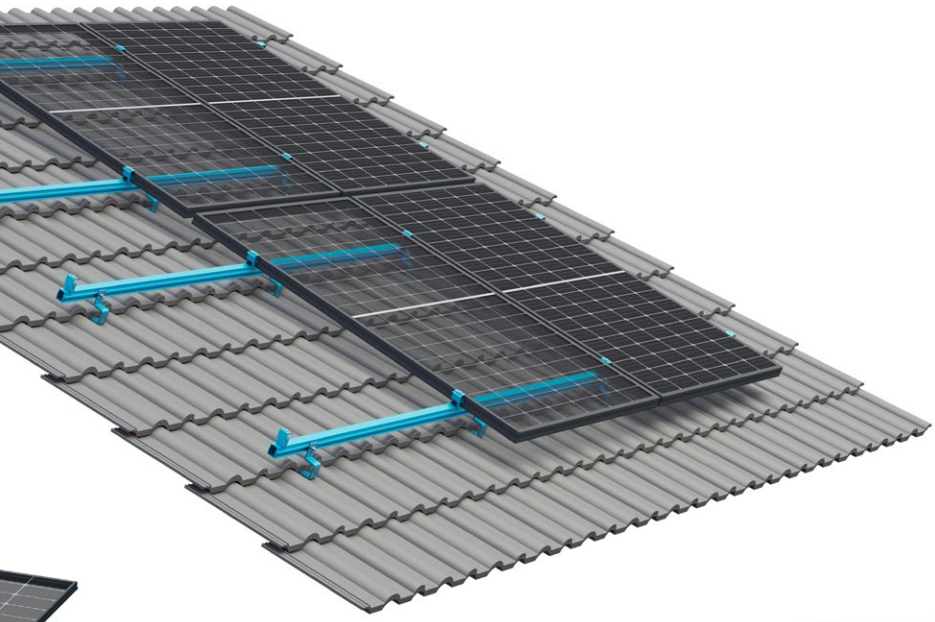
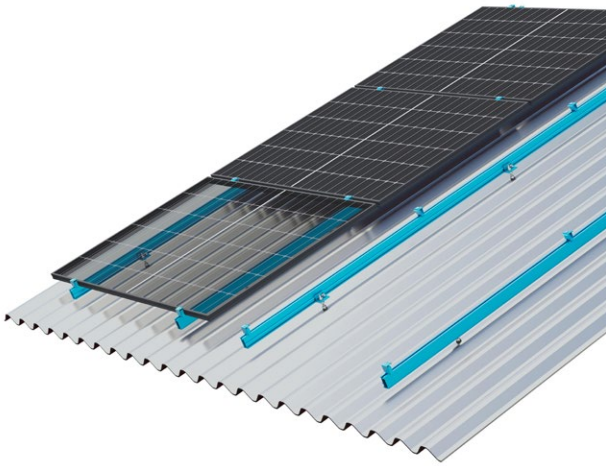
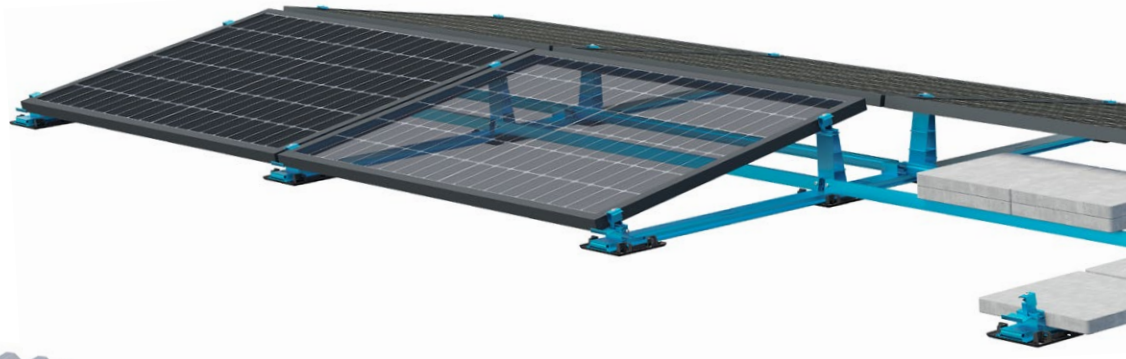
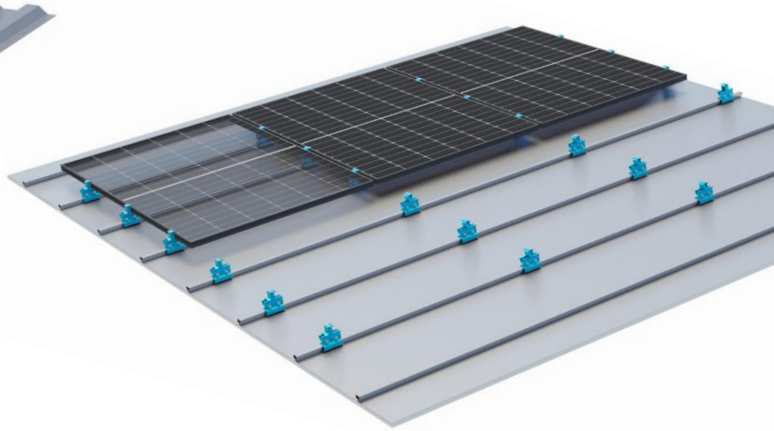
S:FLEX

S:FLEX System Solutions



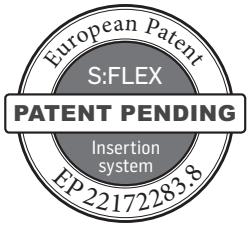


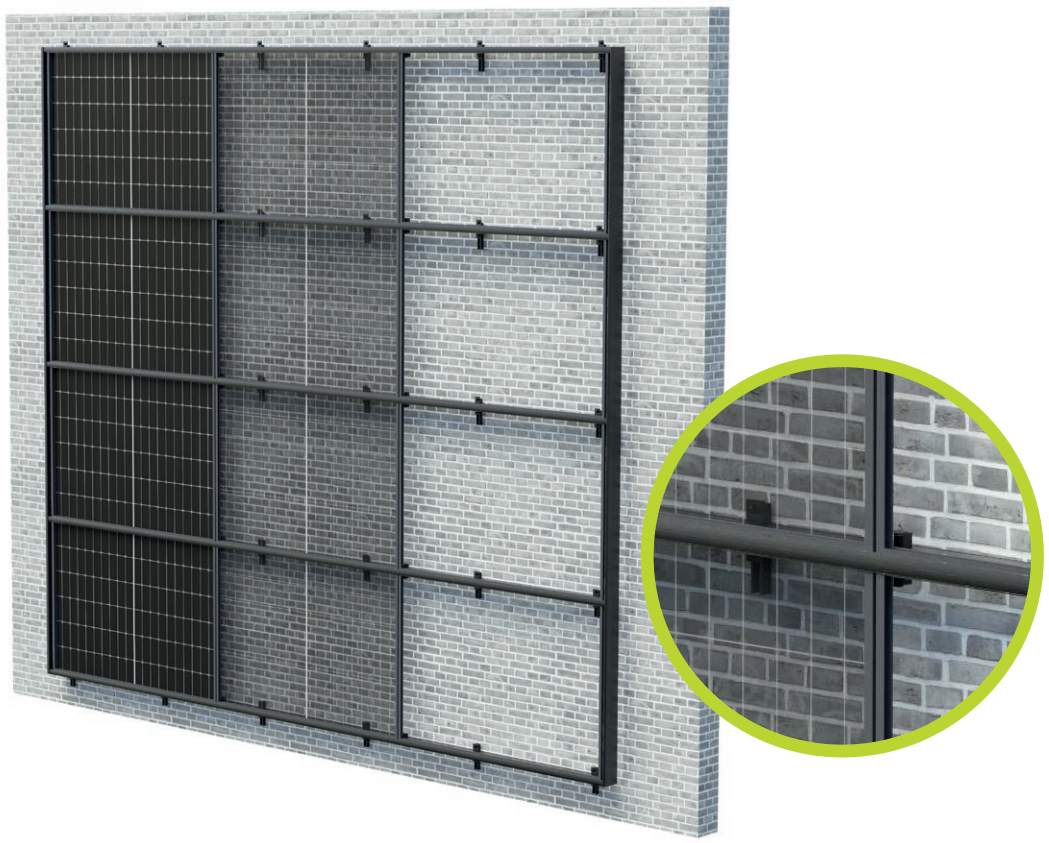




Flat roof, pitched roof, façade and ground mount structures for flexible and fast installations

**PV frame technology by professionals for practitioners –
from pre-assembled components to fully customised solutions!**



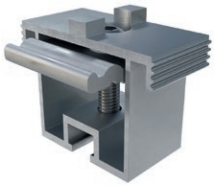


ELS rail

ELS side cladding

ELS eaves cladding

ELS Fix clamp



ELS cross adapter clamp

Application:
Façades, noise protection walls and massive balustrades or pitched roofs with roof tiles, sheet metal roofs

Fastening:
Façade: on-site
Pitched roof: compatible with all S:FLEX fastening solutions for tiled roofs and metal sheet roofing

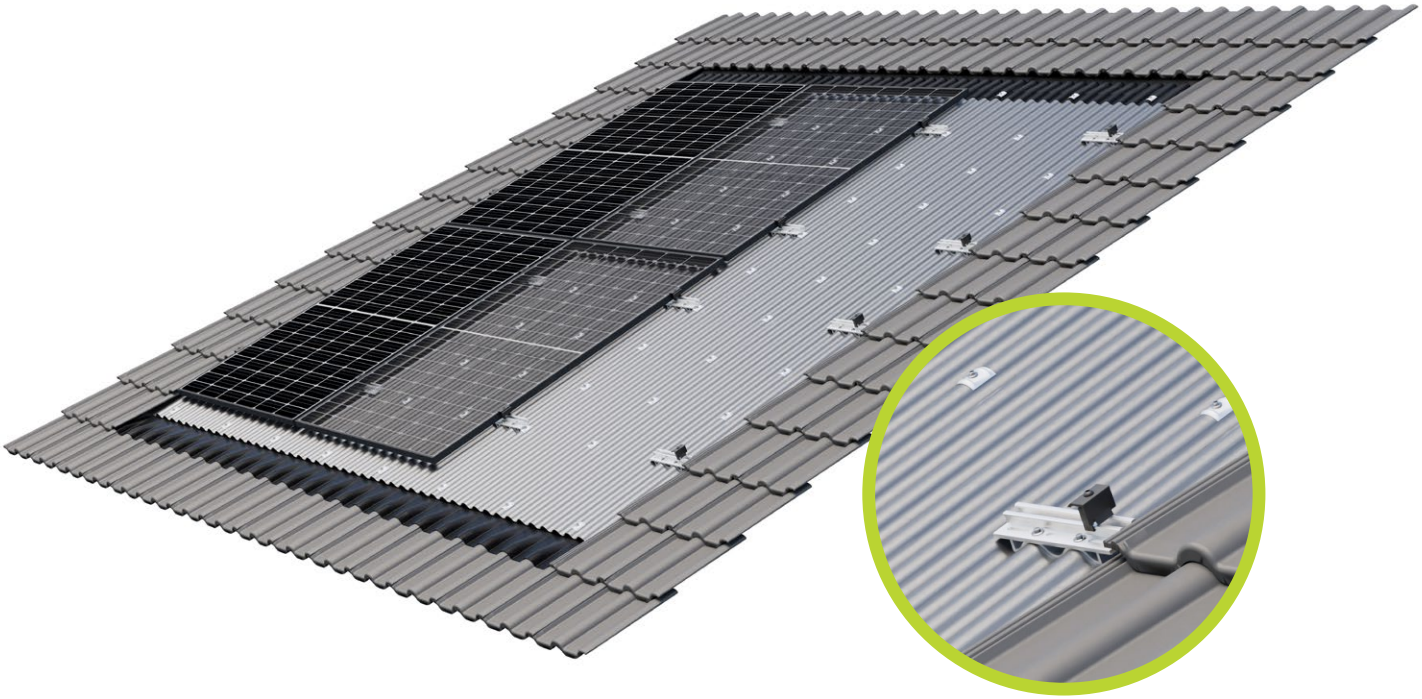
Roof pitch:
10 to 75 degrees

Module type:
Framed modules, all common sizes

Module orientation:
Portrait / landscape

Advantages:

- Aesthetically pleasing modular surfaces with clean finishes
- All components for a special look available in black
- Suitable for module frame heights of 25 to 45 mm – using just one type of insertion rail
- Newly developed module clamps that prevent rattling of the modules and thermally induced glass breakage/cracks
- Simple grounding, optimized service-friendliness



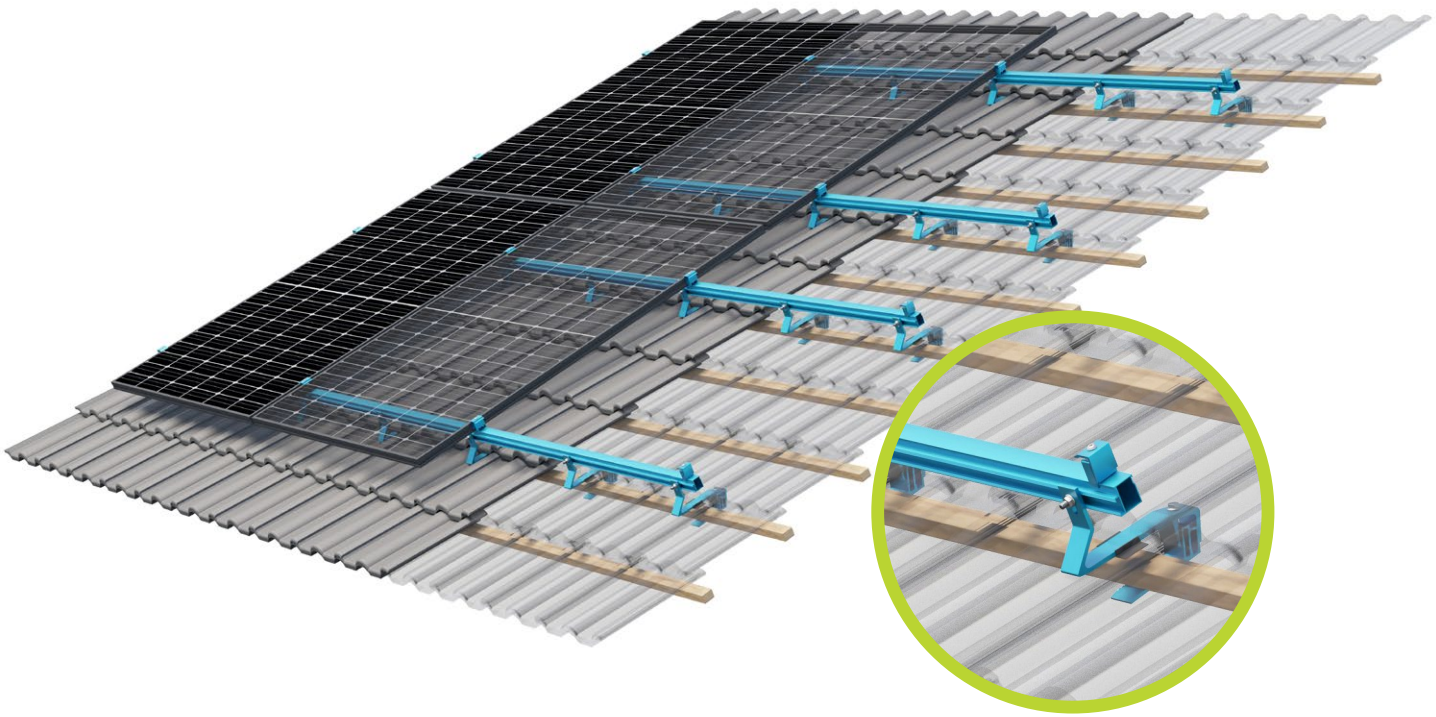
S:FLEX INmount
Adapter portrait, 210 mm

End clamp AK II Klick 30-50 A

Mid clamp AK II Klick 30-50 A

Application:
Pitched roofs with tile/concrete tile roof covering
Roof construction:
Battening analogue to tile roofing
Roof pitch:
10° to 45 degrees (above on request)
Module type:
Framed and frameless modules, all common sizes
Module orientation:
Portrait / landscape
Module layout:
Contiguous surfaces, covering of the entire roof surface and integration of skylights possible
(prior inspection required)
Advantages:

