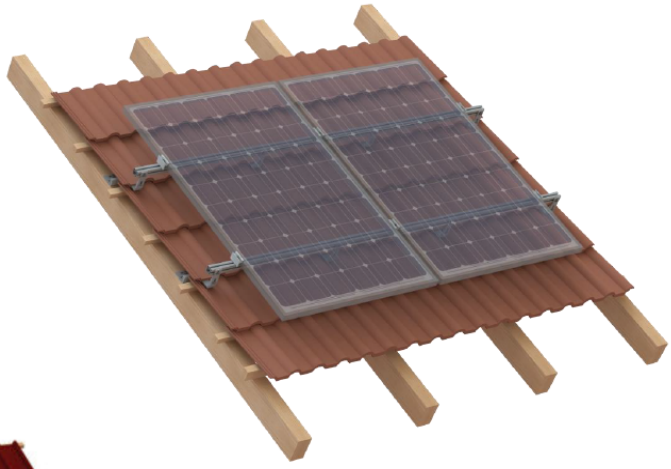
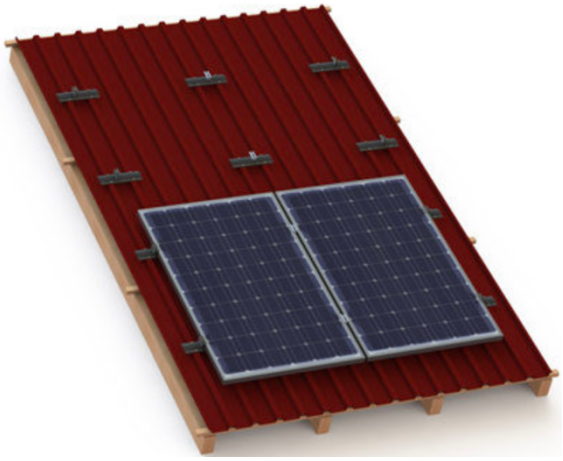
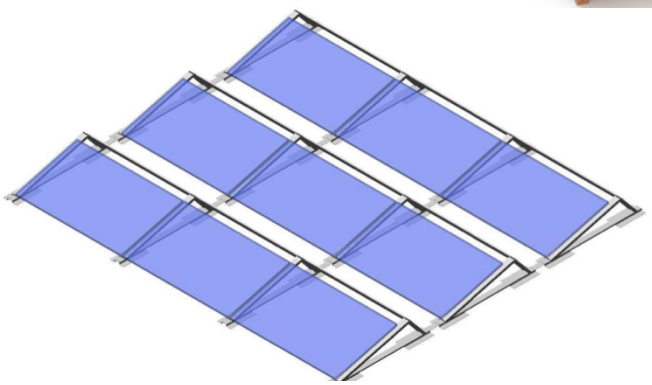
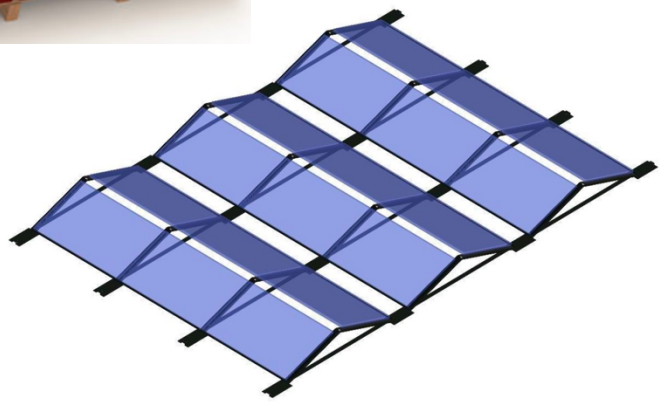
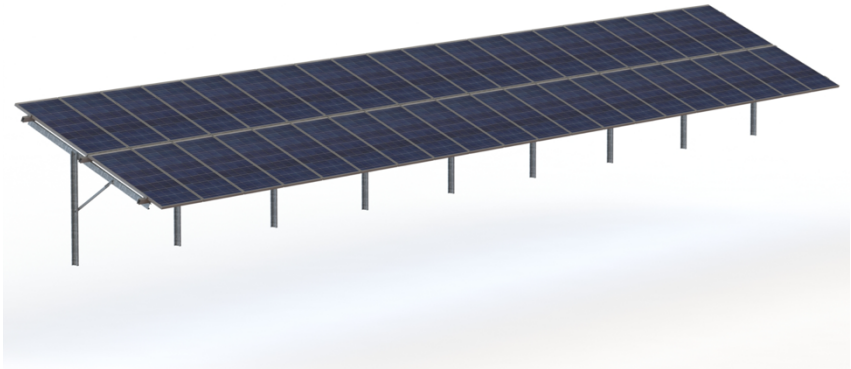
PROFinAL system solutions







