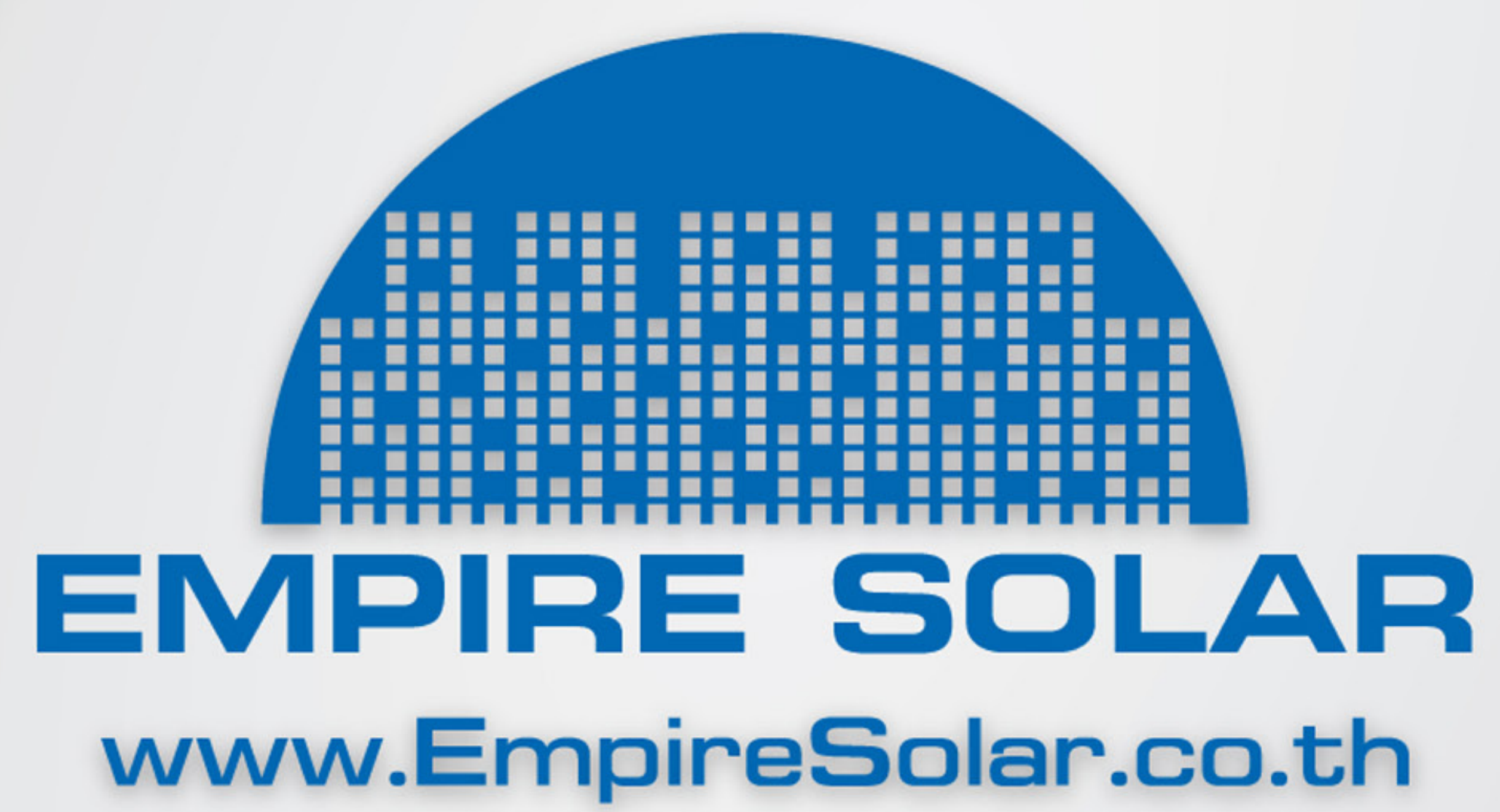




Mounting System

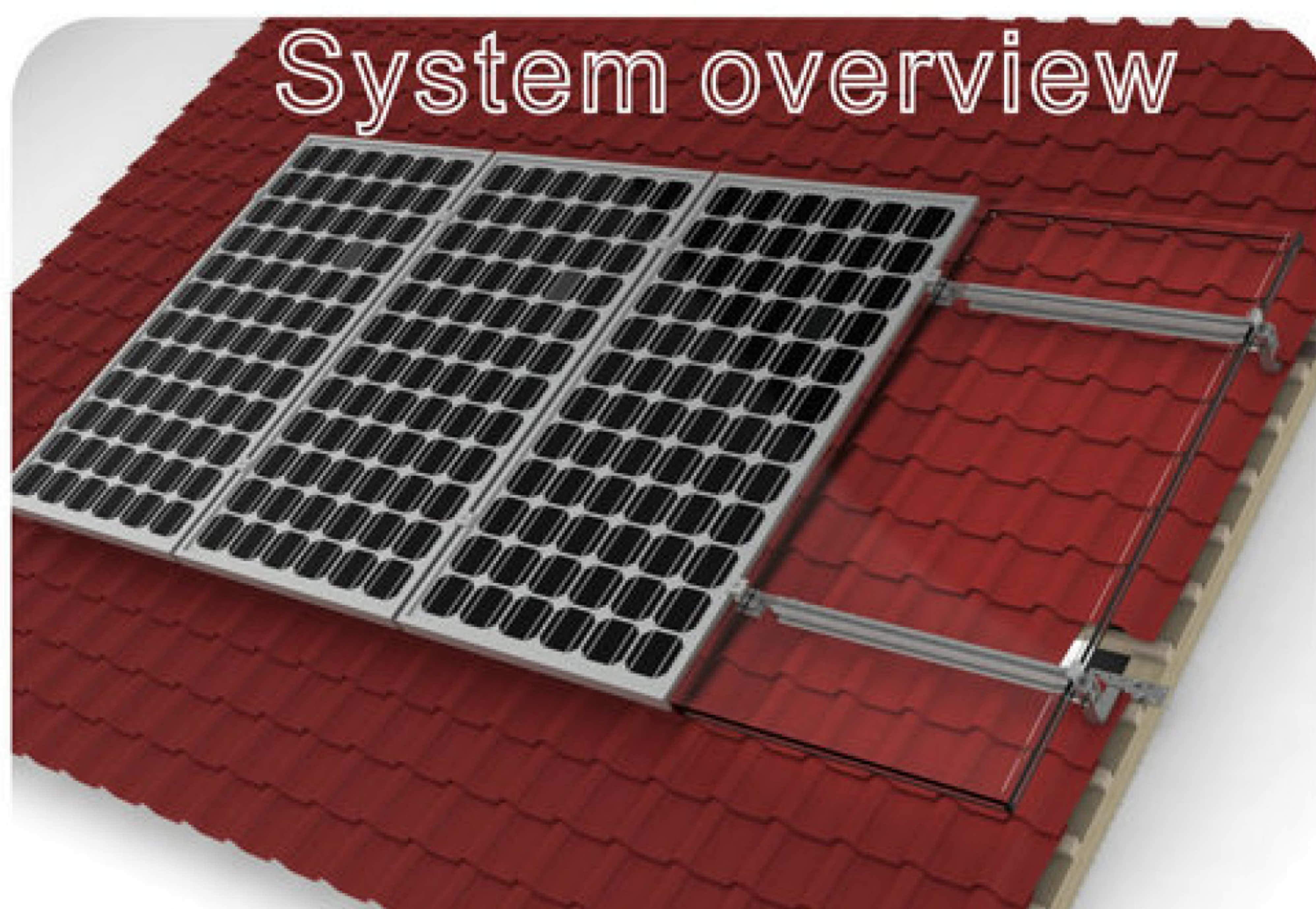
Catalog

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SOLAR
MOUNTING
SYSTEM

*The
Ultimate
of
Solar Power
Technology*



..... Pitch roof system

- ▶ Tile roof system
- ▶ Corrugated metal roof system
- ▶ Adjustable tilt kit system
- ▶ Fixed angle tilt kit system
- ▶ Wave sheet roof system
- ▶ Hanger bolt roof system
- ▶ Trimdeck metal roof system
- ▶ AL adjustable tilt kit & kLiplok system

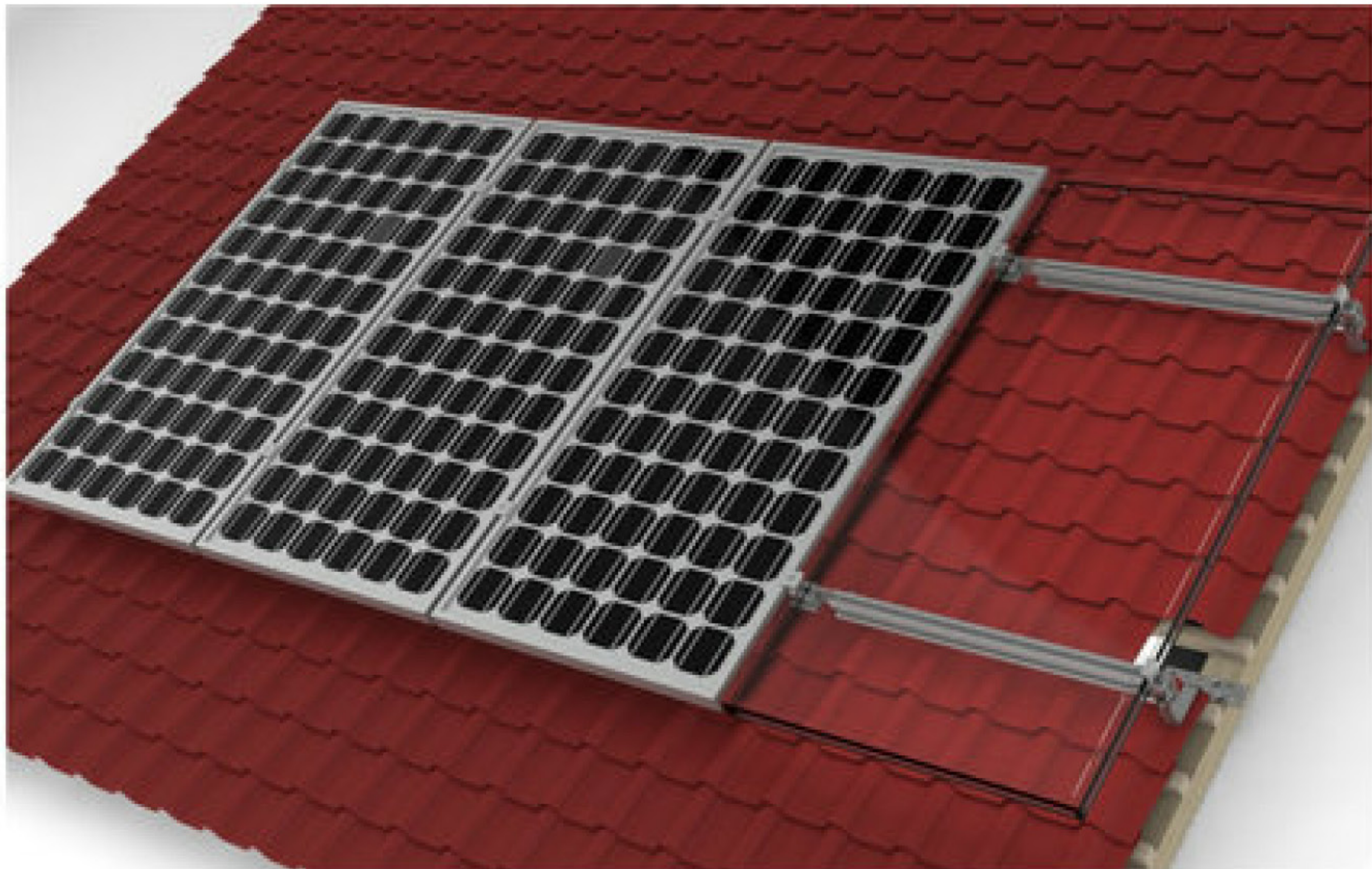
..... Flat roof system

- ▶ Ballast structure I-A
- ▶ Ballast structure I-B
- ▶ Ballast structure II-A
- ▶ Ballast structure II-B
- ▶ Ballast system III
- ▶ AL adjustable triangular system

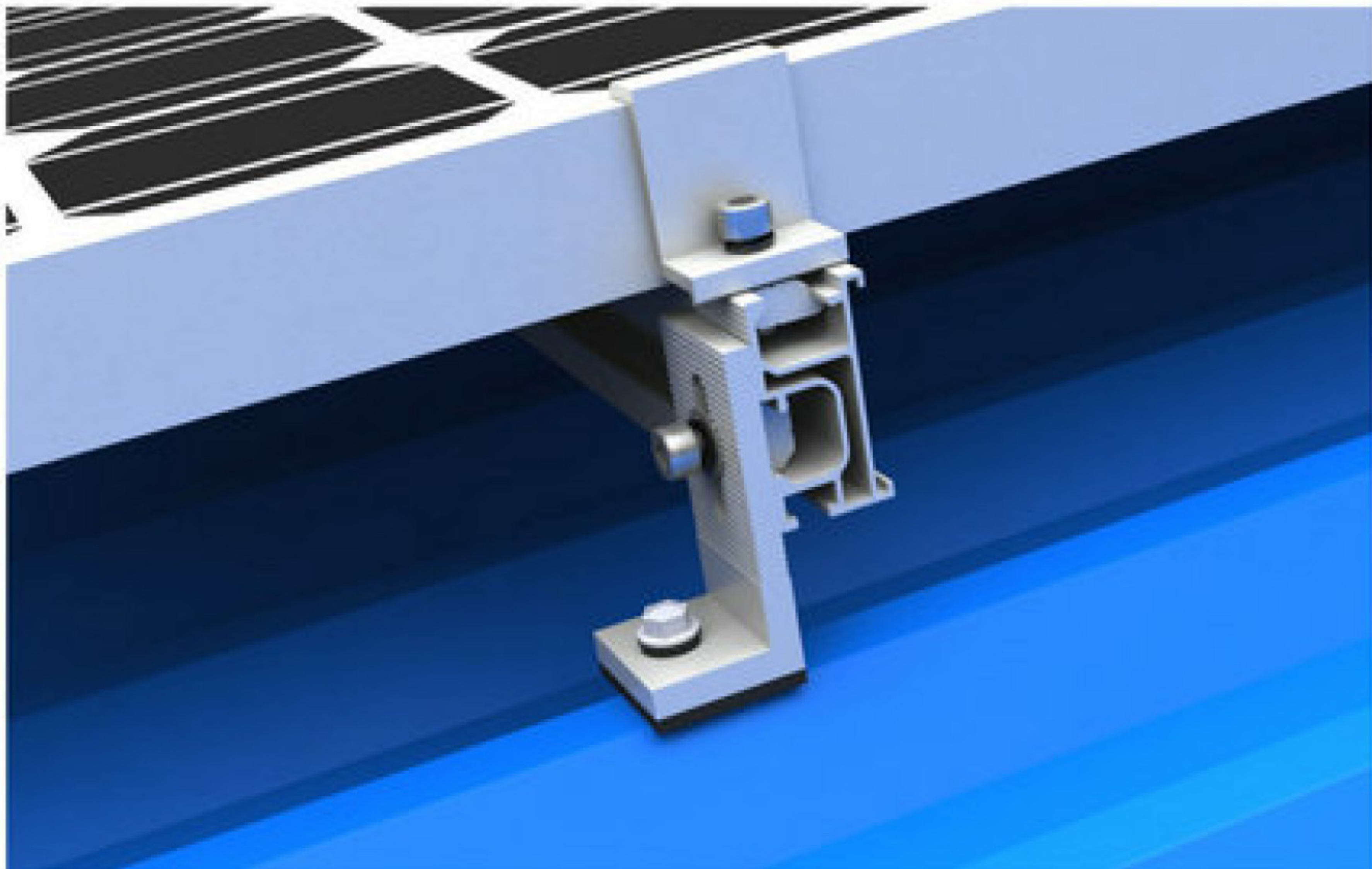
..... Ground system

- ▶ Universal triangular system
- ▶ AL ground mount system
- ▶ V1 ground mount system
- ▶ V2 ground mount system
- ▶ Pole 4 ground mount system
- ▶ Manual angle adjustable mount system
- ▶ Dual-axis tracking system
- ▶ Level single-axis tracking system
Rod-connected
- ▶ Tilt single-axis tracking system
Rod-connected
- ▶ Solar trough tracking system