- Simple and quick to install solution for visually appealing roof integration in old and new buildings
- Replaces conventional roof covering
- Connection to existing battens optimises force transmission and avoids thermal bridges



S:FLEX hanging roof hook Clip

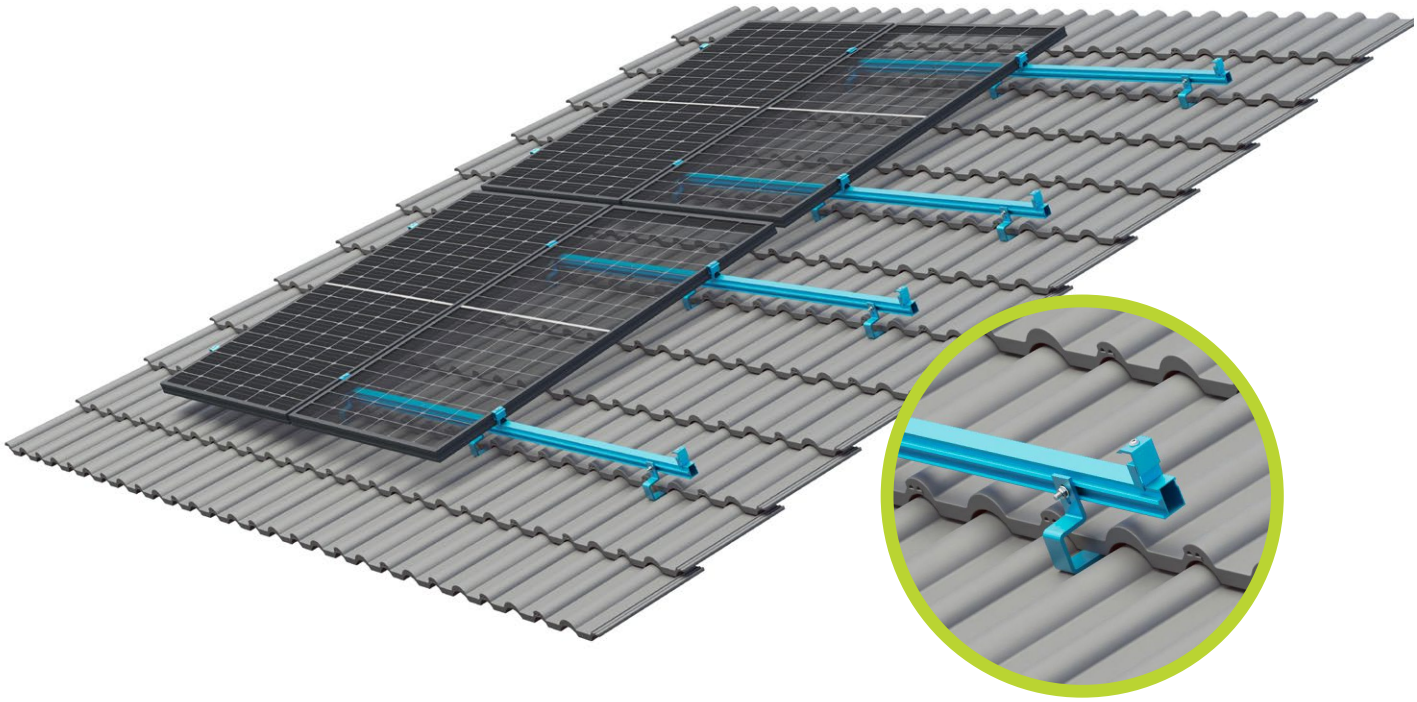
Mounting rail ST-AK 5/40

End clamp AK II Klick 30-50 A

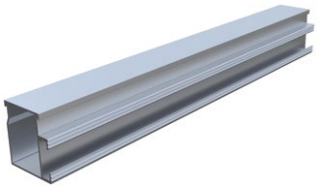
Mid clamp AK II Klick 30-50 A

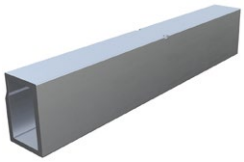
Application:
Pitched roof with concrete pan tiles
Roof pitch:
Up to 75 degrees
Module type:
Framed and frameless modules
Module orientation:
Portrait / landscape
Layers of rails:
Single / double layer
Height adjustment:
Up to 21 mm
Advantages:

- Easy installation in just a few steps with fewer tools
- Does not require wood screws for attachment to the rafters
- Saves installation time and material costs
- An EPDM clip attached to the aluminium leg of the roof hook protects the surfaces of the roof tiles from damage caused by friction and pressure



Mounting rail ST-AK 5/40





Splice 5

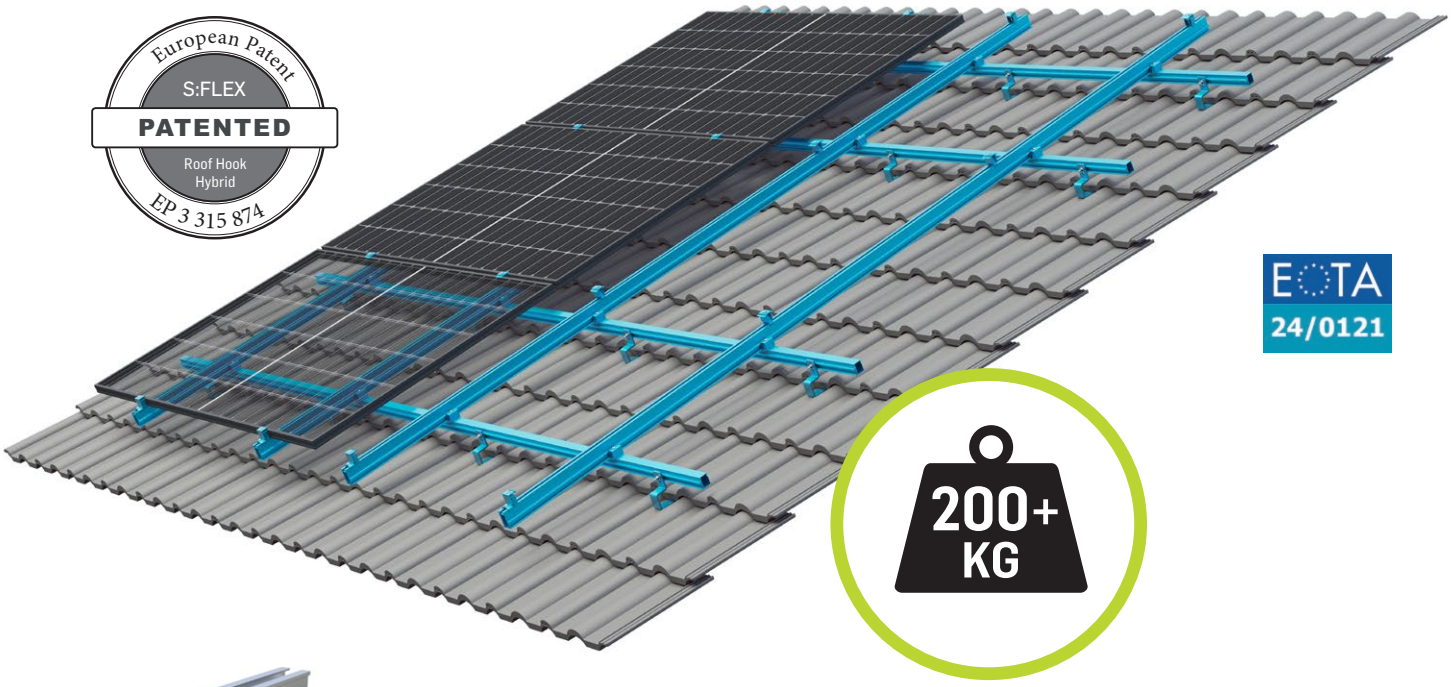
End clamp AK II Klick 30-50 A

Mid clamp AK II Klick 30-50 A

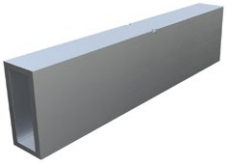
Roof hook Alu 93-7-45

Application:
Pitched roof with tiles
Fastening:
Roof hook on rafters (min. rafter width 36 mm)
Roof pitch:
Up to 75 degrees
Module type:
Framed and frameless modules
Module orientation:
Portrait / landscape
Layers of rails:
Single / double layer
Advantages:

- Every size of module array possible
- Height compensation: 40 – 58 mm in the batten zone / 21 mm in the rail zone
- For all common rafter distances



Mounting rail
ST-AK 13/60



Splice 13

End clamp AK II Klick 30-50 A

Mid clamp AK II Klick 30-50 A

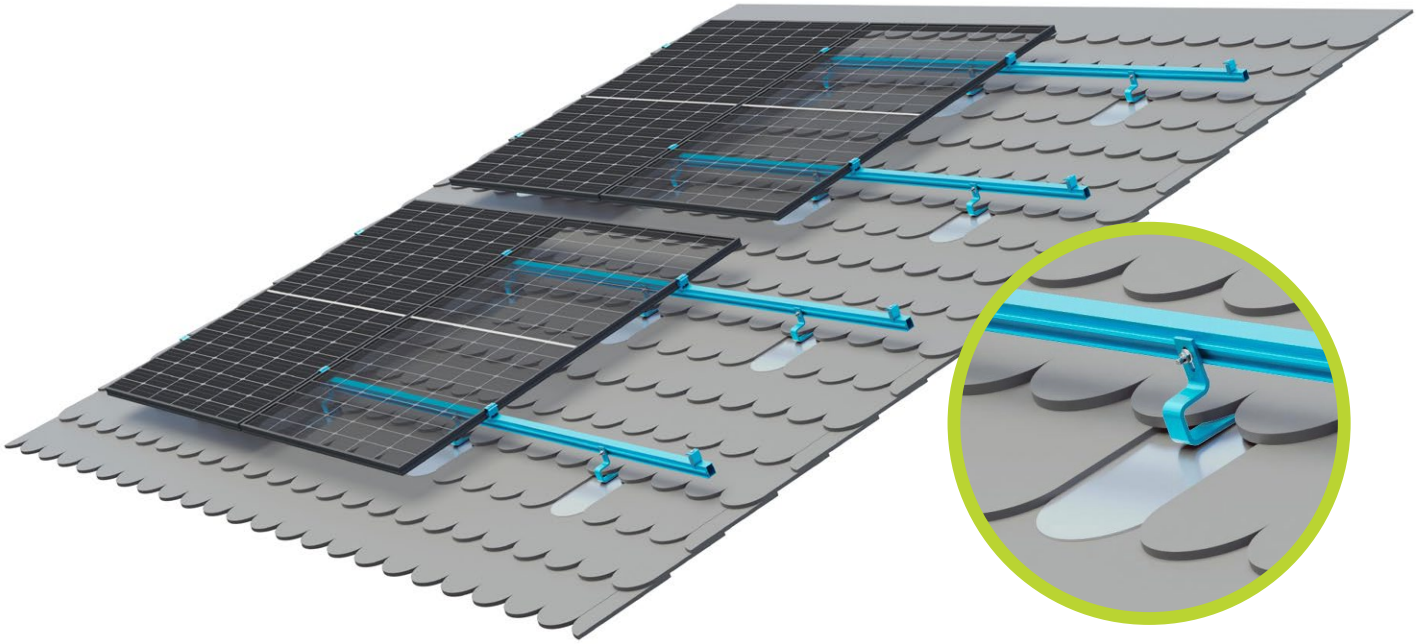
Roof hook Hybrid
112-7-46 8mm II

Roof hook Hybrid
112-7-56 XL 8mm

Metal roof tile
e.g. concrete type

Application:
Pitched roof with tiles
Fastening:
Roof hook on rafters (min. rafter width 45 mm)
Roof pitch:
Up to 75 degrees
Module type:
Framed and frameless modules
Module orientation:
Landscape / portrait
Layers of rails:
Single / double layer
Advantages:

- Suitable for particularly high loads
- Also available as XL version for large-format tiles
- Use of metal roof tiles provides additional protection for the roof covering
- Every size of module array possible
- Height compensation in the batten zone: 46 - 61 mm (DH Hybrid) / 56 - 72 mm (DH Hybrid XL)
- For all common rafter distances



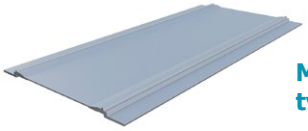
Mounting rail ST-AK 5/40

Splice 5

End clamp AK II Klick 30-50 A

Mid clamp AK II Klick 30-50 A

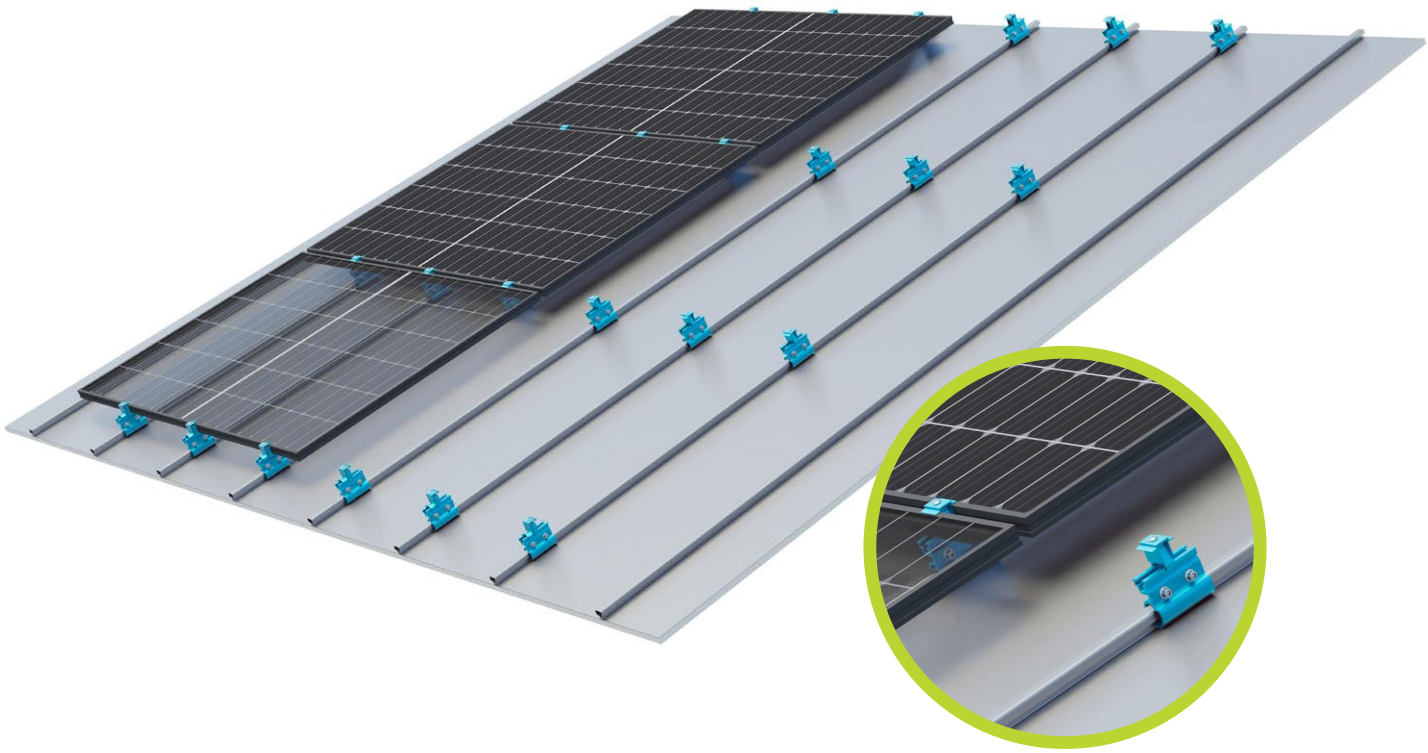
Roof hook plain tile 30x6



Metal roof tile
type "Biber Vario" zinc plated

Application:
Pitched roof with plain tiles
Fastening:
Roof hook on rafters (min. rafter width 48 mm) with matching metal roof tile
Roof pitch:
Up to 75 degrees
Module type:
Framed and frameless modules
Module orientation:
Portrait / landscape
Layers of rails:
Single / double layer
Advantages:

- Every size of module array possible
- For all common rafter distances



Standing seam clamp 2.1

Standing seam clamp DCO

Standing seam clamp CL

End clamp AK II Klick 30-50 A

Mid clamp AK II Klick 30-50 A

Application:
Standing seam clamp 2.1: Seamed roofing, e.g. standing seam, round seam, angle seam
Standing seam clamp DCO and CL: Industrial metal roof systems, e.g. Domitec/GBS, Klip-Lok 700, RibRoof 465

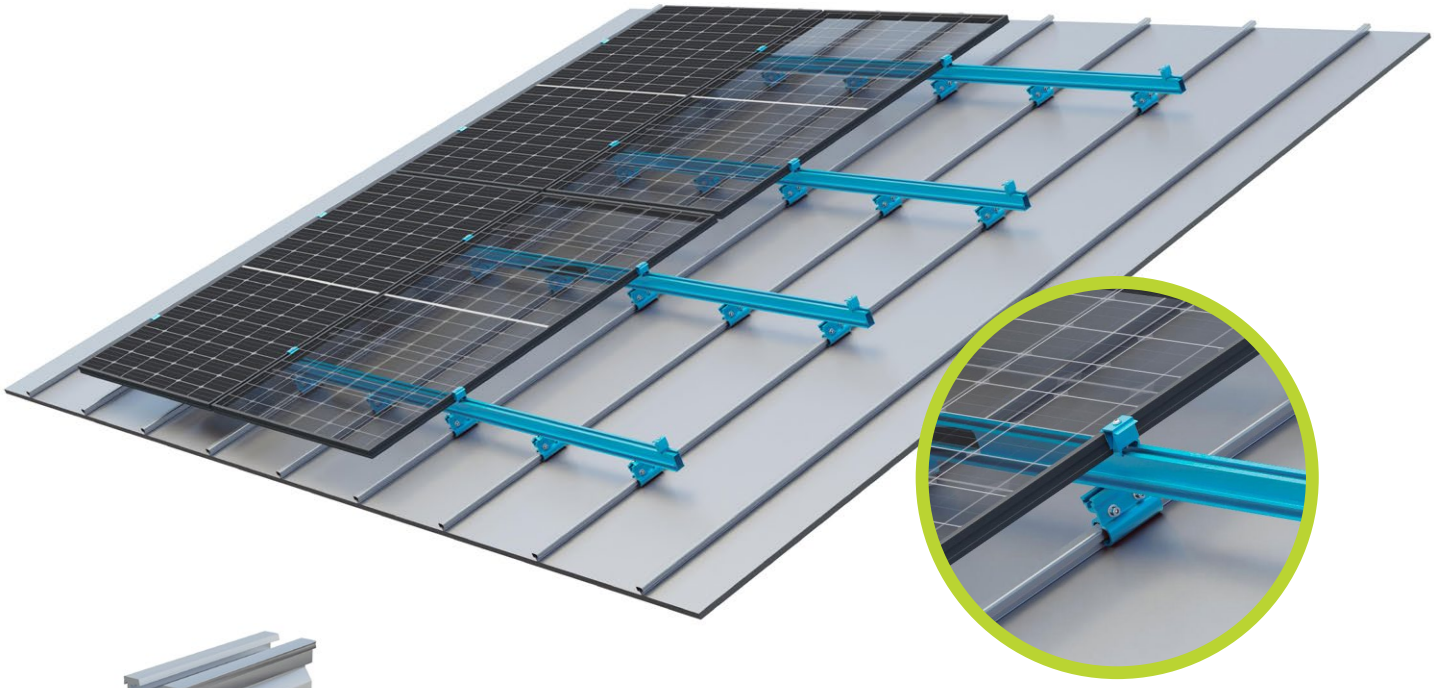
Fastening:
Non-penetrative

Module type:
Framed modules

Module orientation:
Landscape/portrait (for clamping on the short side)

Layers of rails:
Single layer

Advantages:
- Modules mounted directly to the standing seam clamps
- No rails necessary
- Low material/logistics/installation costs
- Quick mounting
- No roof penetration



Standing seam clamp 2.1

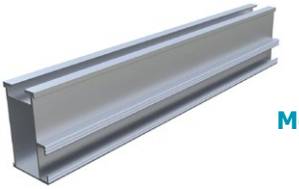
Standing seam clamp DCO

Standing seam clamp CL

End clamp AK II Klick 30-50 A

Mid clamp AK II Klick 30-50 A

Cross adapter clamp AK



Mounting rail ST-AK 13/60

Application:
Standing seam clamp 2.1: Seamed roofing, e.g. standing seam, round seam, angle seam
Standing seam clamp DCO and CL: Industrial metal roof systems, e.g. Domitec/GBS, Klip-Lok 700, RibRoof 465

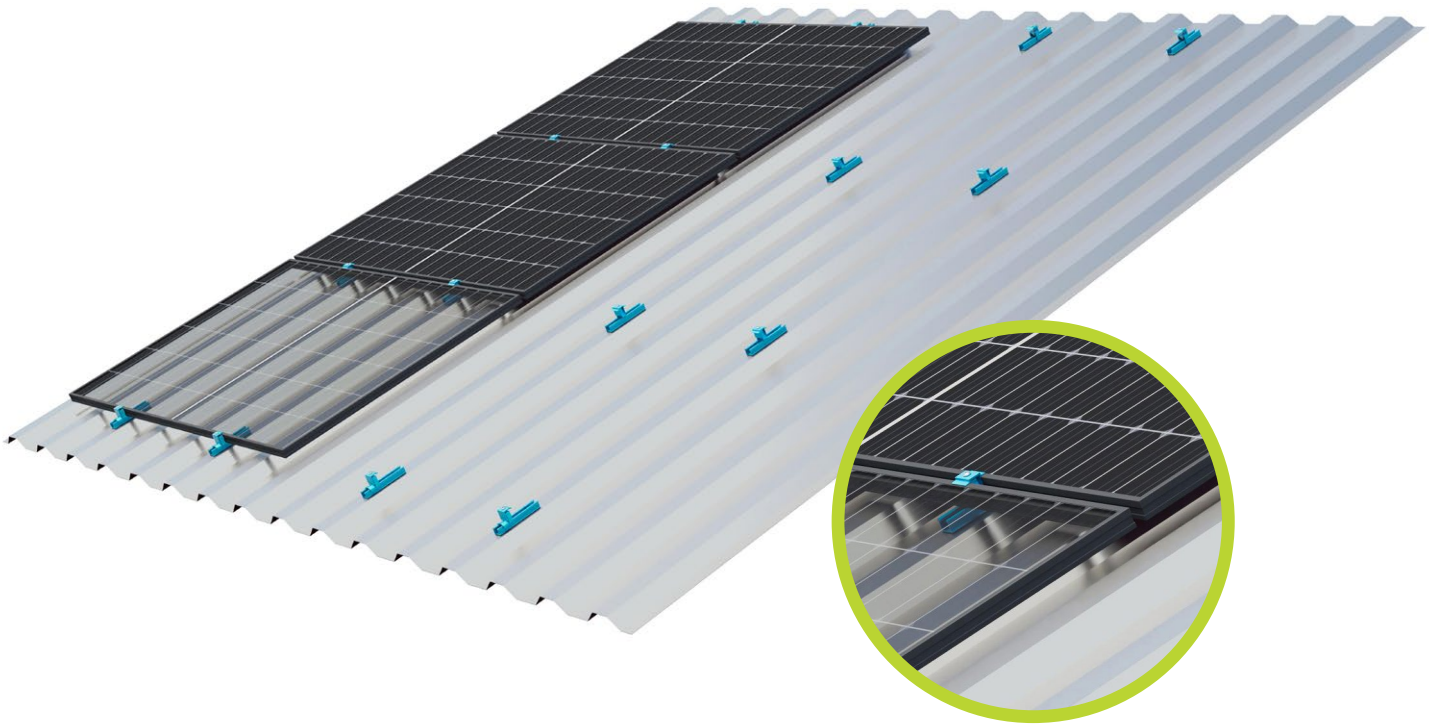
Fastening:
Non-penetrative

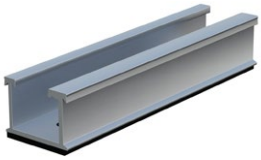
Module type:
Framed modules

Module orientation:
Landscape/portrait (for clamping on the short side)

Layers of rails:
Double layer

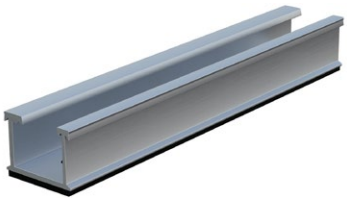
Advantages:
- Low material/installation costs
- Length of rails 3150 mm to 6200 mm
- High rigidity rails suitable for heavier loads
- No roof penetration





HS rail HK 125 complete

HS rail HK 172 complete



End clamp AK II Klick 30-50 A

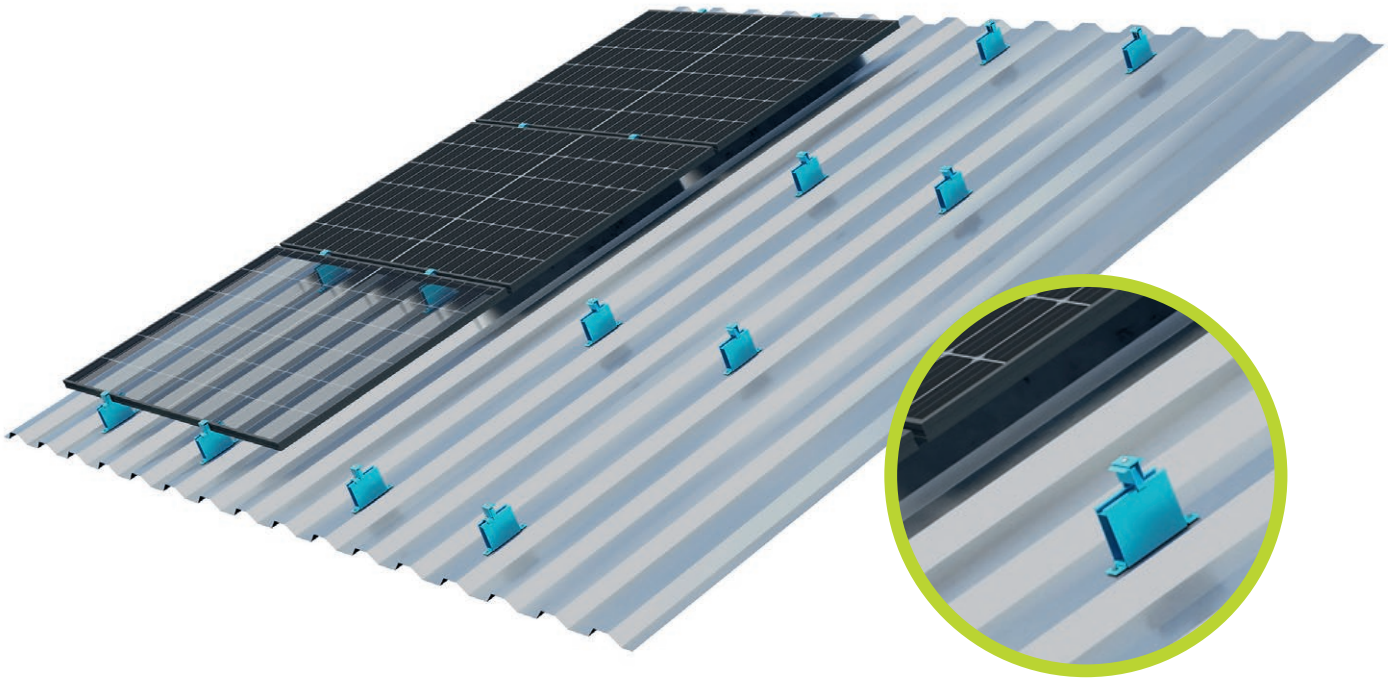
Mid clamp AK II Klick 30-50 A

Sheet metal srew 4,5x25

Sheet metal srew 6x25

Application:
Trapezoidal sheet metal
Fastening:
Screwed onto raised corrugations
Module type:
Framed modules
Module orientation:
Landscape
Layers of rails:
Single layer
Advantages:

- Low material / fitting costs
- 24 mm height provide better rear ventilation, simplify cable routing, enable installation even on slightly corrugated roof coverings and offer more space for power optimizers or micro-inverters
- Rail lengths of 125 mm, 172 mm, 295 mm and 3300 mm
- High-bead rails HS HK l=125 mm and l=172 mm are supplied pre-fabricated with EPDM sealing tape, the 125 mm rail comes with 2 x 2 holes (5 / 6 mm), the 172 mm version has 2 x 4 pre-drilled holes (5 / 6 mm)