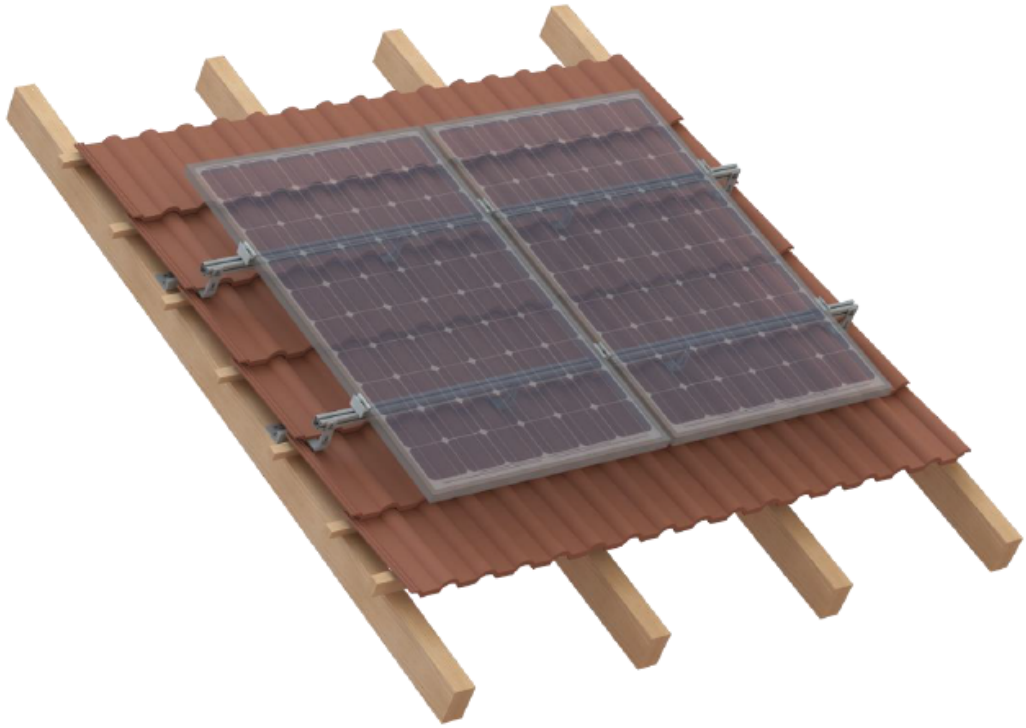




PROFINAL
MONTAGESYSTEME FÜR SOLARTECHNIK

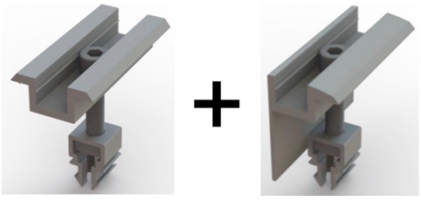
System for tiled roofs

Mounting with roof hooks

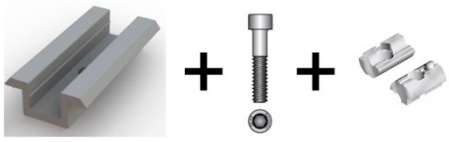


Roof hook adjustable
stainless steel

Mounting rail PR1
40 x 40 mm, span up to 2,65 m



KlickFix clamps
pre-assembled



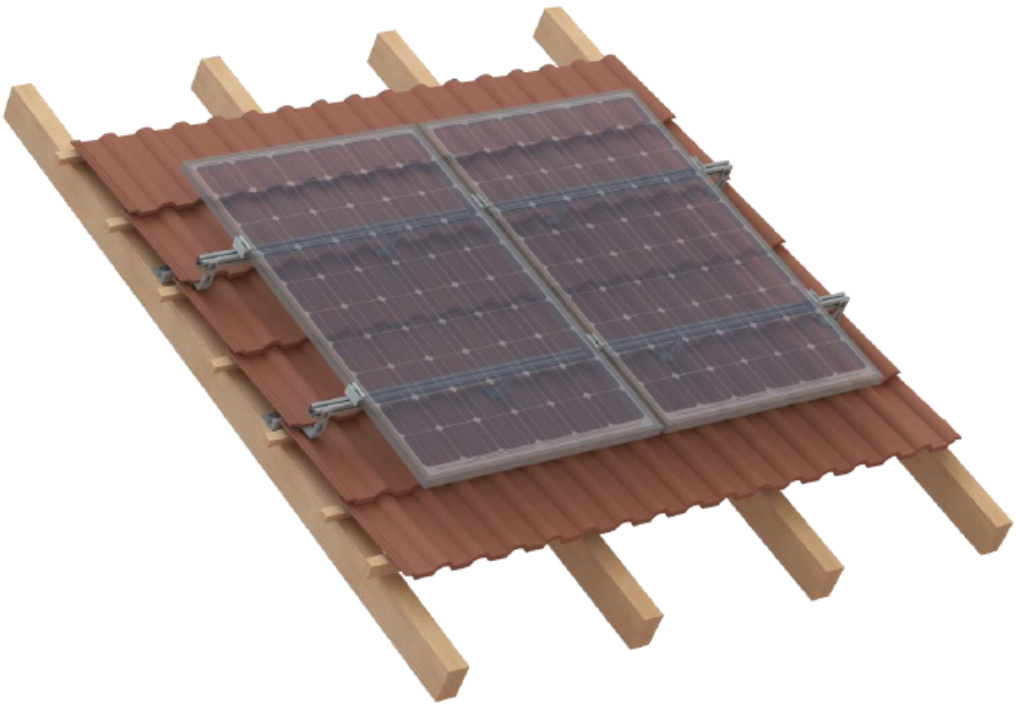
Standard clamps
not pre-assembled

Application:
Adjustable roof hook
Fastening:
Clickfix or Standard
Roof pitch:
Up to 60 degrees
Module type:
Framed modules
Module orientation:
Landscape / portrait
Layers of rails:
Single / double layer, cross rail installation
Advantages:
– Adjustable roof hook for older roofs
– Every size of module array possible
– For all common rafter distances

PROFINAL
