length: 100mm





Standing seam clamp 7811301 Material : Aluminum 6005-T5 Bolt: 1 pcs of M8x35 Type of roofing: Double-fold standing seam Length: 45mm
Standing seam clamp 7811302 Material : Aluminum 6005-T5 Bolt: 2 pcs of M8x35 Type of roofing: Double-fold standing seam Length: 100mm

### Hanger bolt for wood substructure



### Drill screw for steel substructure







### L foot bracket **7820101** Material : Aluminum 6005-T5 Material of Tail screw: Stainless steel 410 Size of rail faster bolt: M8x20 Size of Tail screw: ST6.3x60, ST6.3x150 L foot bracket **7821201** Material of L foot : Aluminum 6005-T5 Material of Tail screw: Stainless steel 410 Size of rail faster bolt: M8x20 Size of Tail screw: ST6.3x60, ST6.3x150

L foot bracket **7821301** Material of L foot : Aluminum 6005-T5 Material of Tail screw: Stainless steel 410 Size of rail faster bolt: M8x20 Size of Tail screw: ST6.3x60, ST6.3x150

#### **Bolts and screws**

#### Allen bolt

M8	SS304	different length
M10	SS304	different length

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#### Hexagon head bolt

M10	SS304	different length
M12	SS304	different length
M16	SS304	different length

#### T-bolt

	M8	SS304	different length
	M10	SS304	different length



#### <u>Hex nuts</u>

6	M8	SS304
	M10	SS304
	M12	SS304

### Flange nut with locking teeth

	M8	SS304	
0	M10	SS304	
-	M12	SS304	

#### <u>T- nut</u>

P

	M8	SS304
	M10	SS304

#### <u>Flat washer</u>

0	M8	SS304	
	M10	SS304	

### Spring washer

0	M8	SS304	
	M10	SS304	

### Self-drilling screw

9	ST5.5	SS410	
	ST6.3	SS410	

#### Sheet metal screw

0	ST5.5*25	SS410	•
	ST6.3*25	SS304	_

### Torx head wooden screw

0	M8*75	SS304	
	M8*100	SS304	

### Hex head wooden screw

8	M8*75	SS304
	M8*100	SS304

### Accessories

### <u>Grounding lug</u>



Aluminum 6005-T6

### Two Cable clip



SS304

### Four Cable clip



SS304			

#### <u>End cap</u>



#3800916	PA6	
#3800917	PA6	
#3800918	PA6	
#3800919	PA6	

### Production and packing































### Give me a pivot, I can prize up the earth.

### Project reference



























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