HS rail HK 125 XL 50 complete

HS rail HK 125 XL 100 complete

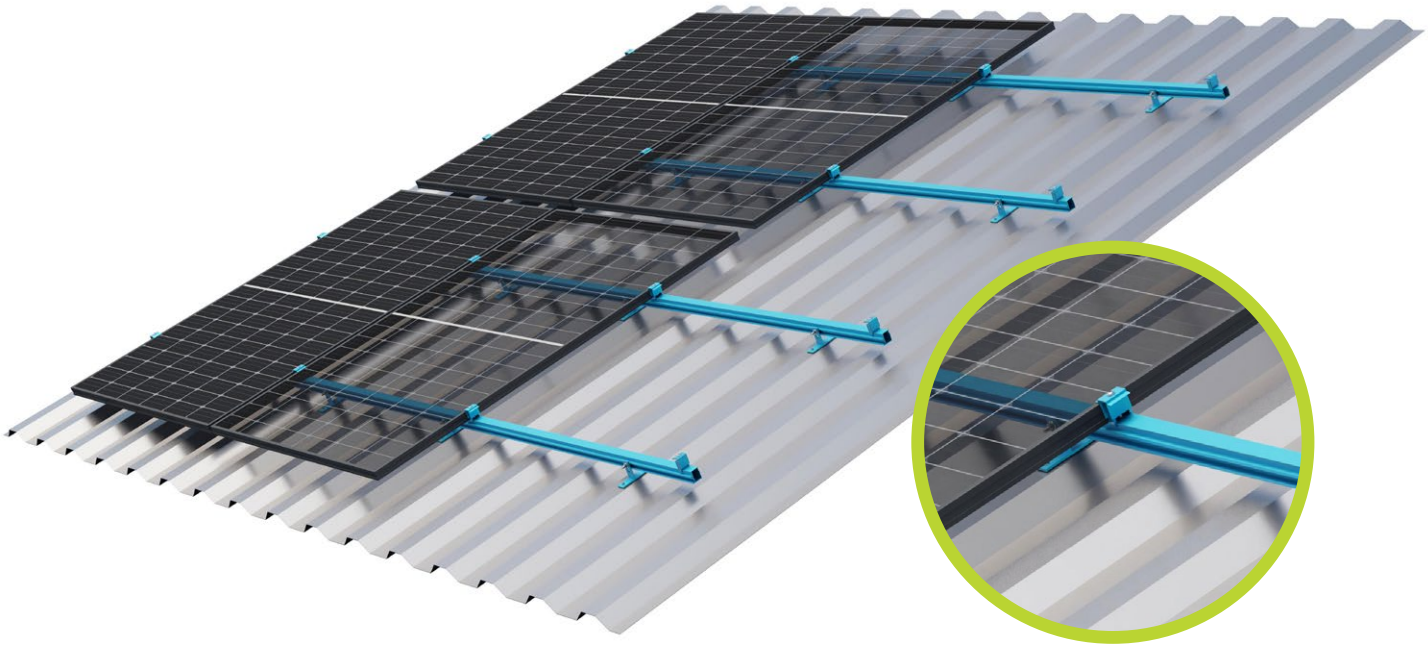
HS bracket XL 130

End clamp AK II Klick 30-50 A

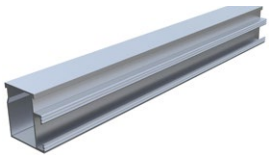
Mid clamp AK II Klick 30-50 A

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
- Rail heights of 50 or 100 mm guarantee a sufficient distance from the roof covering for optimal rear ventilation and use at high temperatures
- Floating mounting with brackets reduces the number of expansion joints and enables optimal use of the roof area
- High-bead rails covered with protective fleece
- Brackets come pre-drilled and with EPDM sealing tape covered bottom side



Bracket for sheet metal installation



Mounting rail ST-AK 5/40

Mounting rail ST-AK 13/60

End clamp AK II Klick 30-50 A

Mid clamp AK II Klick 30-50 A

Application:
Trapezoidal and corrugated sheet metal

Fastening:
Screwed or riveted onto raised corrugations

Module type:
Framed and frameless modules

Module orientation:
Portrait / landscape

Layers of rails:
Single / double layer

Advantages:

- Low fitting costs
- Every size of module array possible
- Height adjustable via elongated hole in the sheet metal bracket
- Sheet metal brackets are supplied prefabricated with 2 holes (5 mm) and EPDM sealing tape covered bottom side

Front rail with small adapter

Rear rail with large adapter

End clamp AK II Klick 30-50 A

Mid clamp AK II Klick 30-50 A

Application:
Trapezoidal sheet metal

Fastening:
Screwed with sheet metal screws to the raised seams

Options:
South and East-West orientation

Module type:
Framed and frameless modules, all common sizes

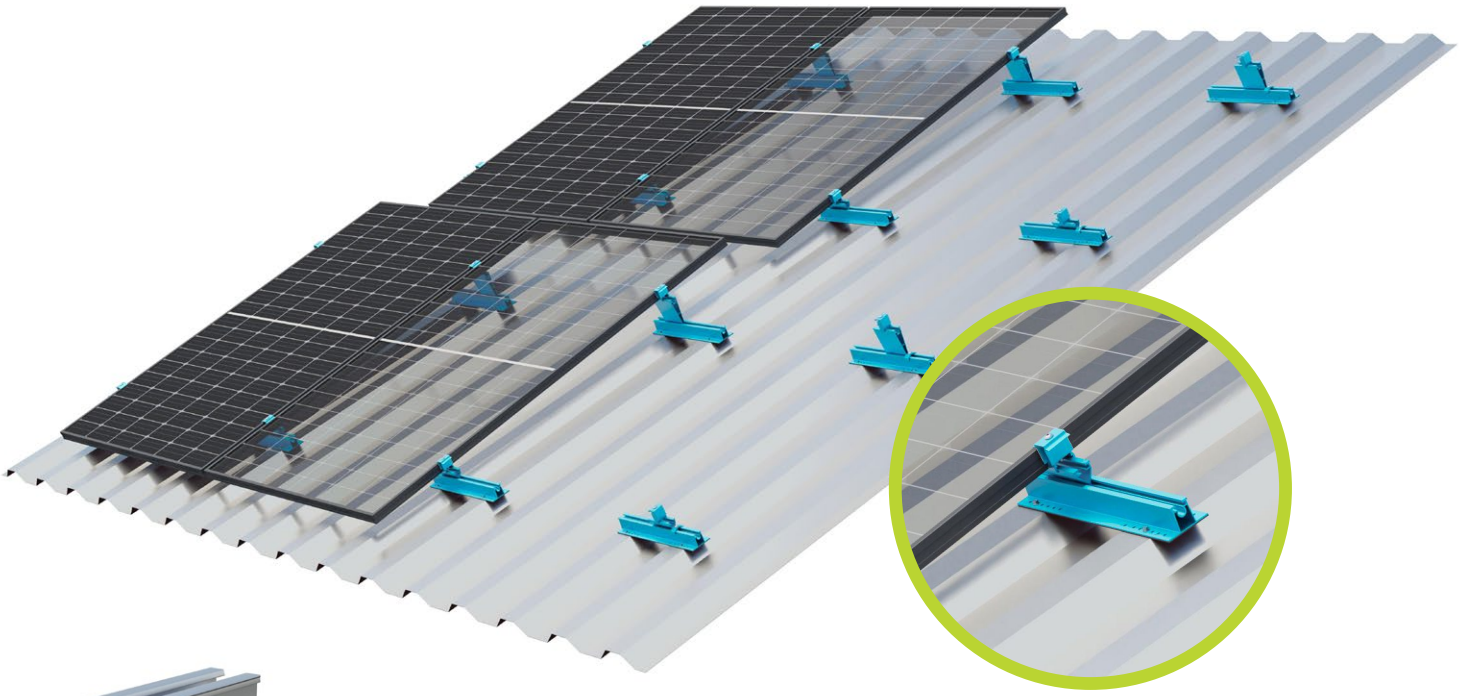
Module orientation:
Portrait / landscape

Module pitch Lift:
5° with portrait installation / 7° with landscape installation

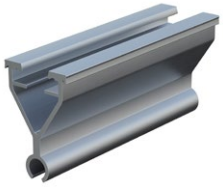
Roof pitch:
20° max.

Advantages:

- Low material and fitting costs
- Optimised irradiation angles for higher yields
- Better self-cleaning
- Maximum use of space through optional East-West orientation
- Prefabricated with holes and EPDM sealing tape



Lift Multi adapter rear



Lift Multi adapter front

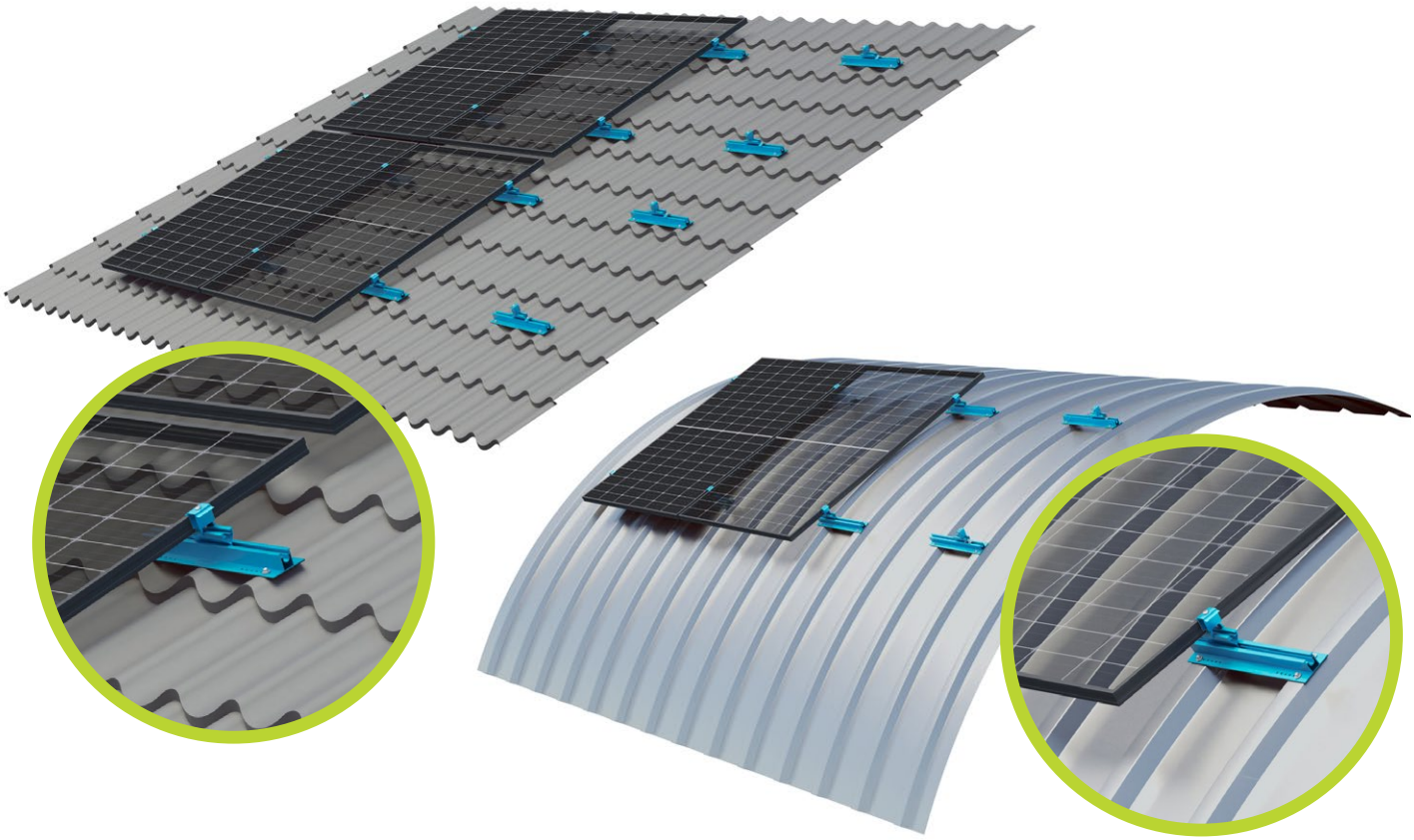
Trapezoidal sheet metal rail Lift

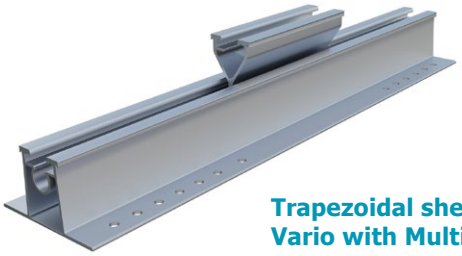
End clamp AK II Klick 30-50 A

Mid clamp AK II Klick 30-50 A

Application:
Trapezoidal sheet metal
Fastening:
Riveted or screwed to the raised seams
Module type:
Framed modules
Module orientation:
Portrait / landscape
Module pitch:
5° with portrait installation / 7° with landscape installation
Roof pitch:
15° max. with portrait / 13° max. with landscape installation
Layers of rails:
Single layer
Advantages:

- Additional raise on slightly inclined roofs
- Optimised rear ventilation and module pitch
- Low material and fitting costs
- Variable length of module rows
- Trapezoidal sheet metal rail Lift is supplied prefabricated with 26 holes (5 mm) and EPDM sealing tape covered bottom side





Trapezoidal sheet metal rail Vario with Multi adapter front

End clamp EH AK II Klick 30-50 A

Mid clamp MH AK II Klick 30-50 A

Application:
Corrugated roof tile and curved trapezoidal sheet metal (barrel roofs with a radius larger than 3.5 m)

Fastening:
Riveted or screwed with sheet metal screws to the raised seams

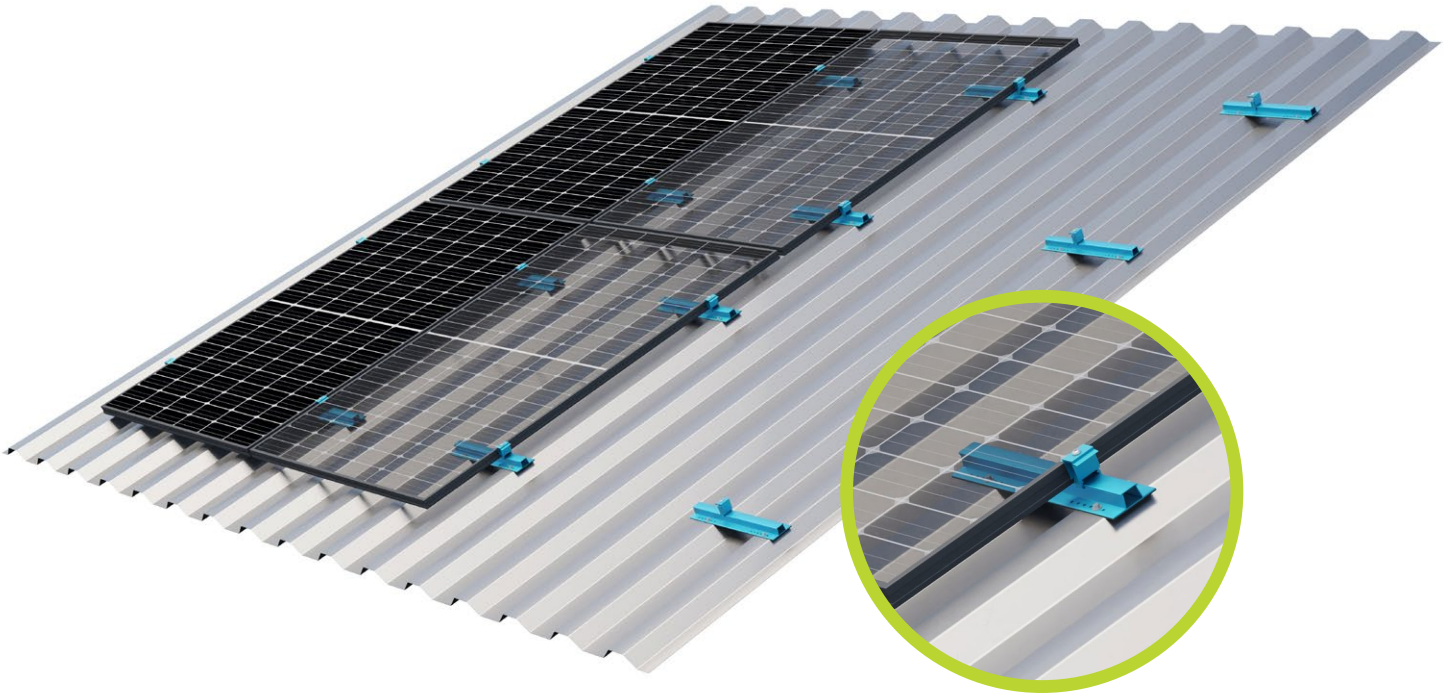
Module type:
Framed modules

Module orientation:
Portrait / landscape

Layers of rails:
Single layer

Advantages:

- Tension-free installation on curved roofs
- Tension-free installation on corrugated roof tiles
- Perfectly adapted to the roof shape
- Trapezoidal sheet metal rail Vario is supplied prefabricated with 26 holes (5 mm) and EPDM sealing tape covered bottom side



Trapezoidal sheet metal rail AK l=395 mm

End clamp AK II Klick 30-50 A

Mid clamp AK II Klick 30-50 A

Cross adapter clamp AK

Mounting rail ST-AK 13/60

Application:
Trapezoidal and corrugated sheet metal

Fastening:
Screwed or riveted onto raised corrugations

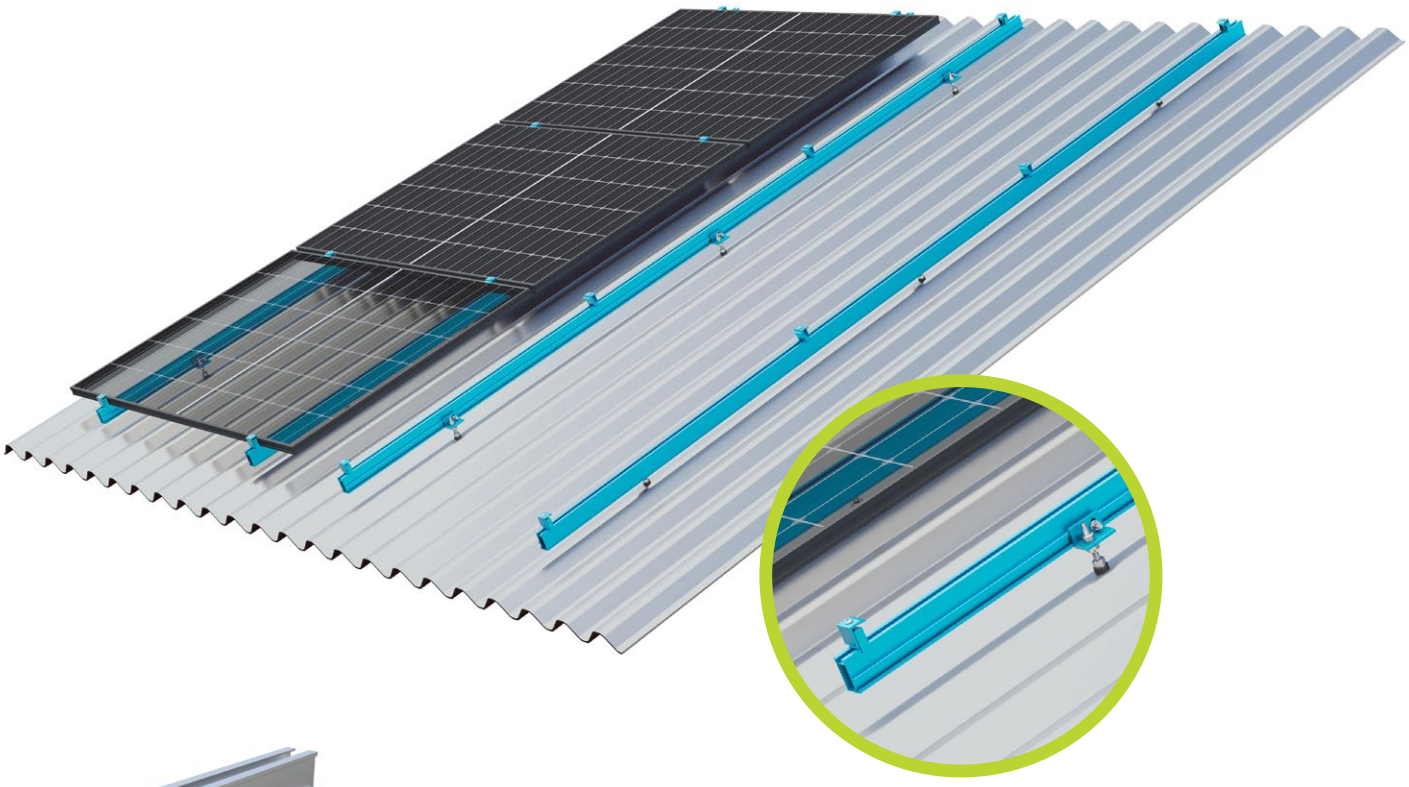
Module type:
Framed and frameless modules

Module orientation:
Landscape / portrait

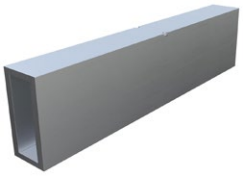
Layers of rails:
Single / double layer

Advantages:

- Low material / fitting costs
- Every size of module array possible
- Rail lengths of 395 mm, 3150 mm and 6200 mm
- High rigidity rails suitable for heavier loads
- Rail segments 395 mm (Trapezoidal sheet metal AK complete / l=395 mm) are supplied prefabricated with 24 holes (5 mm) and EPDM sealing tape covered bottom side



Mounting rail ST-AK 13/60



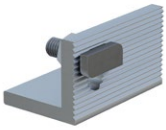
Splice 13

End clamp AK II Klick 30-50 A

Mid clamp AK II Klick 30-50 A

Hanger bolt M10x200

Solar fastener type BZ
for metal rafters



Bracket 60mm M10

Application:
Fibre-cement boards / sandwich elements / trapezoidal sheet metal

Fastening:
Hanger bolts / solar fasteners with brackets

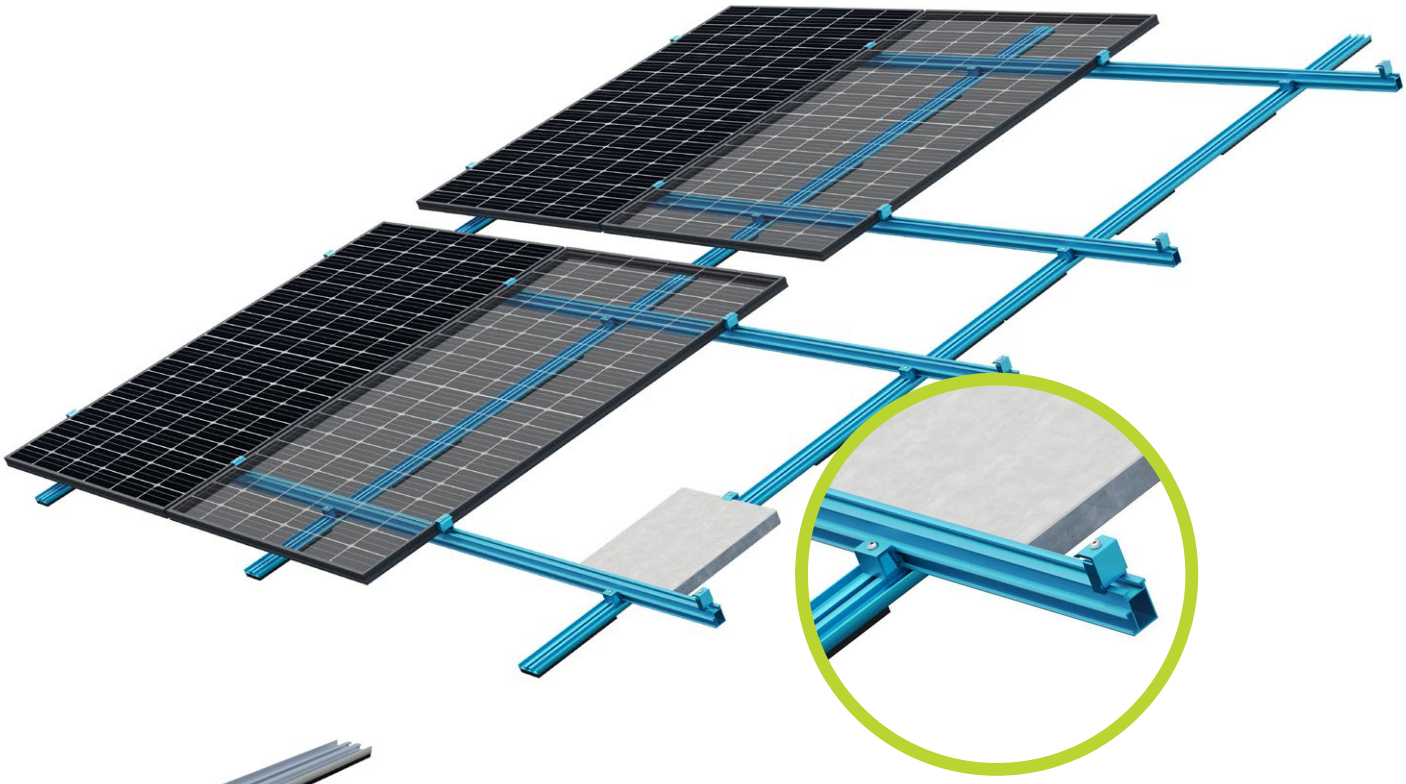
Module type:
Framed and frameless modules

Module orientation:
Landscape / portrait

Layers of rails:
Single / double layer

Advantages:

- Low fitting costs
- Height adjustable
- Suitable for large distances between rafters
- Solar fastener type A or hanger bolts for wood rafters / solar fastener type BZ for metal rafters



FD floor rail

FD ridge connector Type 750 II

Mounting rail ST-AK 7/47

Cross adapter clamp AK

End clamp AK II Klick 30-50 A

Mid clamp AK II Klick 30-50 A

Application:
Pitched roofs with foil / bitumen roofing and sandwich elements; other roof types upon request

Fastening:
Parallel to the roof, non-penetrative; additional ballast

Roof pitch:
Up to 30 degrees

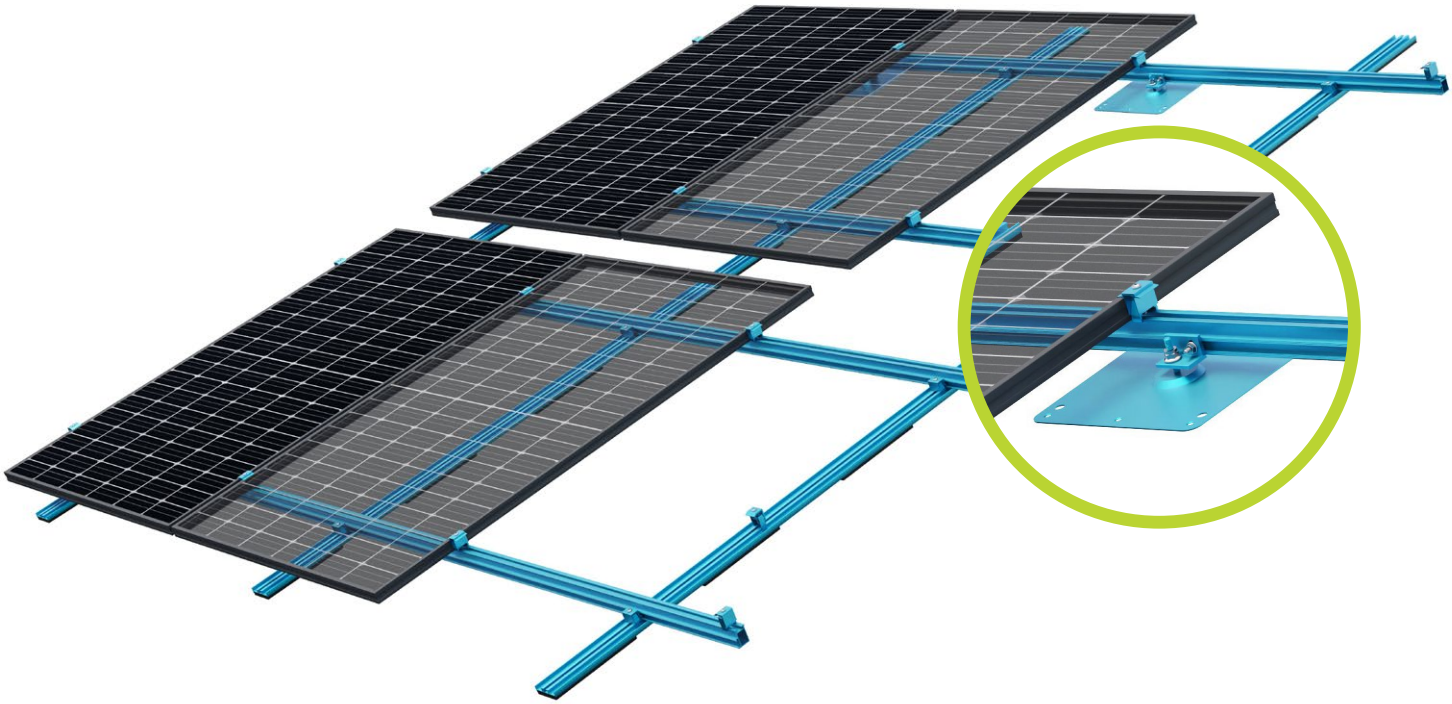
Module type:
Framed modules (frameless modules upon request)

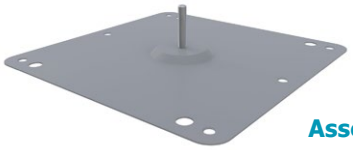
Module orientation:
Portrait (landscape upon request)

Layers of rails:
Double layer

Advantages:

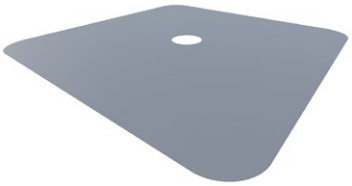
- No roof penetration
- Minimised additional ballast thanks to aerodynamic optimisation
- Perfect for east-west orientation like saddle roof, double-sided
- Has lightning-current-carrying capacity
- Optional roof connection points extend potential uses