MONTAGESYSTEME FÜR SOLARTECHNIK

System for plain tile / shingle roofs

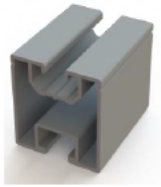
Mounting with roof hooks

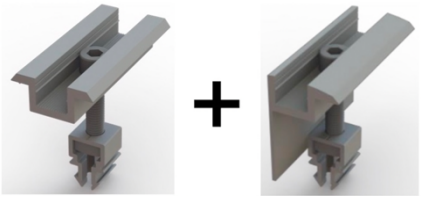


Roof hook shingle
stainless steel

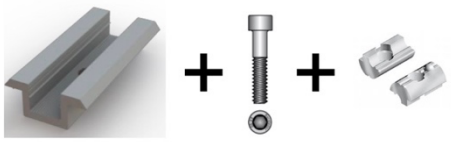
Roof hook beaver
stainless steel

Mounting rail PR1
40 x 40 mm, span up to 2,65 m





KlickFix clamps
pre-assembled



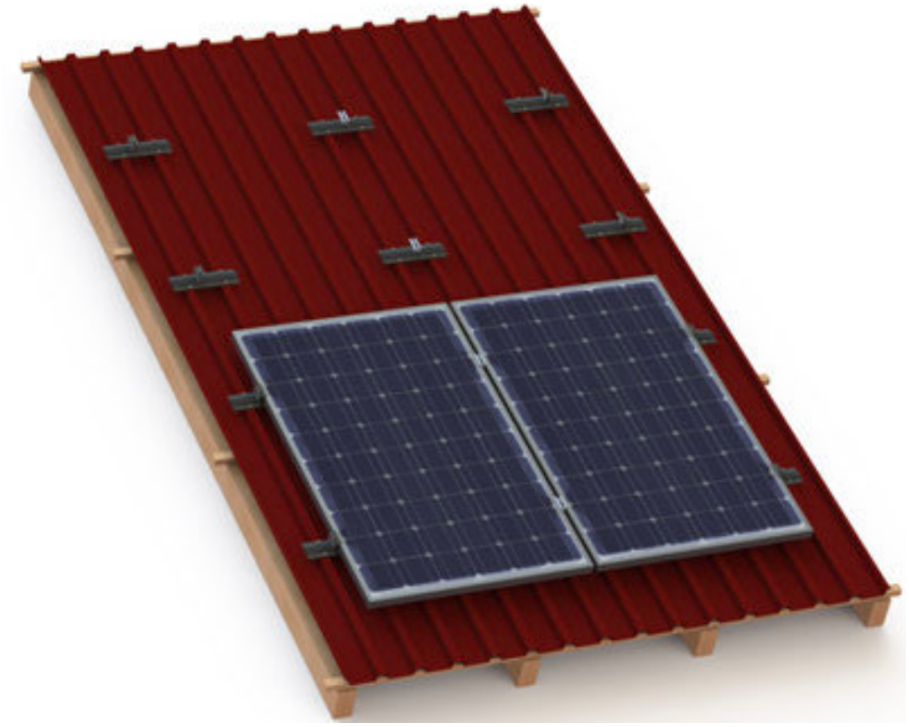
Standard clamps
not pre-assembled

Application:
Adjustable roof hook
Fastening:
Clickfix or Standard
Roof pitch:
Up to 60 degrees
Module type:
Framed modules
Module orientation:
Landscape / portrait
Layers of rails:
Single / double layer, cross rail installation
Advantages:
– Adjustable roof hook for older roofs
– Every size of module array possible
– For all common rafter distances