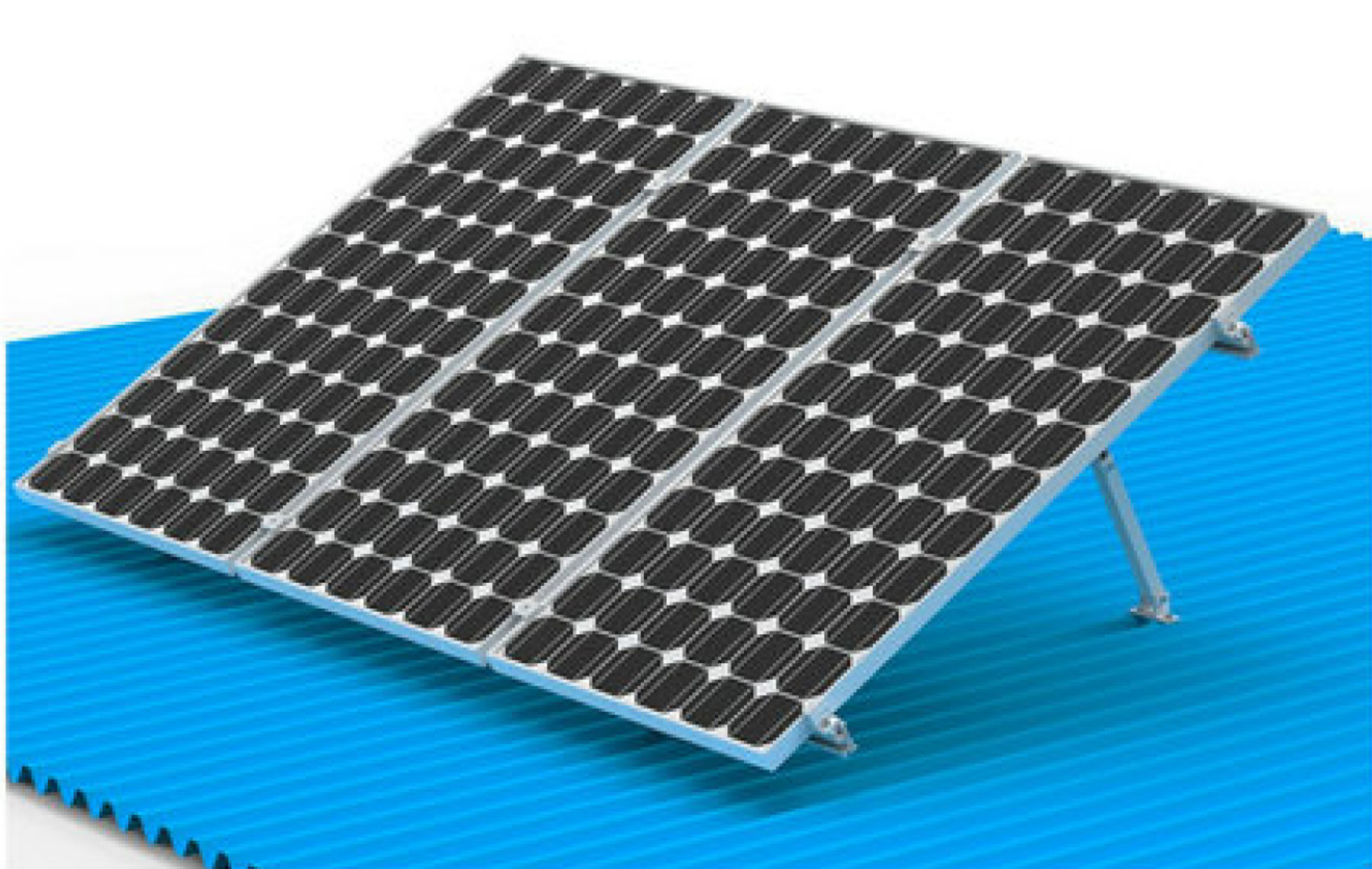
R-1 Tile roof system



R-2 Corrugated metal roof system



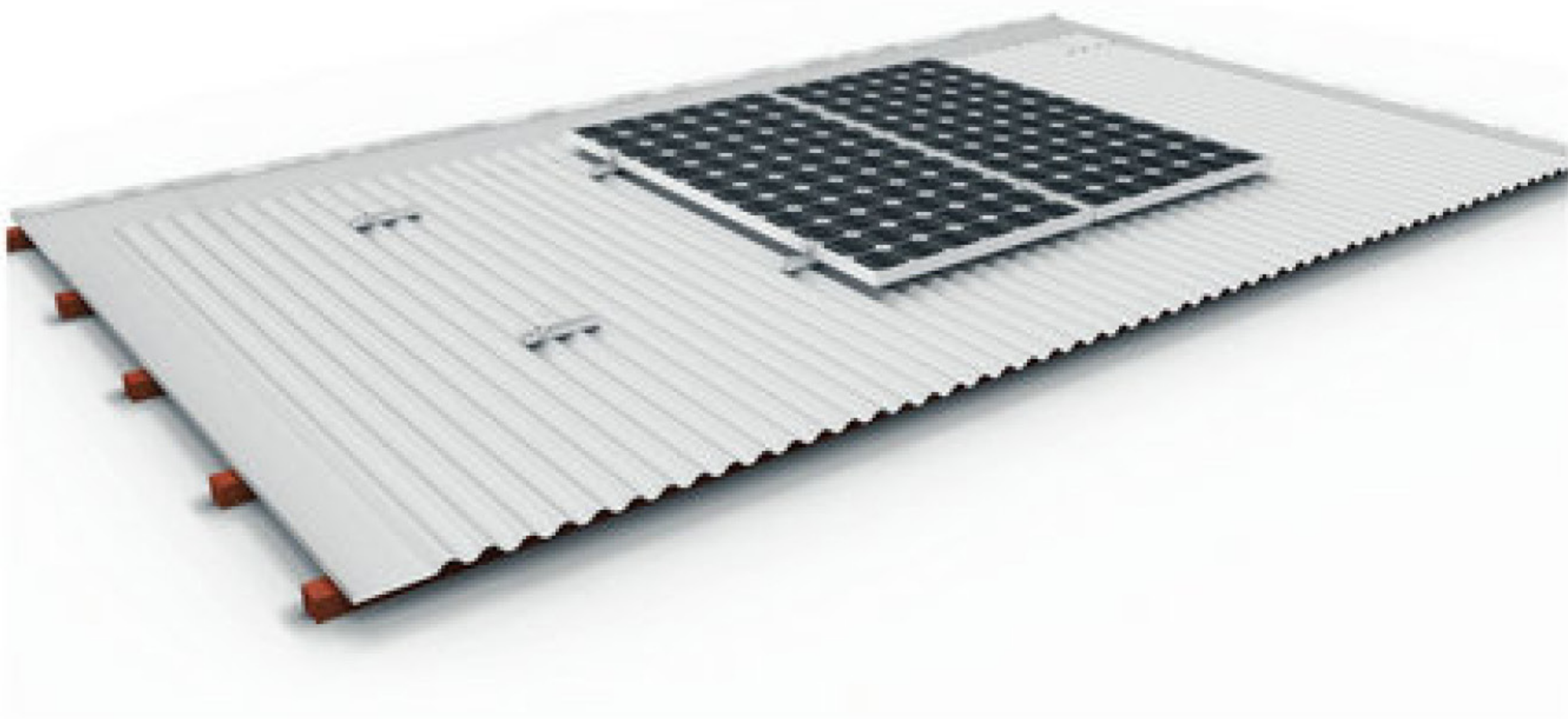
R-3 Adjustable tilt Kit system



R-4 Fixed angle tilt kit system



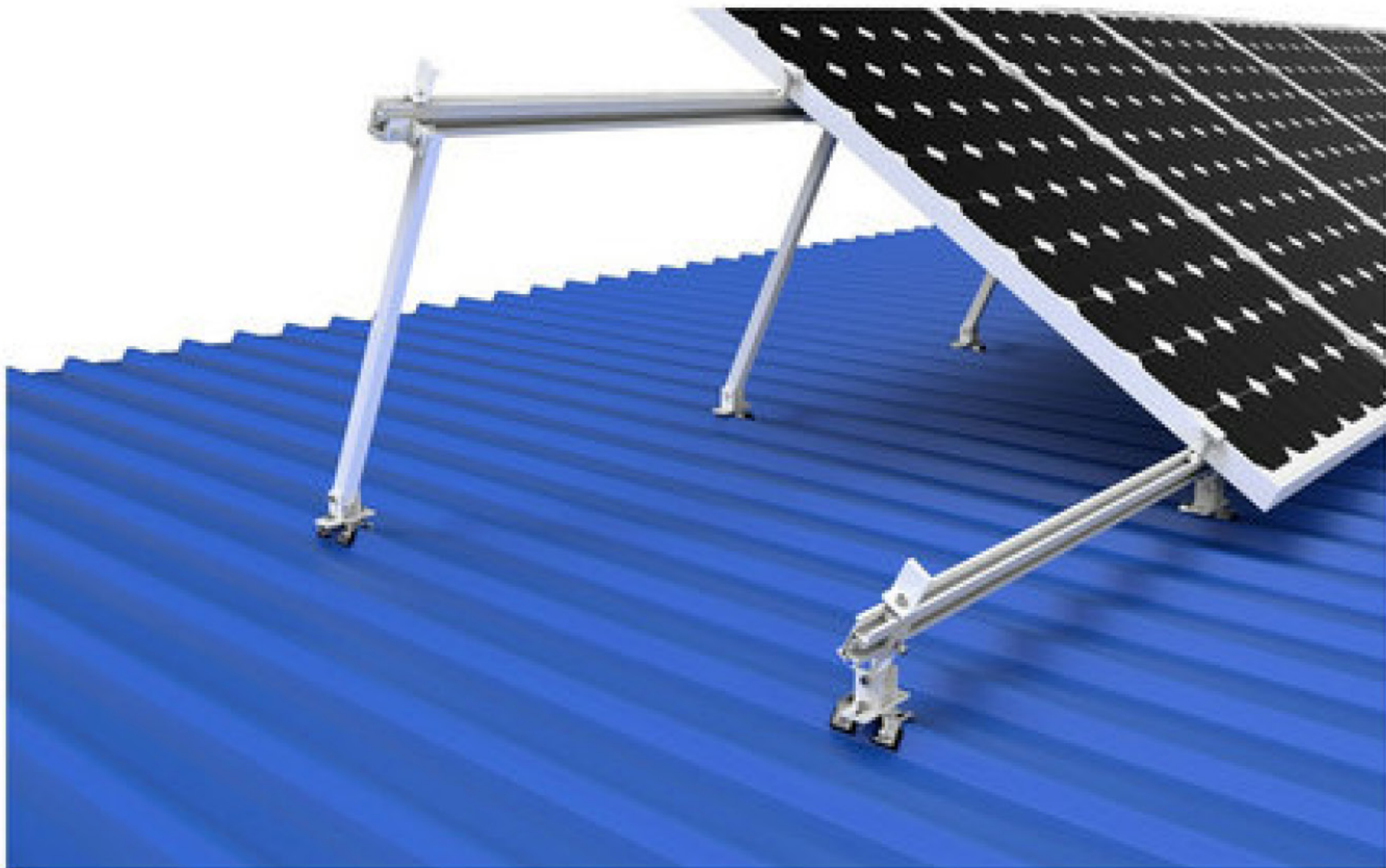
R-5 Wave sheet roof system



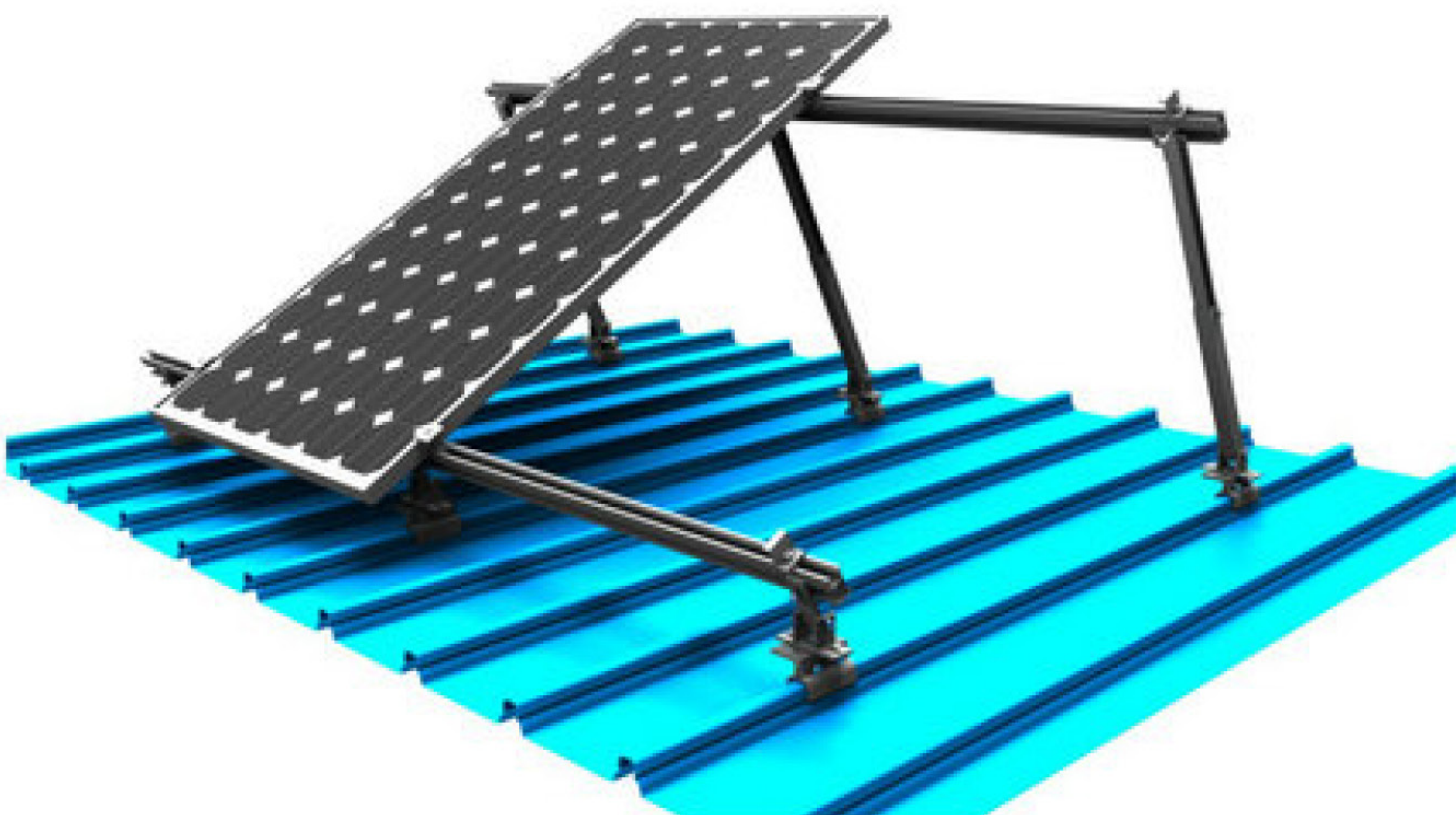
R-6 Hanger bolt roof system



R-7 Trimdeck metal roof system



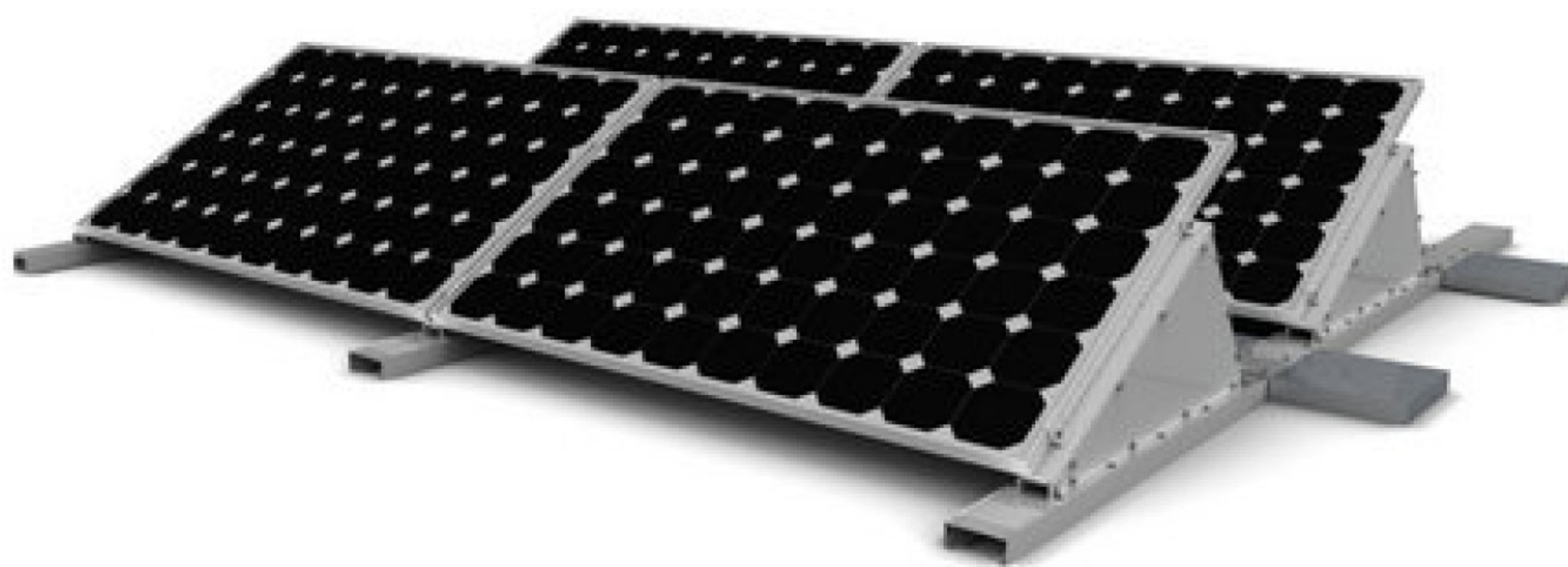
R-8 AL adjustable tilt kit & Kliplok



R-9 Ballast structure I-A



R-10 Ballast structure I-B



R-11 Ballast structure II-A



R-12 Ballast structure II-B



1 FZM-N



2 FZE-N



3 BT



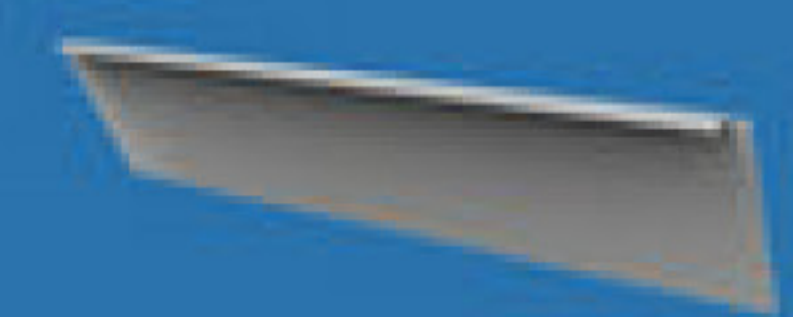
4 BT-R



1 BT



2 BTB



3 BTS



4 BT-BP



5 BT-B



1 BN



2 FZE



3 BTB



1 BN



2 FZE



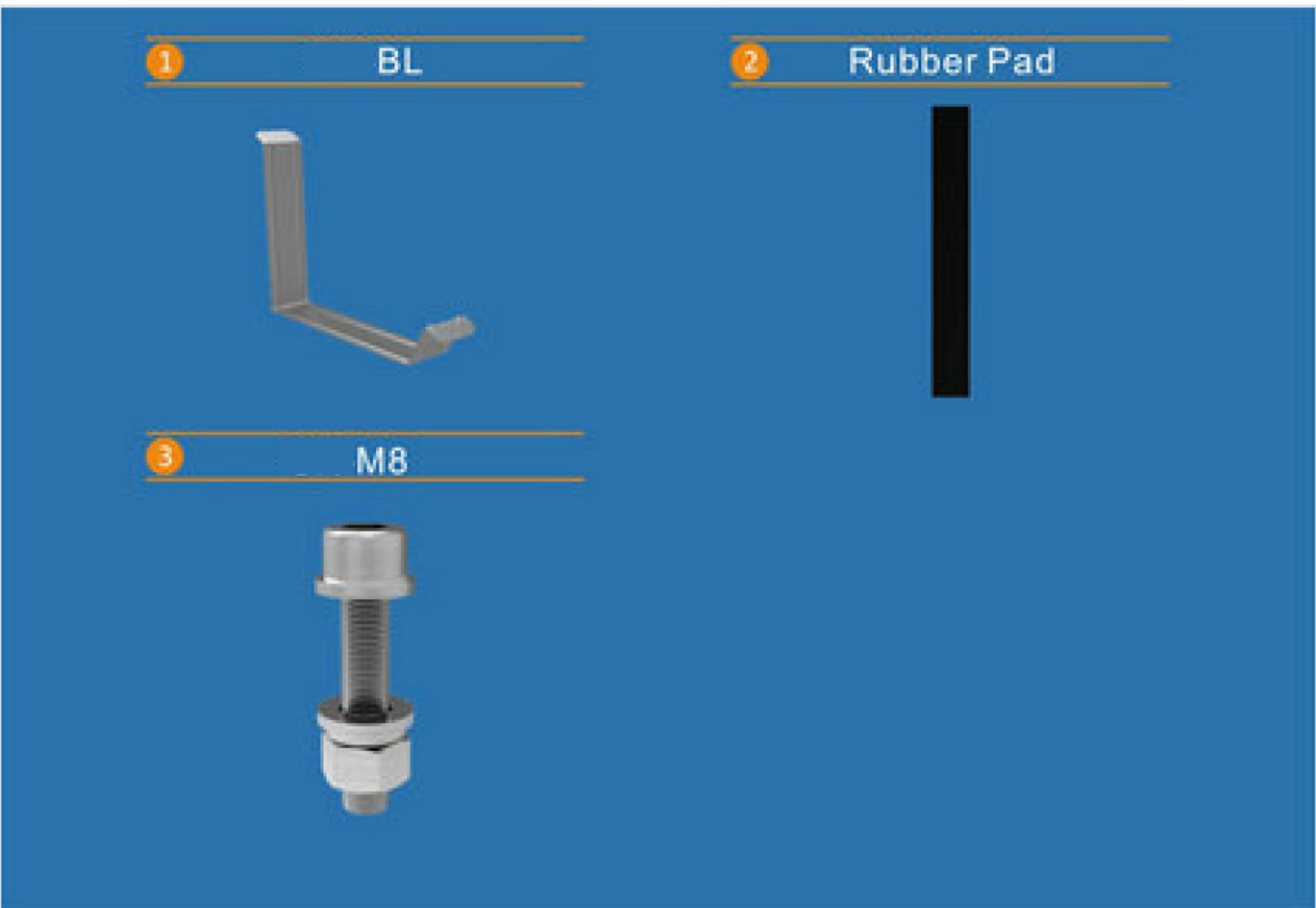
3 BN



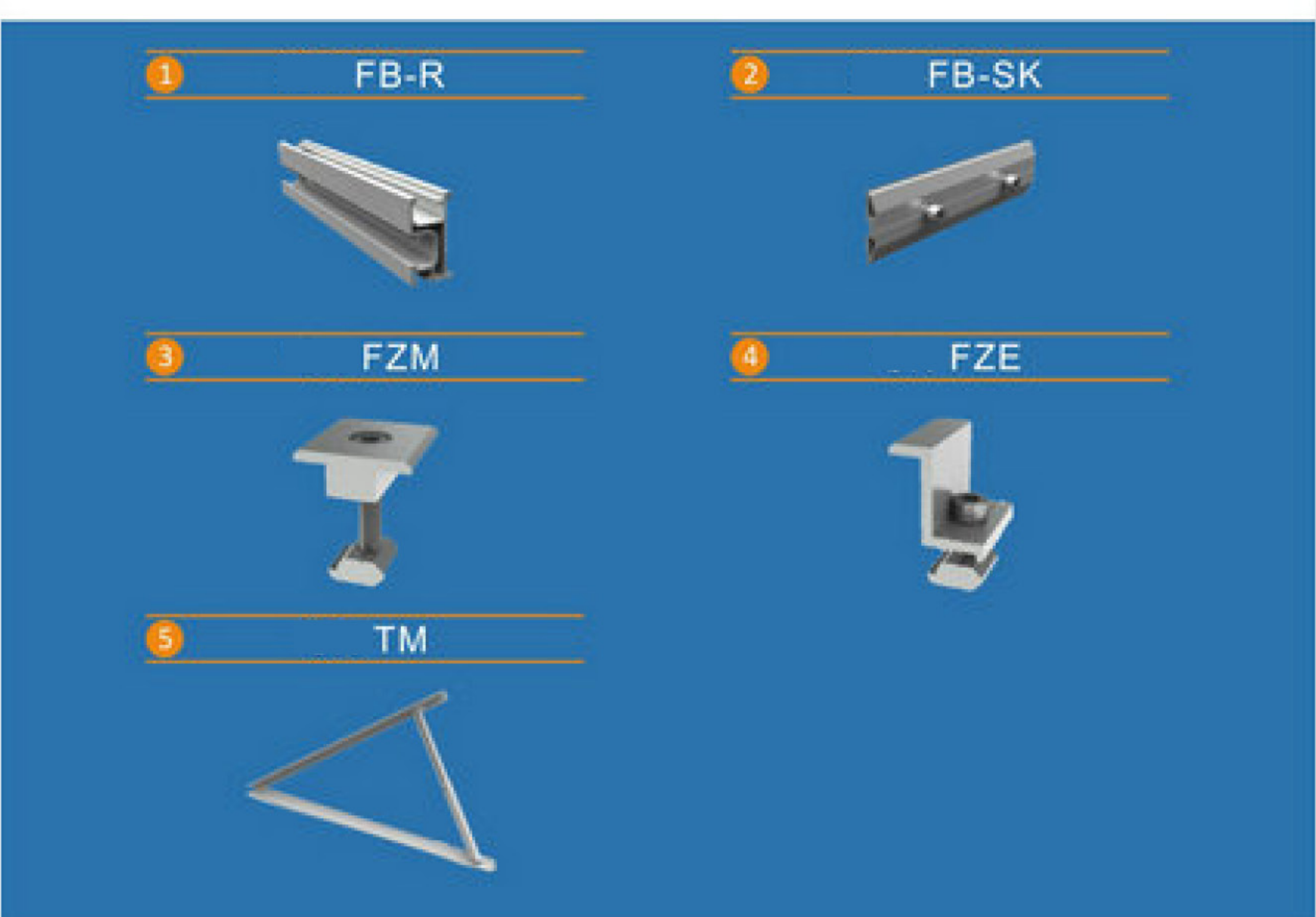
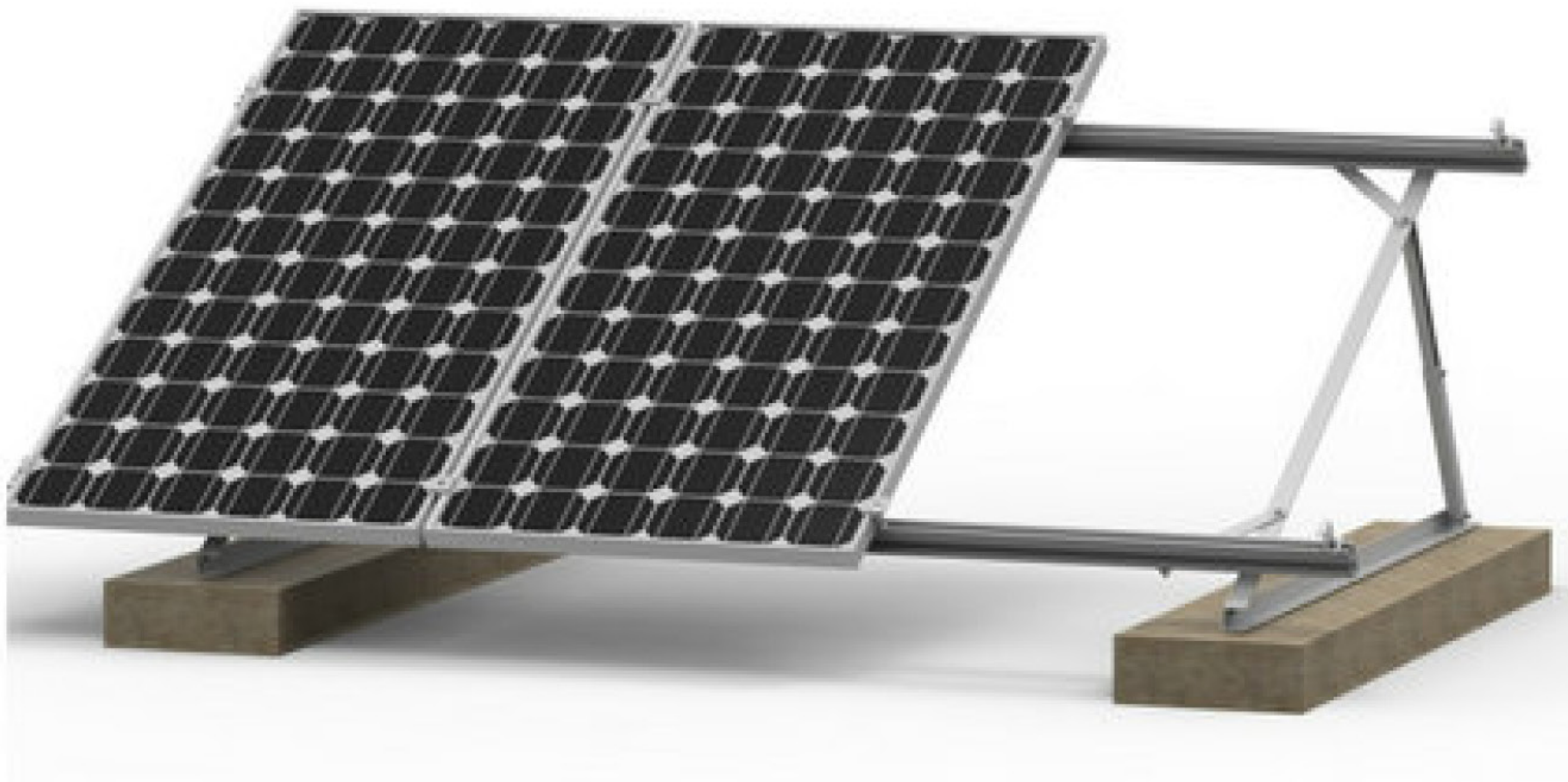
4 BN



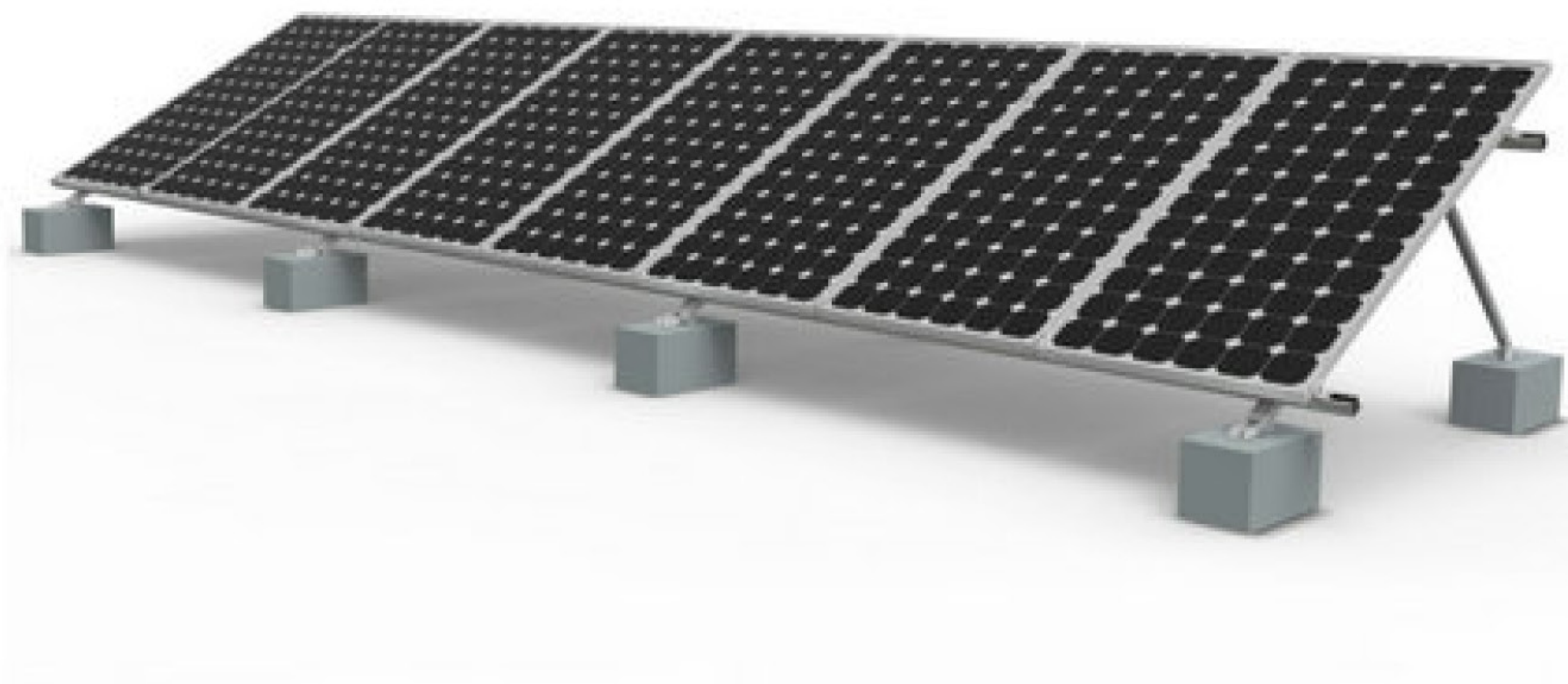
R-13 Ballast structure III



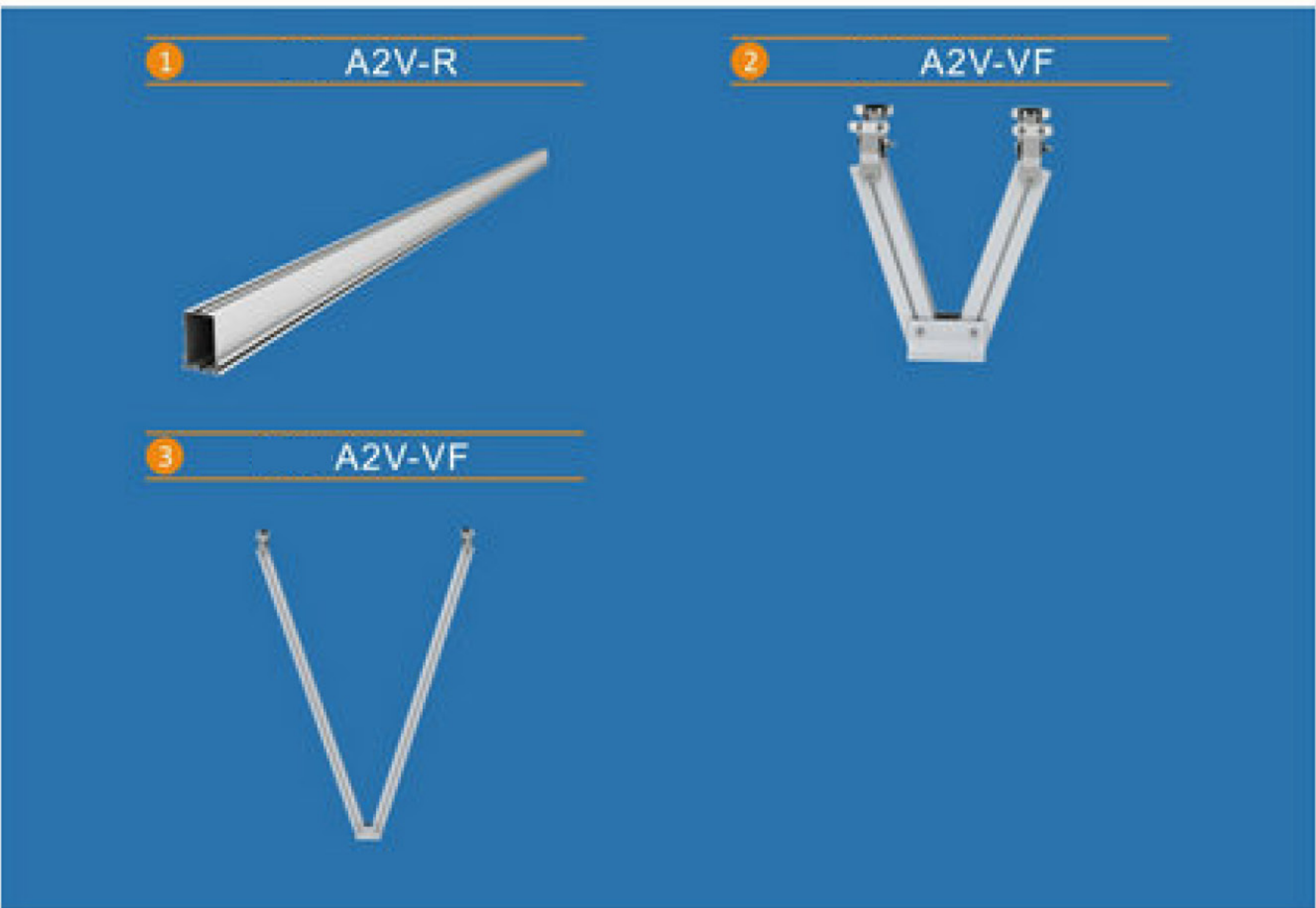
R-14 AL adjustable triangular system



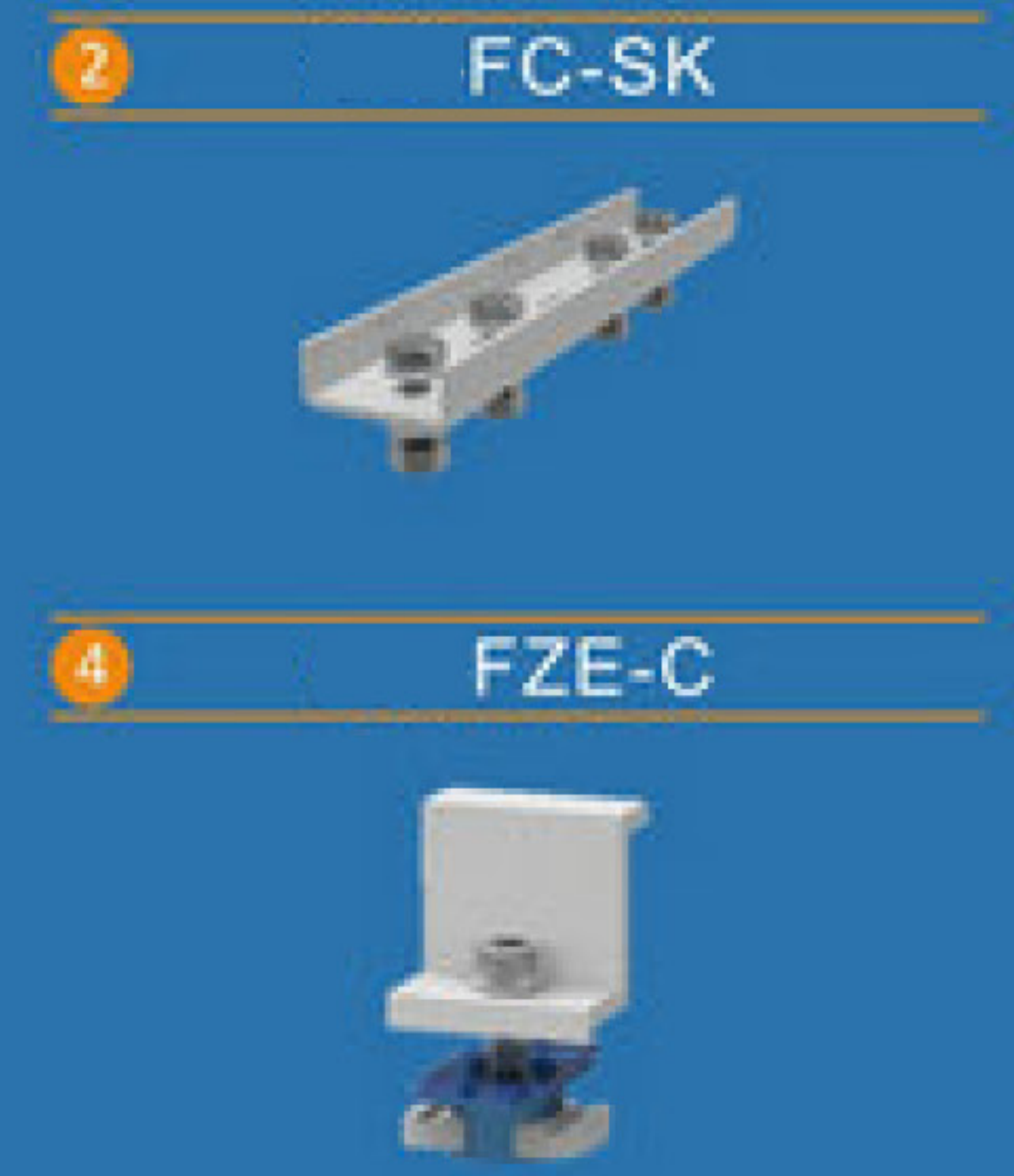
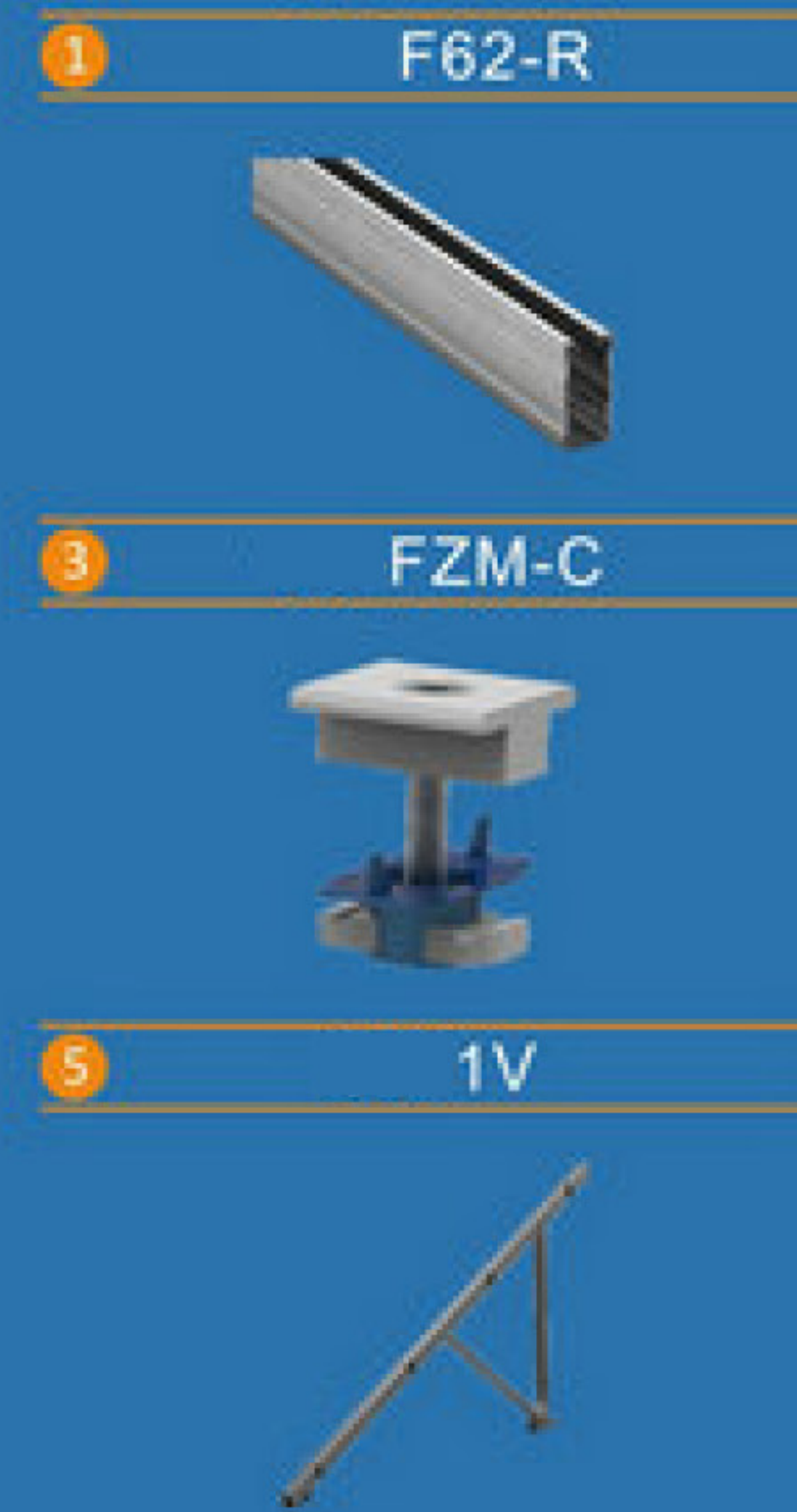
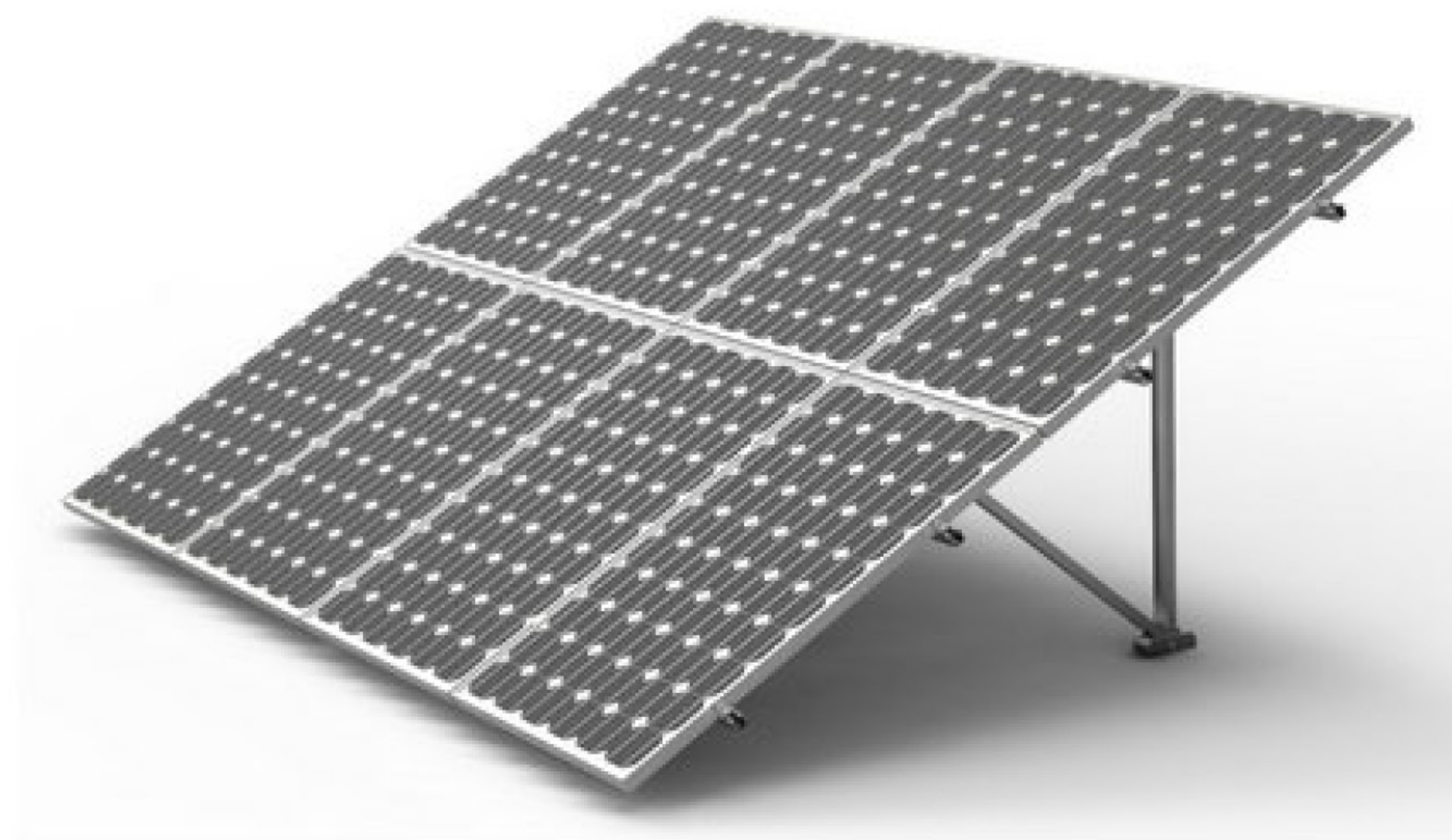
G-1 Universal triangular system



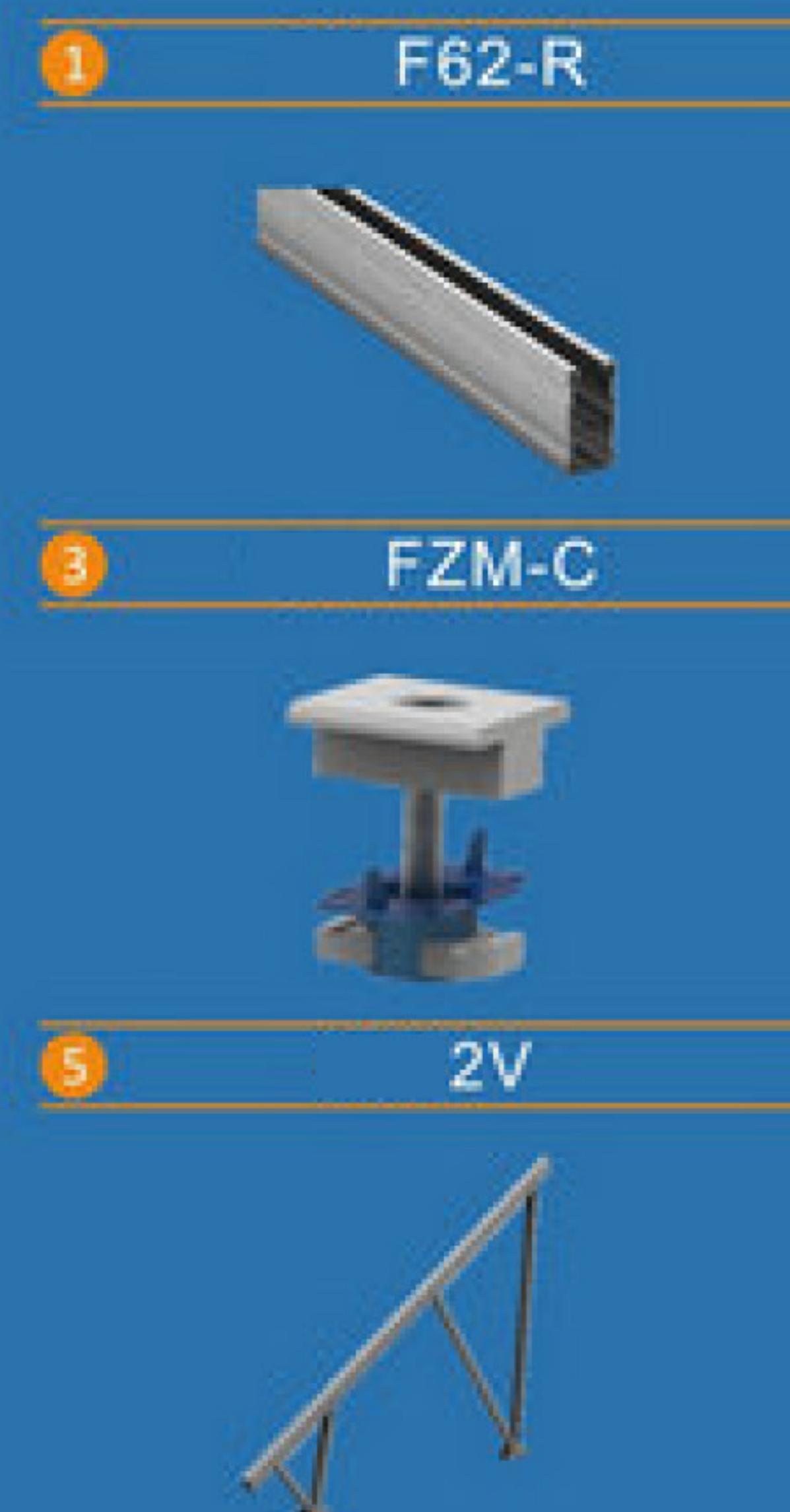
G-2 AL ground mount system



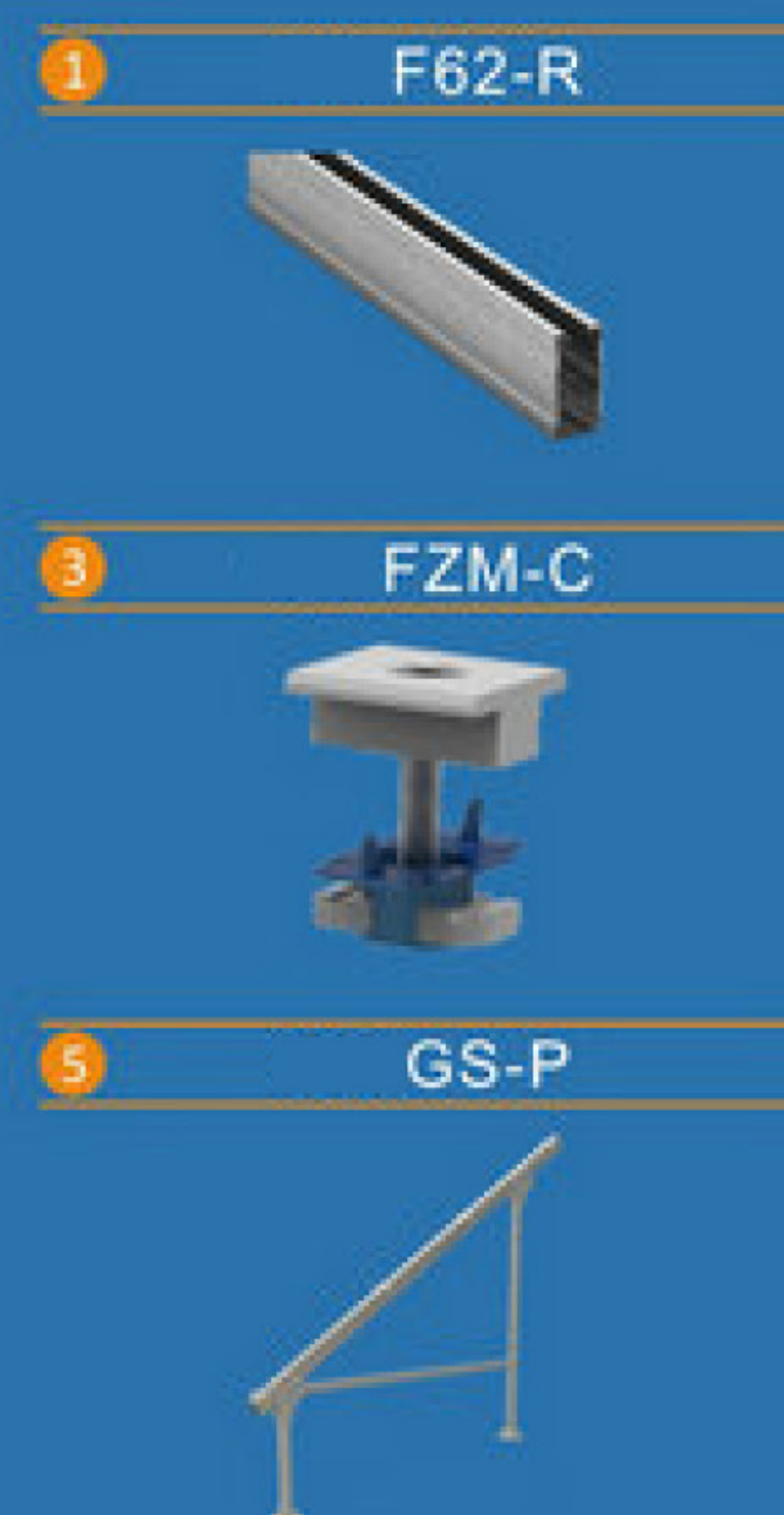
G-3 V1 ground mount system



G-4 V2 ground mount system



G-5 Pole 4 ground mount system



G-6 Manual angle adjustable mount system



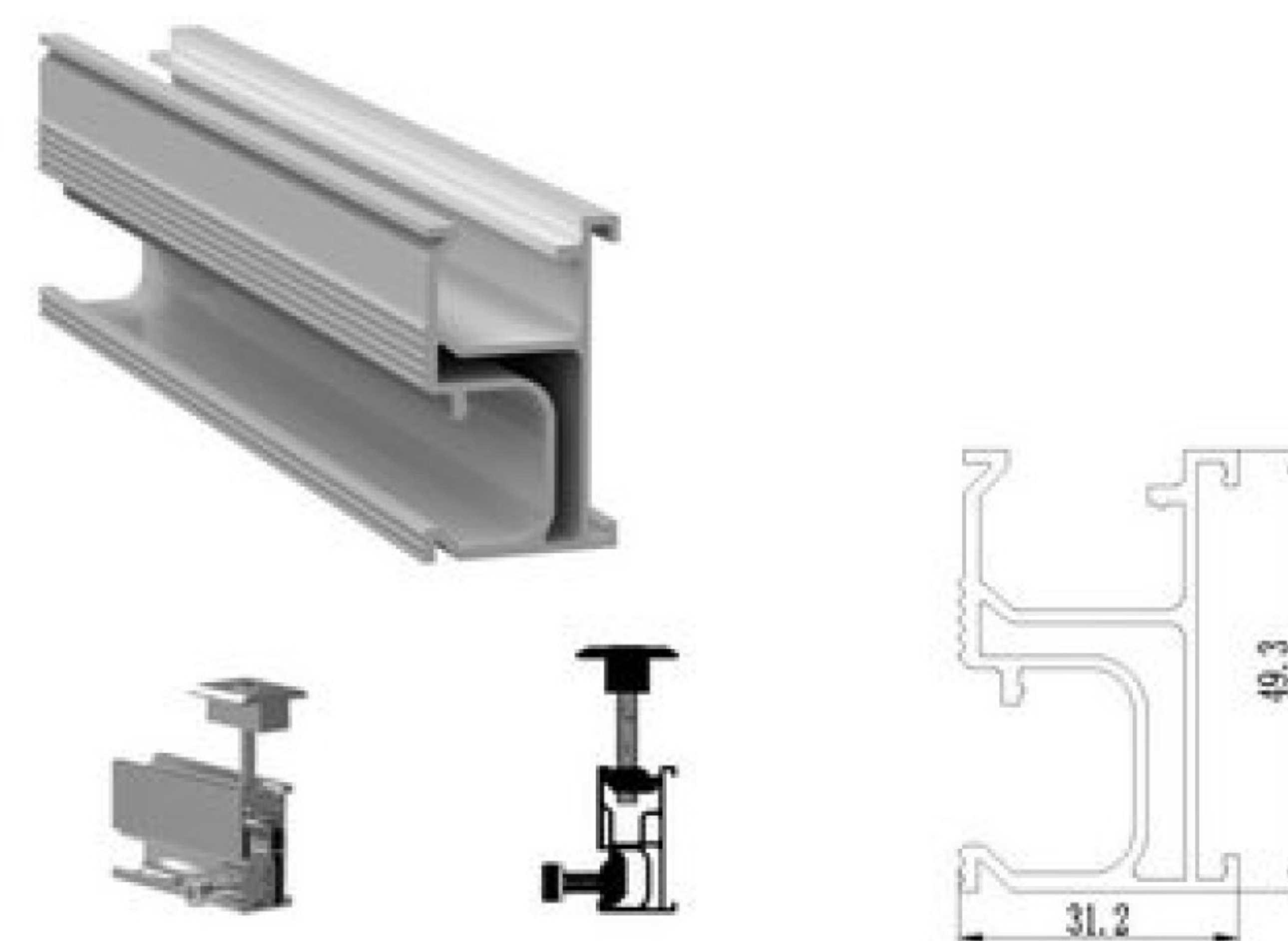
Aluminium components — Rail

B rail aluminium color

- Material AL6005-T5
- Extruded aluminum section
- High class anodized aluminium
- Tilt-in nut easy to install