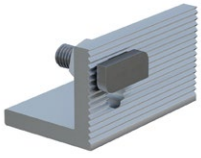
Assembly post PVC pure

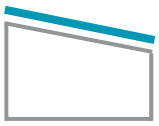
Ridge rail FS 9/40



Covering

Bracket 60mm M10





Mono-pitch roof

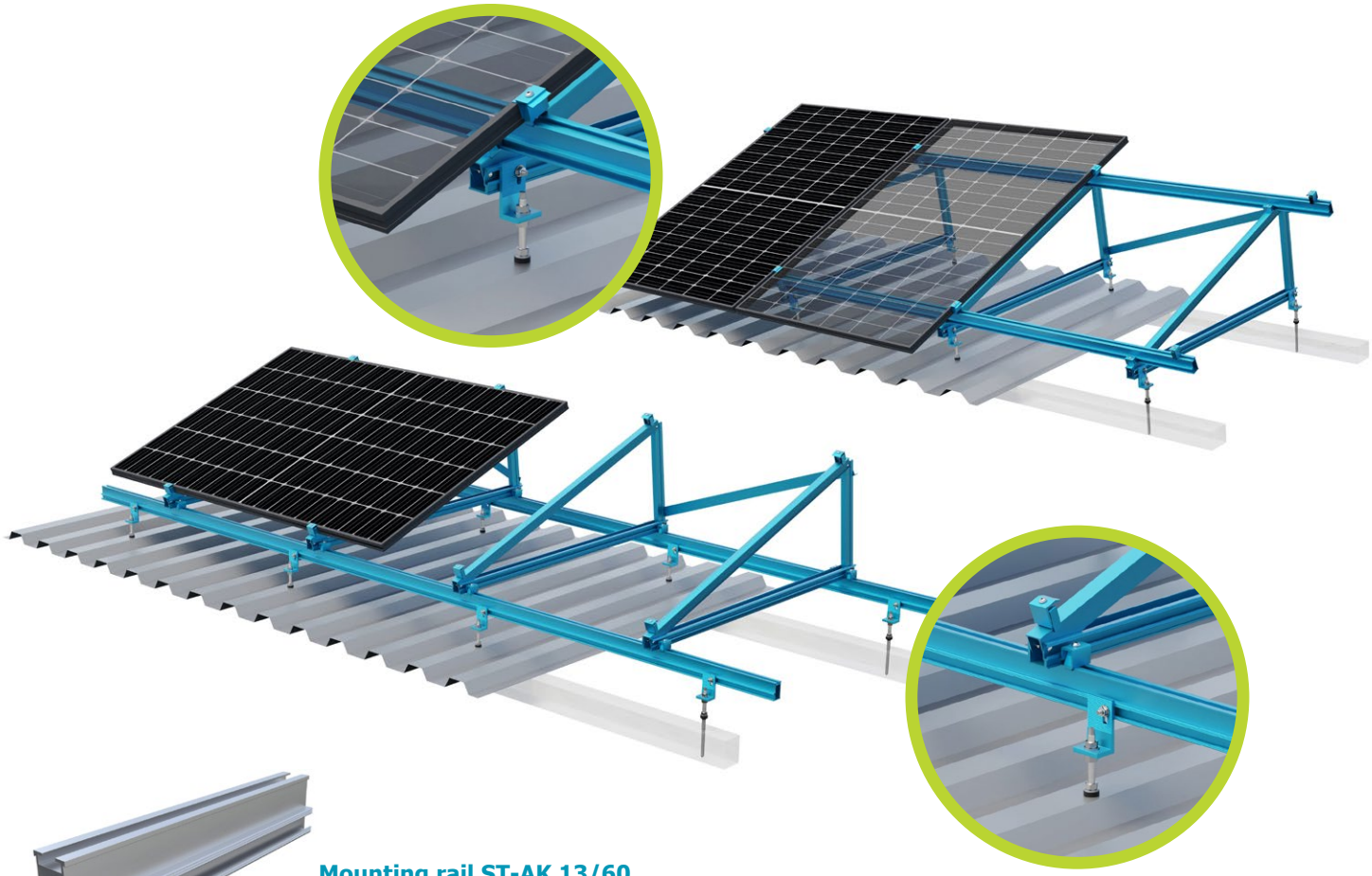
Butterfly roof, double-sided

Butterfly roof, single-sided

Saddle roof, double-sided

Saddle roof, single-sided

... and other roof types

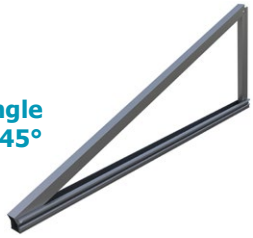


Mounting rail ST-AK 13/60

End clamp AK II Klick 30-50 A

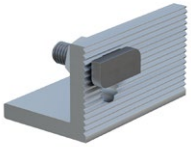
Mid clamp AK II Klick 30-50 A

S:FLEX Triangle
Delta AK 1230 5° – 45°



Cross adapter clamp AK

Hanger bolt M10x200



Bracket 60mm M10

Application:
Fibre-cement boards / sandwich elements / trapezoidal sheet metal

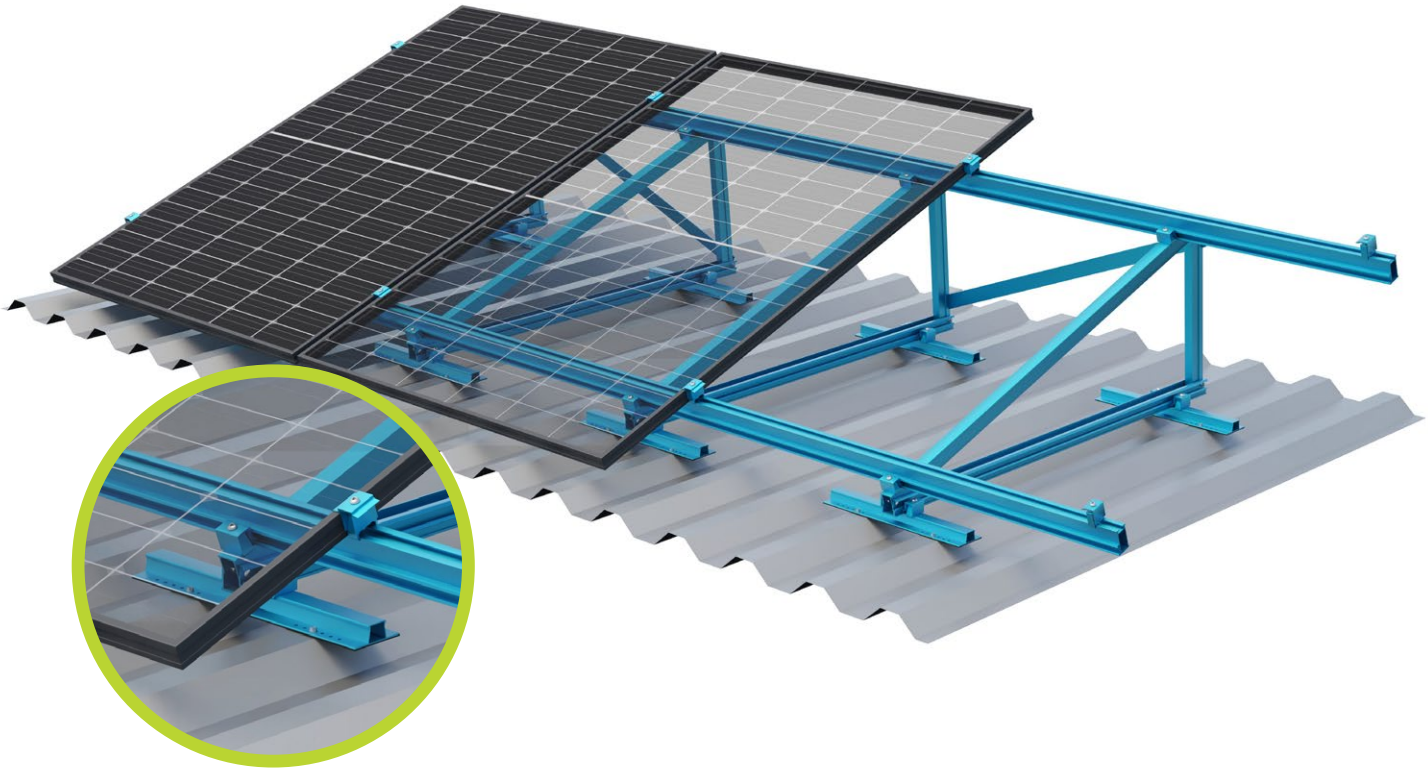
Pitch:
Available in increments of 5° up to 45°, other angles available upon request

Module type:
Framed and frameless modules

Module orientation:
Portrait / landscape

Advantages:

- Free choice of size and position of the module array possible
- Perfect also for small systems of 1, 2, 4 or 8 modules
- Triangles are shipped folded up for less freight and storage costs



Mounting rail ST-AK 13/60

End clamp AK II Klick 30-50 A

Mid clamp AK II Klick 30-50 A

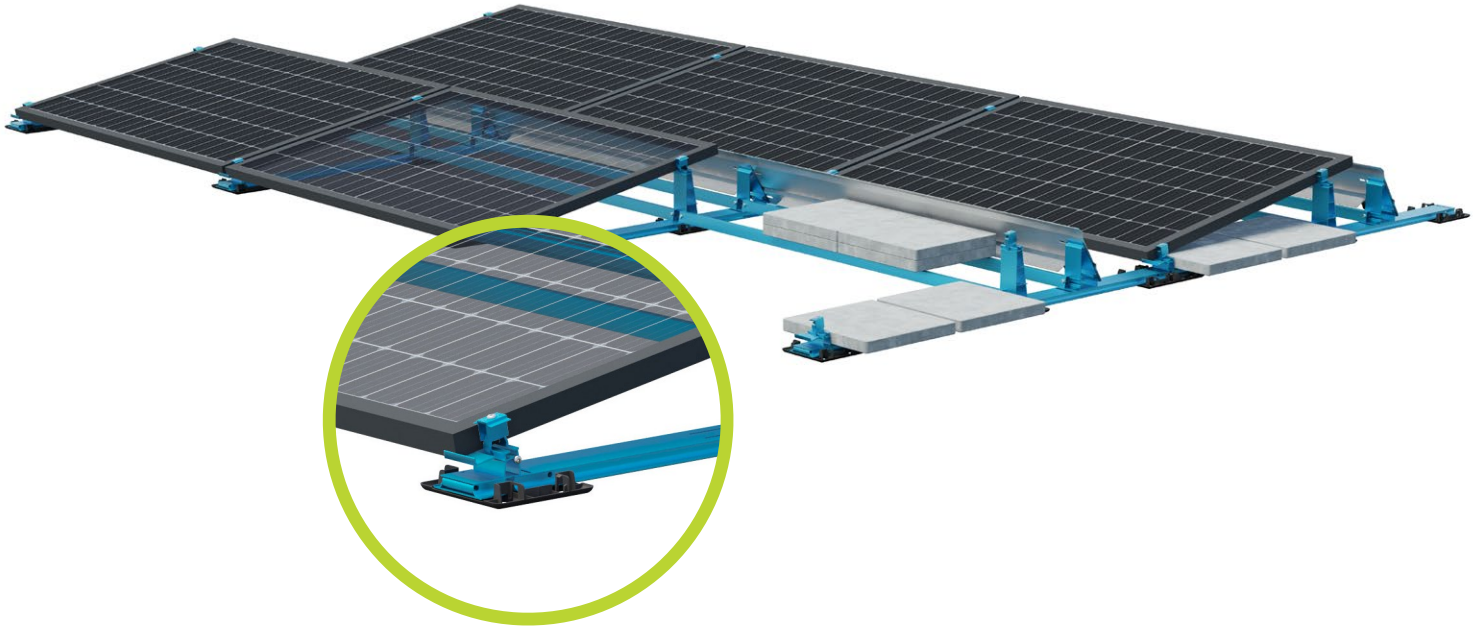
S:FLEX Triangle Delta AK 1230 5°– 45°

Cross adapter clamp AK

Trapezoidal sheet metal rail l=395

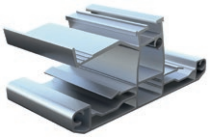
Application:
Trapezoidal and corrugated sheet metal
Pitch:
Available in increments of 5° up to 45°, other angles available upon request
Module type:
Framed and frameless modules
Module orientation:
Portrait / landscape
Advantages:

- Free choice of size and position of the module array possible
- Perfect also for small systems of 1, 2, 4 or 8 modules
- Triangles are shipped folded up for less freight and storage costs



LEICHTmount RAIL 2.1 S
Ground rail

LEICHTmount RAIL 2.1
Foot plate



LEICHTmount RAIL 2.1
Base

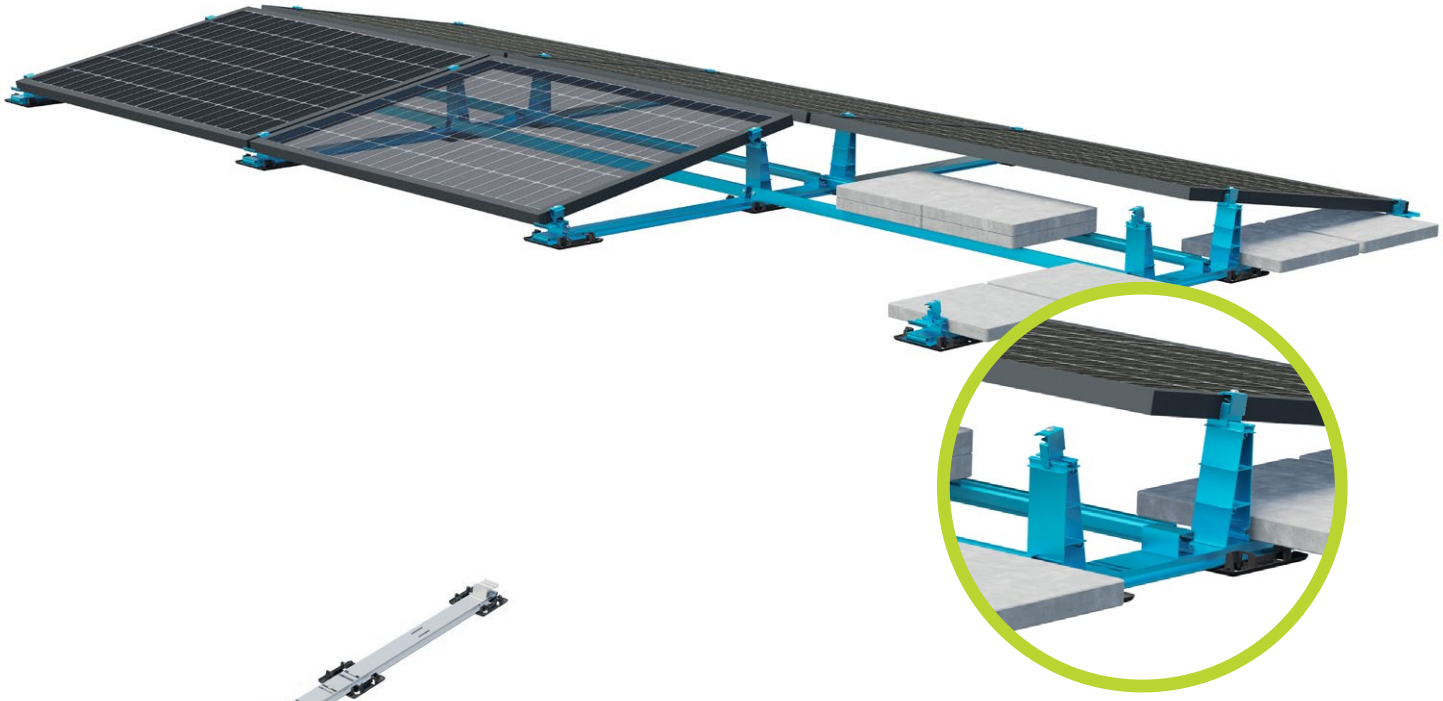
LEICHTmount RAIL 2.1
Tower

End clamp AK II Klick 30-50 A

Mid clamp AK II Klick 30-50 A

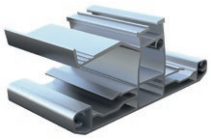
Application:
Flat roof with foil, bitumen, gravel, green roof, concrete
Module orientation:
South
Inclination:
10° / 15°
Module type:
Framed modules
Building height:
25 m max. (up to 50 m upon request)
Roof inclination:
5° max. (up to 10° upon request)
Edge clearance:
Fitting in the roof edge and corner regions possible
System size:
20 x 20 m module area max.
Advantages:

- Installation without roof penetration possible
- Low area load / minimised ballast thanks to aerodynamic design
- Optimised load distribution through ground rails/foot plates
- Suitable for all common module sizes
- Has lightning-current-carrying capacity