PROFINAL
MONTAGESYSTEME FÜR SOLARTECHNIK

System for sheet metal roofs

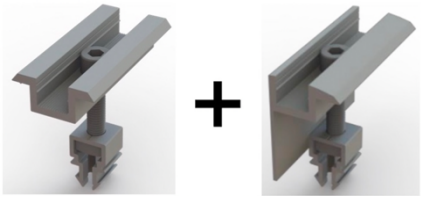
Mounting in portrait orientation



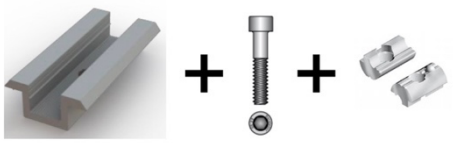
Trapezoidal rail FLAT
height: 13 mm
length: 400 mm, 250 mm

OR

Trapezoidal rail HIGH
height: 60 mm
length: 400 mm or 250 mm



KlickFix clamps
pre-assembled



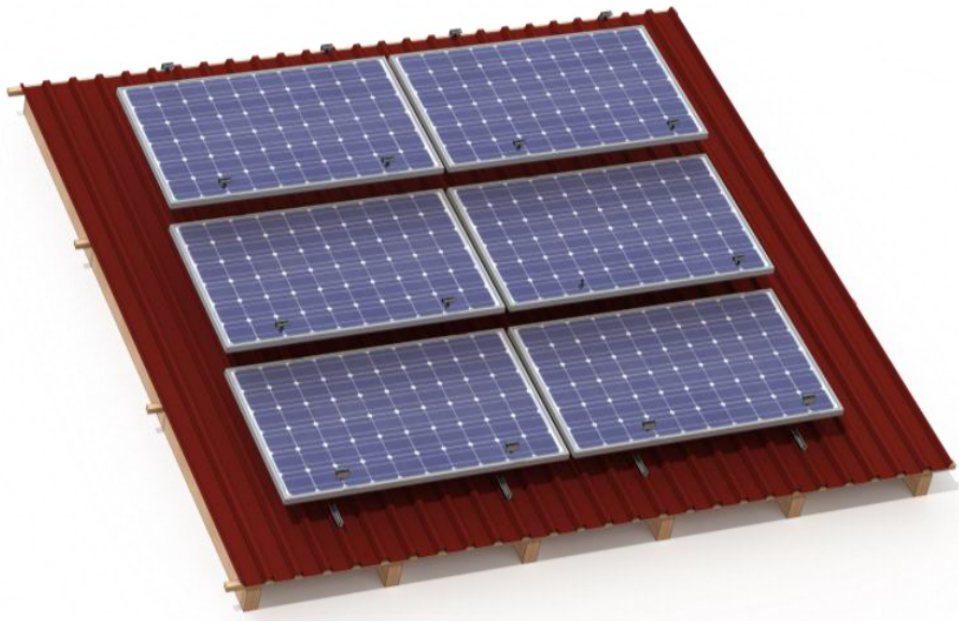
Standard clamps
not pre-assembled

Application:
Trapezoidal sheet metal
Fastening:
Screwed or riveted onto raised corrugations
Module type:
Framed modules
Module orientation:
Portrait
Layers of rails:
Single layer
Advantages:
– Low material / fitting costs
– Every size of module array possible
– Rail lengths of 250 mm and 400 mm
– EPDM sealing tape covered bottom side

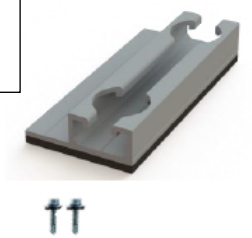
PROFINAL
MONTAGESYSTEME FÜR SOLARTECHNIK

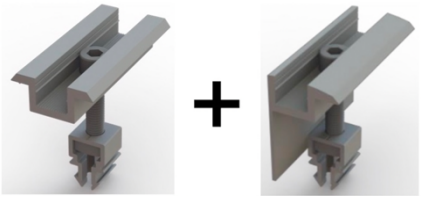
System for sheet metal roofs

Mounting in landscape orientation



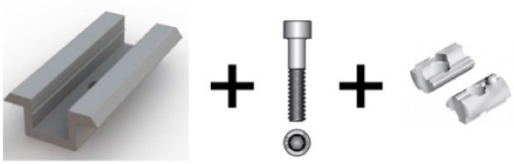
Trapezoidal rail HORIZONTAL
height: 1.3 cm
length: 120 mm or 150 mm