• **Package 8 PCS/PKG**

FB-R-2560	B rail 2560mm
FB-R-3200	B rail 3200mm
FB-R-3405	B rail 3405mm
FB-R-4200	B rail 4200mm



B rail black

- Material AL6005-T5
- Extruded aluminum section
- High class anodized aluminium
- Tilt-in nut easy to install

• **Package 8 PCS/PKG**

FB-R-B2560	B rail 2560mm
FB-R-B3200	B rail 3200mm
FB-R-B3405	B rail 3405mm
FB-R-B4200	B rail 4200mm



Standard rail aluminium color

- Material AL6005-T5
- Extruded aluminum section
- High class anodized aluminium
- Tilt-in nut easy to install

• **Package 8 PCS/PKG**

FZ-R-2560	Standard rail 2560mm
FZ-R-3200	Standard rail 3200mm
FZ-R-3405	Standard rail 3405mm
FZ-R-4200	Standard rail 4200mm



Standard rail black

- Material AL6005-T5
- Extruded aluminum section
- High class anodized aluminium
- Tilt-in nut easy to install

• **Package 8 PCS/PKG**

FZ-R-B2560	Standard rail 2560mm
FZ-R-B3200	Standard rail 3200mm
FZ-R-B3405	Standard rail 3405mm
FZ-R-B4200	Standard rail 4200mm



Aluminium components — Splice kit

B rail splice kit

- Material AL6005-T5 & SUS304 bolt
- High class anodized aluminium

• **Package 200 PCS/CTN**

FB-SK For connecting 2 pieces of FB rail



Standard rail splice kit

- Material AL6005-T5 & SUS304 bolt
- High class anodized aluminium

Package 160 PCS/CTN

FZ-SK For connecting 2 pieces of FZ rail

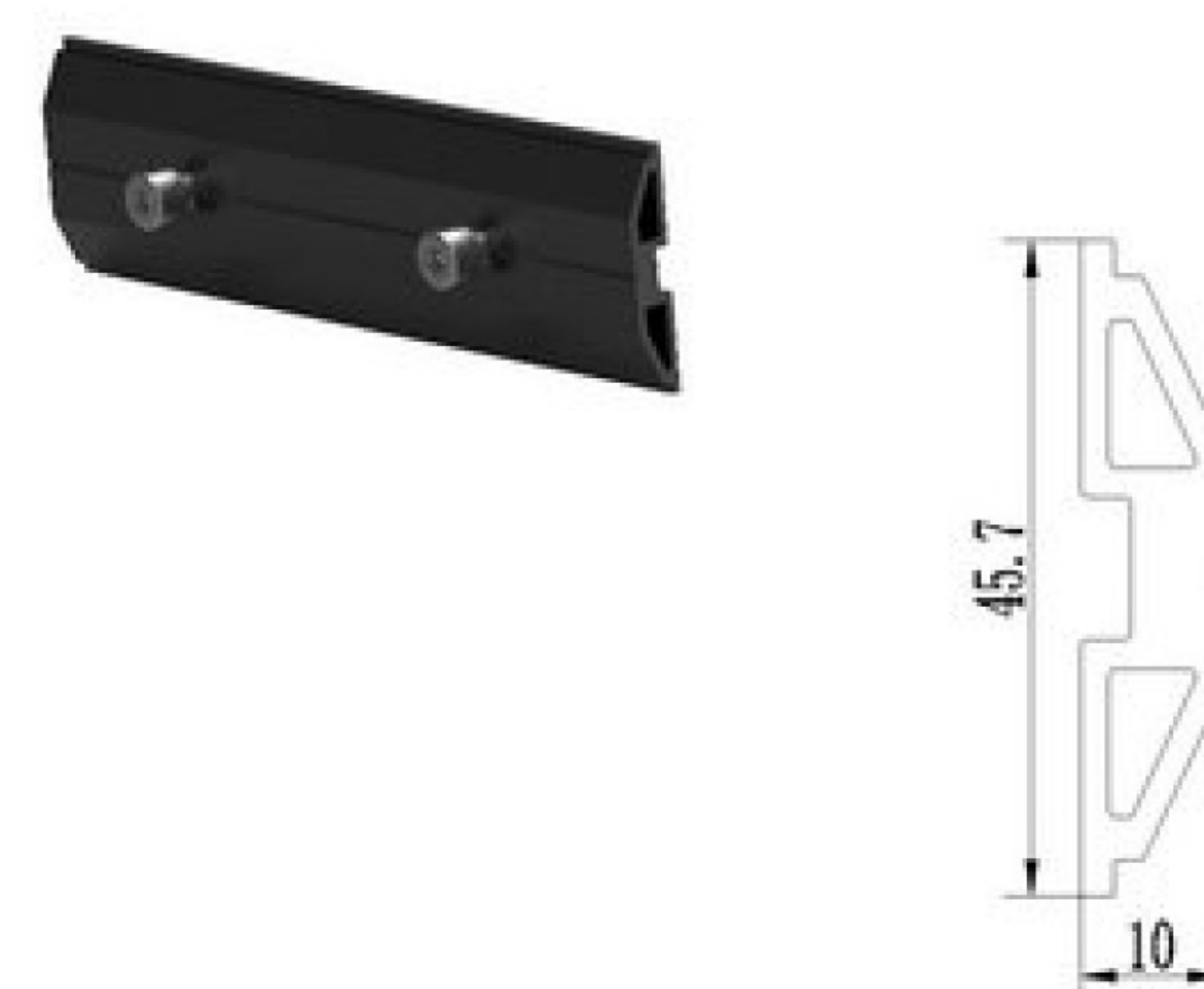


B rail black splice kit

- Material AL6005-T5 & SUS304 bolt
- High class anodized aluminium

Package 200 PCS/CTN

FB-BSK For connecting 2 pieces of FB rail



Standard black rail splice kit

- Material AL6005-T5 & SUS304 bolt
- High class anodized aluminium

Package 160 PCS/CTN

FZ-BSK For connecting 2 pieces of FZ rail

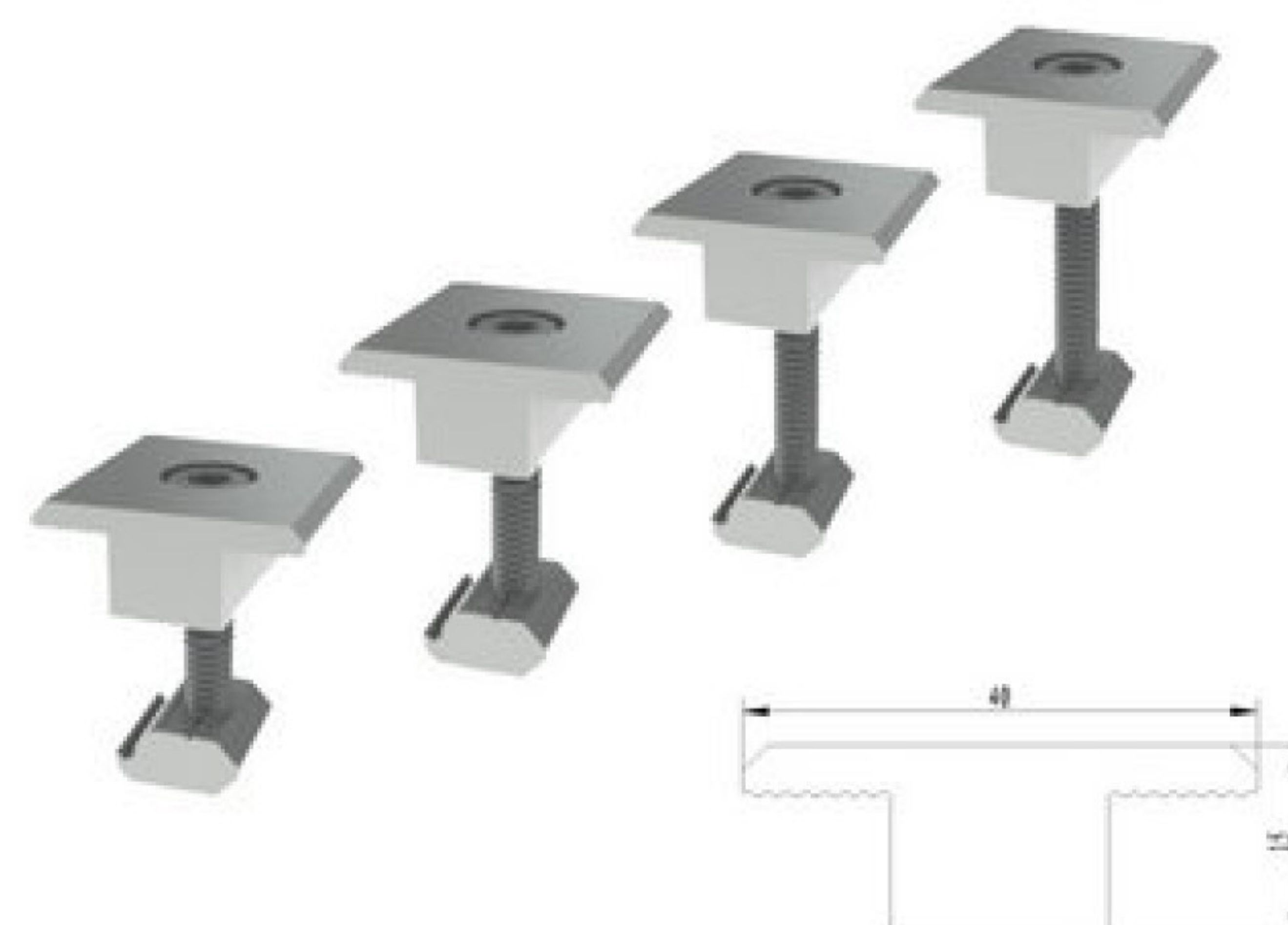


Aluminium components — Clamps

Standard mid clamp

- Material AL6005-T5 & SUS304 bolt
- High class anodized aluminium
- Tilt –in nut easy to install
- **Package 400 PCS/CTN**

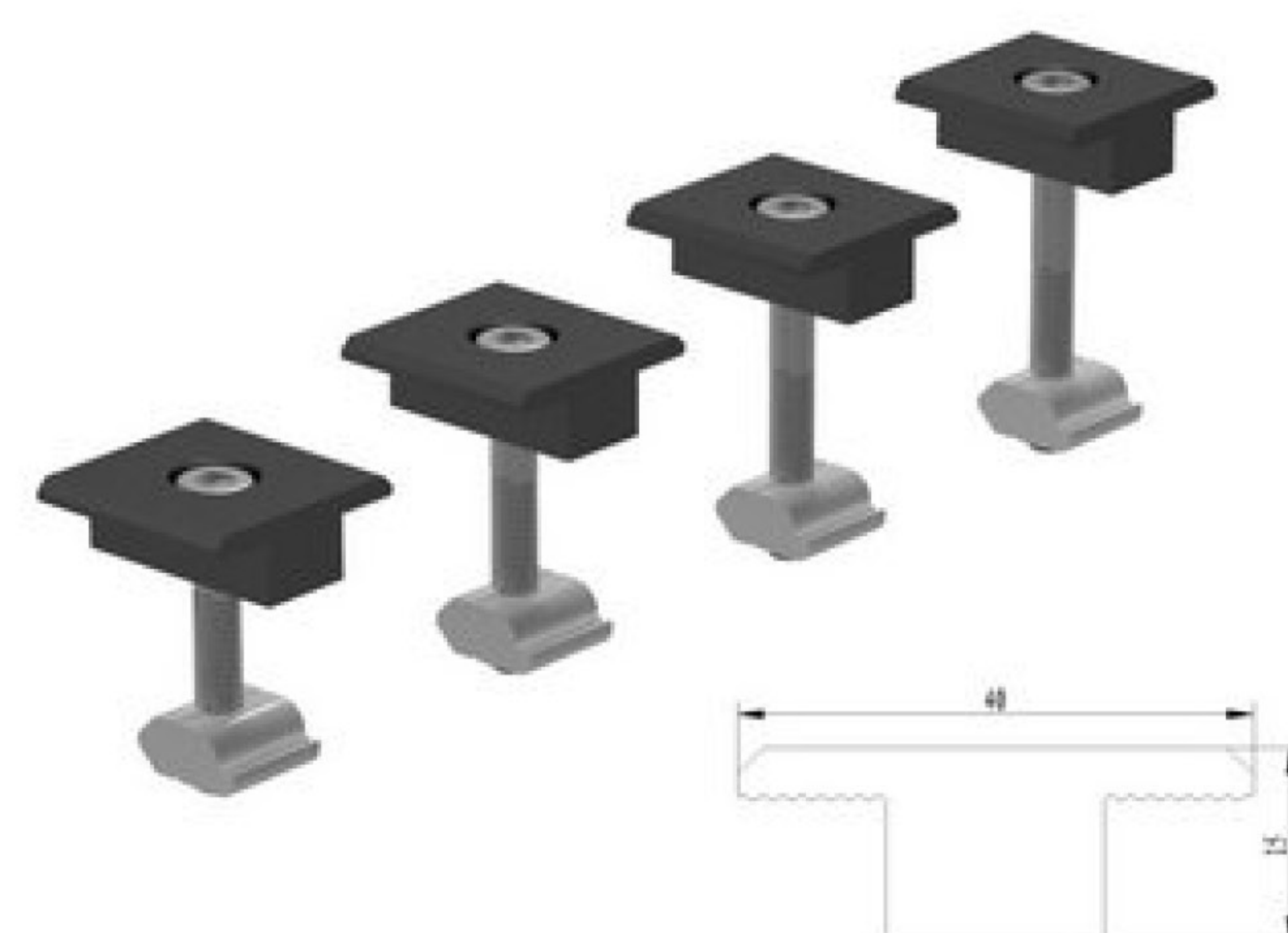
FZM-35	Fix 35mm solar panel frame
FZM-38	Fix 38mm solar panel frame
FZM-40	Fix 40mm solar panel frame
FZM-45	Fix 45mm solar panel frame
FZM-50	Fix 50mm solar panel frame



Standard black mid clamp

- Material AL6005-T5 & SUS304 bolt
- High class anodized aluminium
- Tilt –in nut easy to install
- **Package 400 PCS/CTN**

FZM-B35	Fix 35mm solar panel frame
FZM-B38	Fix 38mm solar panel frame
FZM-B40	Fix 40mm solar panel frame
FZM-B45	Fix 45mm solar panel frame
FZM-B50	Fix 50mm solar panel frame



Standard end clamp

- Material AL6005-T5 & SUS304 bolt
- High class anodized aluminium
- Tilt –in nut easy to install
- **Package 400 PCS/CTN**

FZE-35	Fix 35mm solar panel frame
FZE-38	Fix 38mm solar panel frame
FZE-40	Fix 40mm solar panel frame
FZE-45	Fix 45mm solar panel frame
FZE-50	Fix 50mm solar panel frame



Standard black end clamp

- Material AL6005-T5 & SUS304 bolt
- High class anodized aluminium
- Tilt –in nut easy to install
- **Package 400 PCS/CTN**

FZE-B35	Fix 35mm solar panel frame
FZE-B38	Fix 38mm solar panel frame
FZE-B40	Fix 40mm solar panel frame
FZE-B45	Fix 45mm solar panel frame
FZE-B50	Fix 50mm solar panel frame

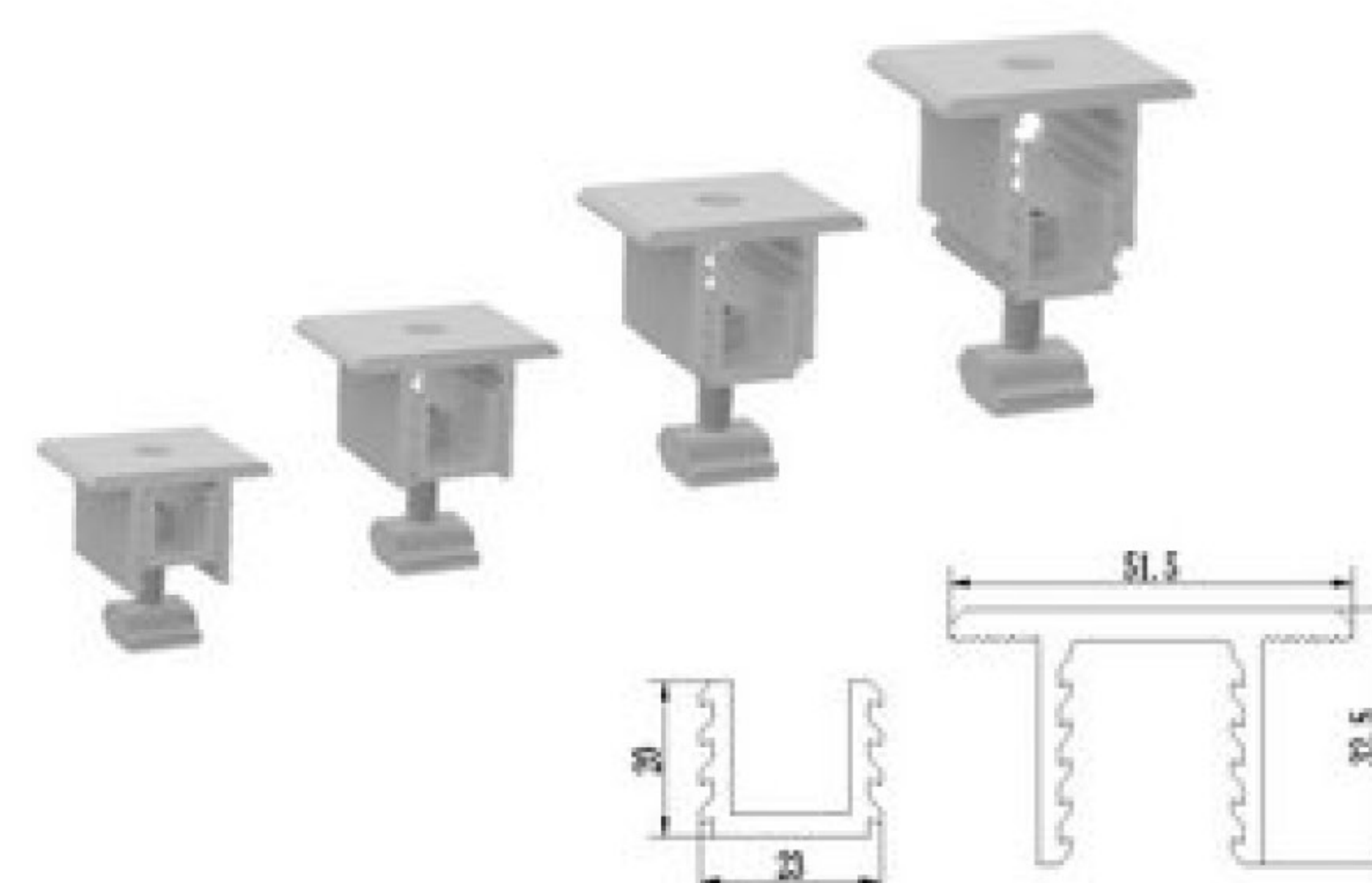


Aluminium components — Clamps

Adjustable mid clamp 30mm-42mm

- Material AL6005-T5 & SUS304 bolt
- High class anodized aluminium
- Tilt-in nut easy to install
- **Package 280 PCS/CTN**

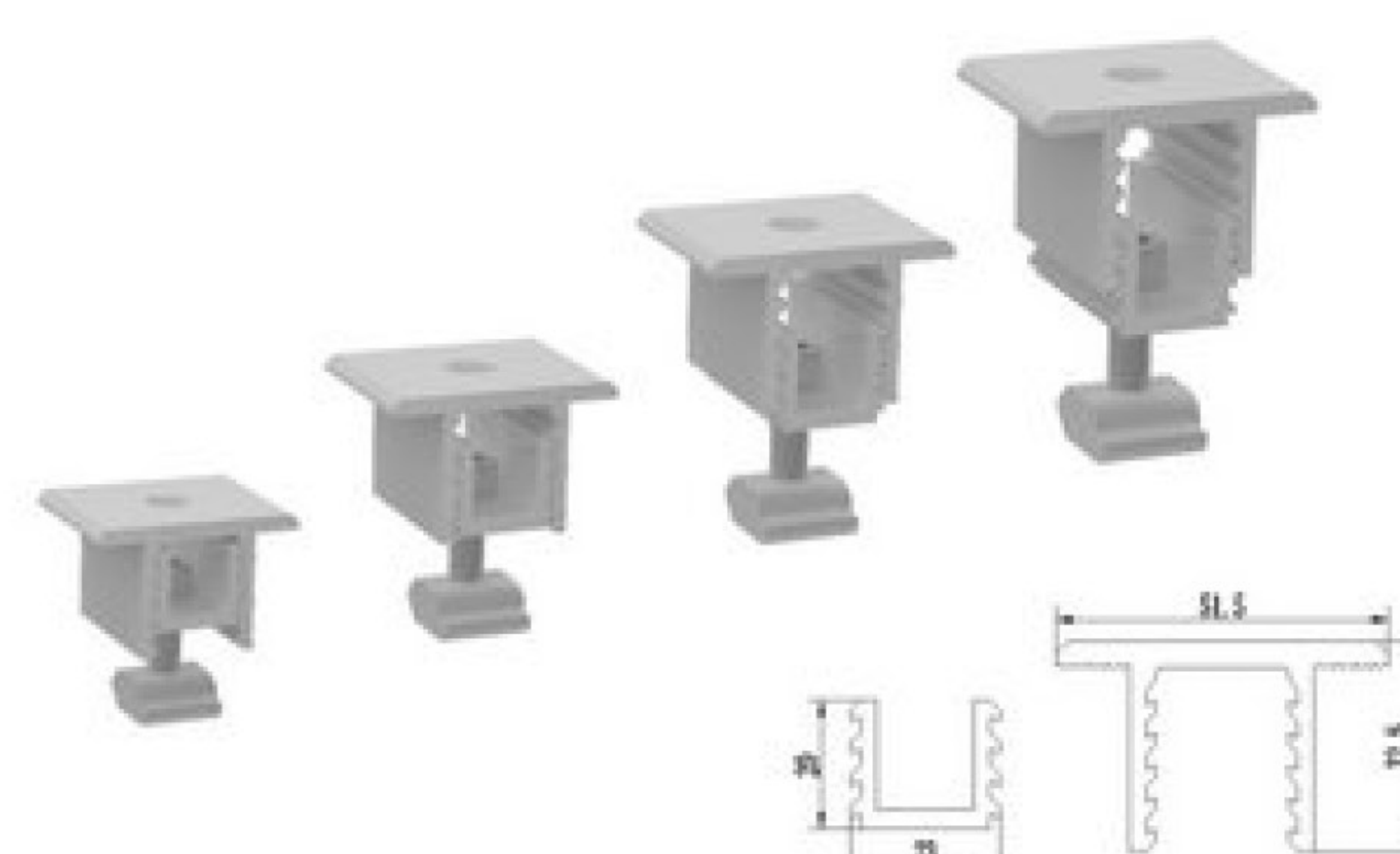
FZ-AM3042 Fix 30/34/38/42mm solar panel frame



Adjustable mid clamp 35mm-50mm

- Material AL6005-T5 & SUS304 bolt
- High class anodized aluminium
- Tilt-in nut easy to install
- **Package 280 PCS/CTN**

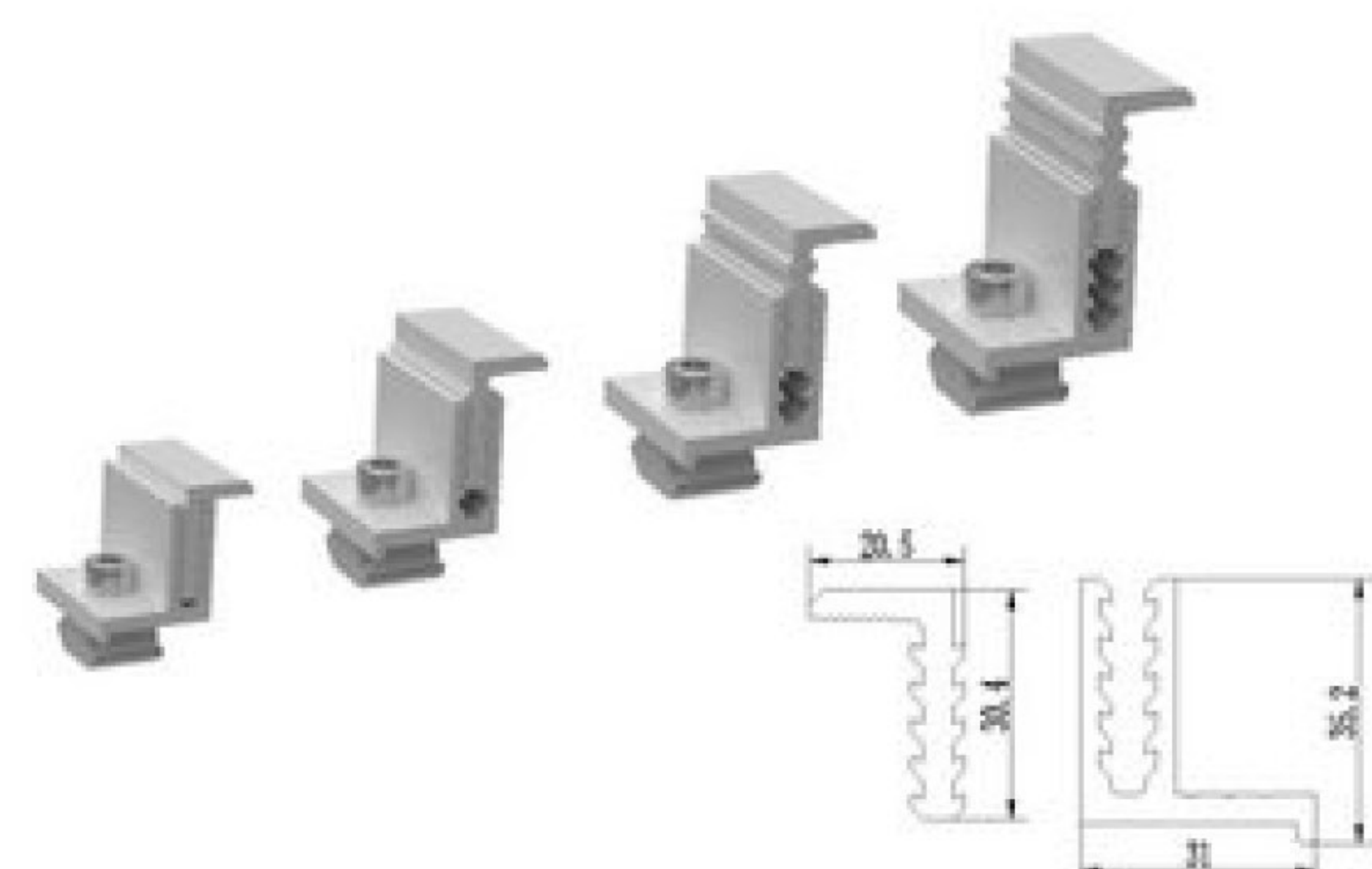
FZ-AM3550 Fix 35/40/45/50mm solar panel frame



Adjustable end clamp 30mm-42mm

- Material AL6005-T5 & SUS304 bolt
- High class anodized aluminium
- Tilt-in nut easy to install
- **Package 320 PCS/CTN**

FZ-AE3042 Fix 30/34/38/42mm solar panel frame



Adjustable end clamp 35mm-50mm

- Material AL6005-T5 & SUS304 bolt
- High class anodized aluminium
- Tilt-in nut easy to install
- **Package 320 PCS/CTN**

FZ-AE3550 Fix 35/40/45/50mm solar panel frame



Installation



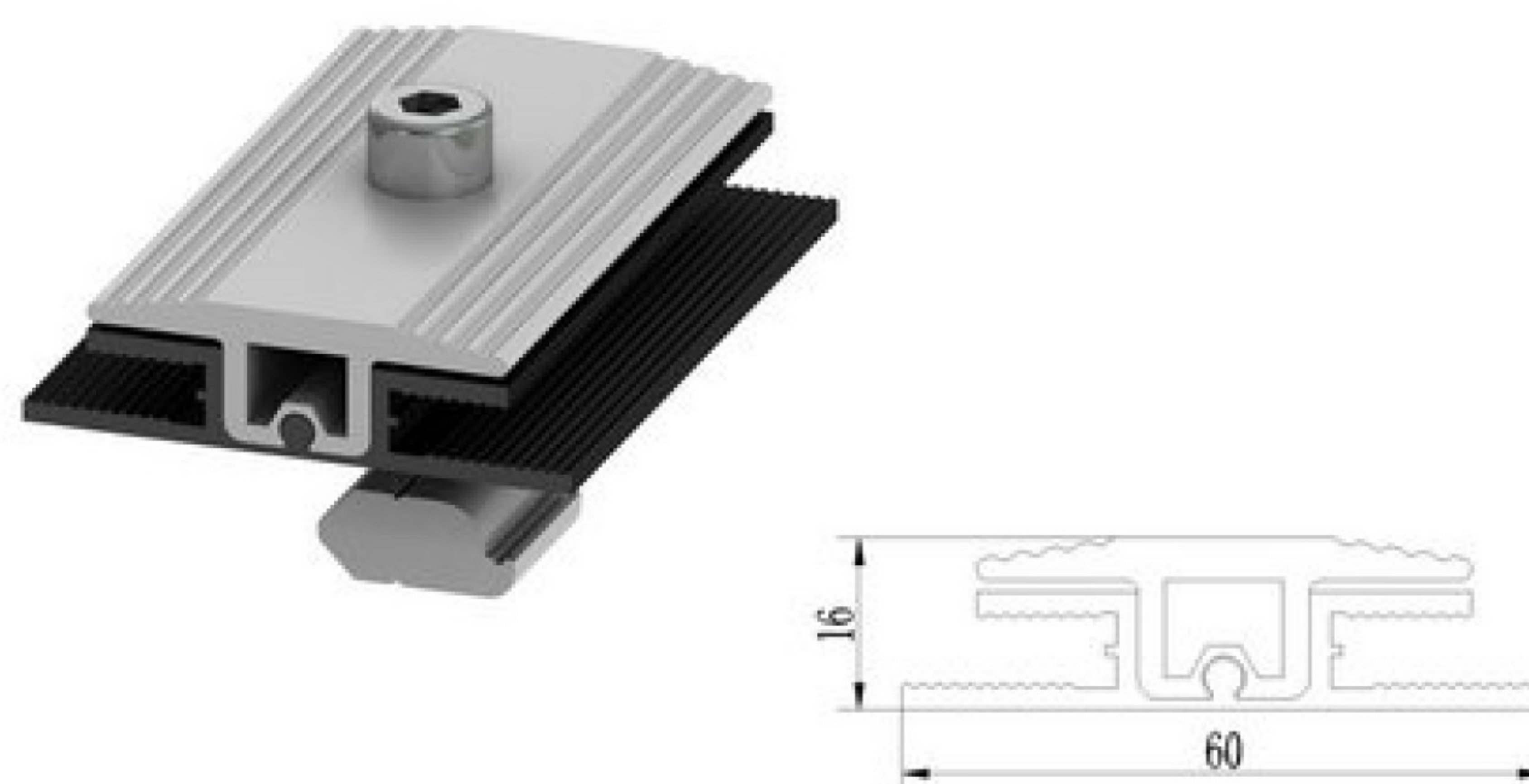
Aluminium components — Clamps

Standard thin film clamp

- Material AL 6005-T5 and SUS304 bolt
- High class anodized aluminium
- Tilt-in nut easy to install
- High quality EPDM rubber pad allowed for thin film module 7mm - 9 mm
- **Package 200 PCS/CTN**

LZ-M1

Standard thin film mid clamp I

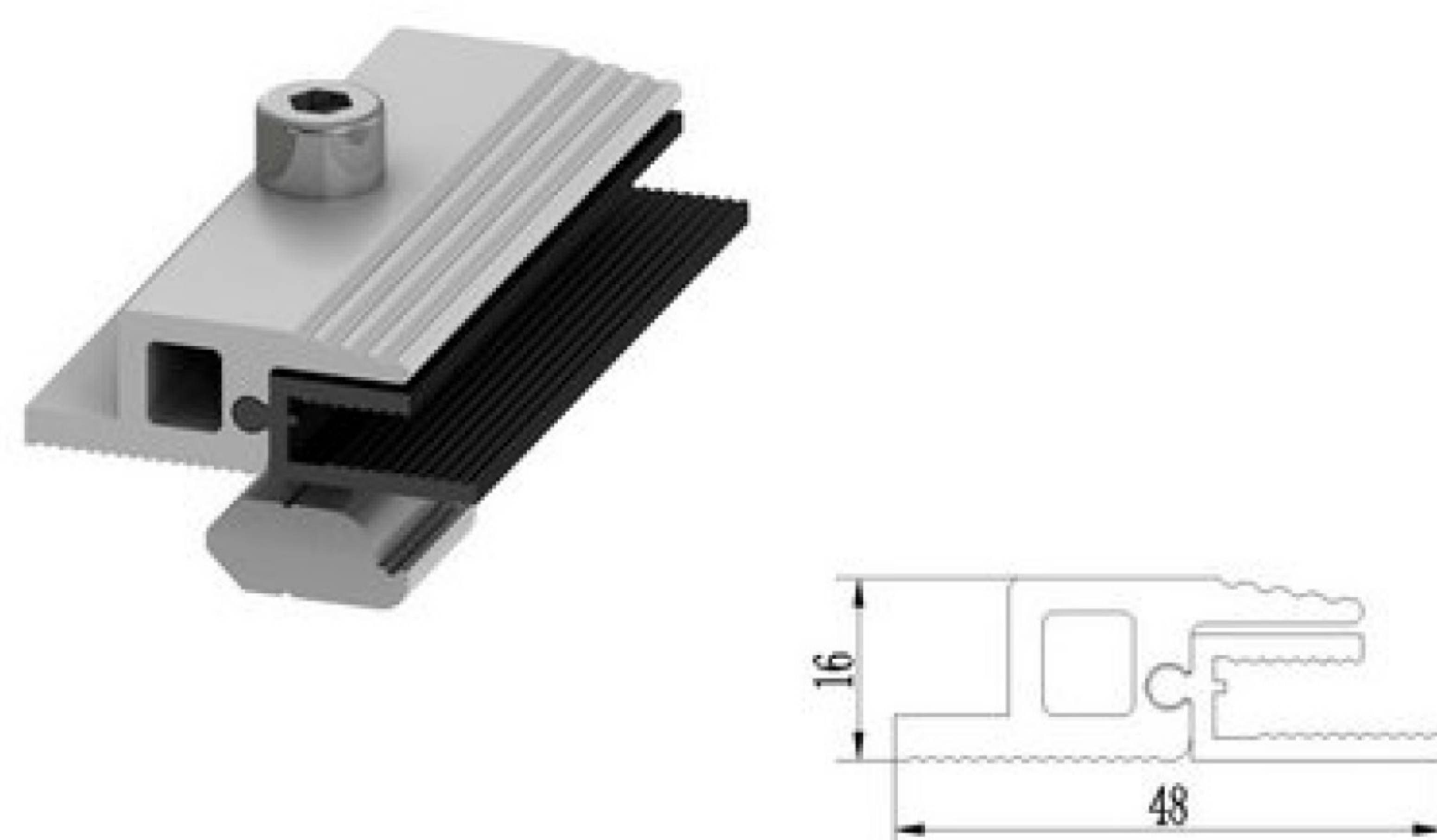


Standard thin film clamp

- Material AL 6005-T5 and SUS304 bolt
- High class anodized aluminium
- Tilt-in nut easy to install
- High quality EPDM rubber pad allowed for thin film module 7mm - 9 mm
- **Package 200 PCS/CTN**