LEICHTmount RAIL 2.1 EW
Ground rail

LEICHTmount RAIL 2.1
Foot plate



LEICHTmount RAIL 2.1
Base

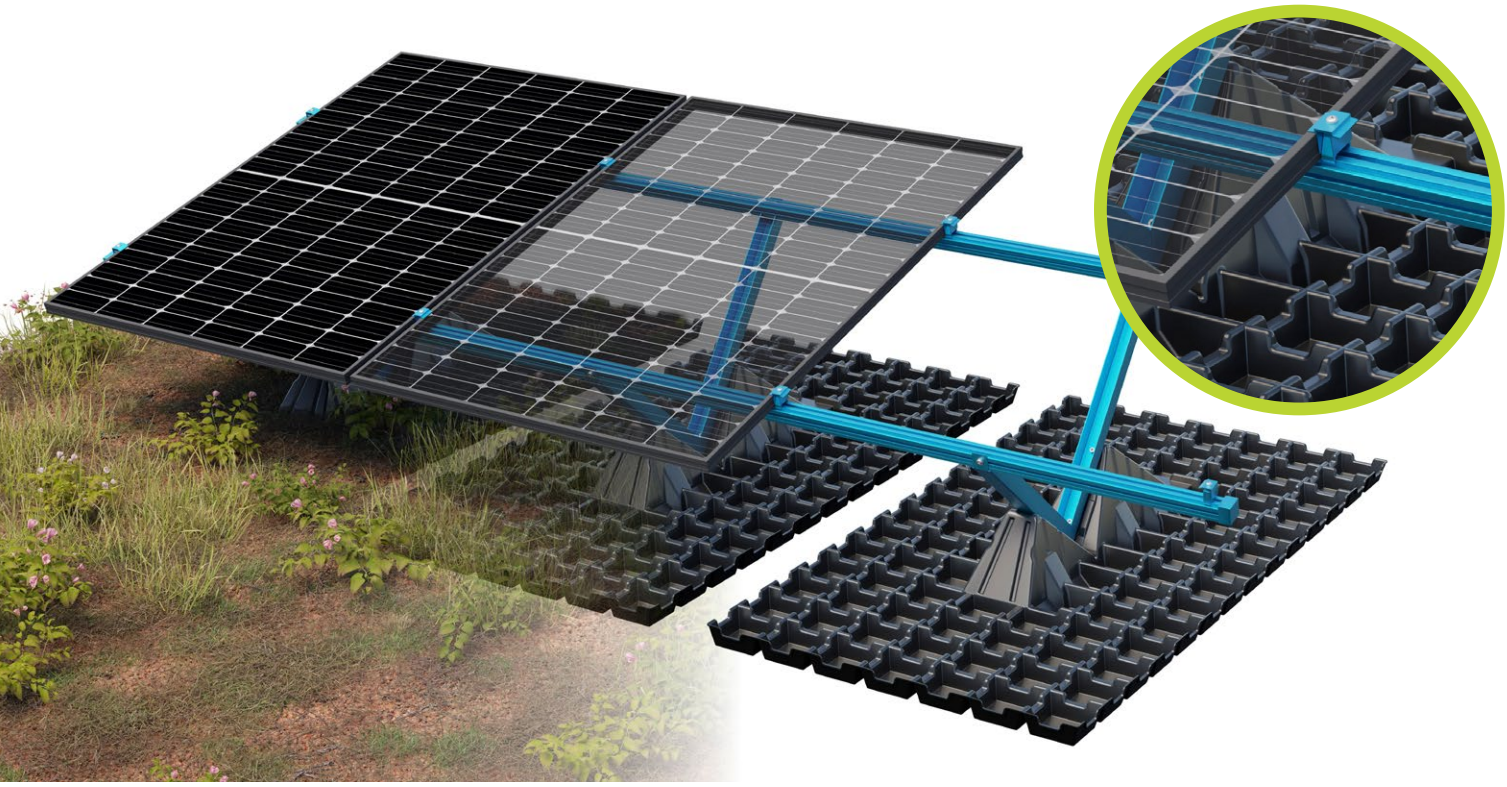
LEICHTmount RAIL 2.1
Tower

End clamp AK II Klick 30-50 A

Mid clamp AK II Klick 30-50 A

Application:
Flat roof with foil, bitumen, gravel, green roof, concrete
Module orientation:
East–West
Inclination:
10°/15°
Module type:
Framed modules
Building height:
25 m max. (up to 50 m upon request)
Roof inclination:
5° max. (up to 10° upon request)
Edge clearance:
Fitting in the roof edge and corner regions possible
System size:
20 x 20 m module area max.
Advantages:

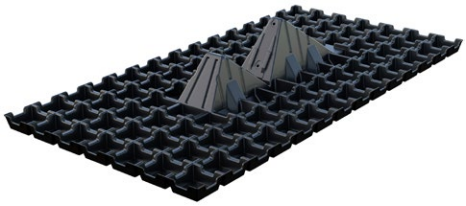
- Installation without roof penetration possible
- Low area load / minimised ballast thanks to aerodynamic design
- Optimised load distribution through ground rails/foot plates
- Suitable for all common module sizes
- Has lightning-current-carrying capacity



GreenLight rail ST universal

GreenLight support Knickfix 10°/15°/20°

GreenLight base plate

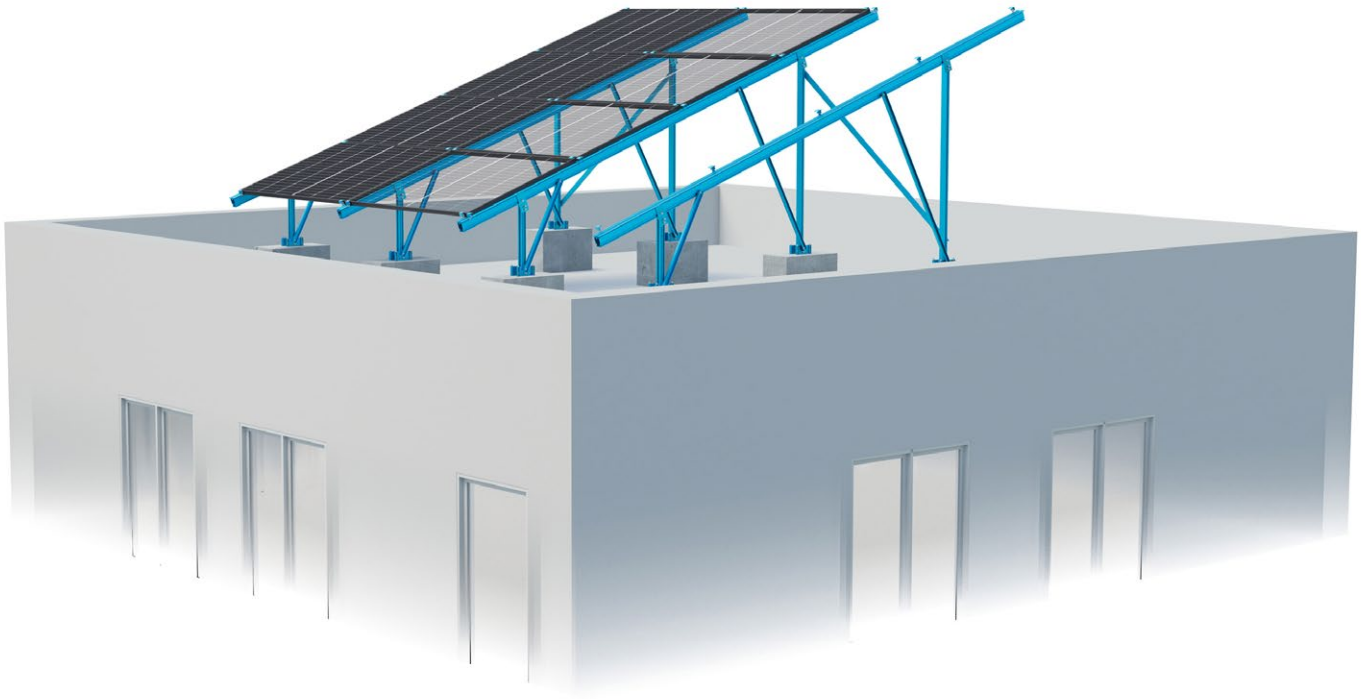


End clamp AK II Klick 30-50 A

Mid clamp AK II Klick 30-50 A

Application:
Green roof (extensive)
Fastening:
Without roof penetration, ballasted
Options:
South and East-West orientation
Module pitch:
10°, 15°, 20°
Module type:
Framed modules
Module orientation:
Landscape / portrait
Roof pitch:
5° max.
System size:
2 modules min.
Advantages:

- No roof penetration
- High water storage volume
- Extremely fast installation
- Suitable for all common module sizes
- Integrated fall protection (optional)



Base rail
Delta Concrete

Pillar Delta Concrete FS 9/40

Top Delta Concrete

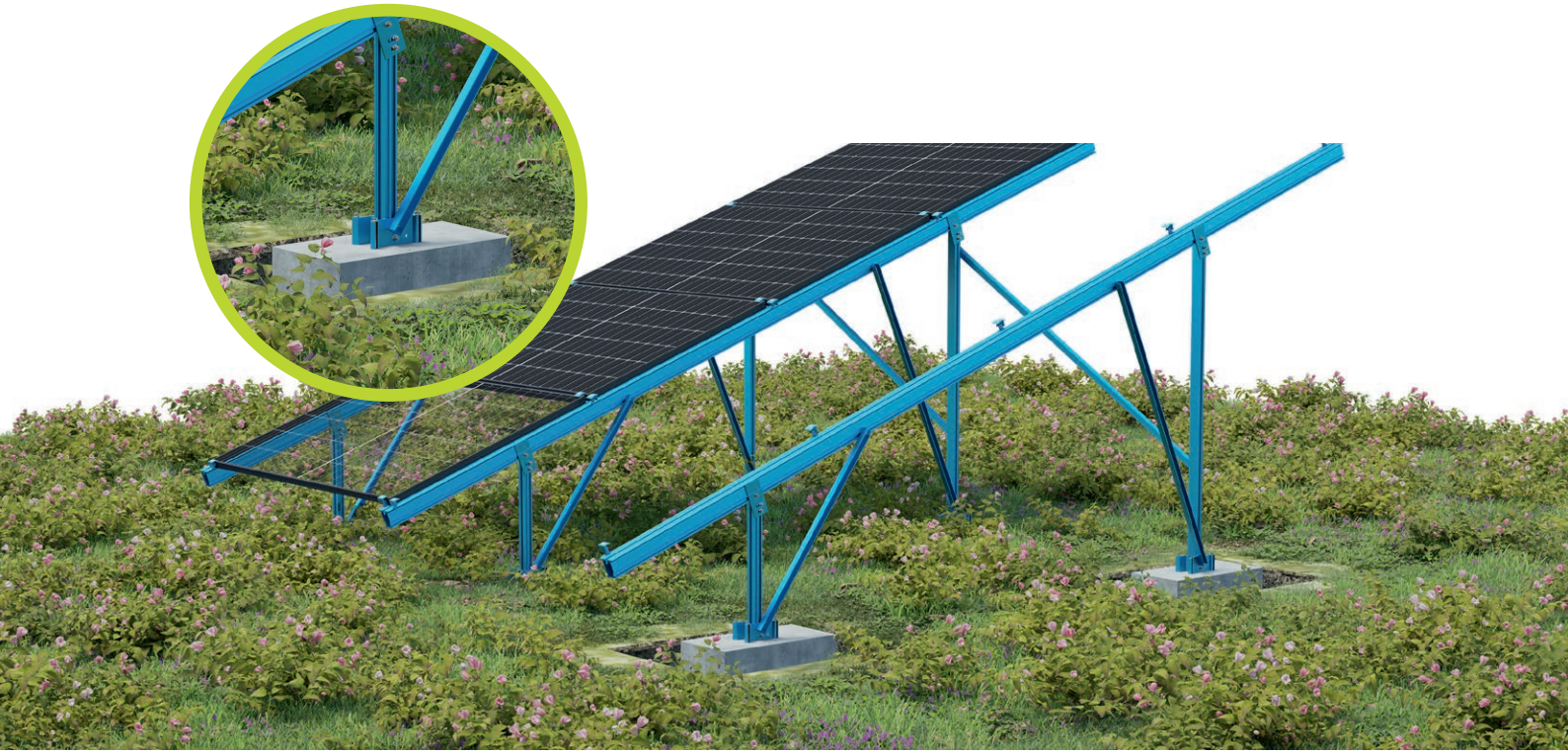
Base Delta Concrete

End clamp Hawk HK 25-45 l=40
Grounding kit

Mid clamp Hawk HK 25-45 l=40
Grounding kit

Application:
Flat roof
Fastening:
Concrete, screw fastening
Options:
South and East-West orientation
Module type:
Framed, frameless (additional horizontal rail), bifacial
Module orientation:
Landscape / portrait
Module pitch:
up to 20°
Maximum module field size:
12 x 4 modules (landscape) / 12 x 3 modules (portrait)
Advantages:

- Designed to be used on flat concrete roofs
- Excellent rear ventilation ensuring high yields, making it particularly suitable for hot regions
- Light-weight, material-saving design
- Offers the possibility to build over obstacles
- No drilling of aluminium on site



Base rail Delta Concrete

Pillar Delta Concrete FS 9/40

Top Delta Concrete

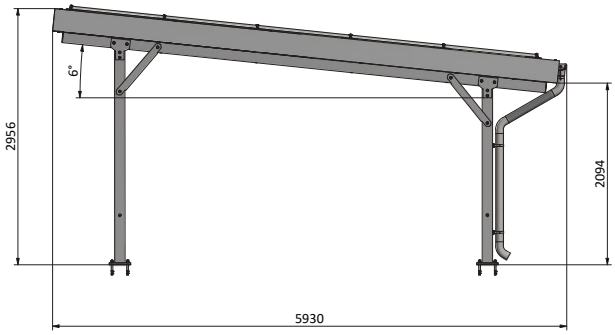
Base Delta Concrete

End clamp Hawk HK 25-45 l=40

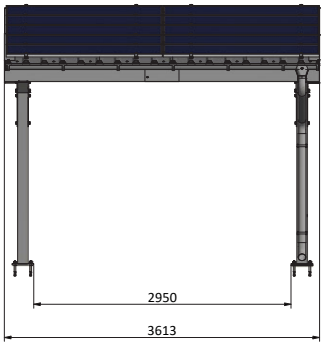
Mid clamp Hawk HK 25-45 l=40

Application:
Ground mount system
Fastening:
Concrete, screw fastening
Options:
South and East-West orientation
Module type:
Framed, frameless (additional horizontal rail), bifacial
Module orientation:
Landscape / portrait
Module pitch:
up to 20°
Pitch:
N-S: any; E-W: module area 1° / terrain 10°
Maximum module field size:
12 x 4 modules (landscape) / 12 x 3 modules (portrait)
Advantages:

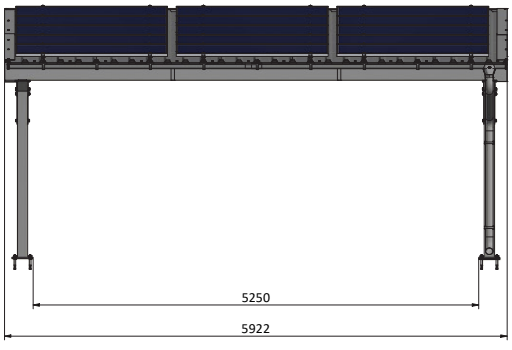
- Designed for ground-mount on concrete foundations
- Light-weight, material-saving design
- Offers the possibility to build over obstacles
- No drilling of aluminium on site