KlickFix clamps
pre-assembled

Standard clamps
not pre-assembled

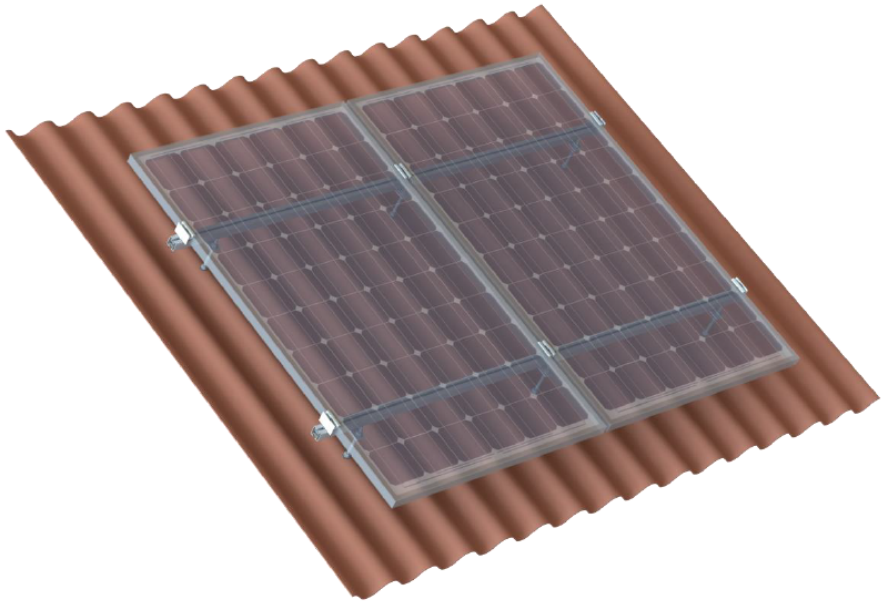


Application:
Trapezoidal sheet metal
Fastening:
Screwed or riveted onto raised corrugations
Module type:
Framed modules
Module orientation:
Landscape
Layers of rails:
Single layer
Advantages:
– Low material / fitting costs
– Every size of module array possible
– Rail lengths of 120 mm, 150 mm
– EPDM sealing tape covered bottom side

PROFINAL
MONTAGESYSTEME FÜR SOLARTECHNIK

System for eternit / sheet metal roofs

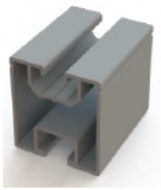
Mounting with roof hooks

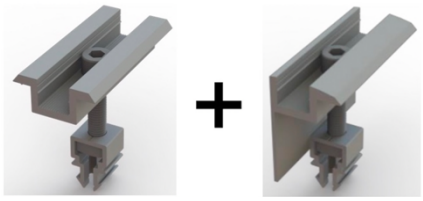


Hanger bolt for timber
Pre-assembled
M10 or M12

Adaptor plate
for hanger bolts M10 and M12

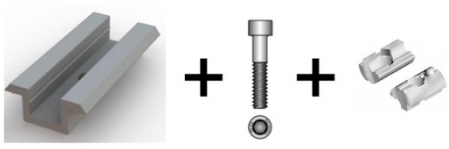
Mounting rail PR1
40 x 40 mm, span up to 2,65 m