LZ-E1

Standard thin film end clamp I

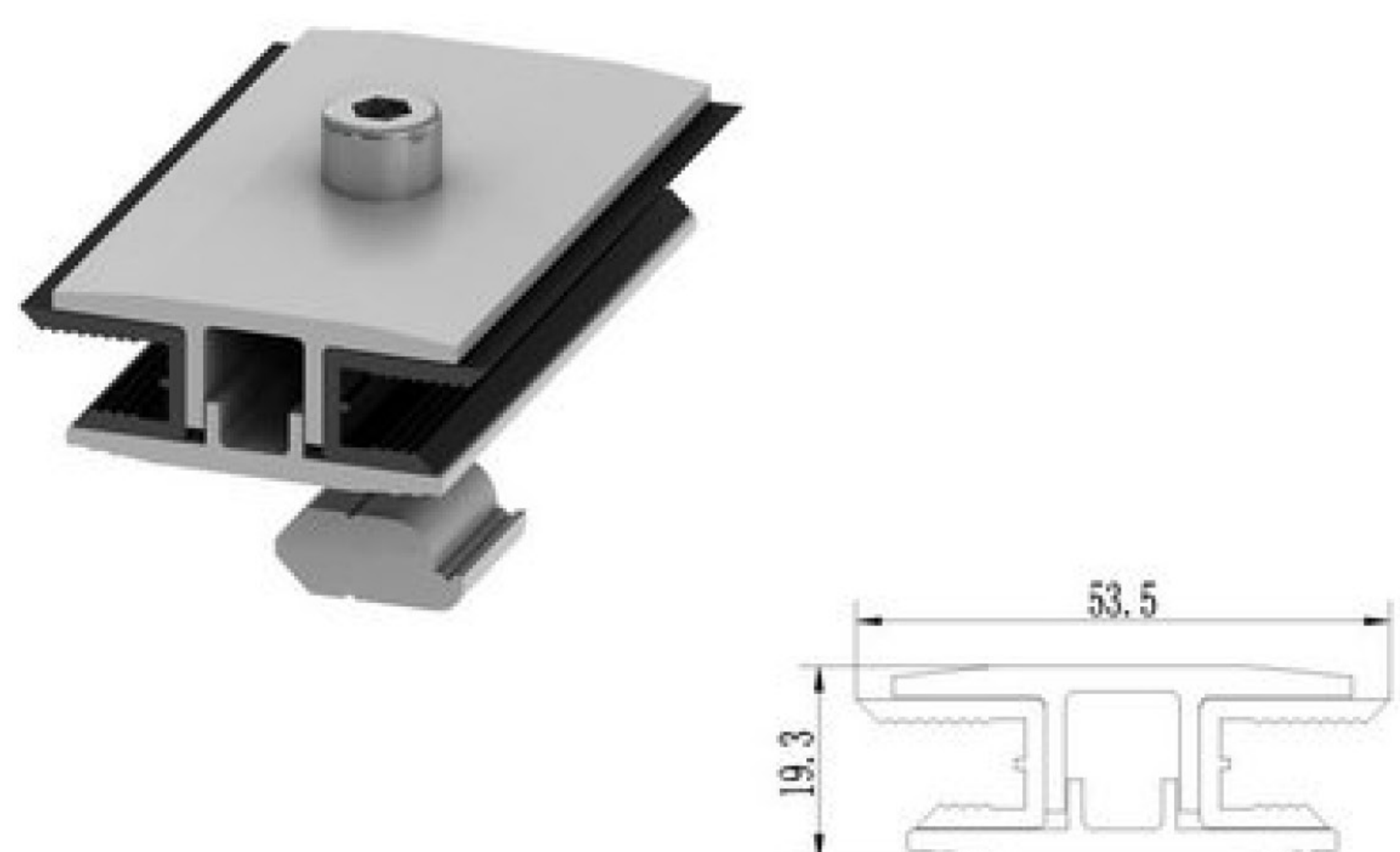


Adjustable thin film clamp

- Material AL 6005-T5 and SUS304 bolt
- High class anodized aluminium
- Tilt-in nut easy to install
- High quality EPDM rubber pad allowed for thin film module 7mm - 9 mm
- **Package 200 PCS/CTN**

LZ-M2

Standard thin film mid clamp II

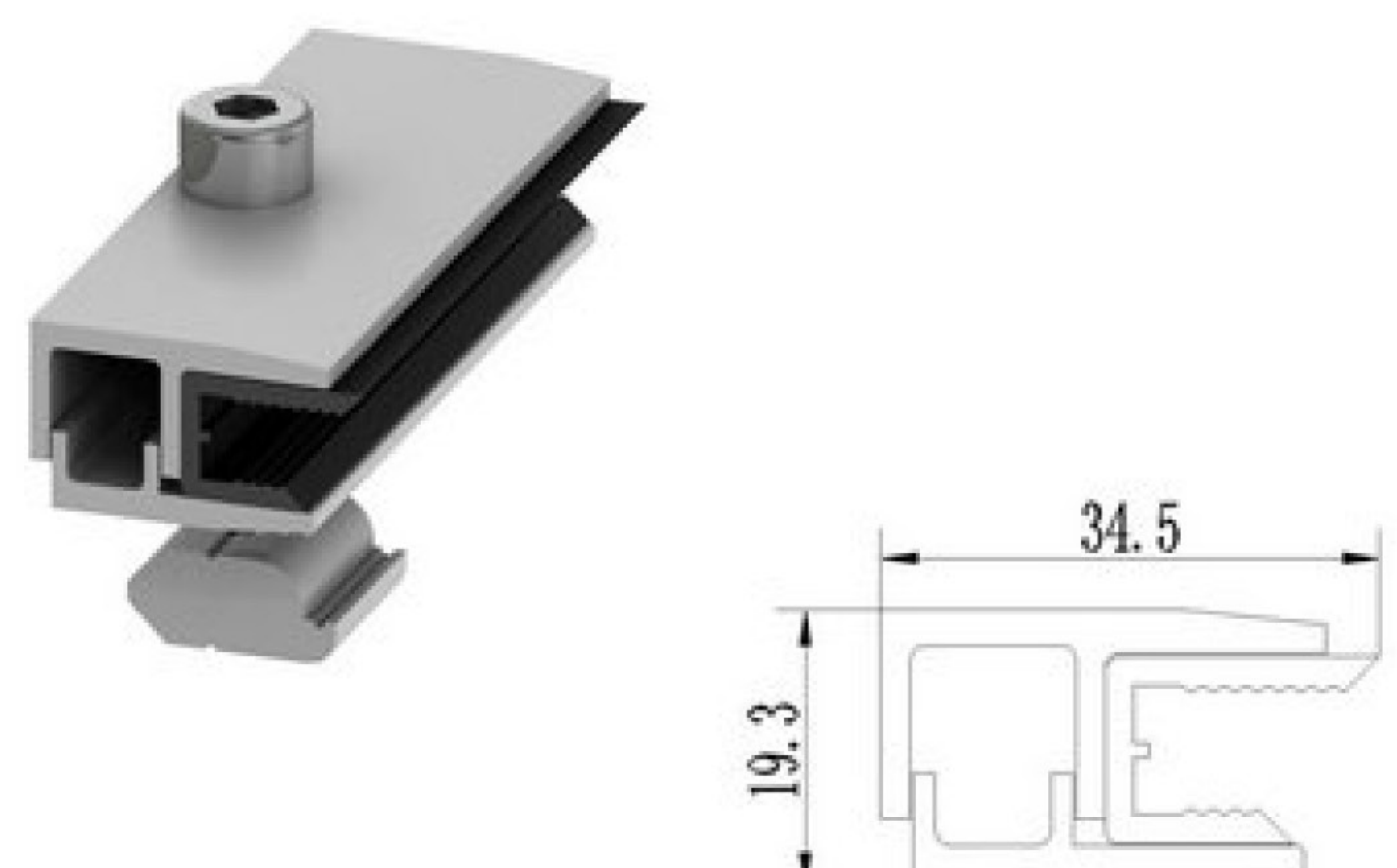


Adjustable thin film clamp

- Material AL 6005-T5 and SUS304 bolt
- High class anodized aluminium
- Tilt-in nut easy to install
- High quality EPDM rubber pad allowed for thin film module 7mm - 9 mm
- **Package 200 PCS/CTN**

LZ-E2

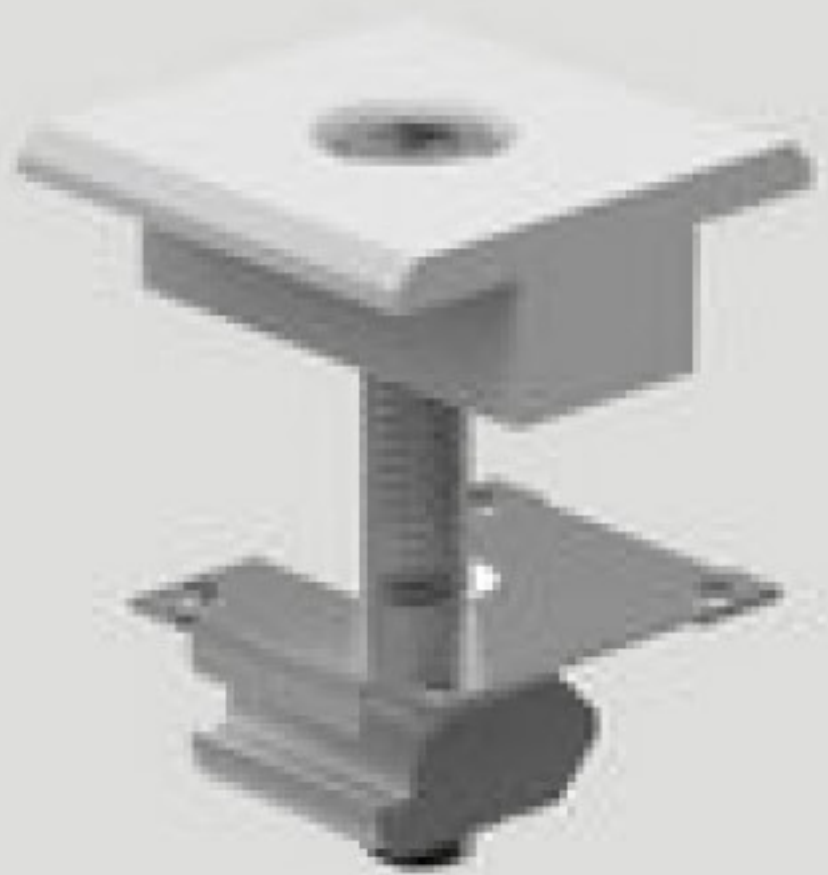
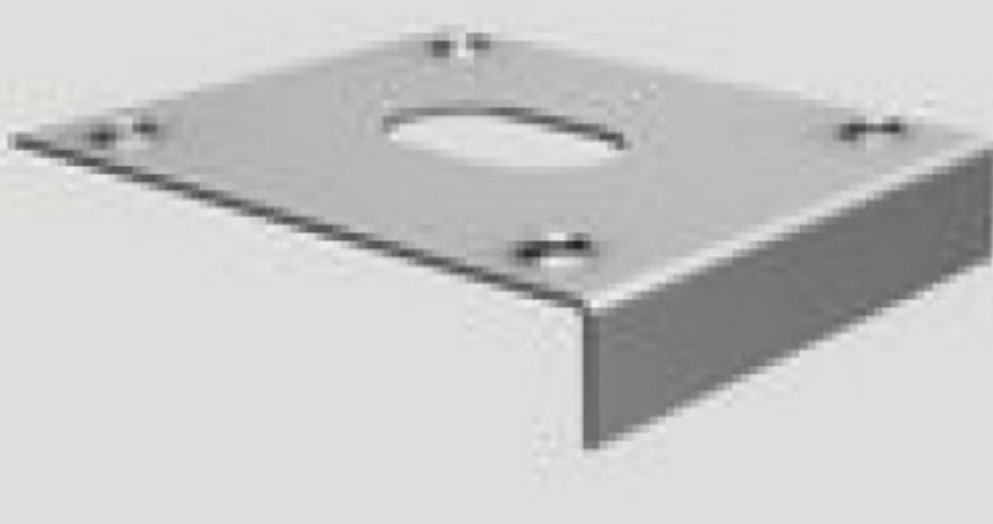
Standard thin film end clamp II



Components — Earthing

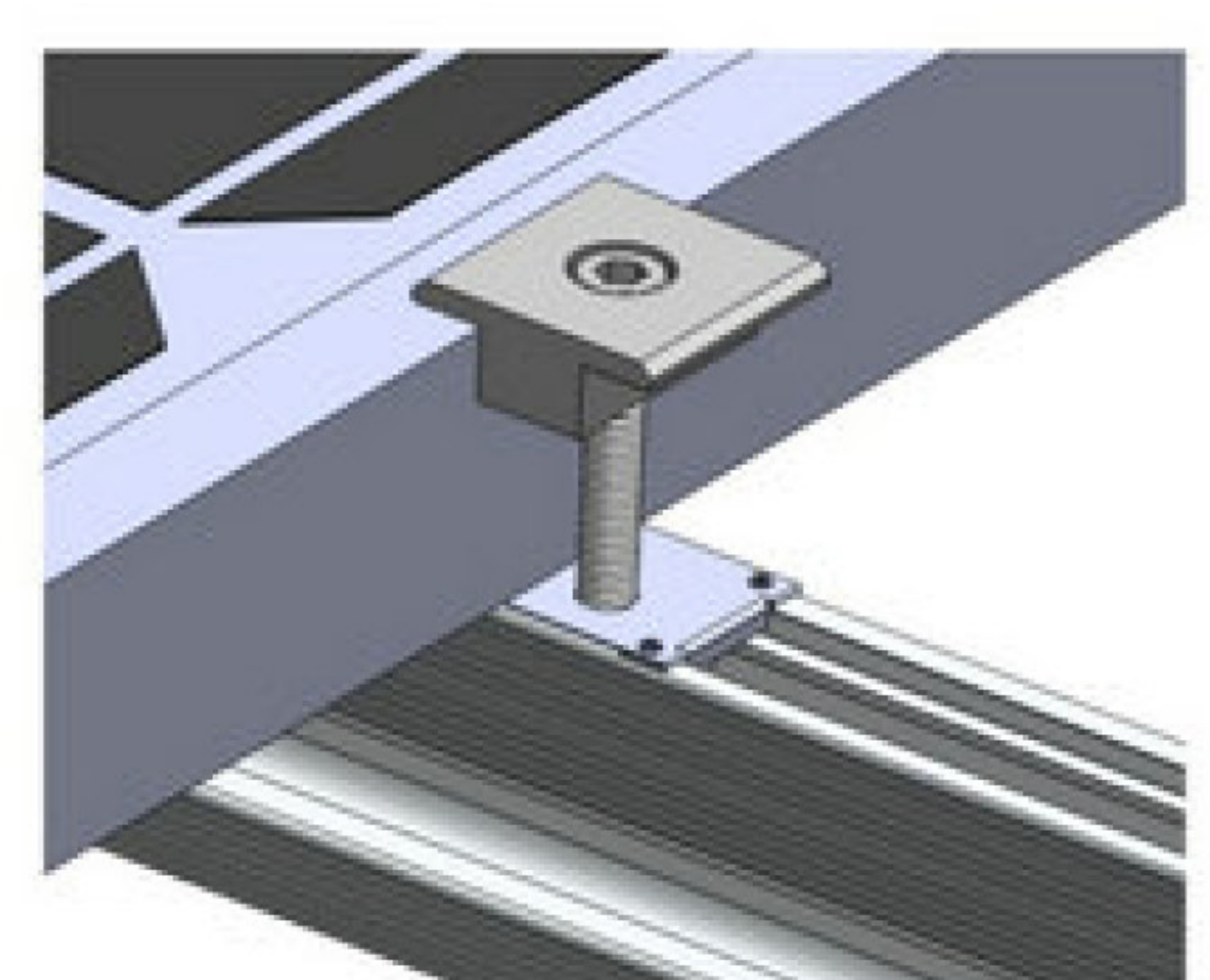
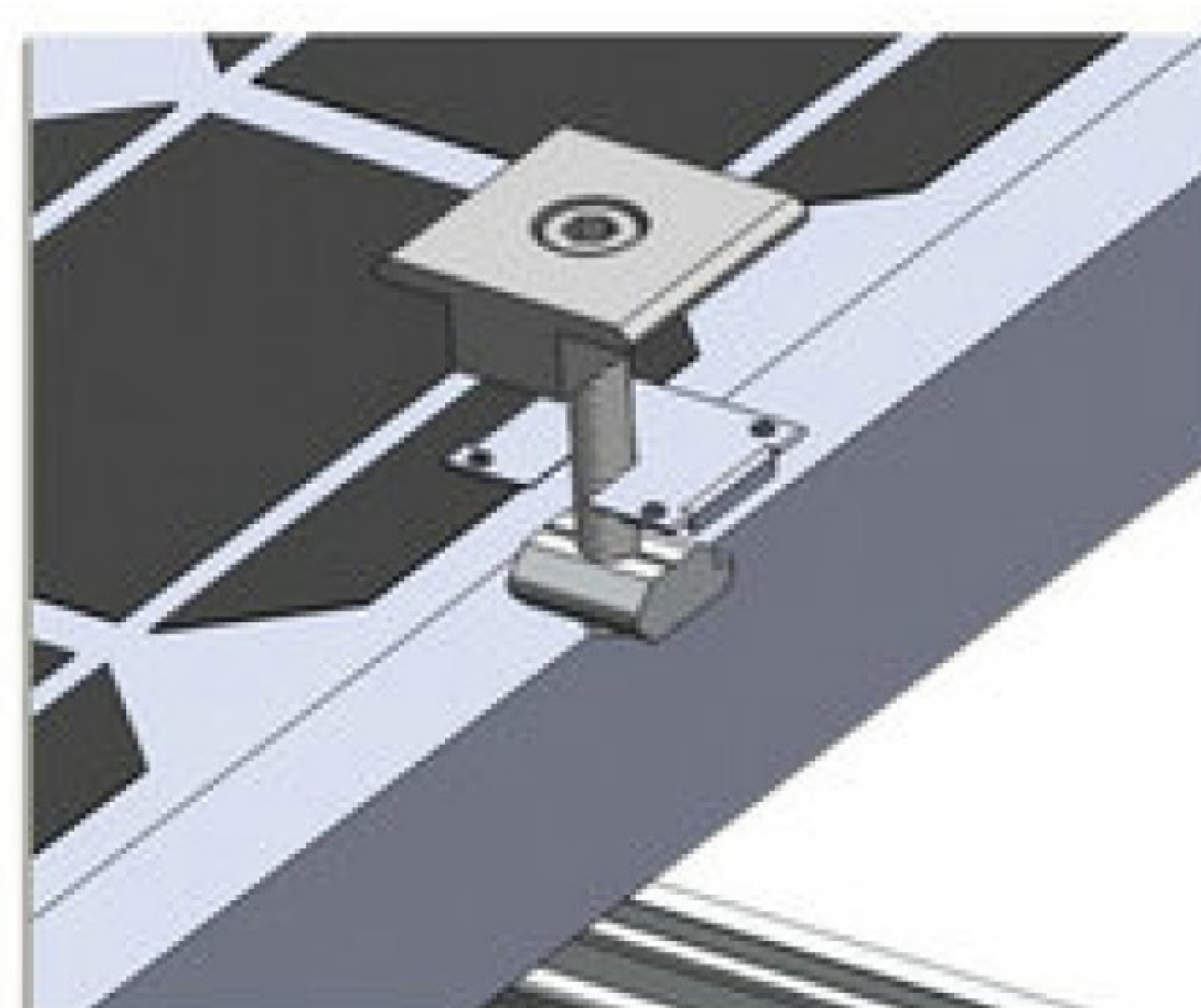
This product is designed to bond solar PV modules to mounting structures and create an electrical path to ground. When install, the clips are placed between PV modules and mounting rails at clamping points or at bolted connections.

Earthing clip

GC-R3A	Grounding Clip Open 8.5mm		
GC-R3B	Grounding Clip Closed 8.5mm		
GC-R3C	Grounding Clip Open 12mm		
GC-R3D	Grounding Clip with Gear 8.5mm		
GC-R3E	Grounding Clip for Adjustable Mid Clamp Open 8.5mm		
GC-R3F	Grounding Clip Closed 8.5mm for ground system		

- Material SUS304
- Special rib both surface to pierce the aluminium anodized
- Cooperated with mid clamp to install on the Rail

• Package 4800 PCS/CTN



Components — Earthing

Bonding jumper I

- Material SUS304 & Copper & AL6005-T5
- Cooperated with rail

- **Package 400 SET/CTN**



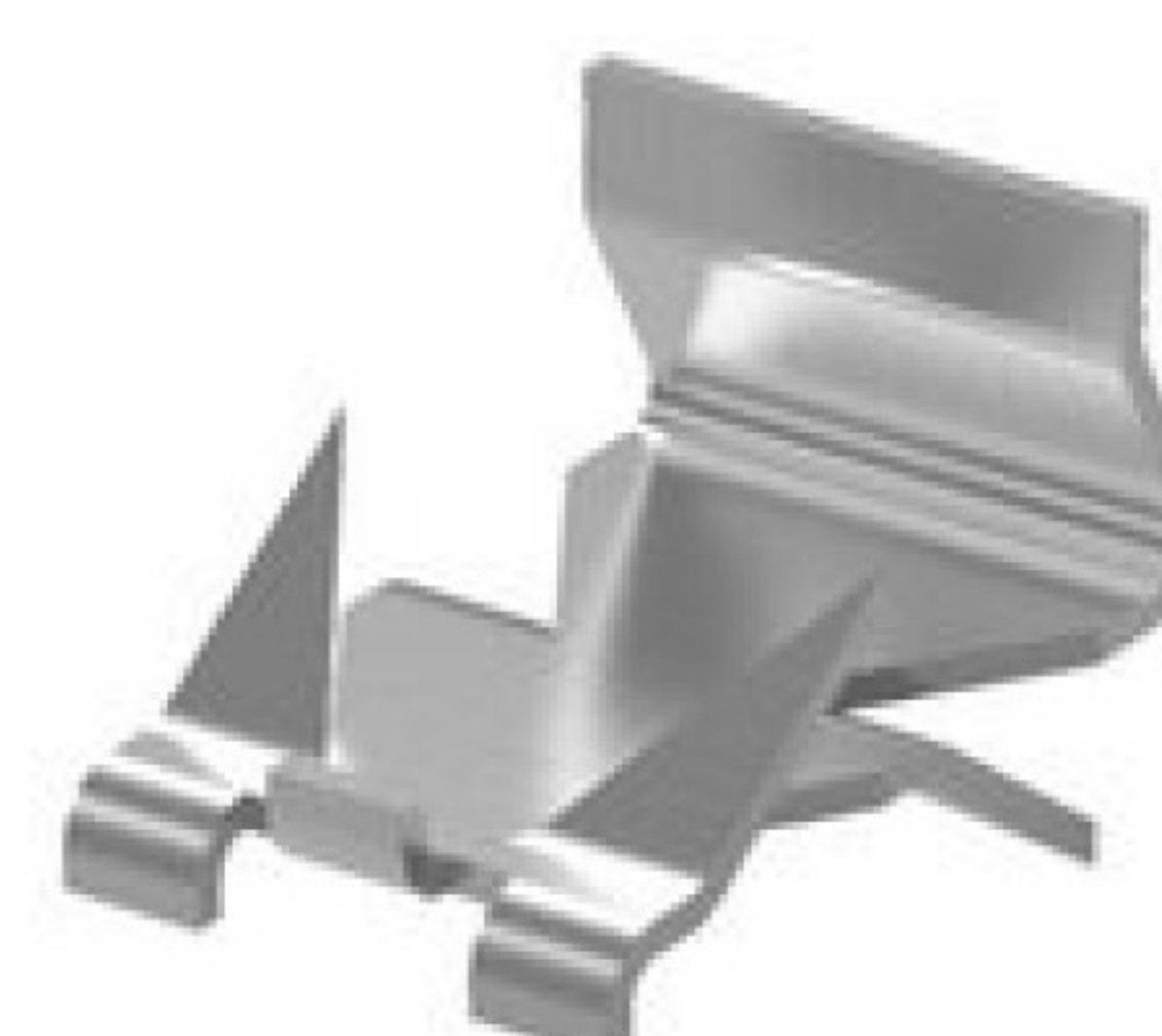
GR-R1

bonding jumper

Bonding jumper II

- Material SUS304
- Cooperated with rail splice kit

- **Package 2000 PCS/CTN**



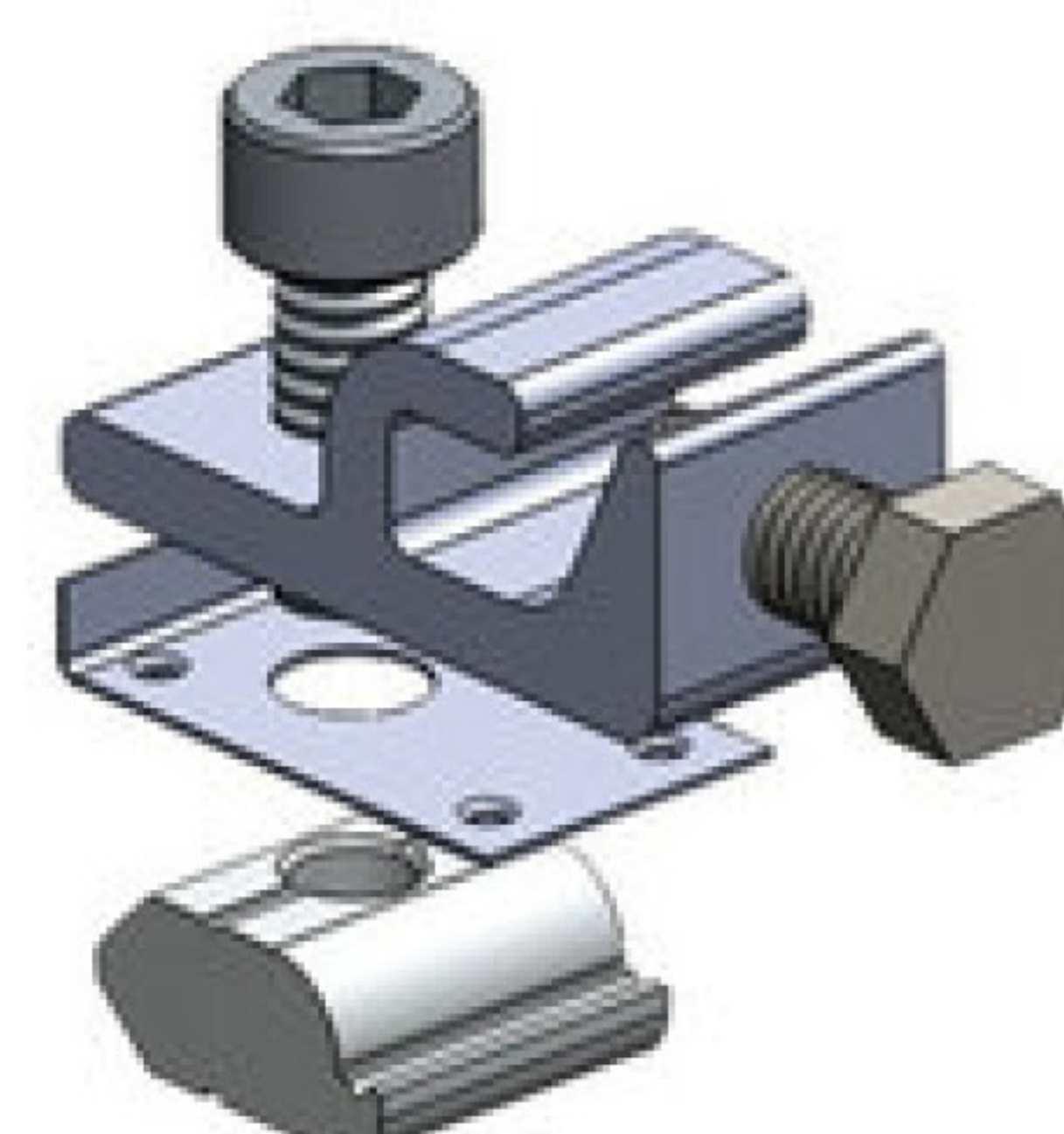
GR-R1B

bonding jumper in rail splice kit

Grounding lug

- Material AL6005-T5 lay-in lug & stainless steel Clip & SUS304 & A2-70 bolt
- Highly pre-assembly ground conductor

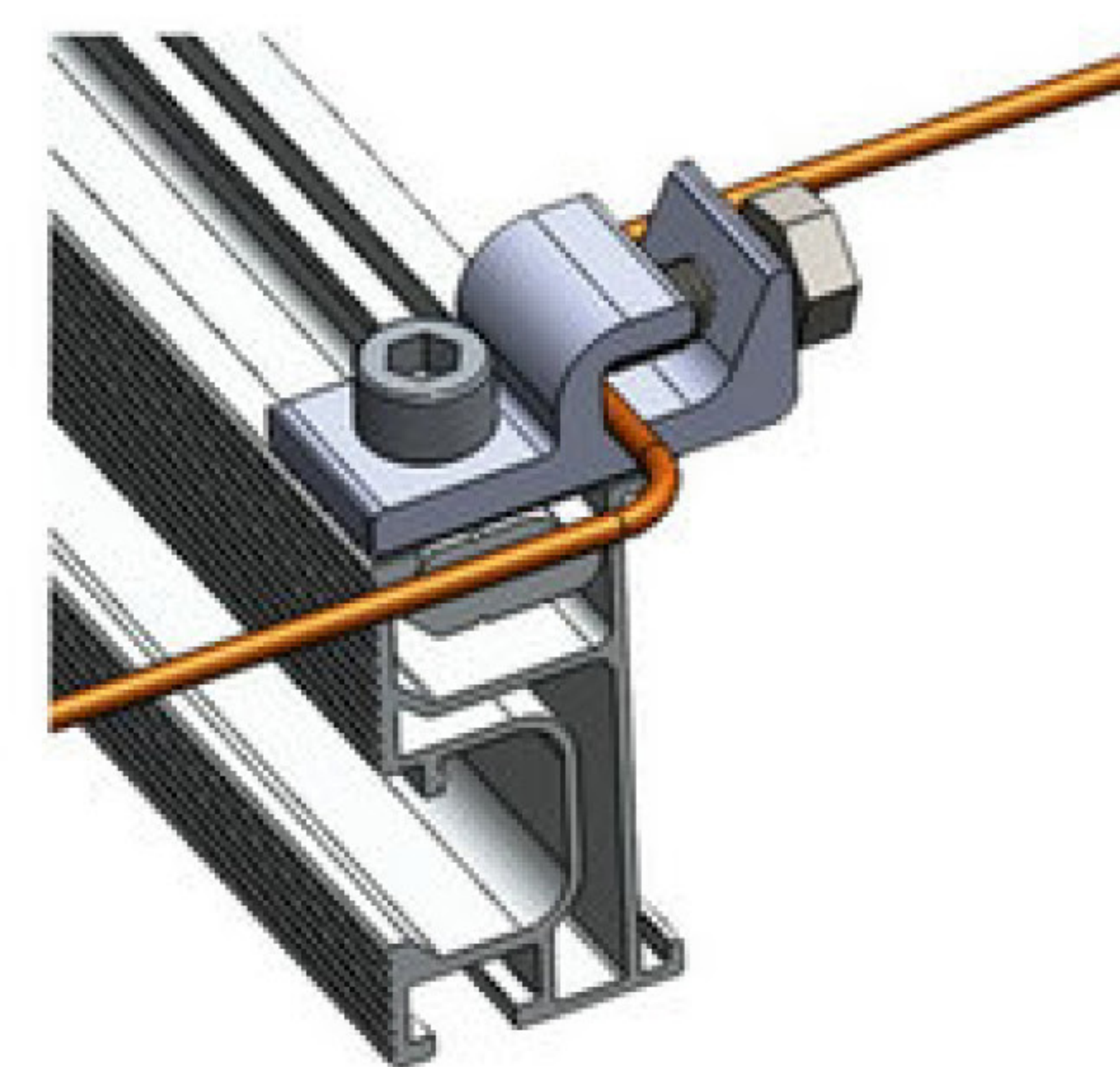
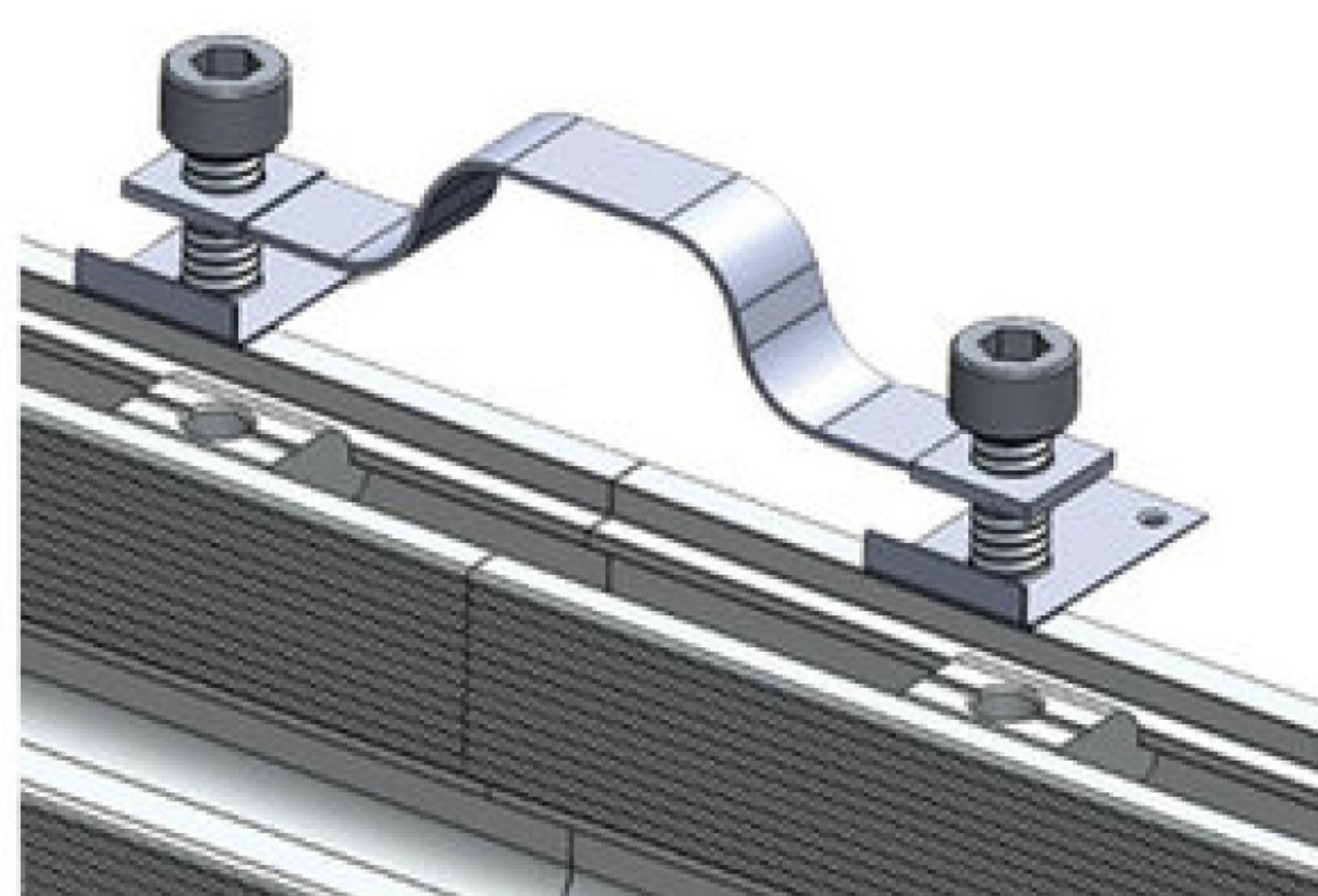
- **Package 560 SET/CTN**



GR-R2

grounding lug

Installation



Hooks Overview — Metal roof fastening

Trimdeck clamp

- Material:Stainless steel SUS304
- Self-tapping SUS410 St6.3 X 25mm
- Tilt-in nut easy to install
- High quality EPDM rubber pad

• **Package 160 SET/CTN**

FZH-011 For trimdeck and similar metal roof profiles



Trimdeck clamp

- Material:Stainless steel SUS304
- Self-tapping SUS410 St6.3 X 25mm
- Tilt-in easy nut to install
- High quality EPDM rubber pad