Dimensions – side view



Carport Single dimensions – front view



Carport Double dimensions – front view

Parking lots:
1 or 2 parking spaces, expendable up to 12 freely combinable single/double segments for a maximum of 24 parking spaces

Foundation:
Anchored in the ground/concrete

Height:
Headroom: 2.09 m / Max. height: 2.95 m

Roof area / Module field size:
Single: 22 m² / 10 modules; Double: 35 m² / 15 modules

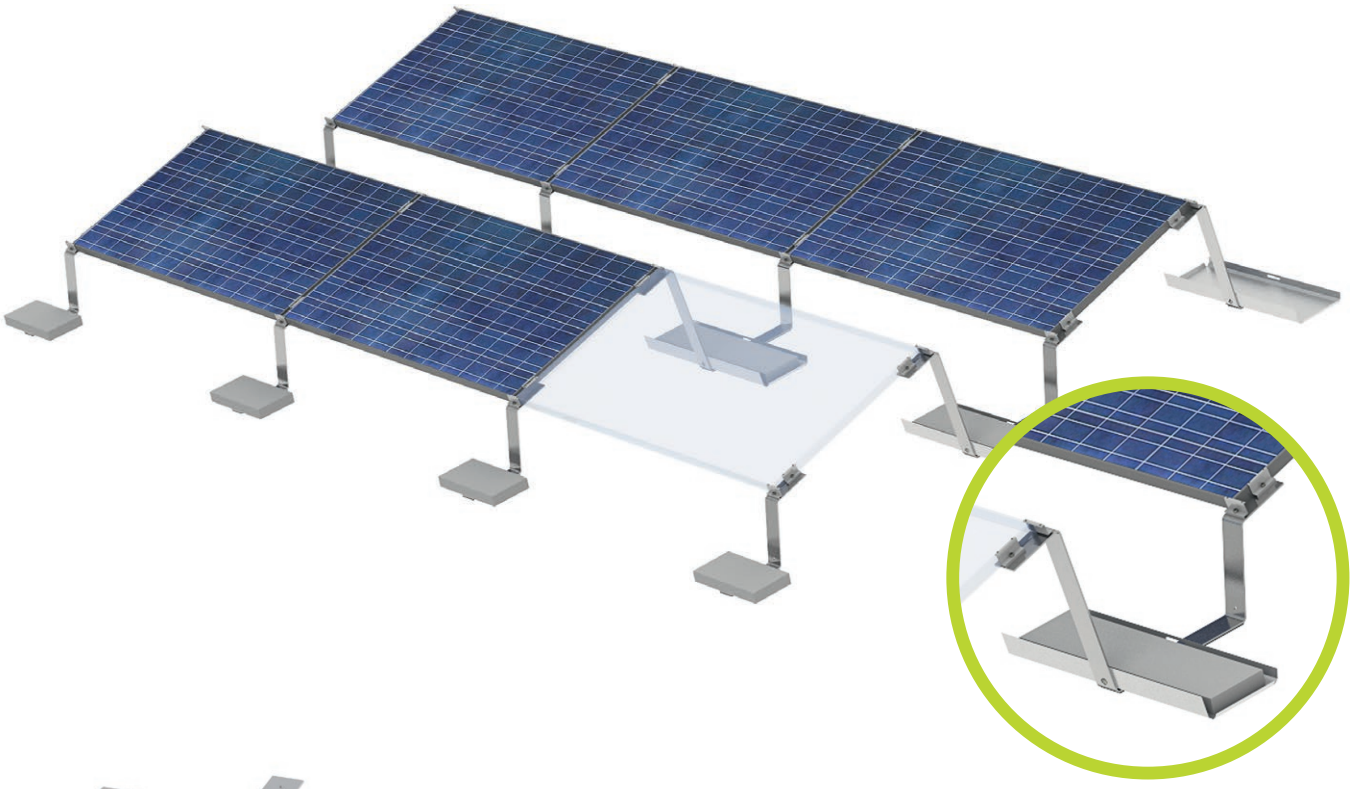
Roof pitch:
6°

Module orientation:
Landscape/portrait

Module size:
All common sizes

Materials:
Carport: hot-dip galvanized steel, powder coated
Sheet metal: continuous, 0.75 mm thick
Solar fastening: aluminium

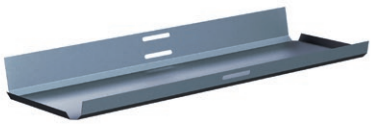
Colour:
Matt black (RAL 9005), anthracite trapezoidal sheet



LEICHTmount Ground Mount S Connector

LEICHTmount G S Front Part

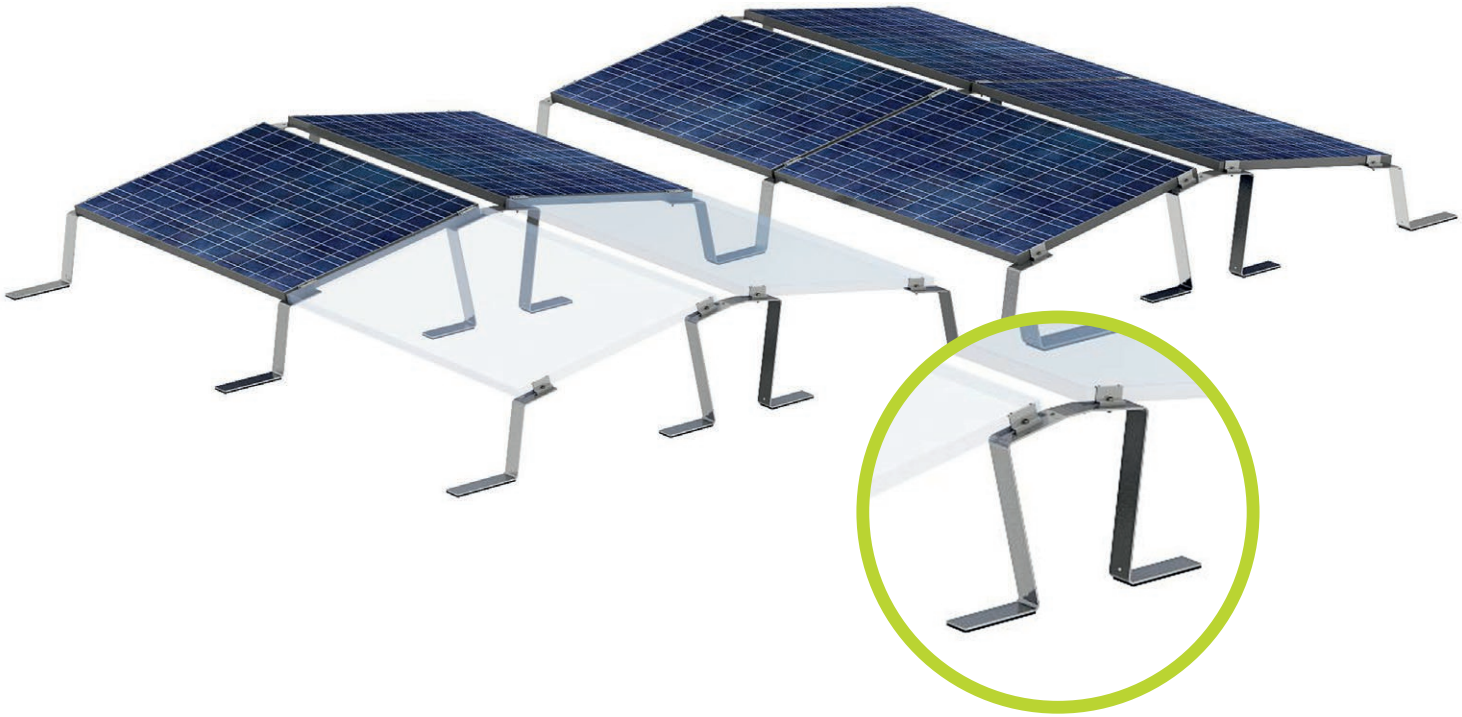
LEICHTmount G S End Part



LEICHTmount Ballast Tray 880

Application:
Ground Mount System
Module orientation:
South
Module tilt:
15° / 20°
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



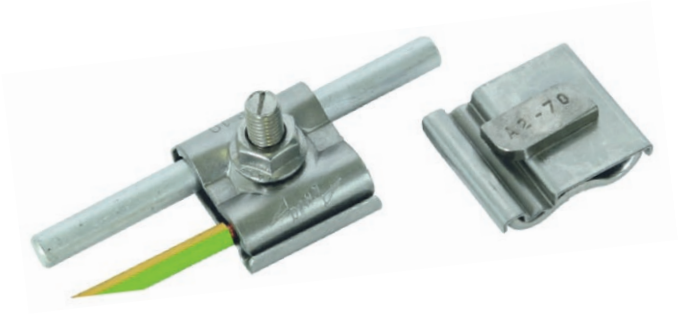
LEICHTmount G EW Top Part

LEICHTmount G EW Front Part

Mid clamp 80mm with grounding pins

Application:
Ground Mount System
Module orientation:
East–West
Module tilt:
10°
Module type:
Framed modules
Max. ground slope:
20°
System size:
2 x 4 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

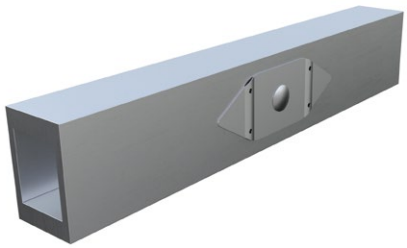


Grounding clamp DEHN Uni

- To integrate the mounting system into the building's equipotential bonding system and to connect it to earth
- Stainless steel to prevent contact corrosion
- Connection by means of hammerhead bolt and locking nut (positive and frictional locking)
- Diameter of clamping area for aluminium round wire: 8 - 10 mm / Connection cross-section of equipotential bonding conductor: 4 - 50 mm²

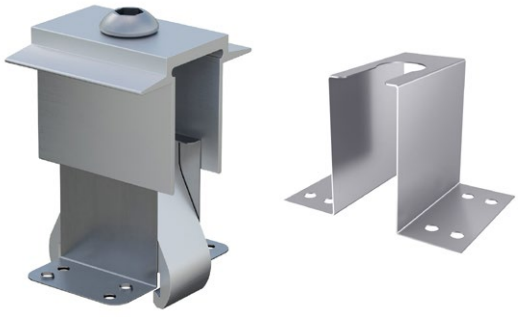
OBO equipotential bonding clamp

- For equipotential bonding of the mounting rails by means of aluminium round wire
- Connection by means of hammerhead bolt and locking nut (positive and frictional locking)
- Diameter of clamping area for aluminium round wire: 8 - 10 mm



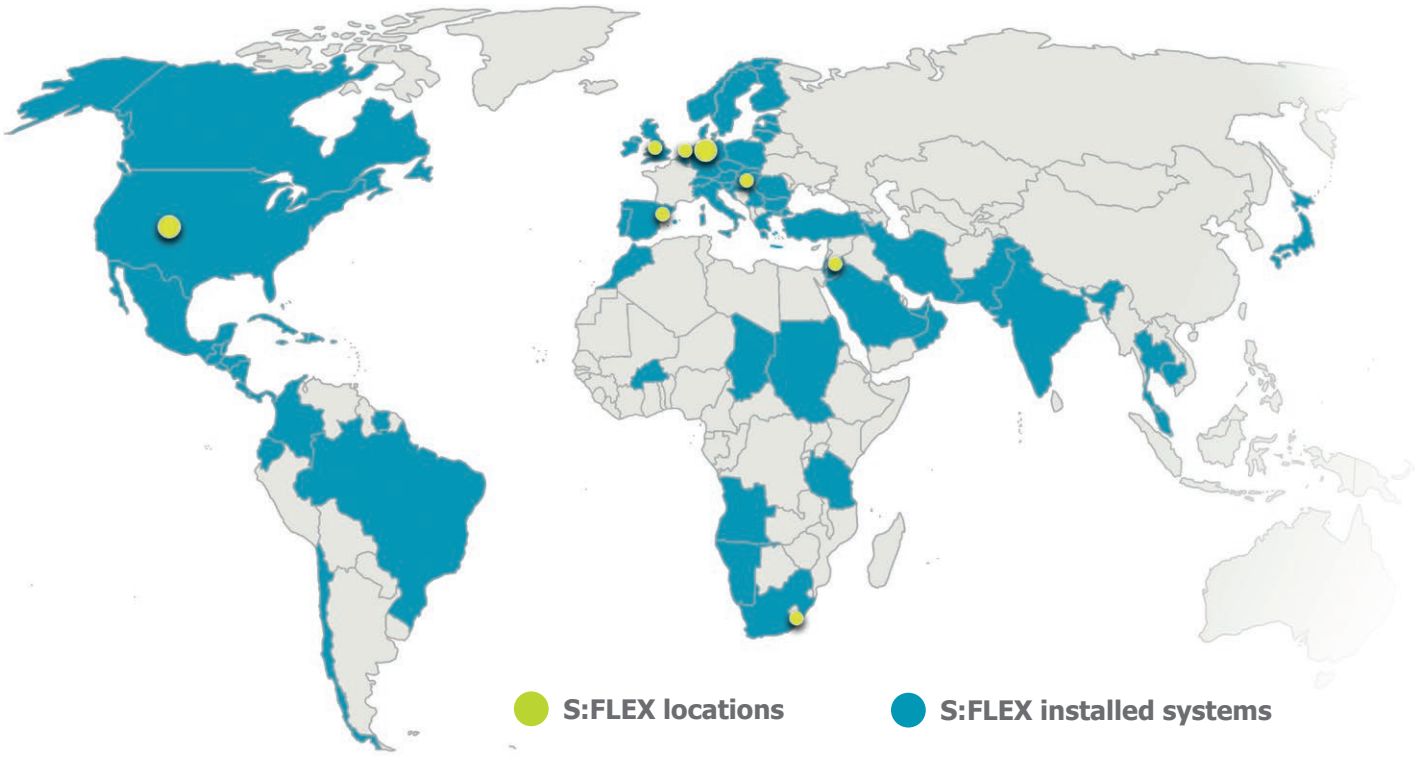
Splice 5/7/13 Grounding

- Equipotential bonding between the rails by means of a corresponding connector with stainless steel earthing blades



MH AK Klick 30-50 Earthing plate / Earthing plate 4x2

- For integration of the module frames into the equipotential bonding system
- Equipotential bonding between the module frame and substructure
- Breaks through the anodised layer
- Stainless steel
- For pre-assembly and installation on site



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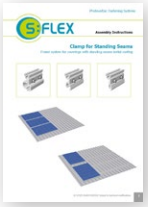
S:FLEX Pitched Roof Systems



S:FLEX Standing Seam Clamps

S:FLEX HS Rails HK 125/172

S:FLEX HS Rail HK 125 XL

S:FLEX Bracket for Sheet Metal Installation

S:FLEX Trapezoidal Sheet Metal Rail LIFT/VARIO

S:FLEX Trapezoidal Sheet Metal Rail

S:FLEX Hanger Bolt Systems

S:FLEX Flat Direct

S:FLEX LEICHTmount RAIL 2.1 S

S:FLEX LEICHTmount RAIL 2.1 EW

S:FLEX GreenLight

S:FLEX Delta Concrete

S:FLEX Carport Single/Double