KlickFix clamps
pre-assembled

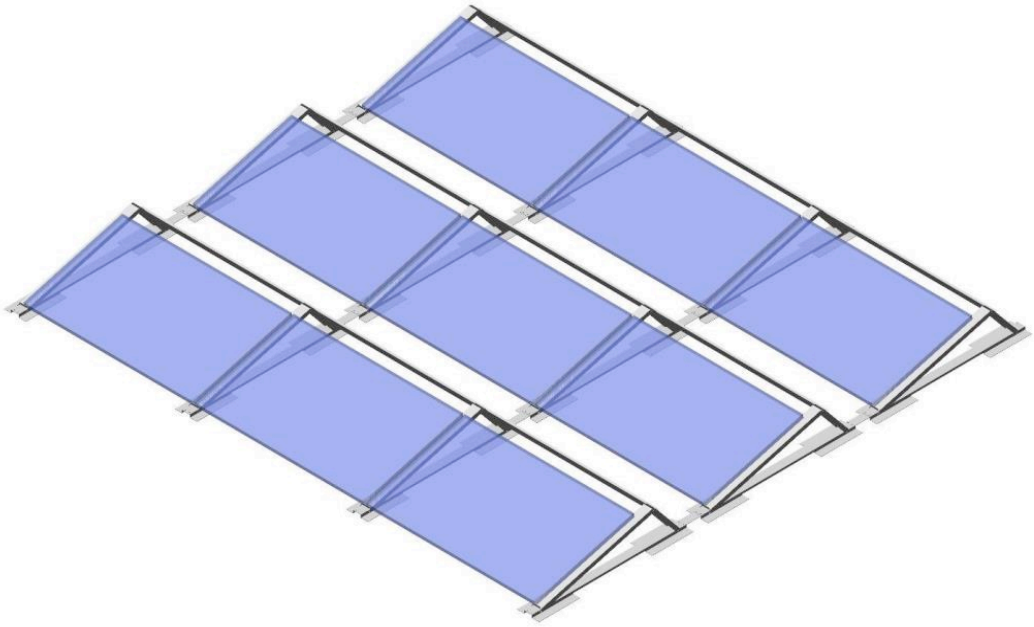
Standard clamps
not pre-assembled



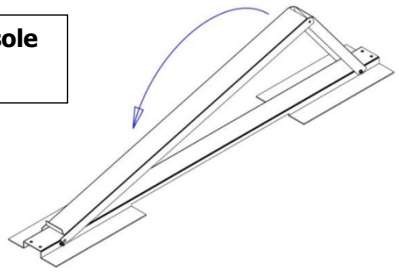
Application:
Hanger bolt for wooden structure or
Solar fastener for steel structure
Fastening:
Clickfix or Standard
Roof pitch:
Up to 60 degrees
Module type:
Framed modules
Module orientation:
Landscape / portrait
Layers of rails:
Single / double layer, cross rail installation
Advantages:
– Hanger bolts of various sizes
– Every size of module array possible
– For all common rafter distances

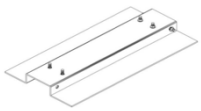
System for flat roofs

South elevated system

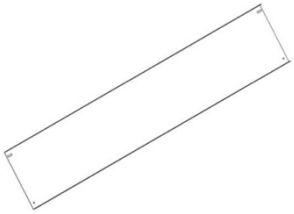


Triangular console
Pre-assembled

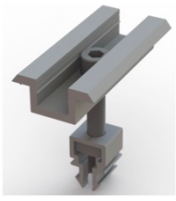




Base plate



Wind shield



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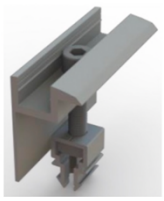