• **Package 160 SET/CTN**

FZH-012 For trimdeck and similar metal roof profiles

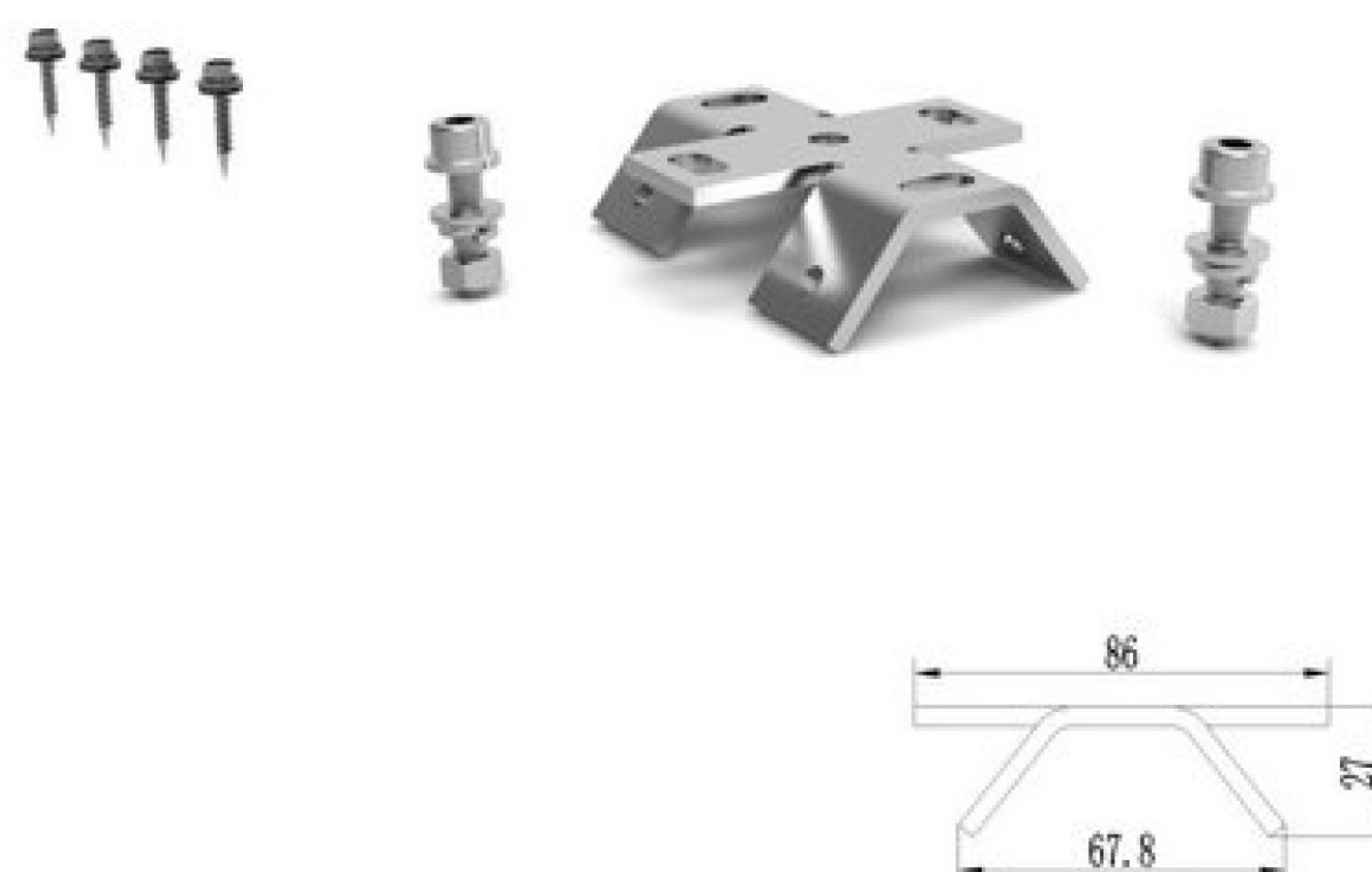


Trimdeck clamp

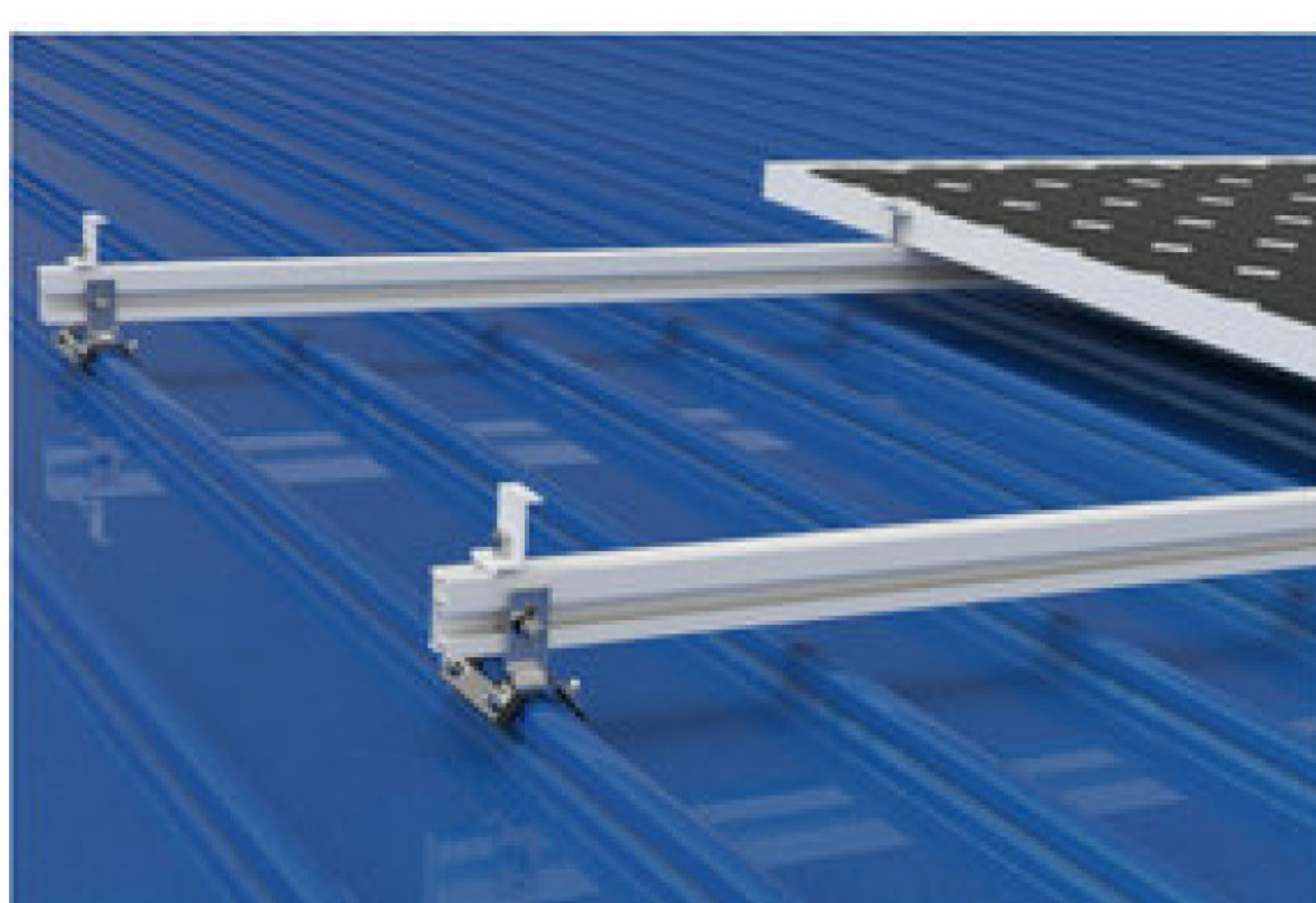
- Material:Stainless steel SUS304
- Self-tapping SUS410 St6.3 X 25mm
- Tilt-in easy nut to install
- High quality EPDM rubber pad

• **Package 160 SET/CTN**

FZH-022 For trimdeck and similar metal roof profiles



Installation



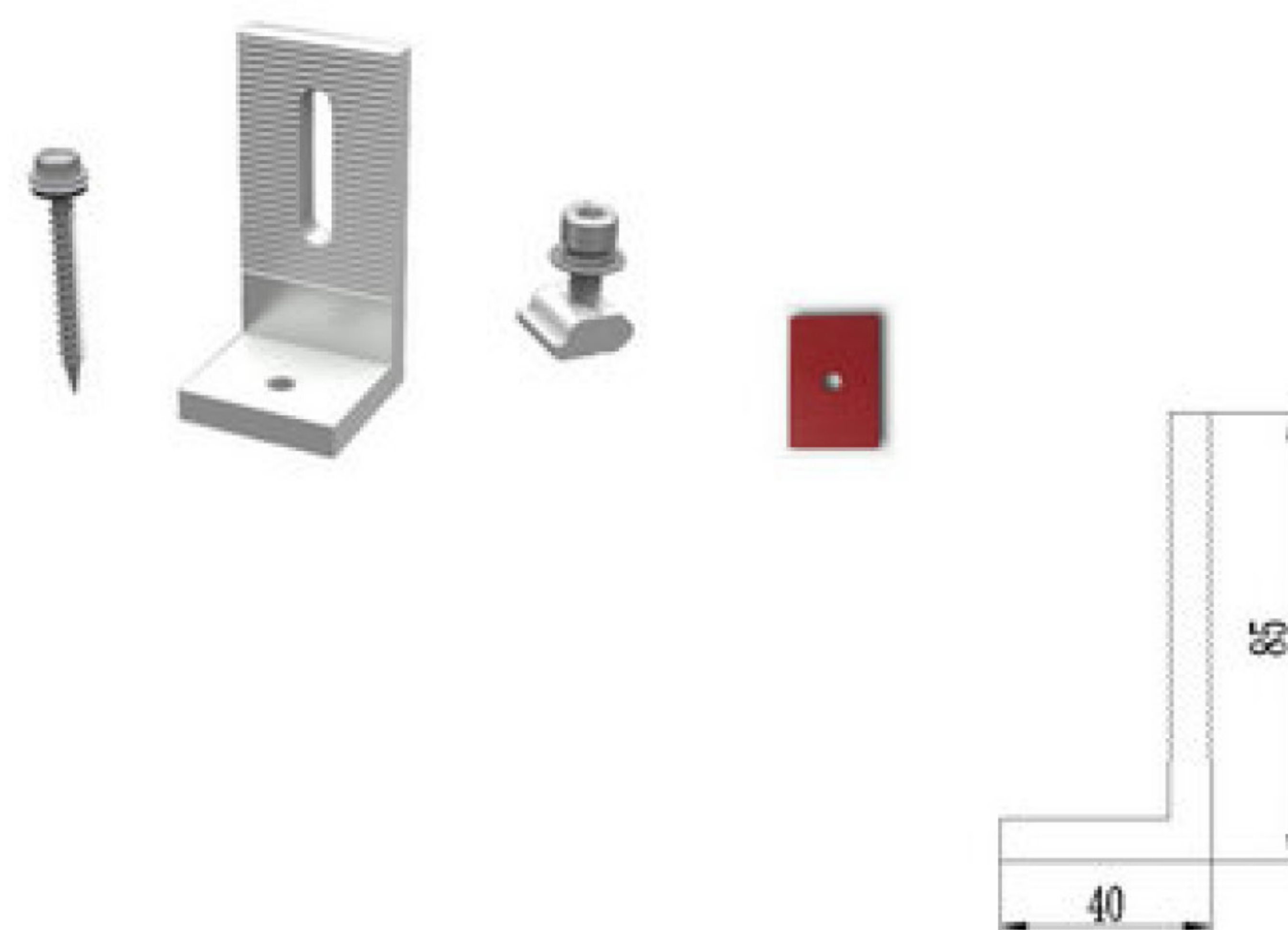
Hooks Overview — Metal roof fastening

L Feet

- Tin hook made of AL6005-T5
- High quality EPDM rubber pad
- Wooden screw M6 X 90mm
- High class anodized aluminium

- **Package 200 SET/CTN**

FZH-013 Fix rails to corrugated metal roof



T Feet

- Tin hook made of AL6005-T5
- High quality EPDM rubber pad
- Wooden screw M6 X 90mm
- High class anodized aluminium

- **Package 160 SET/CTN**

FZH-014 Fix rails to corrugated metal roof



Longline 305 clamp

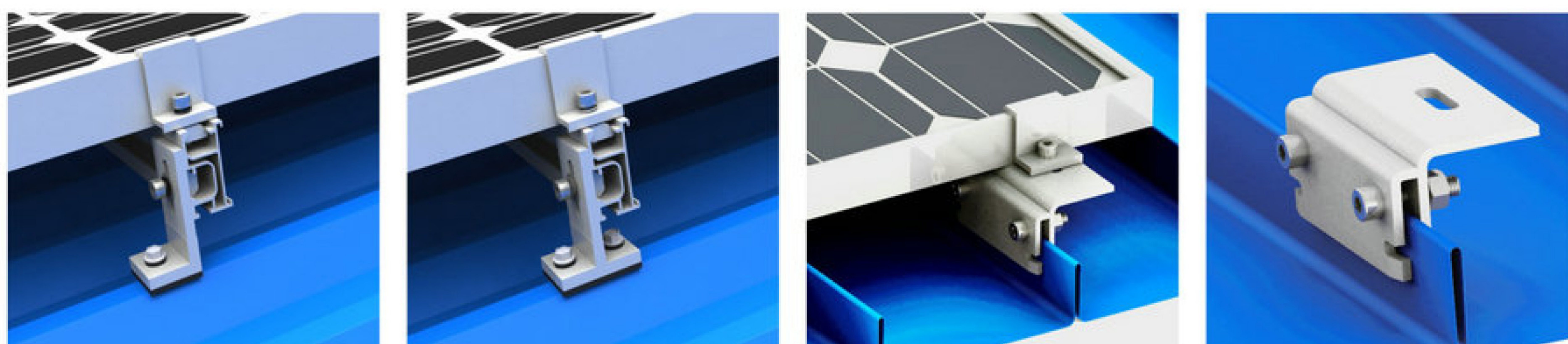
- Material stainless steel SUS304
- High quality SUS304 bolt

- **Package 120 SET/CTN**

FZH-021 For lysaght longline 305 standing seam roof profile



Installation



Hooks Overview — Metal roof fastening

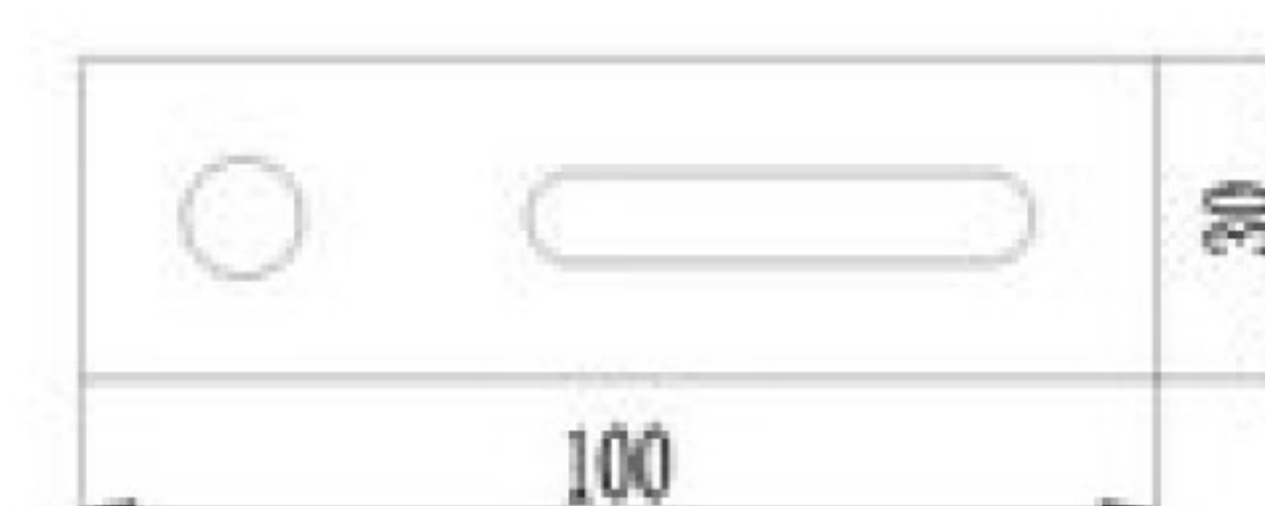
Hanger bolt with plate

- Stainless steel plate in SUS304
- High quality EPDM sealing rubber pad

• **Package 128 SET/CTN**

FZH-08M10-200
FZH-08M10-250
FZH-08M10-300

Fix rails to corrugated or trapezoidal sheet metal roof
Fastening rail by bottom



Hanger bolt with L feet

- Tin hook made of AL6005-T5
- Bolt material stainless steel bolt in plate in SUS304
- High quality EPDM sealing rubber pad

• **Package 144 SET/CTN**

FZH-013M10-200
FZH-013M10-250
FZH-013M10-300

Fix rails to corrugated or trapezoidal sheet metal roof
Fastening rail by side



Hanger bolt in double

- Material stainless steel plate in SUS304
- High quality EPDM sealing rubber pad

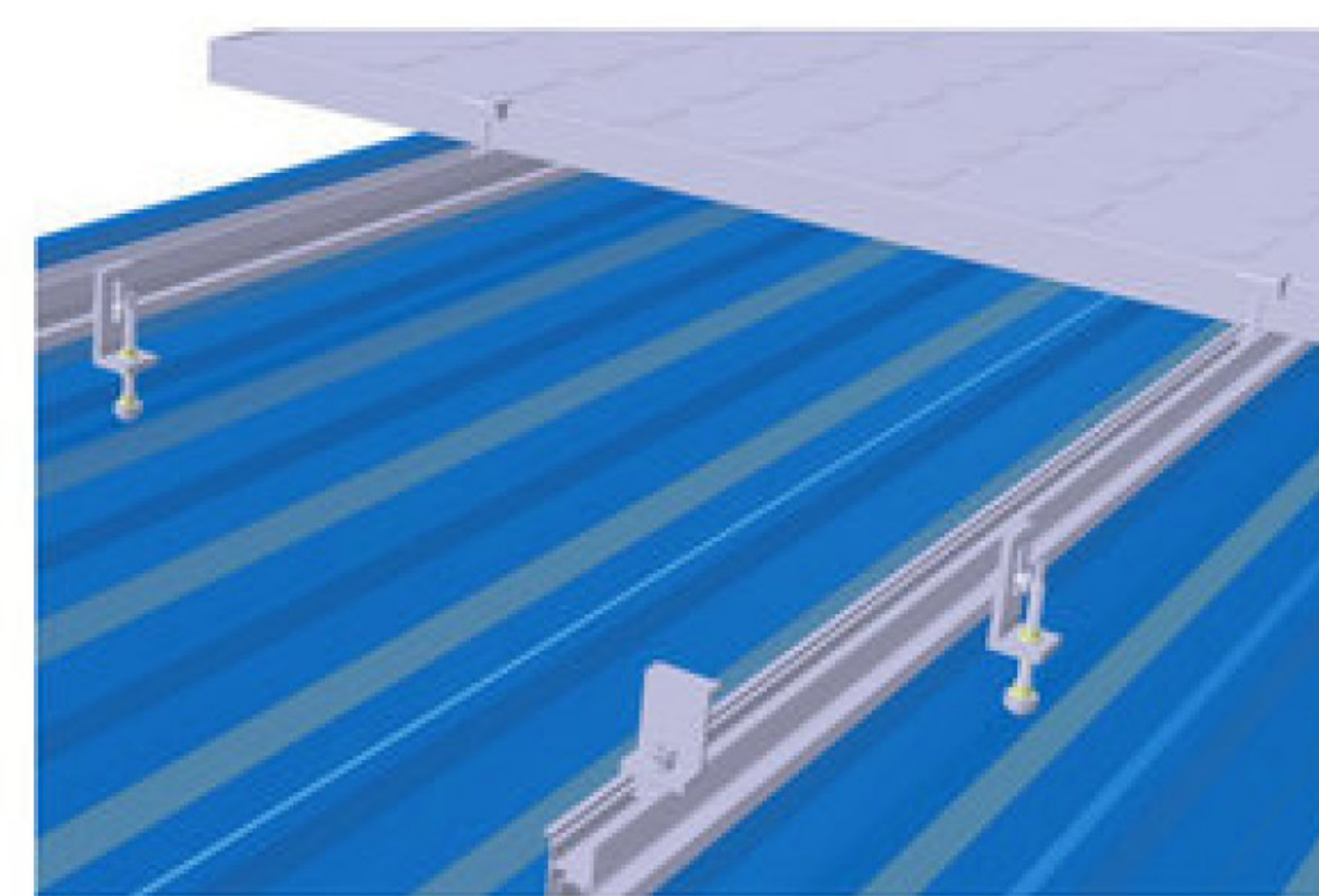
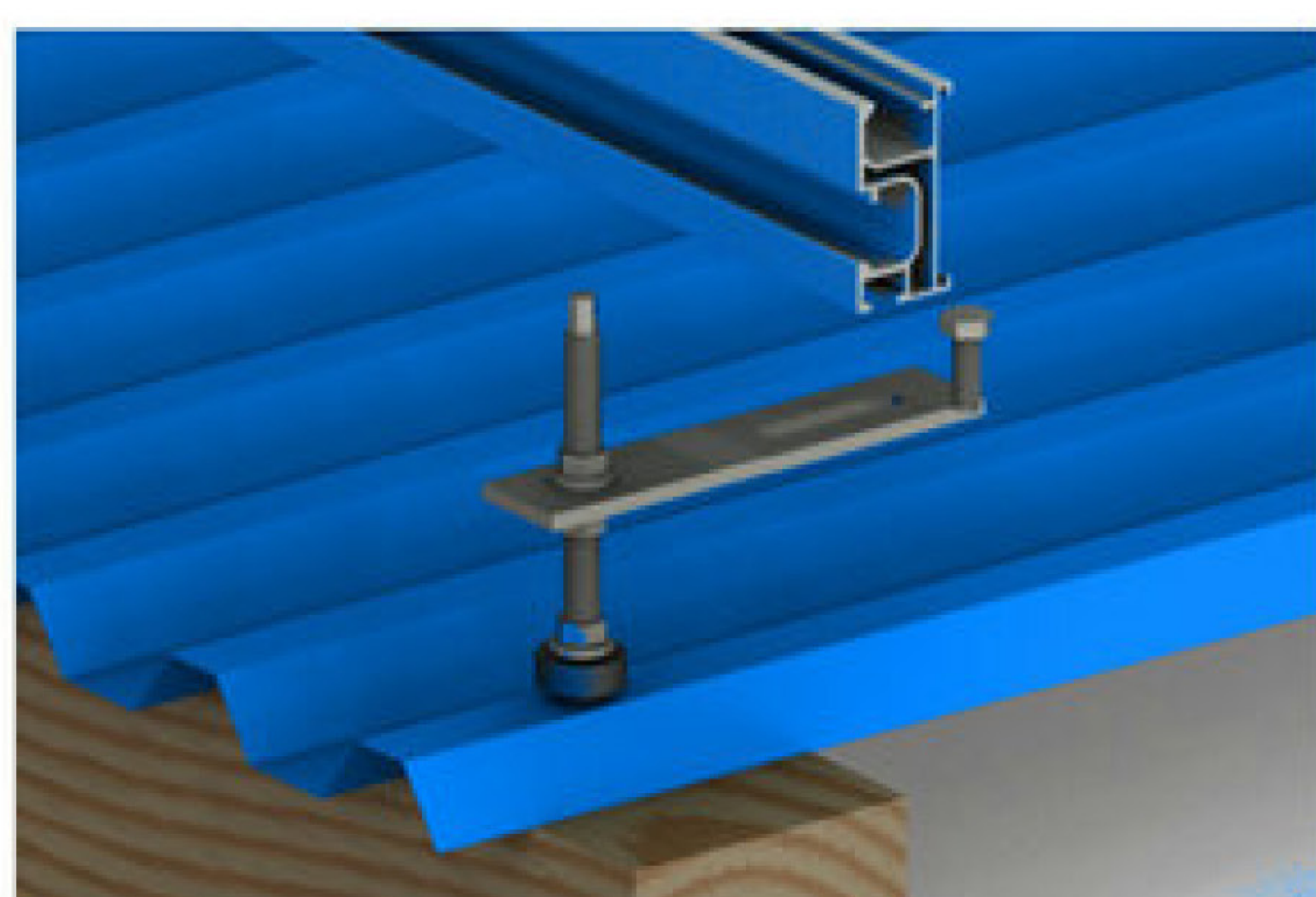
• **Package 120 SET/CTN**

FZH-015M10-200
FZH-015M10-250
FZH-015M10-300

Fix rails to corrugated or trapezoidal sheet metal roof
Dual-fastening rail by bottom



Installation



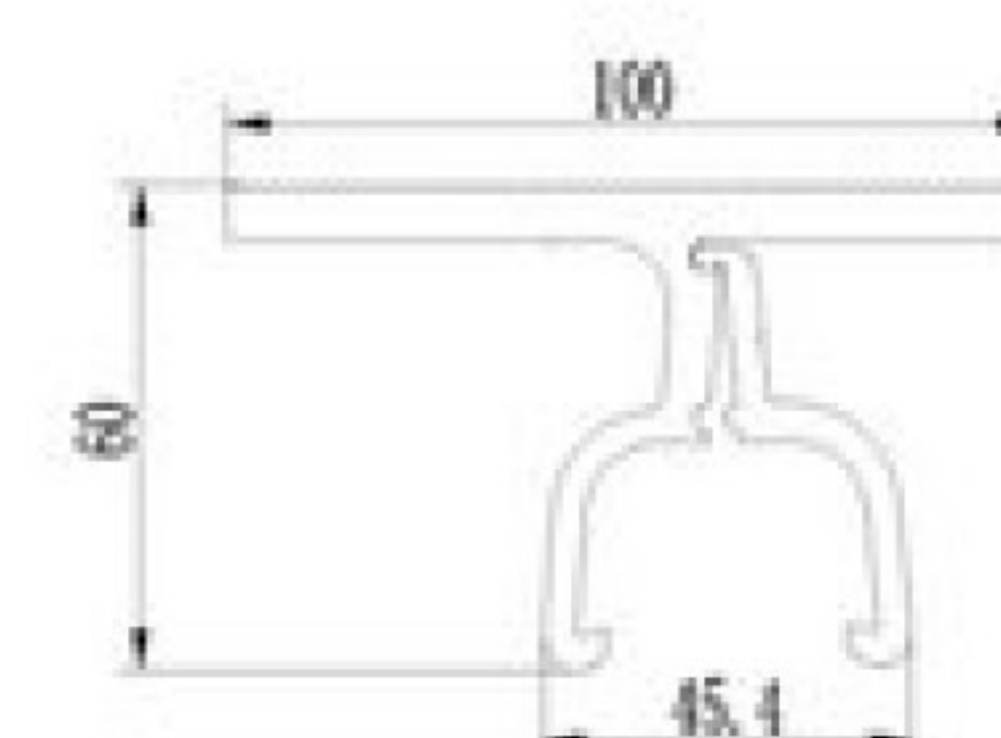
Hooks Overview — Metal roof fastening

Kliplok 700 R clamp

- Material AL6005-T5 & anodized
- High quality EPDM rubber & SUS304 bolt

- Package 64 SET/CTN

FZ-TC700 For lysaght klip-lok 700 roof profile

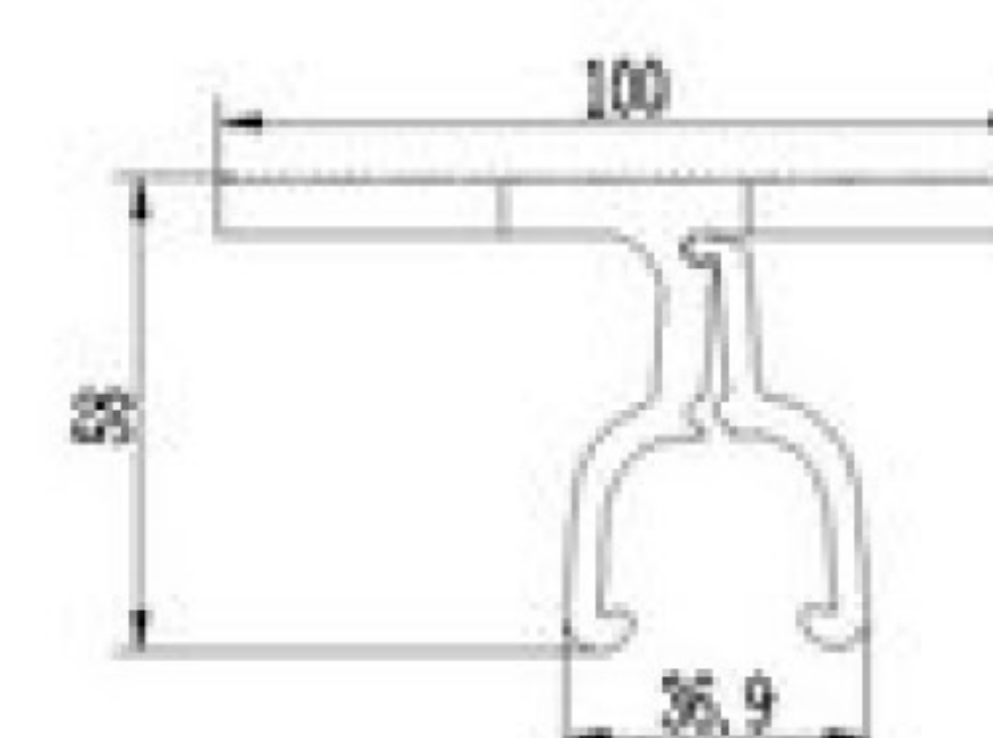


Kliplok 406 R clamp

- Material AL6005-T5 & anodized
- High quality EPDM rubber & SUS304 bolt

- Package 64 SET/CTN

FZ-TC406 For lysaght klip-lok 406 roof profile

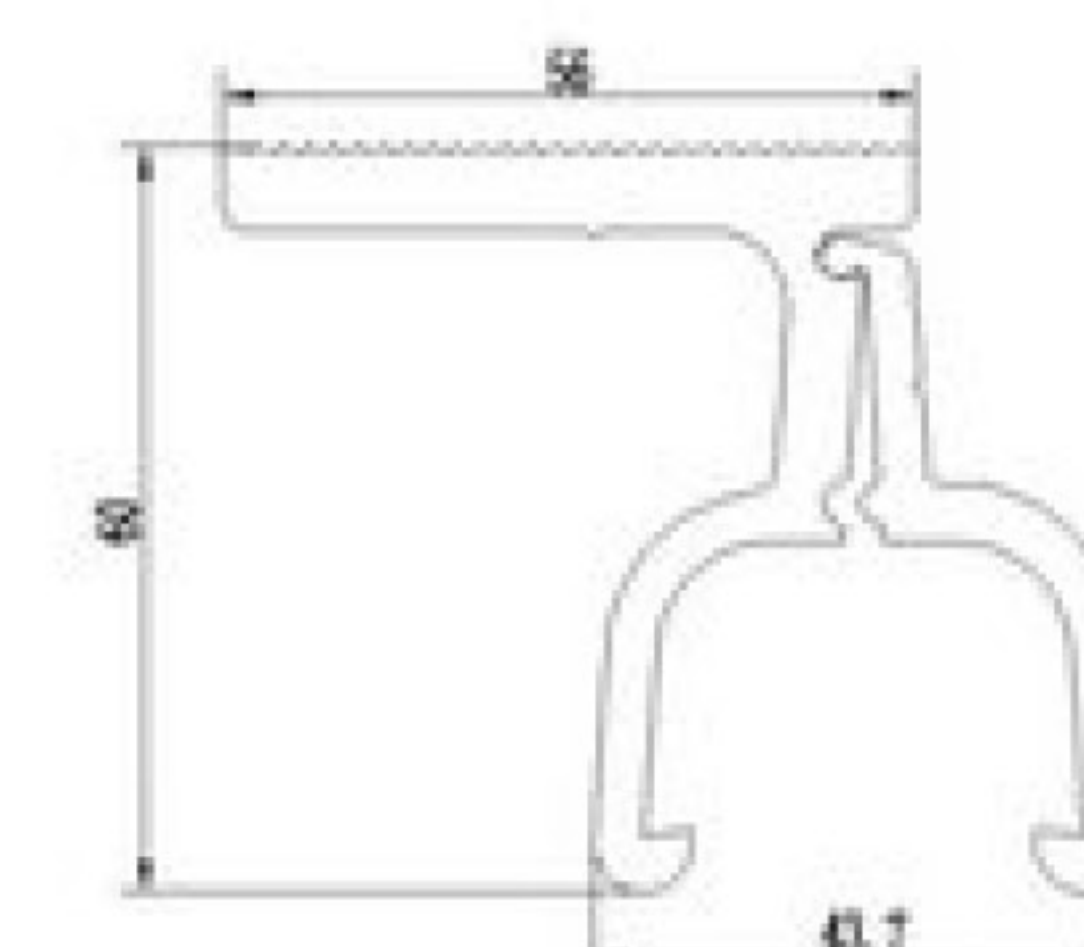


Kliplok 700 S clamp

- Material AL6005-T5 & anodized
- High quality EPDM rubber & SUS304 bolt

- Package 64 SET/CTN

FZ-TC700-2N For lysaght klip-lok 700 roof profile

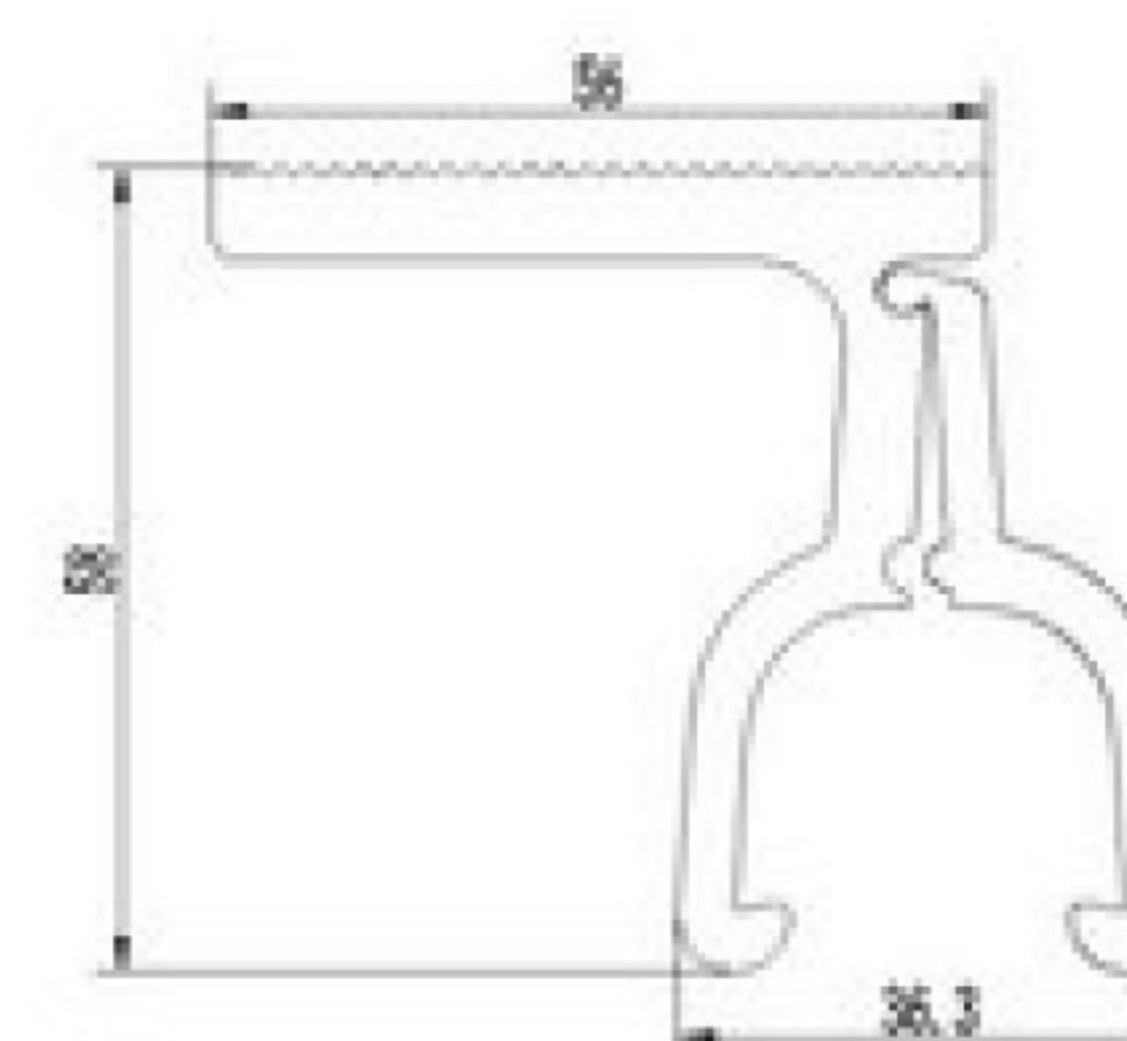


Kliplok 406 S clamp

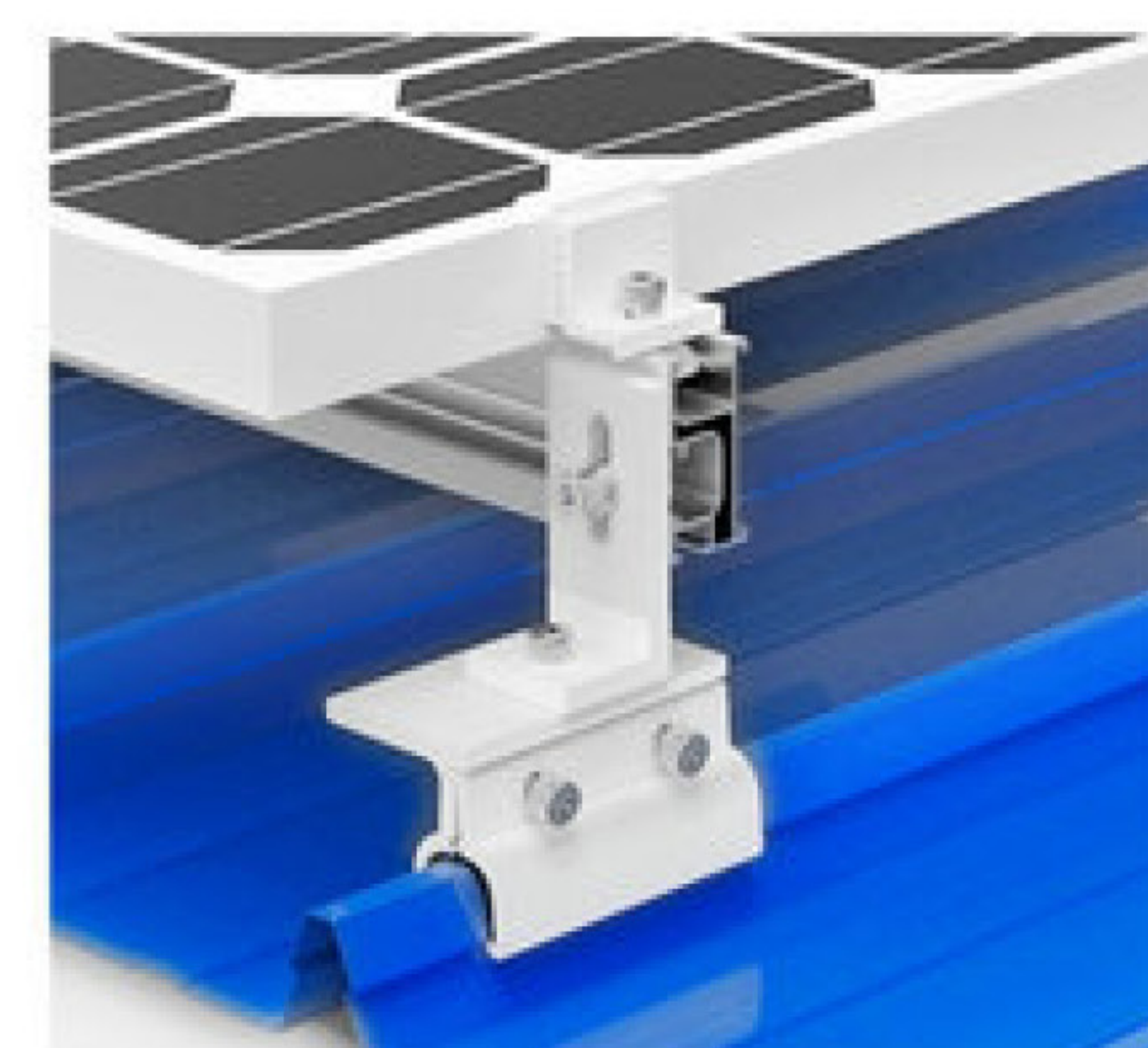
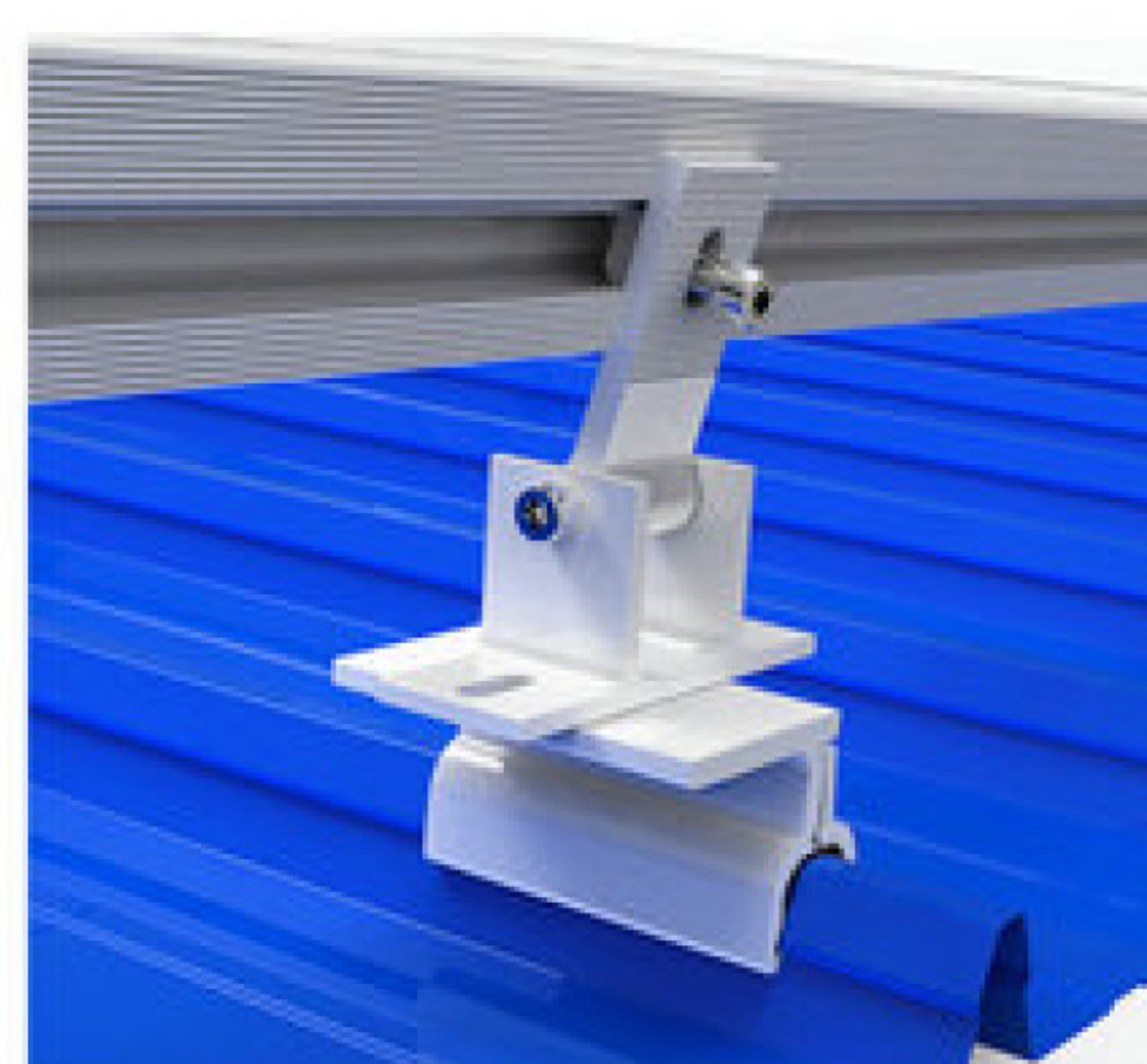
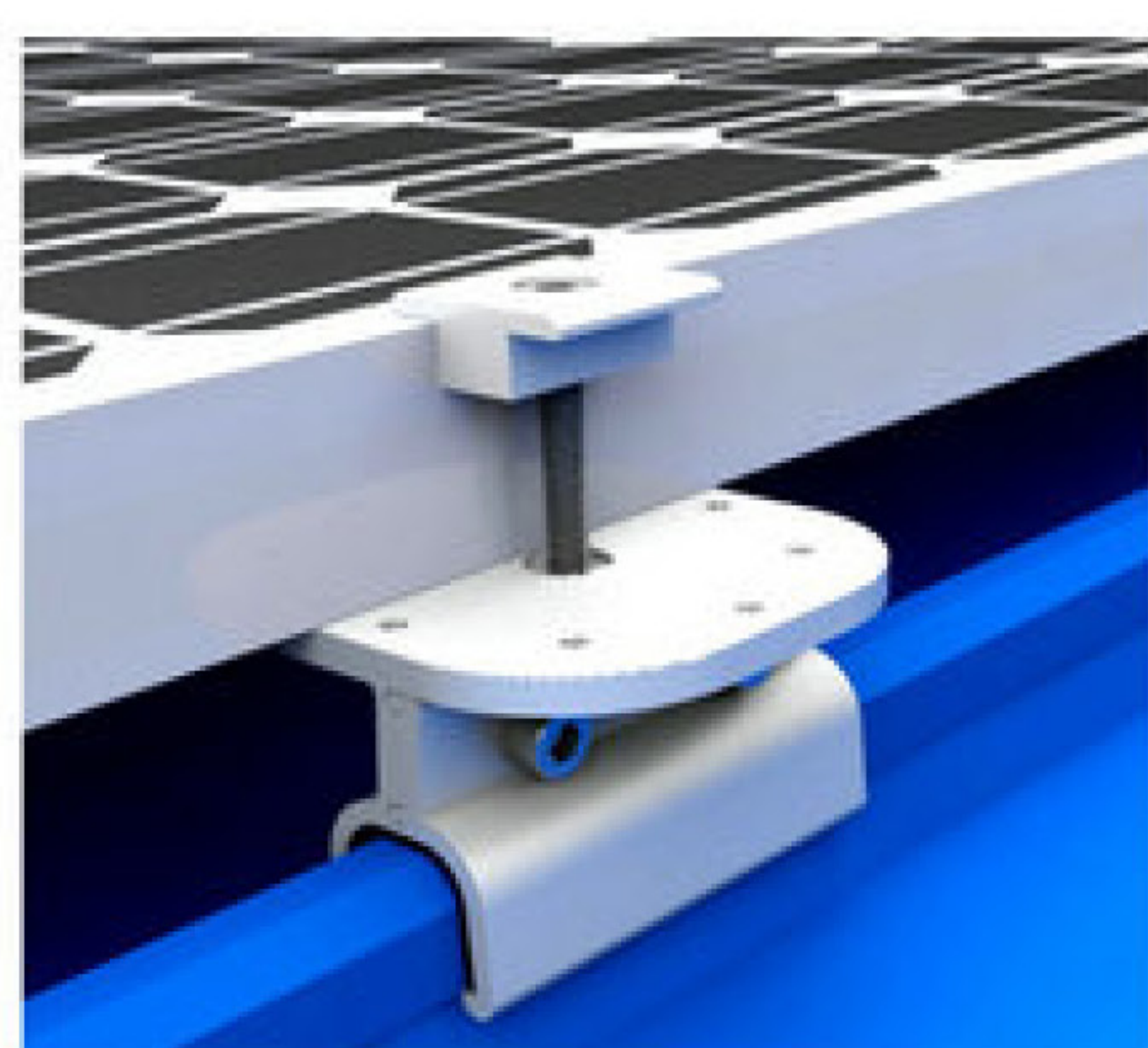
- Material AL6005-T5 & anodized
- High quality EPDM rubber & SUS304 bolt

- Package 64 SET/CTN

FZ-TC406-2N For lysaght klip-lok 406 roof profile



Installation



Hooks Overview — Metal roof fastening

Tilt kit front leg

- Material AL6005-T5 & anodized
- SUS304 bolt
- Wooden screws M6X90mm
- High quality EPDM rubber pad
- **Package 20 SET/CTN**



FZF-FL Fixed tilt kit front leg

Tilt kit rear leg

- Material AL6005-T5 & anodized
- SUS304 bolt
- Wooden screws M6X90mm
- High quality EPDM rubber pad
- **Package 20 SET/CTN**



FZF-BL-15 15 degree fixed tilt kit rear leg
FZF-BL-20 20 degree fixed tilt kit rear leg
FZF-BL-30 30 degree fixed tilt kit rear leg
FZF-BL Custom degree (5-60 degree)

Wave sheet clamp

- Material AL6005-T5 & anodized
- Wooden screws M6X90mm
- High quality EPDM rubber pad
- **Package 56 SET/CTN**



A10 For wave sheet roof standing profile

Installation



Hooks Overview — Metal roof fastening

Adjustable tilt kit front leg

- Material AL 6005-T5 & anodized
- Tilt-in nut easy to install
- Wooden screws M6×90mm
- High quality EPDM rubber pad
- **Package 25 SET/CTN**

FZA-FLN

Tilt kit front leg



Adjustable tilt kit rear leg

- Material AL 6005-T5 & anodized
- Tilt-in nut easy to install
- Wooden screws M6×90mm
- High quality EPDM rubber pad
- **Package 25 SET/CTN**

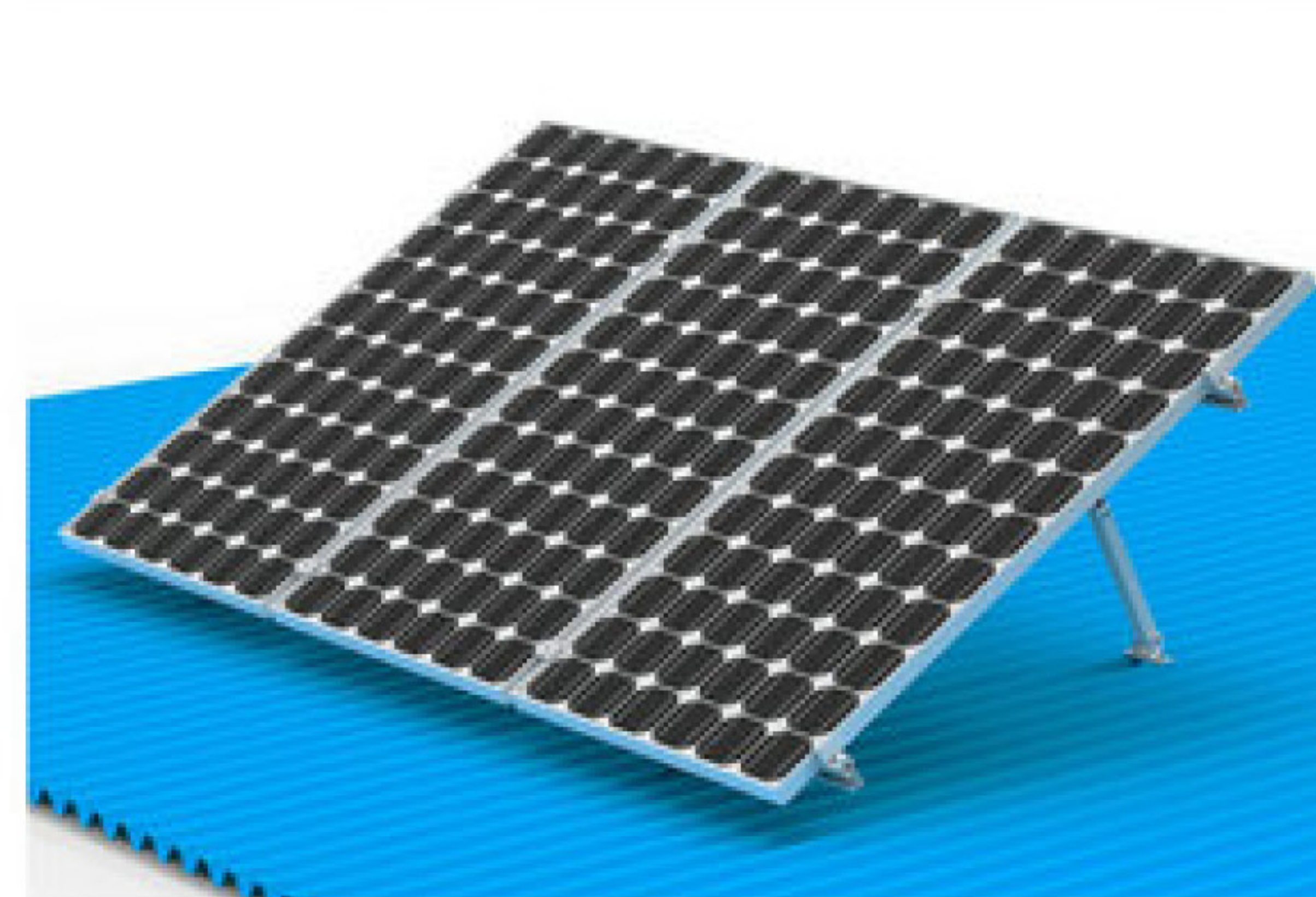
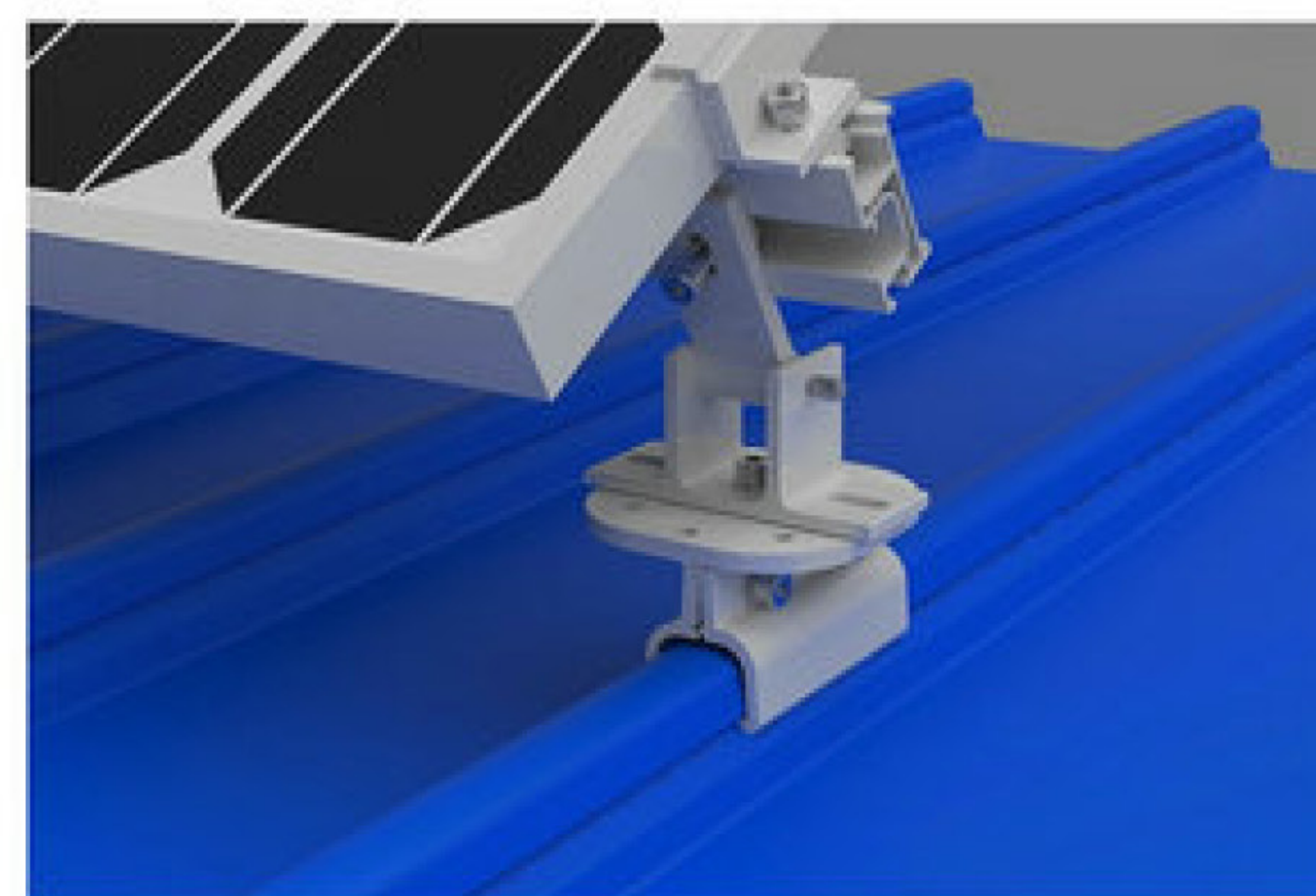
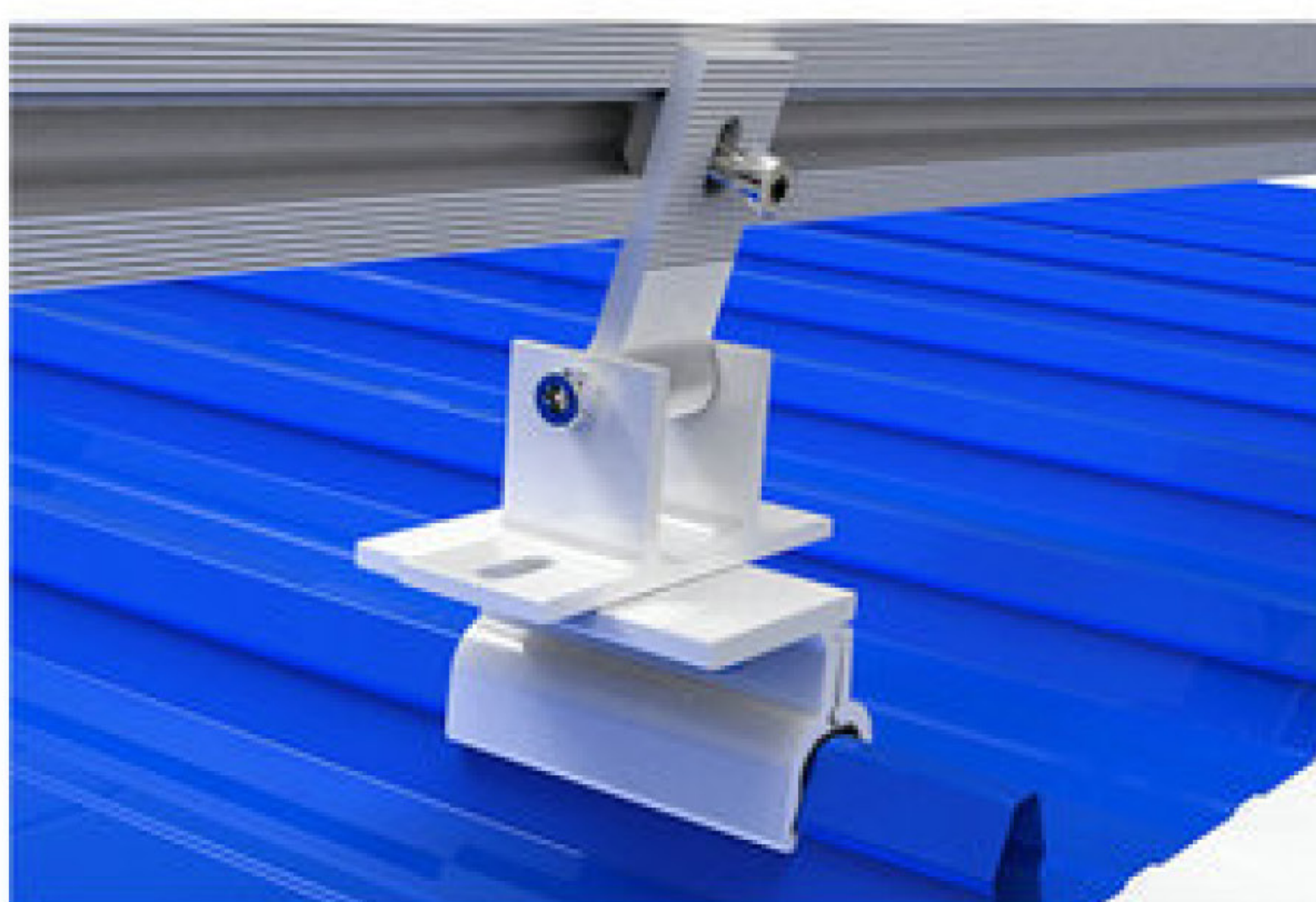
FZA-BL200N 10 -15 degree tilt kit rear leg

FZA-BL360N 15 -30 degree tilt kit rear leg

FZA-BL660N 30 -45 degree tilt kit rear leg

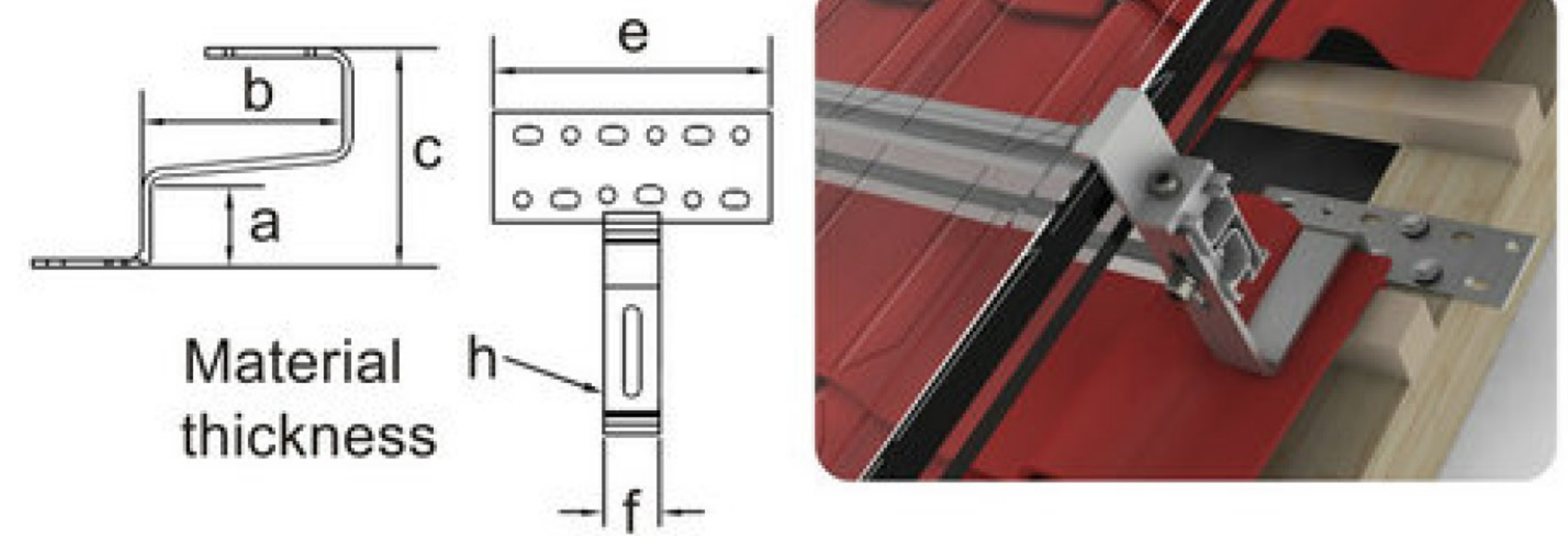


Installation



Roof Hook Overview — Pitch tile roof

- Material:SUS304
- With wooden screws M6X65mm, SUS304 inner hexagon bolt M8x25mm
- nut go with hook, hooks are completely pre-assembled,make installation easier and safer.

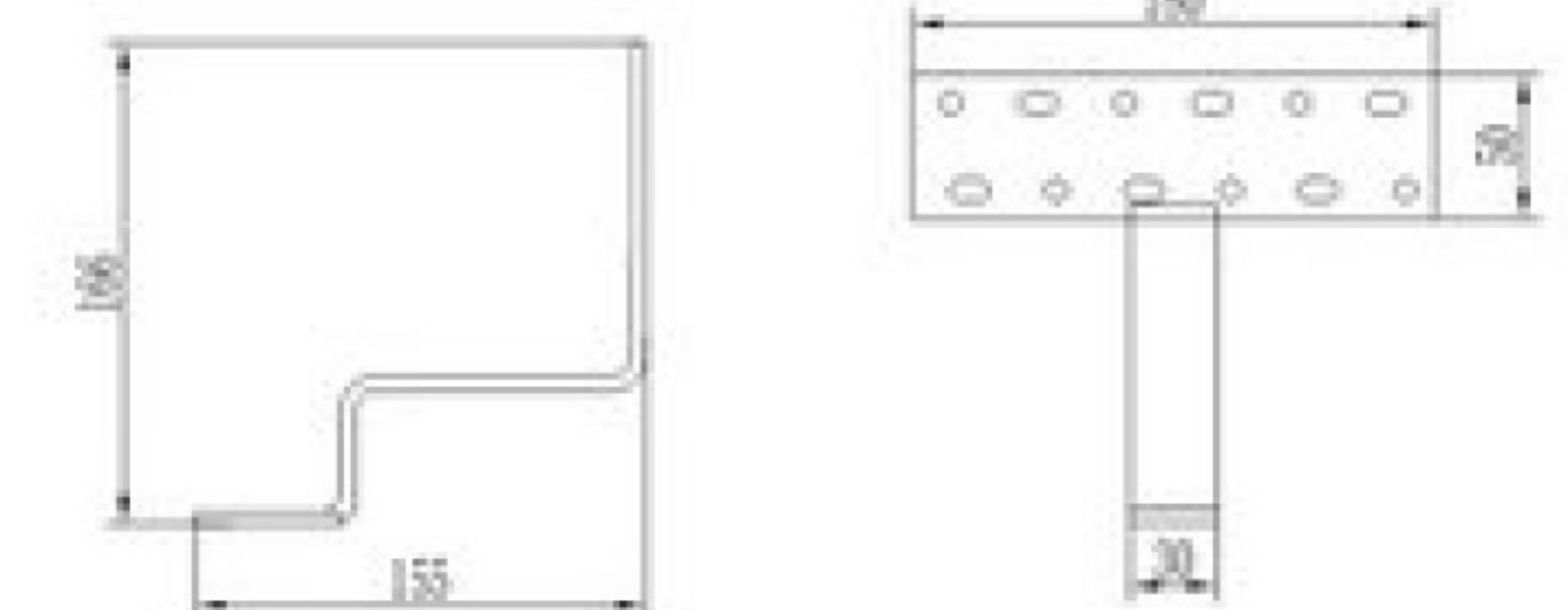


FZH-01

	mm	Inches		mm	Inches
a	46.0	1.81	e	180.0	7.09
b	100.0	3.94	f	30.0	1.18
c	166.0	6.54	h	5.0	0.20
d	50.0	1.97			



FZH-01

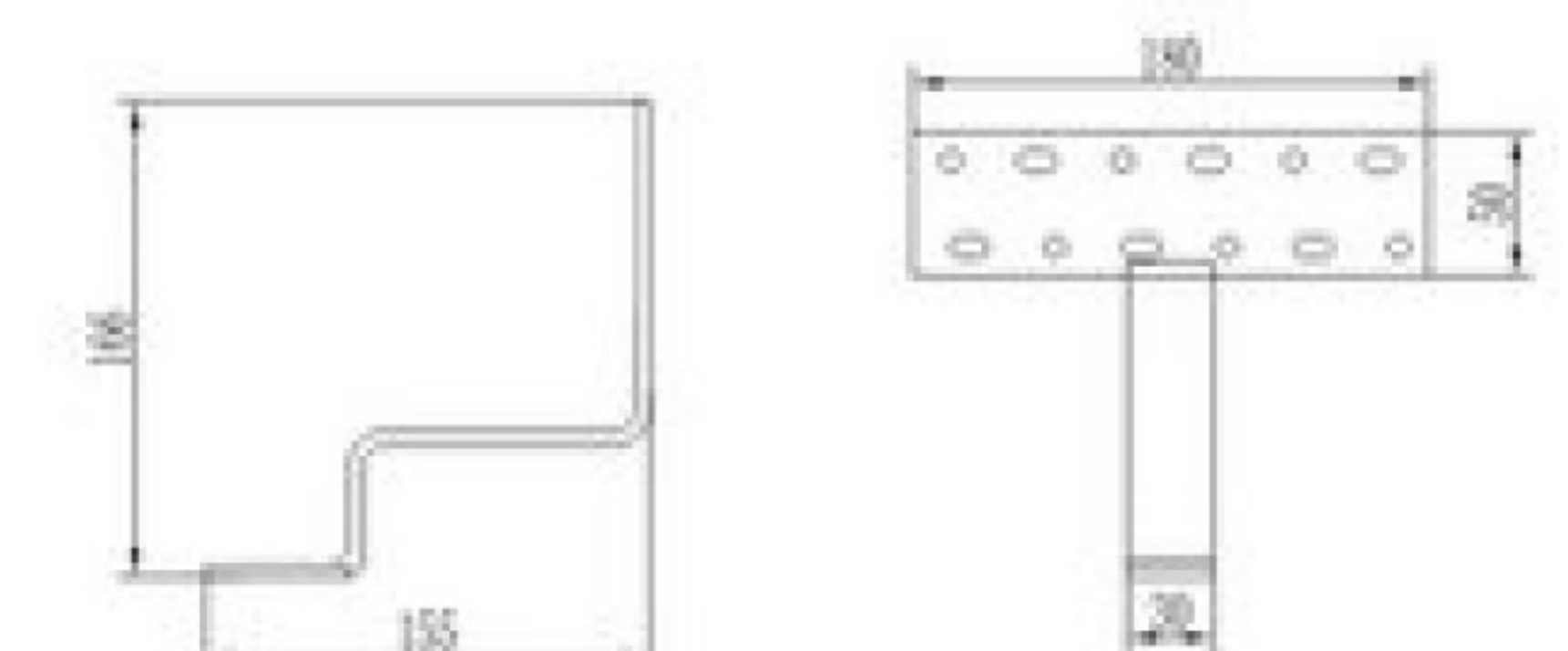


FZH-01S

	mm	Inches		mm	Inches
a	46.0	1.81	e	180.0	7.09
b	100.0	3.94	f	30.0	1.18
c	216.0	8.51	h	6.0	0.24
d	50.0	1.97			



FZH-01S

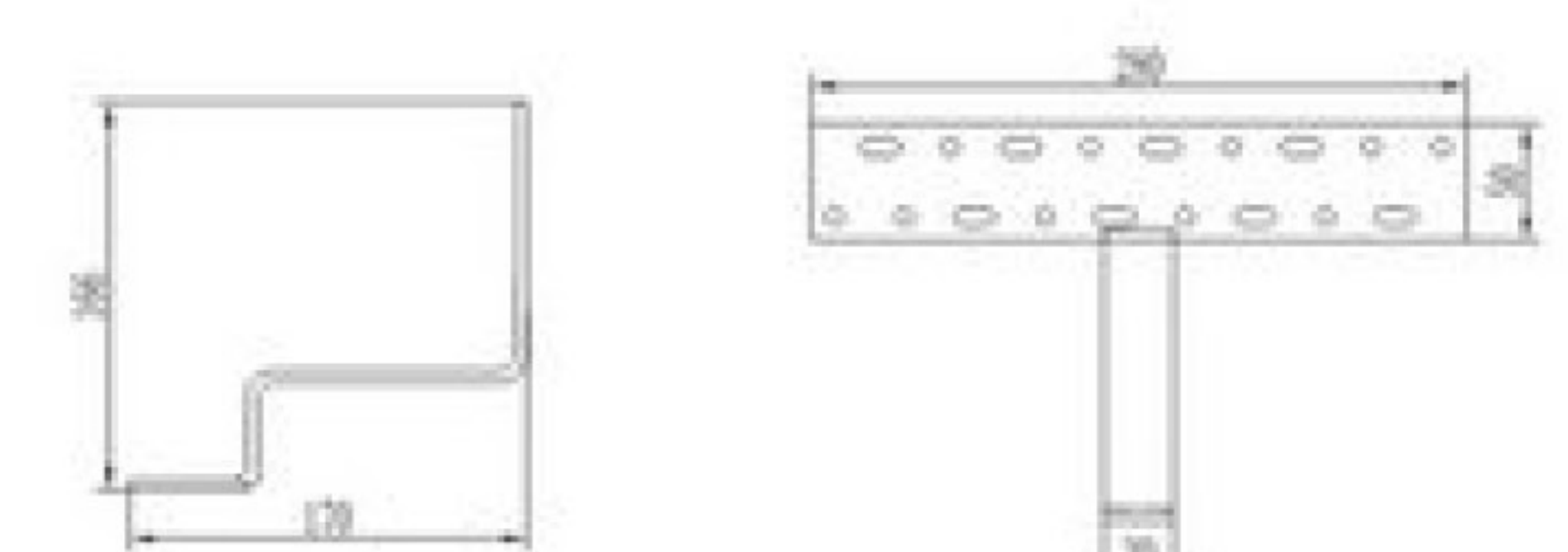


FZH-071

	mm	Inches		mm	Inches
a	46.0	1.81	e	280.0	11.02
b	100.0	3.94	f	30.0	1.18
c	166.0	6.54	h	5.0	0.20
d	50.0	1.97			



FZH-071



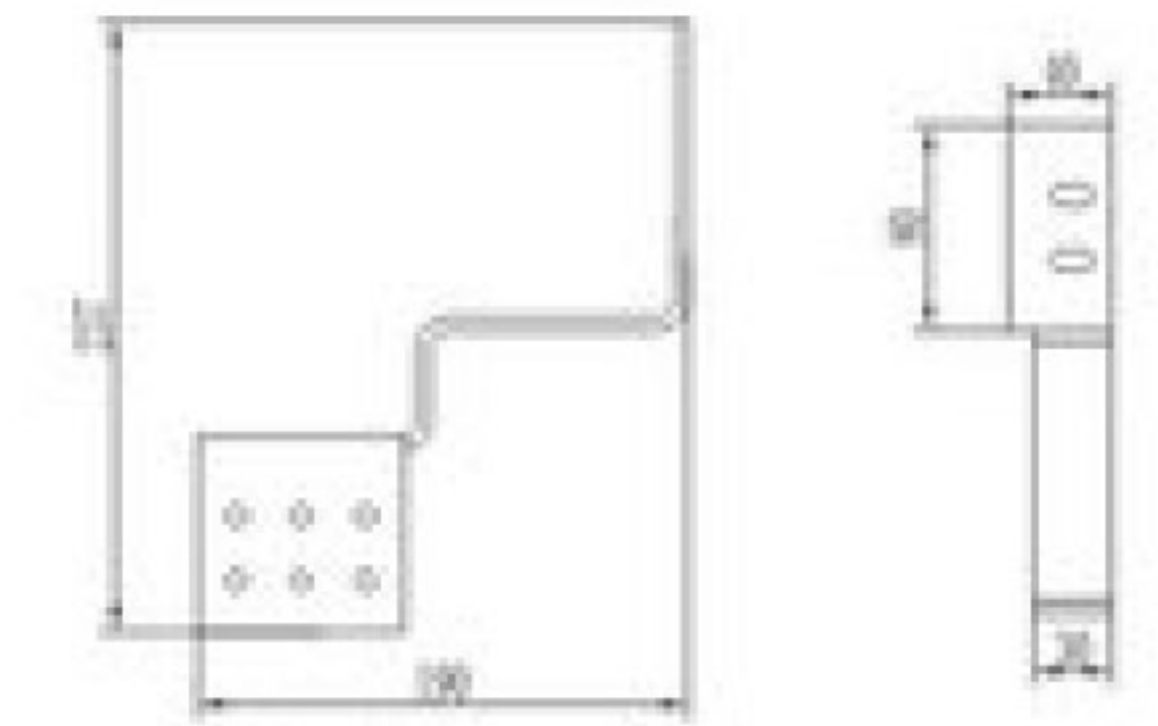
Roof Hook Overview — Pitch tile roof

FZH-02

	mm	Inches		mm	Inches
a	30.0	1.81	e	30.0	1.18
b	100.0	3.94	f	30.0	1.18
c	166.0	6.54	h	5.0	0.20
d	80.0	3.15			