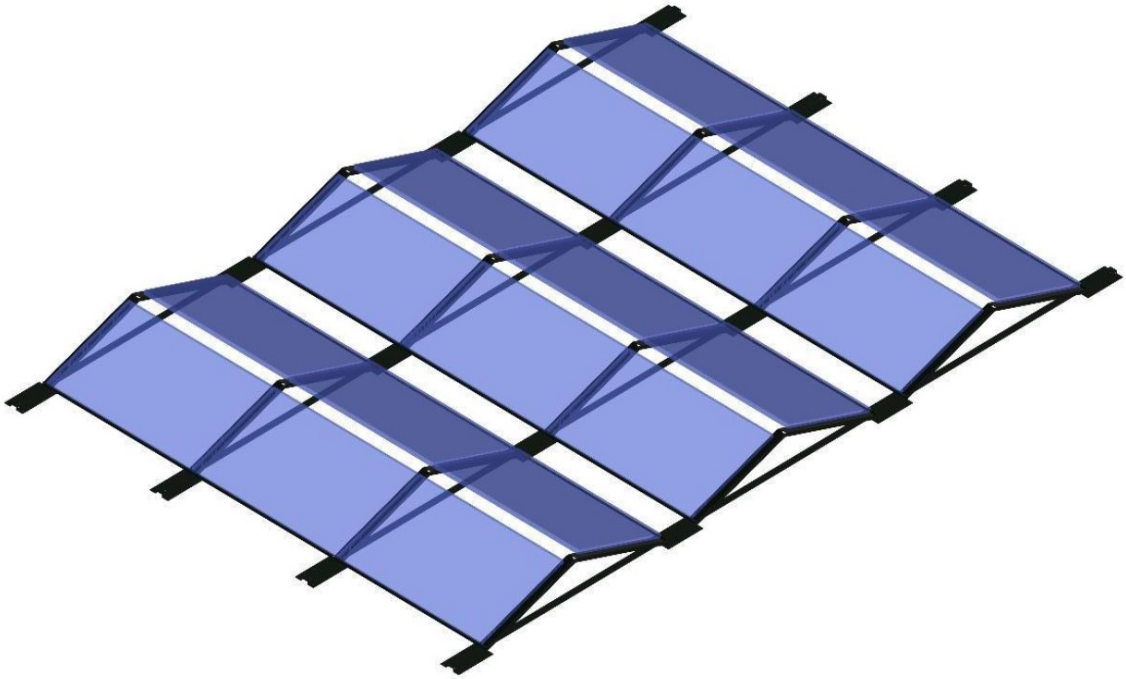
Klick clamps
pre-assembled

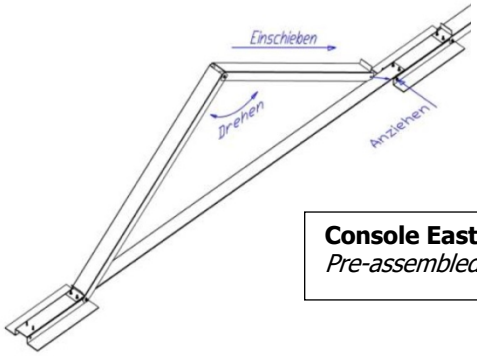
Application:
on flat roofs and roofs with a gentle incline of up to 15°
Roof orientation:
south-facing
Module type:
Framed modules
Module orientation:
Landscape
Inclination:
10° / 15°
Fixation to roof:
placement with no penetration of the roof, rooftop impermeability is not affected by the mounting system in any case
Building protection: specially designed protective underlay mats for the given surface, pre-fabricatedand mechanically fixed
Advantages:
-static testing according to DIN EN 1991-1-1 (loadcapacity) and DIN EN 1991-1-3 (snowload). DIN EN 1991-1-1 to4 comply with EUROCODE 1
-Lightning protection: substructure can be connected suitable for lightning current
-Product guarantee: 10 years