FZH-02

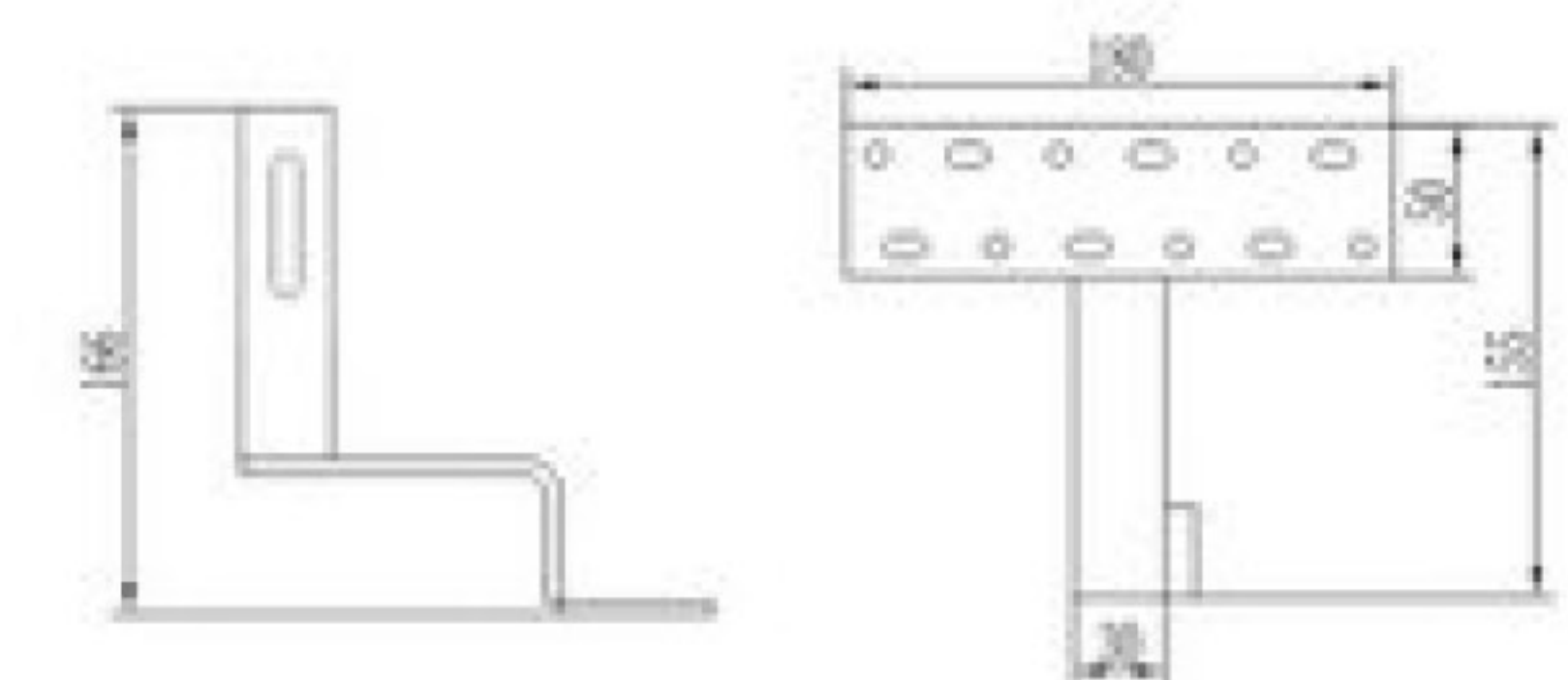


FZH-03

	mm	Inches		mm	Inches
a	46.0	1.81	e	180.0	7.09
b	75.0	2.95	f	30.0	1.18
c	166.0	6.54	h	5.0	0.20
d	50.0	1.97			



FZH-03

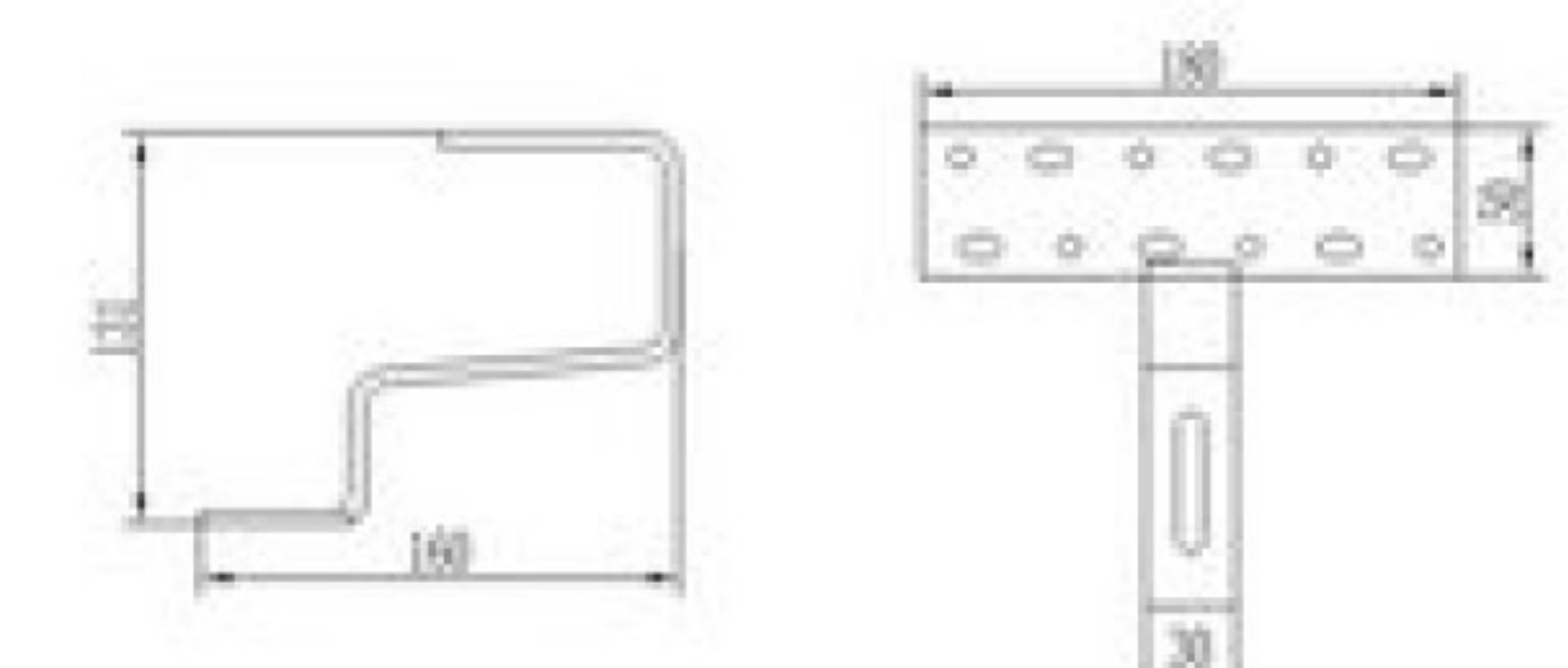


FZH-04

	mm	Inches		mm	Inches
a	46.0	1.81	e	180.0	7.09
b	110.0	4.33	f	30.0	1.18
c	126.0	4.96	h	5.0	0.20
d	50.0	1.97			



FZH-04



FZH-09

	mm	Inches		mm	Inches
a	40-50	1.57-1.97	e	140.0	5.51
b	104.0	4.09	f	30.0	1.18
c	162-172	6.38-6.77	h	5.0	0.20
d	54.0	2.13			



FZH-09



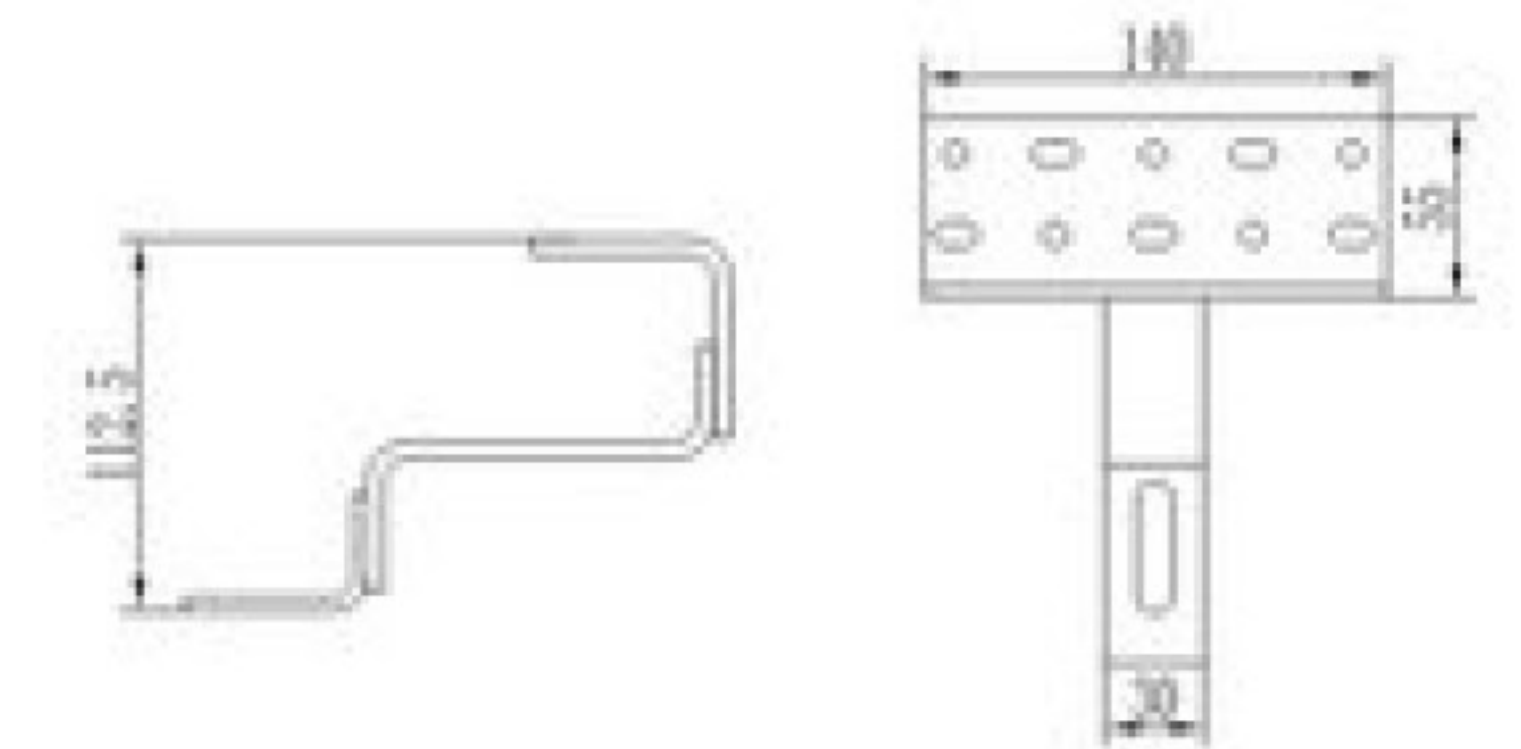
Roof Hook Overview — Pitch tile roof

FZH-09V

	mm	Inches		mm	Inches
a	40-50	1.57-1.97	e	140.0	5.51
b	104.0	4.09	f	30.0	1.18
c	83-122	3.27-4.8	h	5.0	0.20
d	55.0	2.17			



FZH-09V

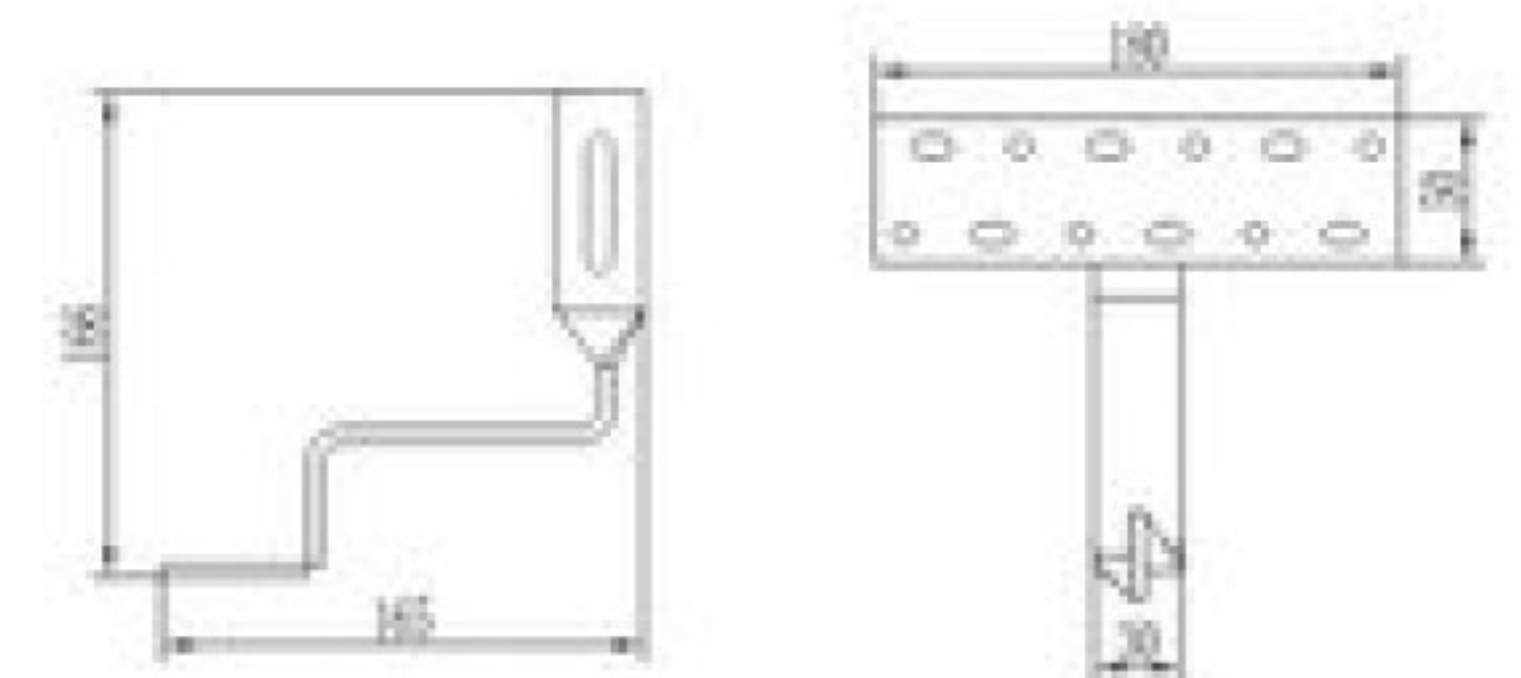


FZH-01B

	mm	Inches		mm	Inches
a	46.0	1.81	e	180.0	7.09
b	100.0	3.94	f	30.0	1.18
c	166.0	6.54	h	5.0	0.20
d	50.0	1.97			



FZH-01B

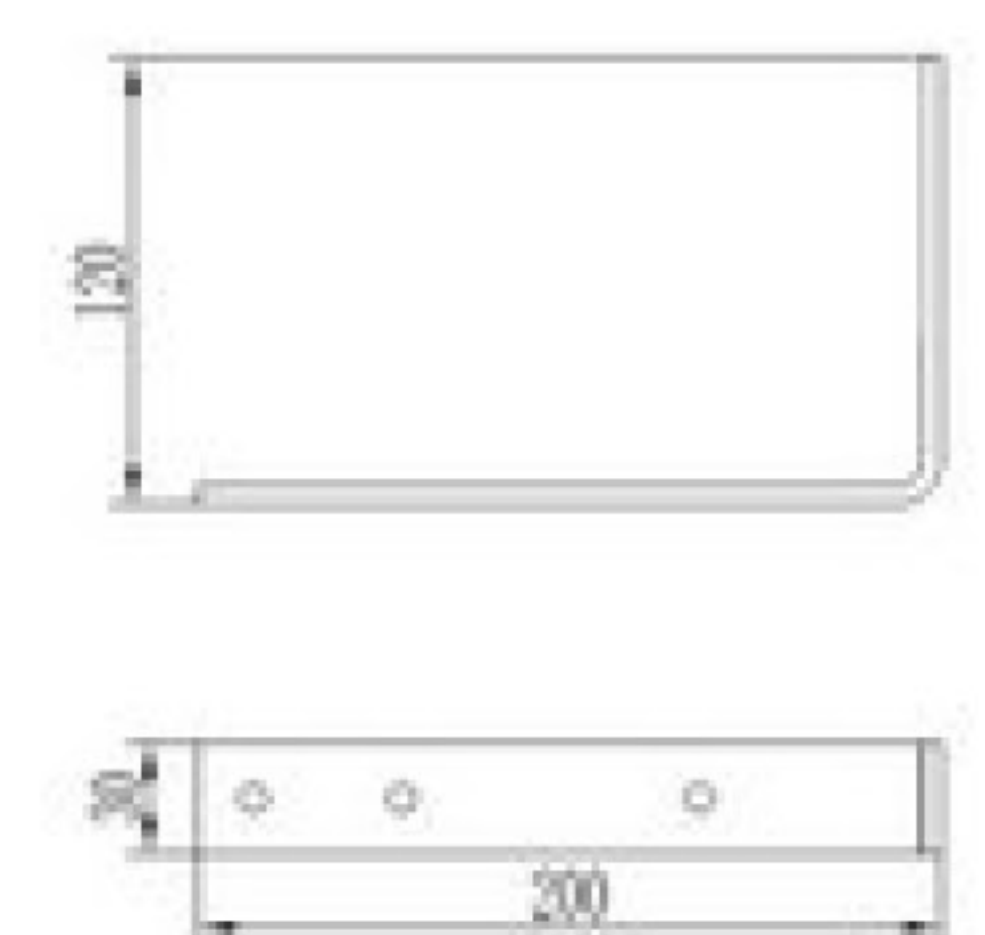


FZH-07

	mm	Inches		mm	Inches
a	0.0	0.00	e	30.0	1.18
b	195.0	7.68	f	30.0	1.18
c	120.0	4.72	h	5.0	0.20
d	195.0	7.68			



FZH-07

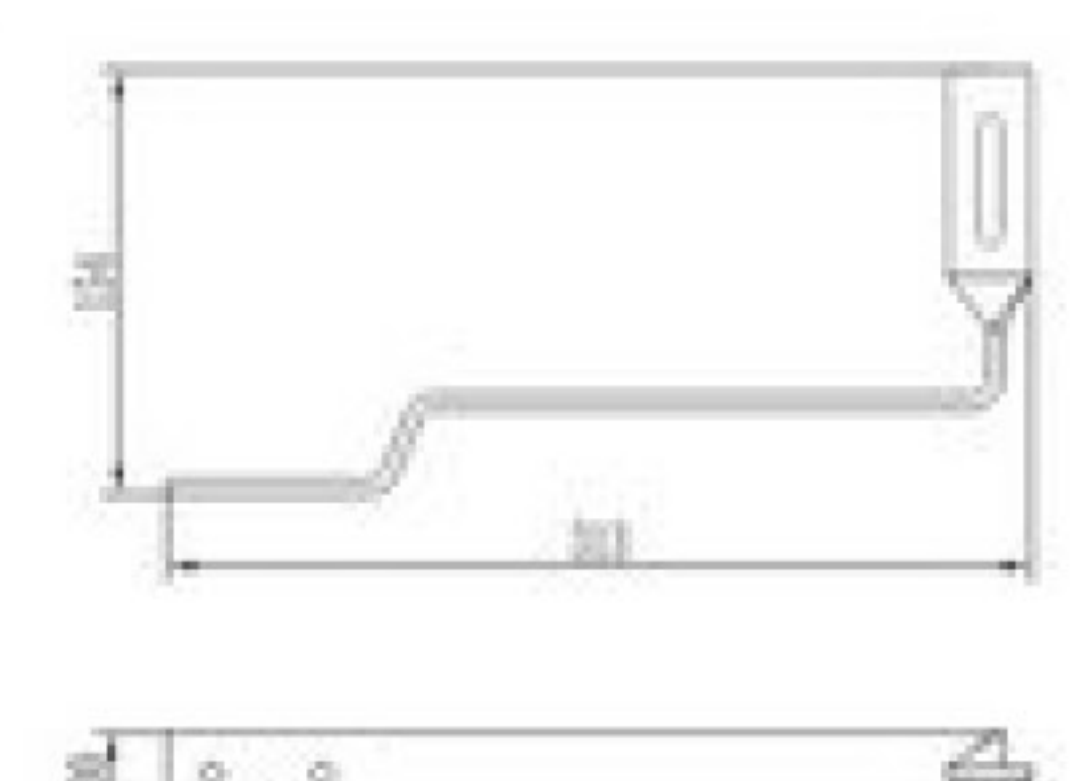


FZH-05B

	mm	Inches		mm	Inches
a	31.0	1.22	e	30.0	1.18
b	208.0	8.19	f	30.0	1.18
c	154.0	6.06	h	5.0	0.20
d	80.0	3.15			



FZH-05B



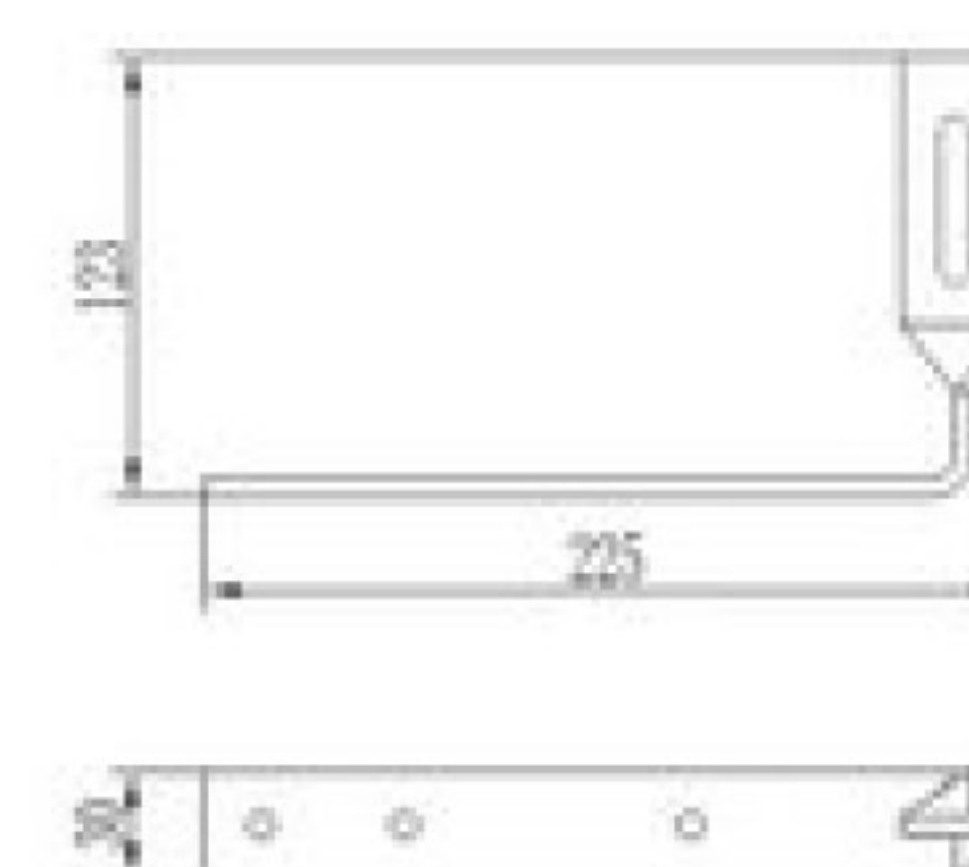
Roof Hook Overview — Pitch tile roof

FZH-7B

	mm	Inches		mm	Inches
a	0.0	0.00	e	30.0	1.18
b	195.0	7.68	f	30.0	1.18
c	120.0	4.72	h	5.0	0.20
d	195.0	7.68			



FZH-07B

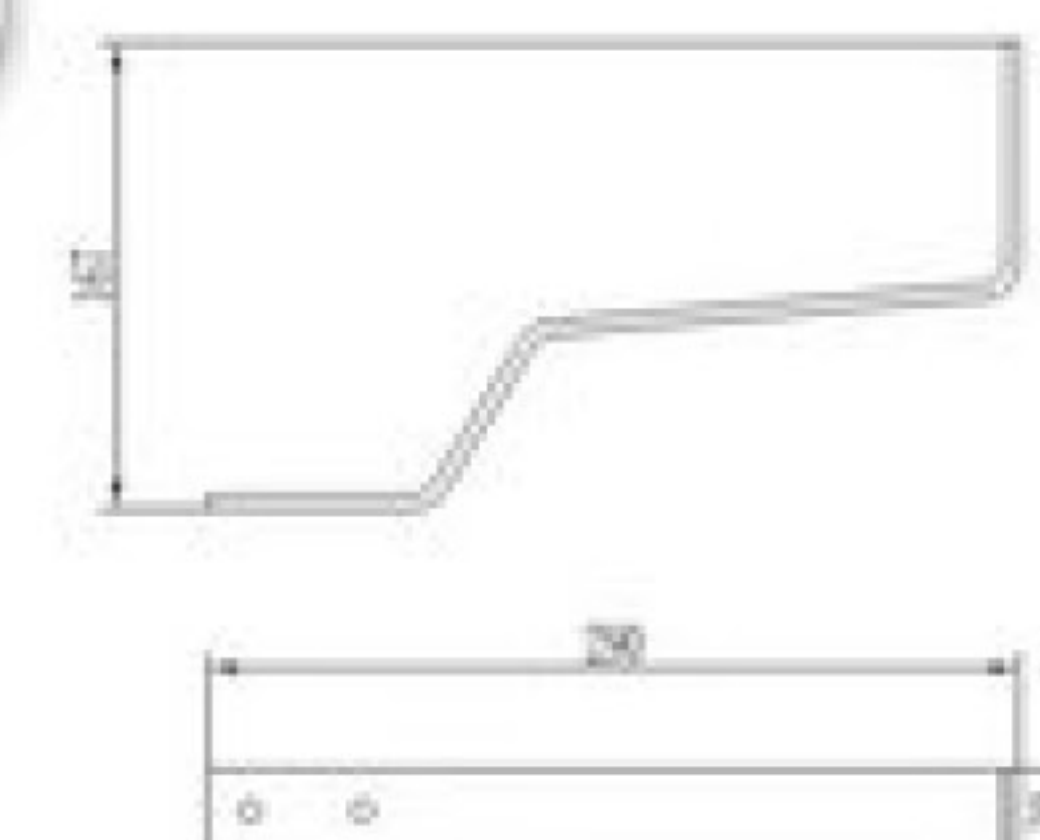


FZH-05

	mm	Inches		mm	Inches
a	31.0	1.22	e	30.0	1.18
b	208.0	8.19	f	30.0	1.18
c	170.0	6.69	h	5.0	0.20
d	80.0	3.15			



FZH-05

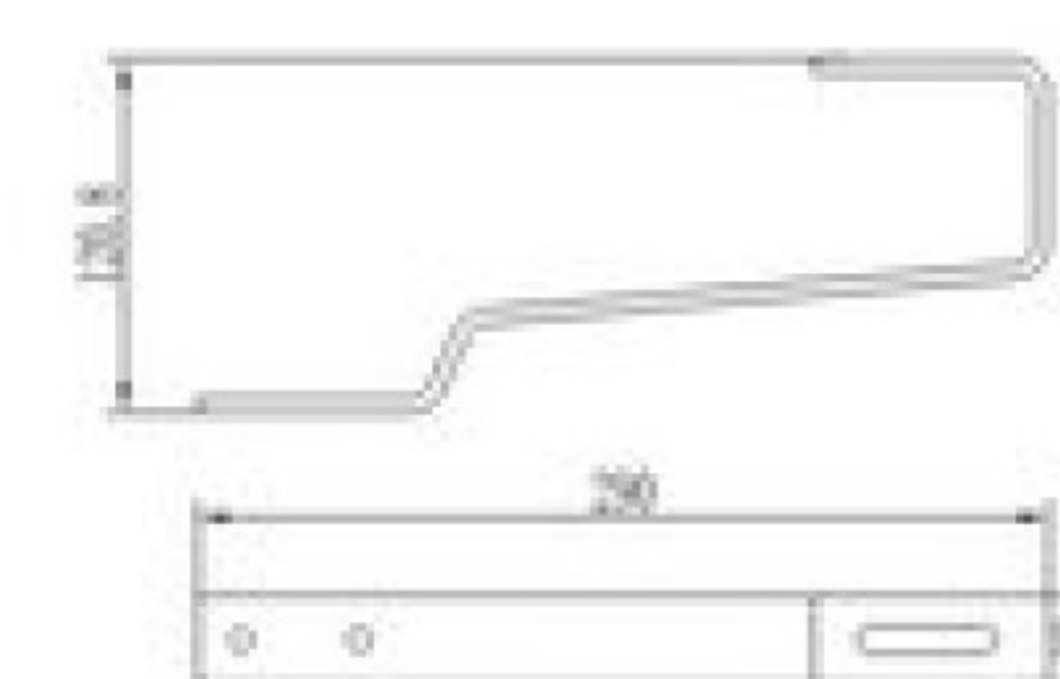


FZH-06

	mm	Inches		mm	Inches
a	31.0	1.22	e	30.0	1.18
b	208.0	8.19	f	30.0	1.18
c	120.0	4.72	h	5.0	0.20
d	80.0	3.15			



FZH-06

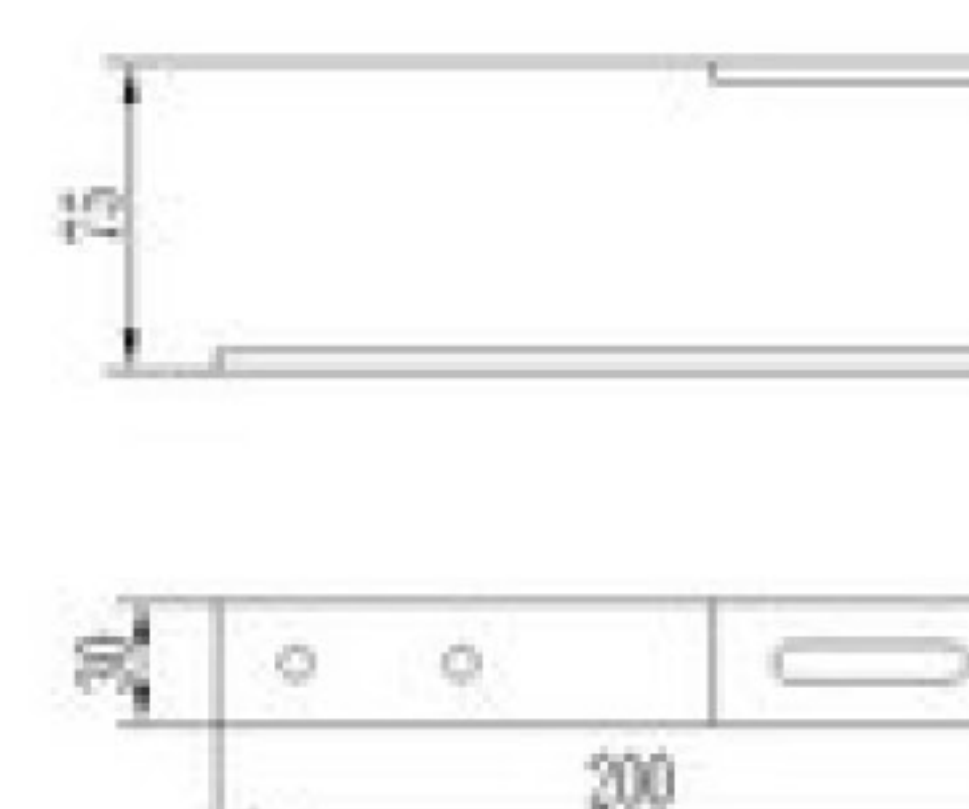


FZH-10

	mm	Inches		mm	Inches
a	0.0	0.00	e	30.0	1.18
b	195.0	7.68	f	30.0	1.18
c	65.0	2.56	h	5.0	0.20
d	0.0	0.00			



FZH-10



Flat Roof — AL triangular system

AL adjustable triangular structure

- Tilt-in nut easy to install
- Material AL6005-T5 & SUS304
- Designed to accommodate to flat roof or small open ground

• **Package 10 PCS/PKG**

TM-1015	Tilt solar panel from 10 to 15 degree
TM-1530	Tilt solar panel from 15 to 30 degree
TM-3045	Tilt solar panel from 30 to 45 degree



AL fixed triangular structure

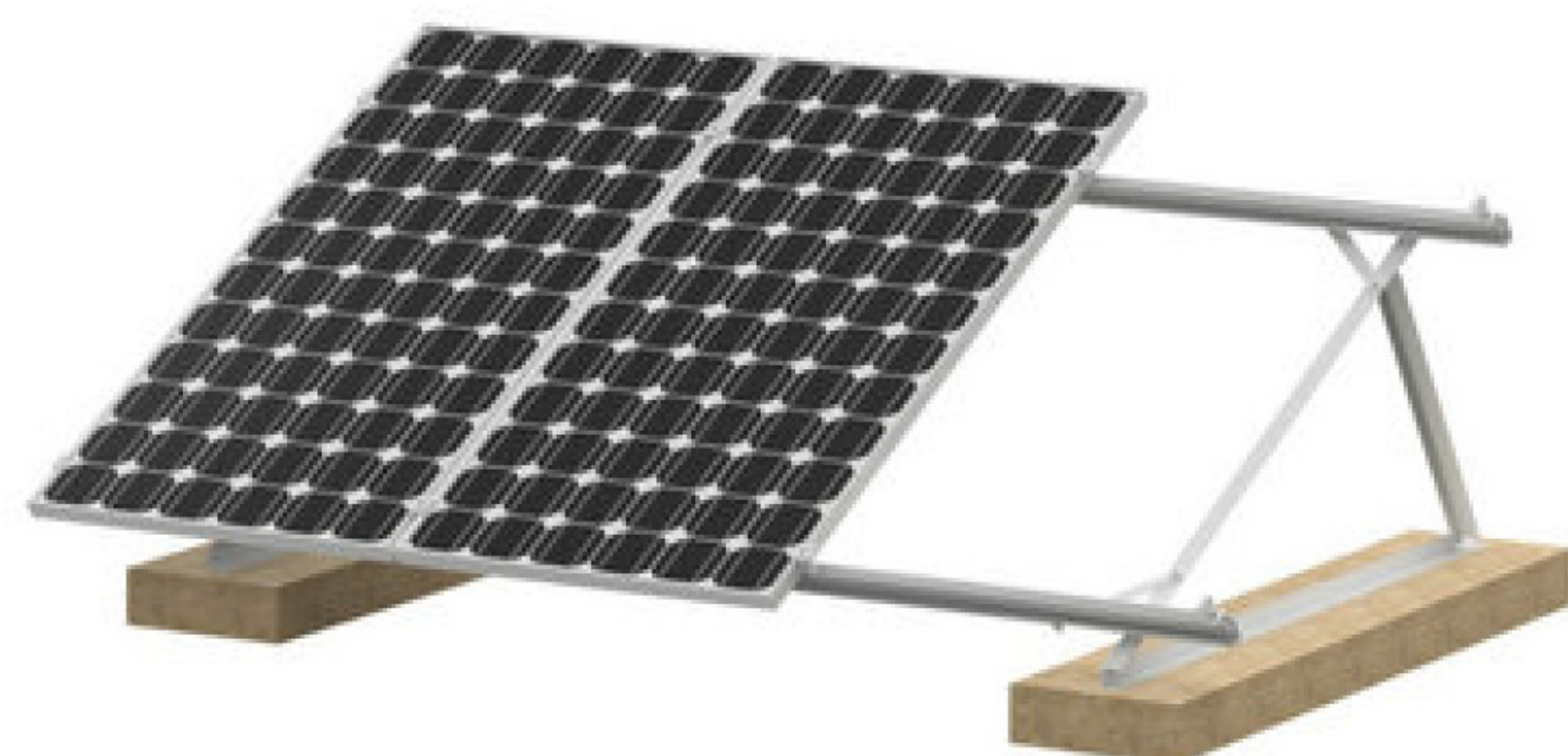
- Tilt-in nut easy to install
- Material AL6005-T5 & SUS304
- Designed to accommodate to flat roof or small open ground

• **Package 10 PCS/PKG**

TM-15	Tilt solar panel in 15 degree
TM-20	Tilt solar panel in 20 degree
TM-30	Tilt solar panel in 30 degree



Installation



Flat Roof — Ballast System

Ballast structure I without base rail

- Material AL 5052 and AL 6005-T5
- SUS 304 screw and bolt
- Foldable supporting structure
- Concrete ballast at backside

• **Package 20 PCS/CTN**

BT-15A	Tilt system in 15 degree
BT-20A	Tilt system in 20 degree
BT-30A	Tilt system in 30 degree



Ballast structure I with base rail

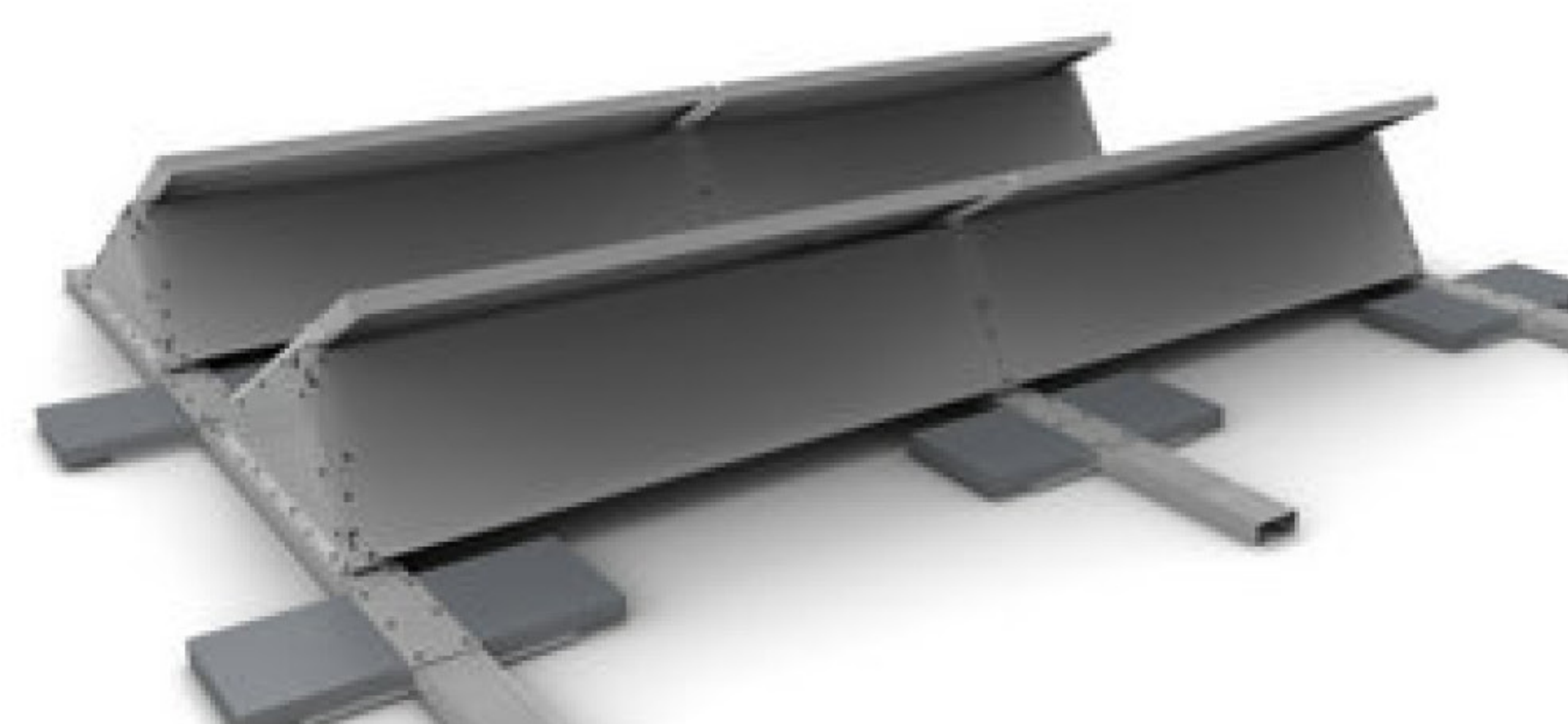
- Material AL 5052 and AL 6005-T5
- SUS 304 screw and bolt
- Foldable supporting structure
- Concrete ballast at base rail

• **Package 20 PCS/CTN**

BT-15B	Tilt system in 15 degree
BT-20B	Tilt system in 20 degree
BT-30B	Tilt system in 30 degree



Installation



Flat Roof — Ballast system

Ballast structure II

- Material AL 6005-T5
- SUS 304 screw and bolt
- Ballast concrete at bottom rail

• **Package 20 PCS/PKG**

BN-15	Tilt solar panel in 15 degree
BN-20	Tilt solar panel in 20 degree
BN-30	Tilt solar panel in 30 degree

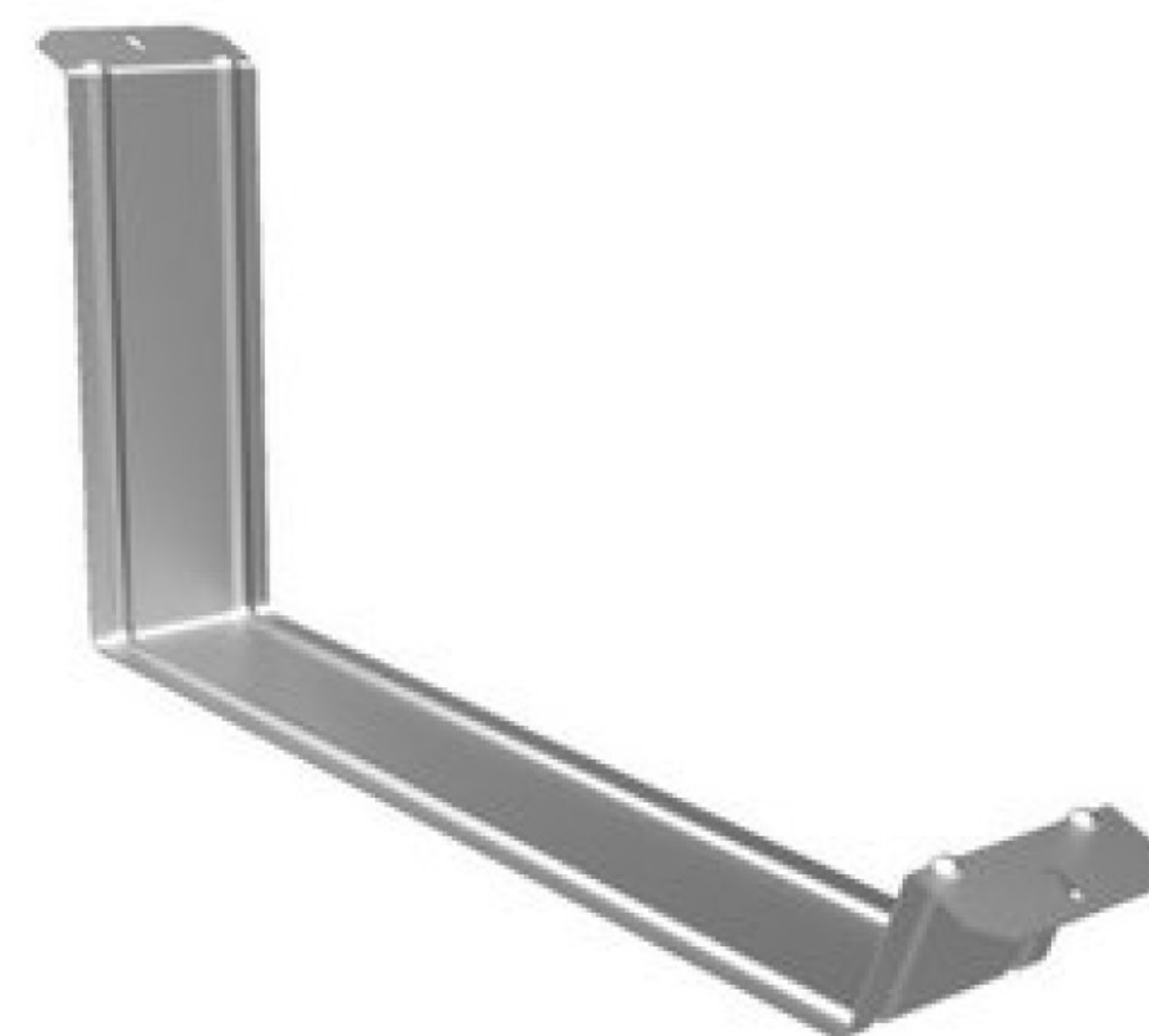


Ballast structure III

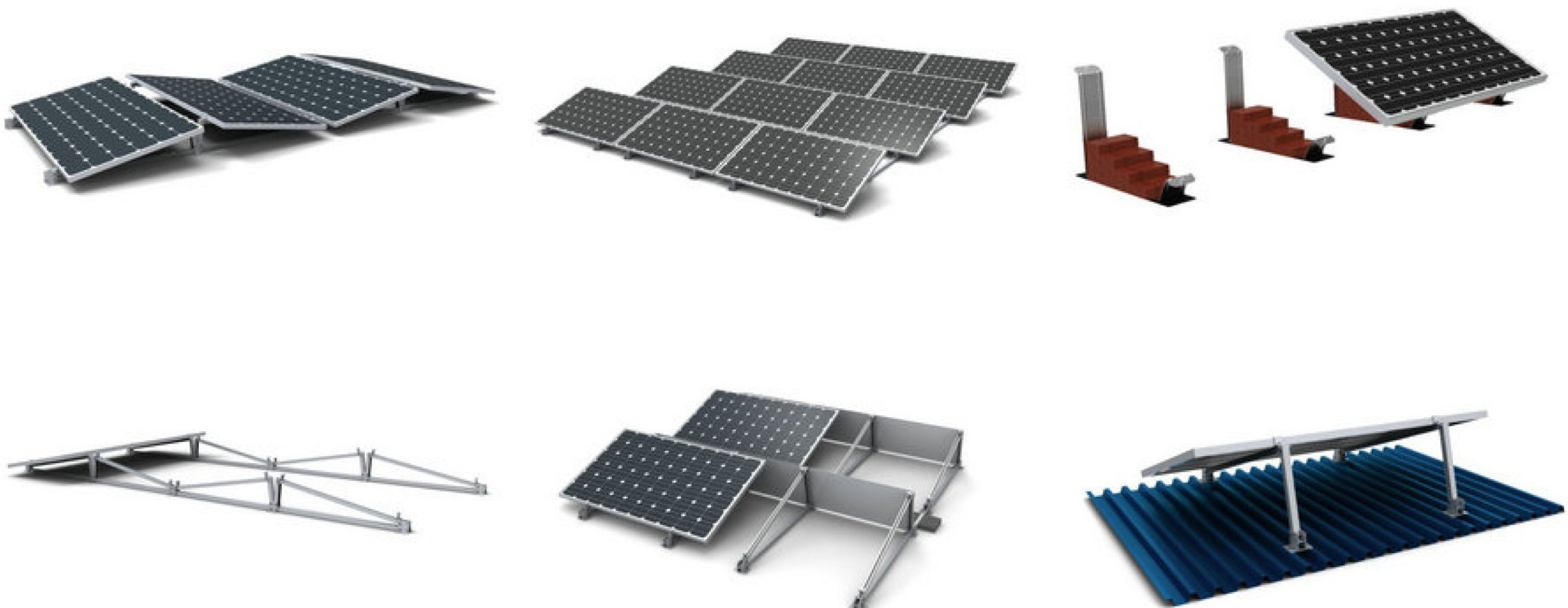
- Material AL 5052
- SUS 304 screw and bolt
- Ballast concrete tile at upside

• **Package 5 PCS/PKG**

BL-800-15	Tilt solar panel in 15 degree
BL-800-20	Tilt solar panel in 20 degree
BL-800-30	Tilt solar panel in 30 degree
BL-990-15	Tilt solar panel in 15 degree
BL-990-20	Tilt solar panel in 20 degree
BL-990-30	Tilt solar panel in 30 degree



Installation



Ground Mount — Adjustable system

Manual adjustable system

- Material hot galvanized steel Q235B
- Anticorrosive finished high class hot galvanized
- All bolts in zinc coating

MA-1050

System adjusted in 5 different degree by manual for season requirement



Universal triangle supporting structure

- Anticorrosive finished high class hot galvanized
- All bolts in zinc coating
- Easy package-highly pre-assembled and foldable supports ensure easy delivery and stock

QT-2045

Adjustable triangle support structure 20 - 45 degree



Installation



Ground Mount — AL V structure

AL V shape

- Material AL 6005-T5 high class anodized
- All screws in SUS 304
- Easy for installation

A2V-15	Tilt system in 15 degree
A2V-20	Tilt system in 20 degree
A2V-30	Tilt system in 30 degree



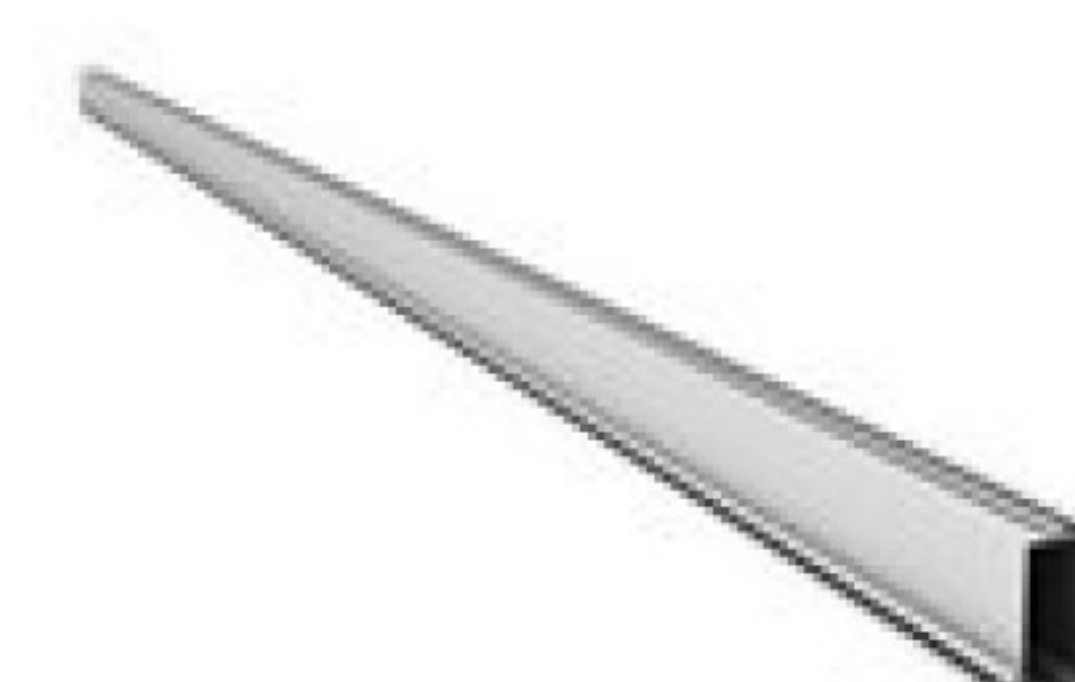
AL V shape structure with ground screws

- Material AL 6005-T5 high class anodized
- All screws in SUS 304
- Easy for installation

A2V-15	Tilt system in 15 degree
A2V-20	Tilt system in 20 degree
A2V-30	Tilt system in 30 degree



Installation



Ground Mount — Universal system

Pole ground supporting structure with flange leg

- Anticorrosive finished high class hot galvanized
- All bolts in zinc coating
- Quick and easy installation

GS-P60-I Pole ground supporting structure with flange to fit on ground screw type I



Pole ground supporting structure

- Anticorrosive finished high class hot galvanized
- All bolts in zinc coating
- Quick and easy installation

GS-P60-II Pole ground supporting structure without flange to fit into ground screw type II



Installation



Ground Mount — V structure

V-1 ground mount system

- Material steel Q235B
- Anticorrosive finished high class hot galvanized
- All bolts in zinc coating



1V-10	Tilt system in 10 degree
1V-15	Tilt system in 15 degree
1V-20	Tilt system in 20 degree
1V-2530	Tilt system in 25 or 30 degree
1V-3545	Tilt system in 35 or 40 or 45 degree

V-2 ground mount system

- Material hot galvanized steel Q235B
- Anticorrosive finished high class hot galvanized
- All bolts in zinc coating



2V-1015	Tilt system in 10 or 15 degree
2V-2025	Tilt system in 20 or 25 degree
2V-3035	Tilt system in 30 or 35 degree
2V-4045	Tilt system in 40 or 45 degree

Installation

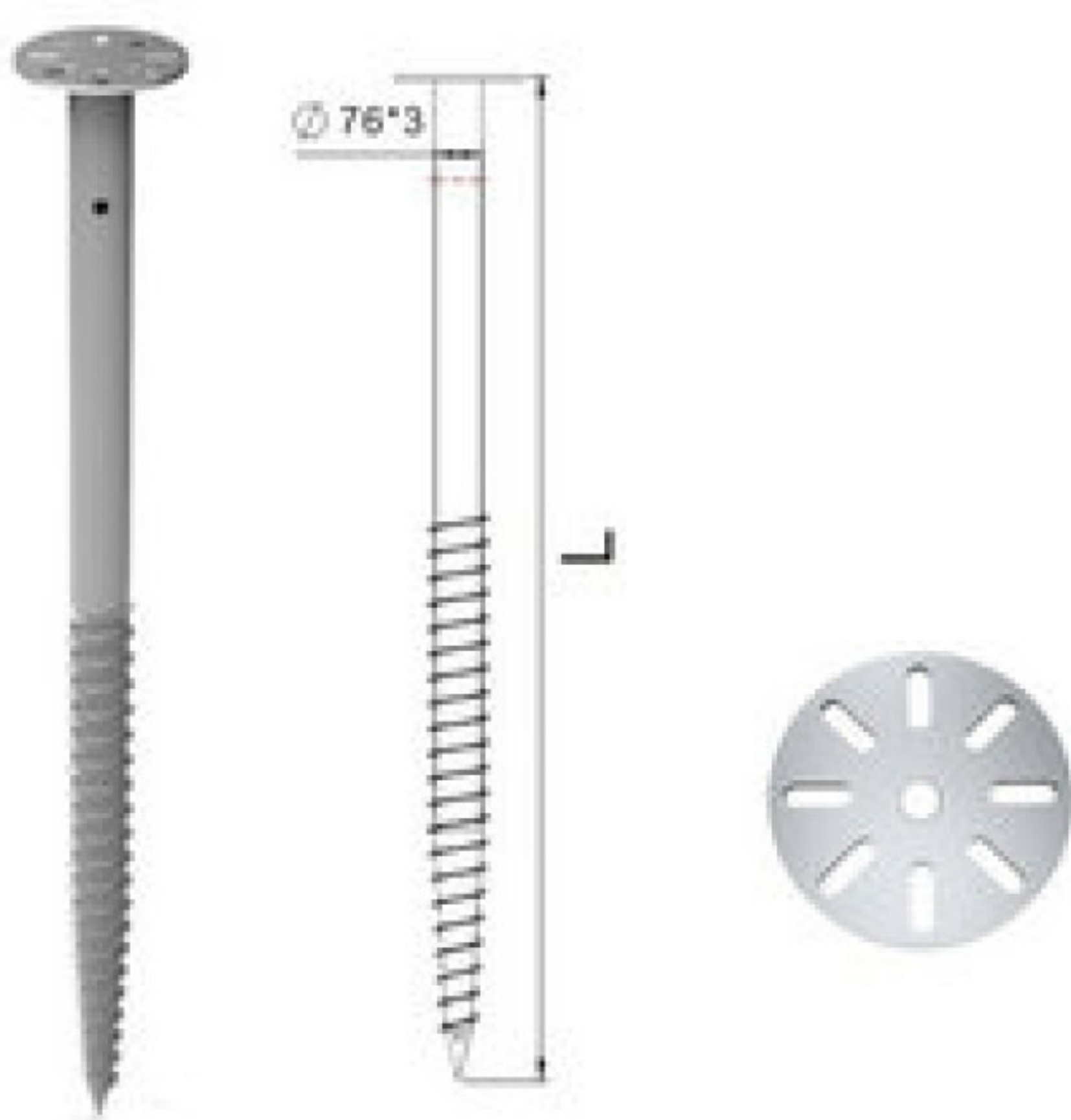


Ground Mount — Foundation

Ground Screw type I with flange I

- Material steel Q235B
- Anticorrosive finished high class hot galvanized
- **Package 96 PCS/Pallet**

Item	Pipe diameter (mm)	Length (mm)	Thickness (mm)
GS-F76301200-01	76	1200	3.0/3.5
GS-F76301600-01	76	1600	3.0/3.5
GS-F76302000-01	76	2000	3.0/3.5



Ground Screw type I with flange II

- Material steel Q235B
- Anticorrosive finished high class hot galvanized
- **Package 96 PCS/Pallet**

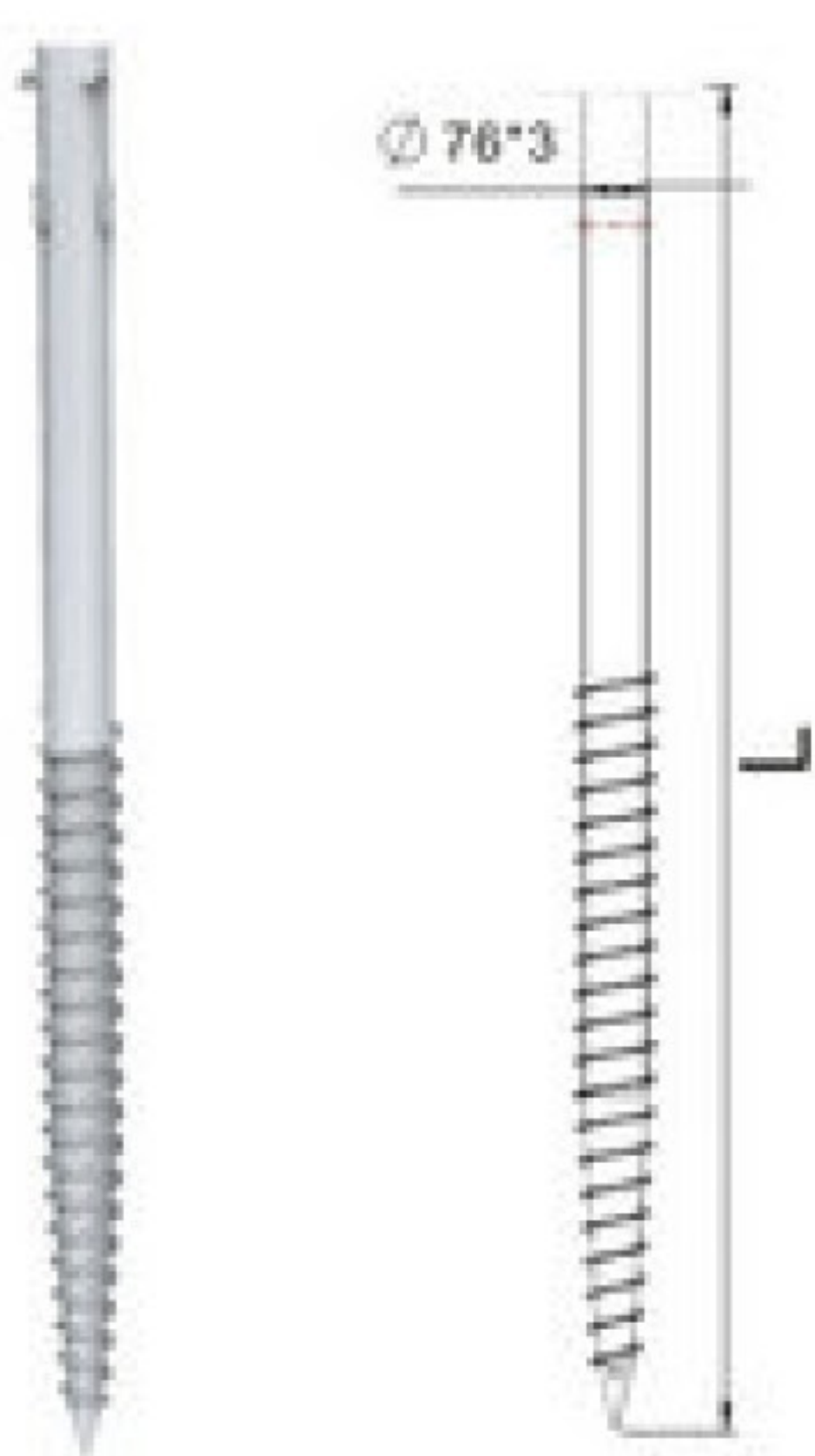
Item	Pipe diameter (mm)	Length (mm)	Thickness (mm)
GS-F76301200-02	76	1200	3.0/3.5
GS-F76301600-02	76	1600	3.0/3.5
GS-F76302000-02	76	2000	3.0/3.5



Ground Screw type II without flange

- Material steel Q235B
- Anticorrosive finished high class hot galvanized
- **Package 96 PCS/Pallet**

Item	Pipe diameter (mm)	Length (mm)	Thickness (mm)
GS-N76301200-01	76	1200	3.0/3.5
GS-N76301600-01	76	1600	3.0/3.5
GS-N76302000-01	76	2000	3.0/3.5



Steel Anchor 3 pipe

- Material steel Q235B
- Anticorrosive finished high class hot galvanized
- **Package 8 PCS/CTN**

NK-SK	Top plate connected to anchor foundation of 3 pipes
NK-01	Anchor foundation 01 big with 3 pipes
NK-02	Anchor foundation 02 small with 3 pipes



Components — Cable clip

Solar cable clips 2.5

- Suit all solar modules and cable configurations
- Flaired edges on the clip protected cables from damages
- Made from stainless steel SUS 304
- Ten years product warranty
- **Package 8000 PCS/CTN**

FSC-CP1 Hold one or two 2.5mm² solar cable



Solar cable clips 4.0

- Suit all solar modules and cable configurations
- Flaired edges on the clip protected cables from damages
- Made from stainless steel SUS 304
- Ten years product warranty
- **Package 8000 PCS/CTN**

FSC-CP2 Hold one or two 4.0mm² solar cable



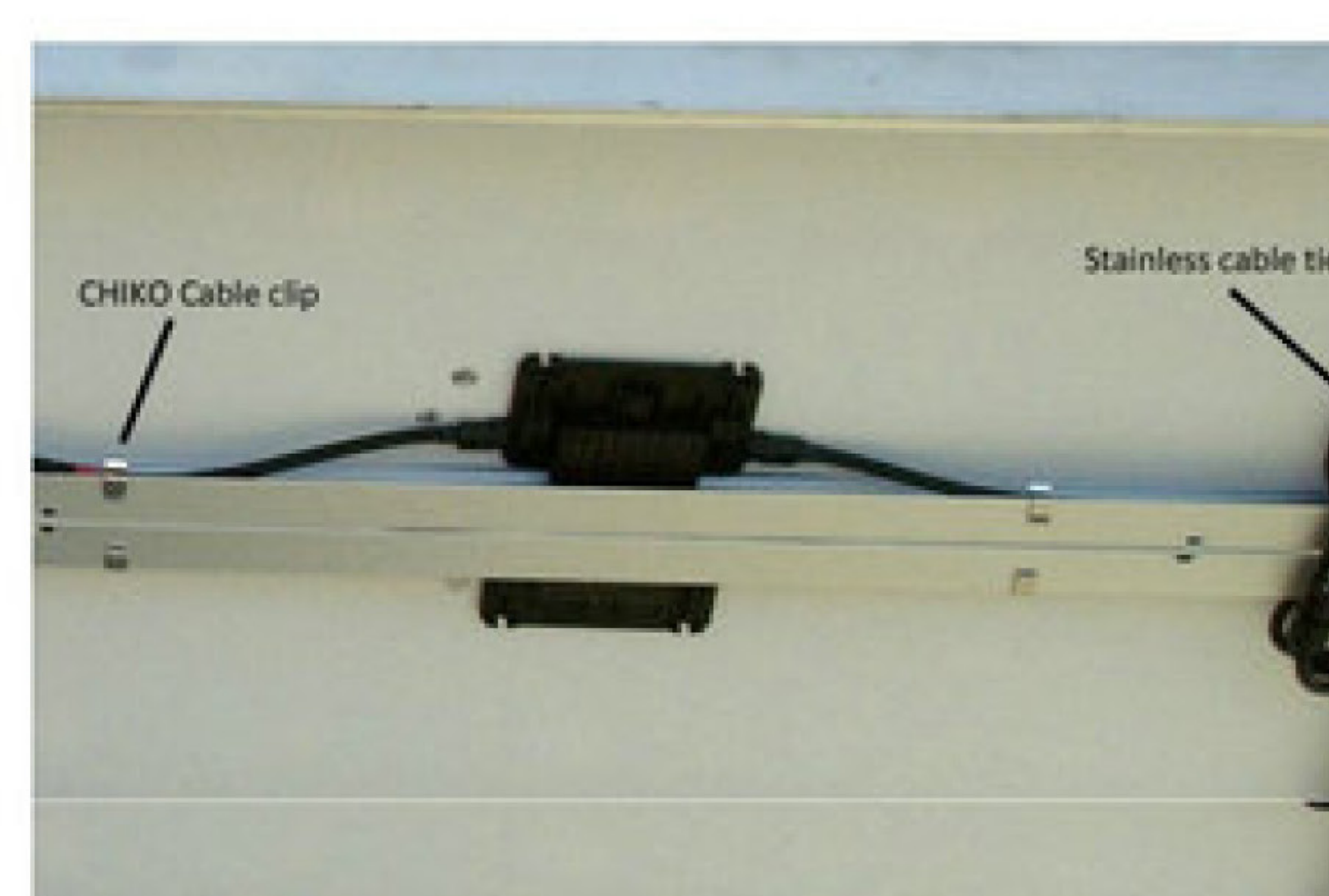
Solar cable clips 6.0

- Suit all solar modules and cable configurations
- Flaired edges on the clip protected cables from damages
- Made from stainless steel SUS 304
- Ten years product warranty
- **Package 8000 PCS/CTN**

FSC-CP3 Hold one or two 6.0mm² solar cable



Installation



Components — Cable Tie

Feature

Stainless Steel Cable Ties are available in various lengths and widths to suit all types of applications,
Baterial:Stainless steel 304
They are ideal for environmental harsh conditions including indoors, outdoors and whole ground.
Using a unique buckle locking mechanism to enable quick and easy installation by hand.

Stainless Steel Cable Ties

Item	Width	Length	Package
	(mm)	(mm)	(pcs/pkg)
FSC-TA-150	4.6	150	100
FSC-TA-200	4.6	200	100
FSC-TA-250	4.6	250	100
FSC-TA-300	4.6	300	100
FSC-TA-350	4.6	350	100
FSC-TB-100	8	100	100
FSC-TB-150	8	150	100
FSC-TB-180	8	180	100
FSC-TB-200	8	200	100
FSC-TB-250	8	250	100
FSC-TB-300	8	300	100
FSC-TB-350	8	350	100
Material in high quality SUS304			



Components — PV Connector

PV Connector

0807-3A/3B(MC4) MC4 branch connector 500 PCS/PKG



PV Connector

0807-A/B(MC4) MC4 connector 500 PCS/PKG



PV Connector

0808-3A/3B(MC3) MC3 branch connector 500 PCS/PKG



PV Connector

0808-A/B(MC3) MC3 connector 500 PCS/PKG



Feature

0807-A/B 0807-3A/3B 0808-A/B 0808-3A/3B PV Junction Box adopts crowned spring and has automaticlocking mechanism on plugs to ensure solid connection between contact and connector. Connector plug (negative) is equipped with buttons that are symmetric at the bottom to ensure the convenience of removal. Such removal does not need any extra instruments, therefore, can make sure that the plug is intact. This advanced product, with easy usage, is more convenient to use than similar products. In addition, the product also confirms to DIN V VDE V 0126-3.



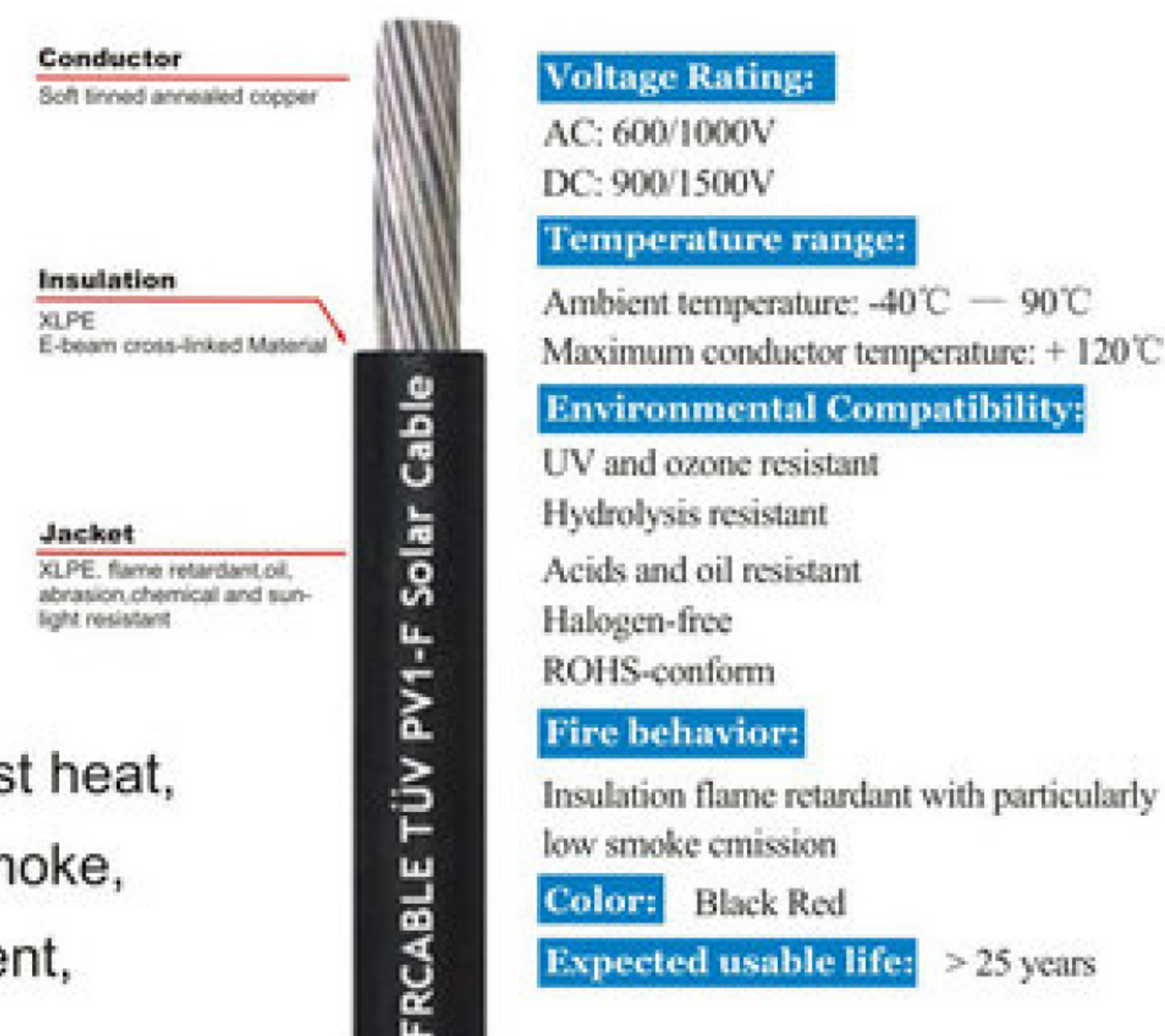
MC4 connector, can connect with solar cable 2m,4m,6m,8m,10m,12m, Pretty flexible.



Components — Photovoltaic Cable

Photovoltaic Cable

- Conductor : Tinned annealed copper
- Insulation : 120°CXLPE, black
- Jacket : 120°CXLPE, black
- voltage 600/1000V temperature 120°C
- Specifically designed for connecting photovoltaic system components inside and outside of building and equipment with high mechanical requirements and extreme weather conditions .for permanent installations.
- Cable made of electron-beam cross-linked insulation and coating; high resistance against heat, cold, oil, abrasion, ozone, UV and weather; with improved reaction in case of fire; low smoke, halogen free, flame free,flame retardant; flexible, easy to strip, very low space requirement, extremely mechanically robust, very long lifetime.



Construction:

Conductor			Insulation	Insulation Standard Dia.	Jacket	Outer Dia.	Conductor resistance (20 °C)	Max. Current Carrying Capacity
Type	Construction	ConductorDia.	Standard Thickness		Standard Thickness			
mm ²	N/mm	(about)mm	mm	mm	mm	mm	Ω / KM	Apm
1.5	30/0.25±0.006	1.58	0.9	3.38 ± 0.1	1.10	5.5±0.2	13.7	30
2.5	50/0.25±0.006	2.04	0.85	3.74 ± 0.1	0.90	5.5±0.2	8.21	41
4.0	56/0.30±0.006	2.59	0.85	4.29 ± 0.1	0.90	6.10±0.2	5.09	55
6.0	84/0.30±0.006	3.17	0.85	4.87 ± 0.1	1.05	7.0±0.2	3.39	70

Electrical Properties:

Item	Units	Specification
Conductor resistance (20 °C)	Ω / km	—
Insulation resistance (90 °C)	Ω / cm	≤10 ¹¹
Withstand voltage	V / 5min	AC6500
Lifetime	year	≤25years
Min.Bending Radius		5D



Photovoltaic Cable

Item	Description	Package(meter/CTN)
0809-1.5	Solar cable 1.5mm ²	500
0809-2.5	Solar cable 2.5mm ²	500
0809-4.0	Solar cable 4.0mm ²	500
0809-6.0	Solar cable 6.0mm ²	500



Projects



300kw power station India



30kw QLD Australia



2kw highway demo Australia



Projects



300kw
Commercial



3kw
tile roof



5kw
flat roof



2kw
tin roof



10kw
flat roof



300kw
kilplok roof

Package





EMPIRE SOLAR Co.,Ltd
79/240 Ramkhumhaeng 150, Sapansung District,
Bangkok Thailand

Tel: 02-372-2889, 083-177-1888
www.empiresolar.co.th