PROFINAL
MONTAGESYSTEME FÜR SOLARTECHNIK

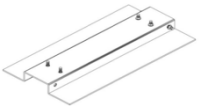
System for flat roofs

East/West elevated system

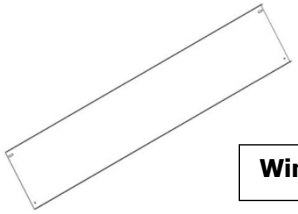




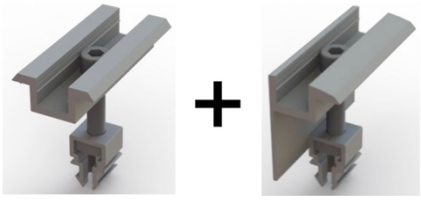
Console East/West
Pre-assembled



Base plate



Wind shield



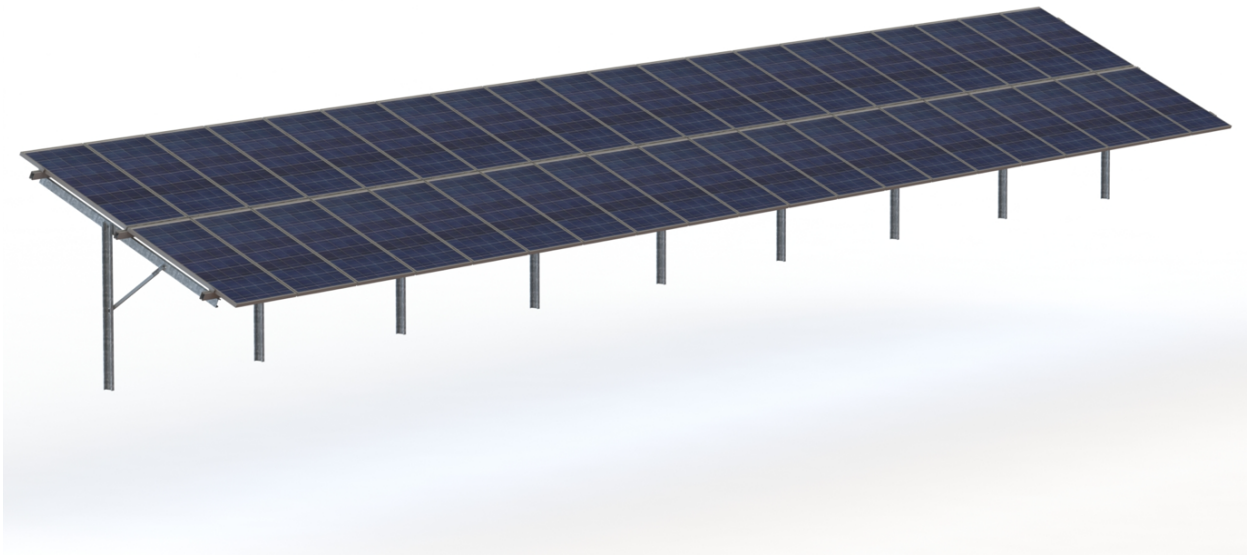
Klick clamps
pre-assembled

Application:
on flat roofs and roofs with a slight incline up to 15°
Roof orientation:
East/West
Roofing: foil, bitumen, gravel, green, sheet metal
Module type:
Framed modules
Module orientation:
Landscape
Inclination:
12°
Fixation to roof:
placement with no penetration of the roof, rooftop impermeability is not affected by the mounting system in any case
Building protection: specially designed protective underlay mats for the given surface, pre-fabricatedand mechanically fixed
Installation time: 10kWp/man-hour
Advantages:
-static testing according to DIN EN 1991-1-1 (loadcapacity) and DIN EN 1991-1-3 (snowload). DIN EN 1991-1-1 to4 comply with EUROCODE 1
-Lightning protection: substructure can be connected suitable for lightning current
-Product guarantee: 10 years

PROFINAL
MONTAGESYSTEME FÜR SOLARTECHNIK

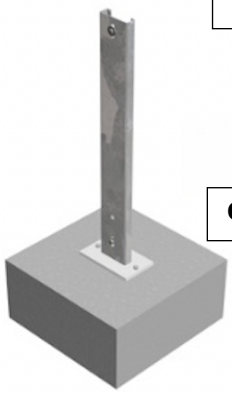
System for the ground

System with ramming piles / concrete foundation



Support

Beam rail



Concrete base

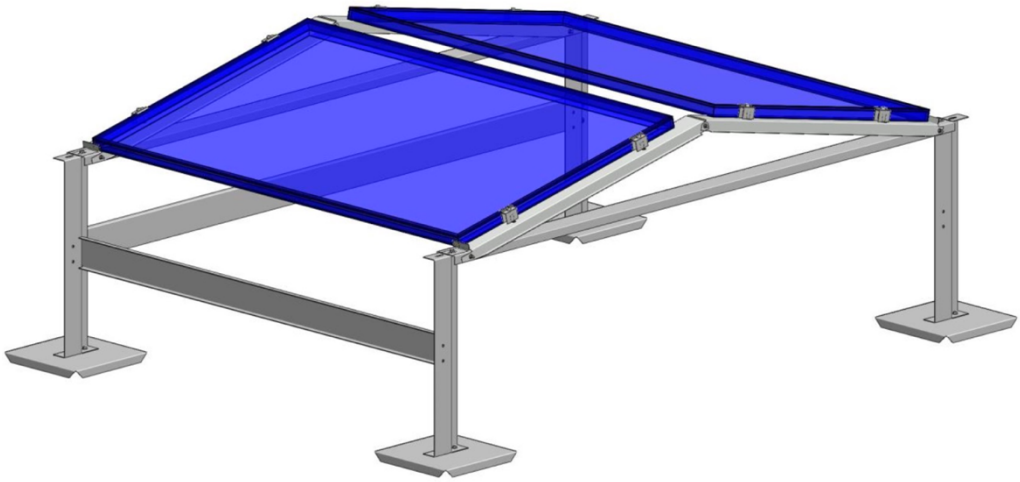
Ramming pile

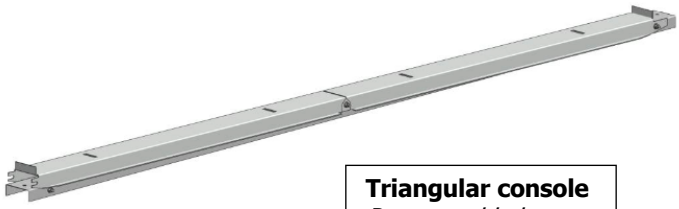
Application:
Ground mount, off-grid and on-grid systems
Kit configurations:
1-leg or 2-legs
Module type:
Standard / bifacial panels
Module orientation:
Portrait or landscape
Module pitch:
10° to 30° – individually selectable
Construction:
Elevated or parallel to the ground
Foundation:
Rammed foundation, concrete foundation
Advantages:
– Standardised system configuration
– No separate system statics calculations needed
– Packaging units are optimised for transport and storage

PROFINAL
MONTAGESYSTEME FÜR SOLARTECHNIK

System for the ground

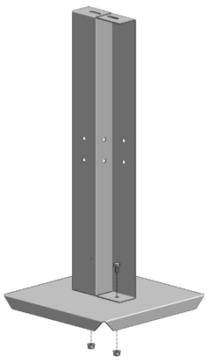
Aerodynamic ground mount system without ramming





Triangular console
Pre-assembled

Pile



Base plate

Application:
Ground Mount System
Module orientation:
East/West
Module tilt:
12°
Module type:
Framed modules
Max. ground slope:
20°
System size:
2 x 3 modules min.
Advantages:
– No pile driving or major excavation work needed
– Suitable for a wide range of surfaces such as earth, gravel, concrete
– Reduced transport and storage costs thanks to low volume packaging