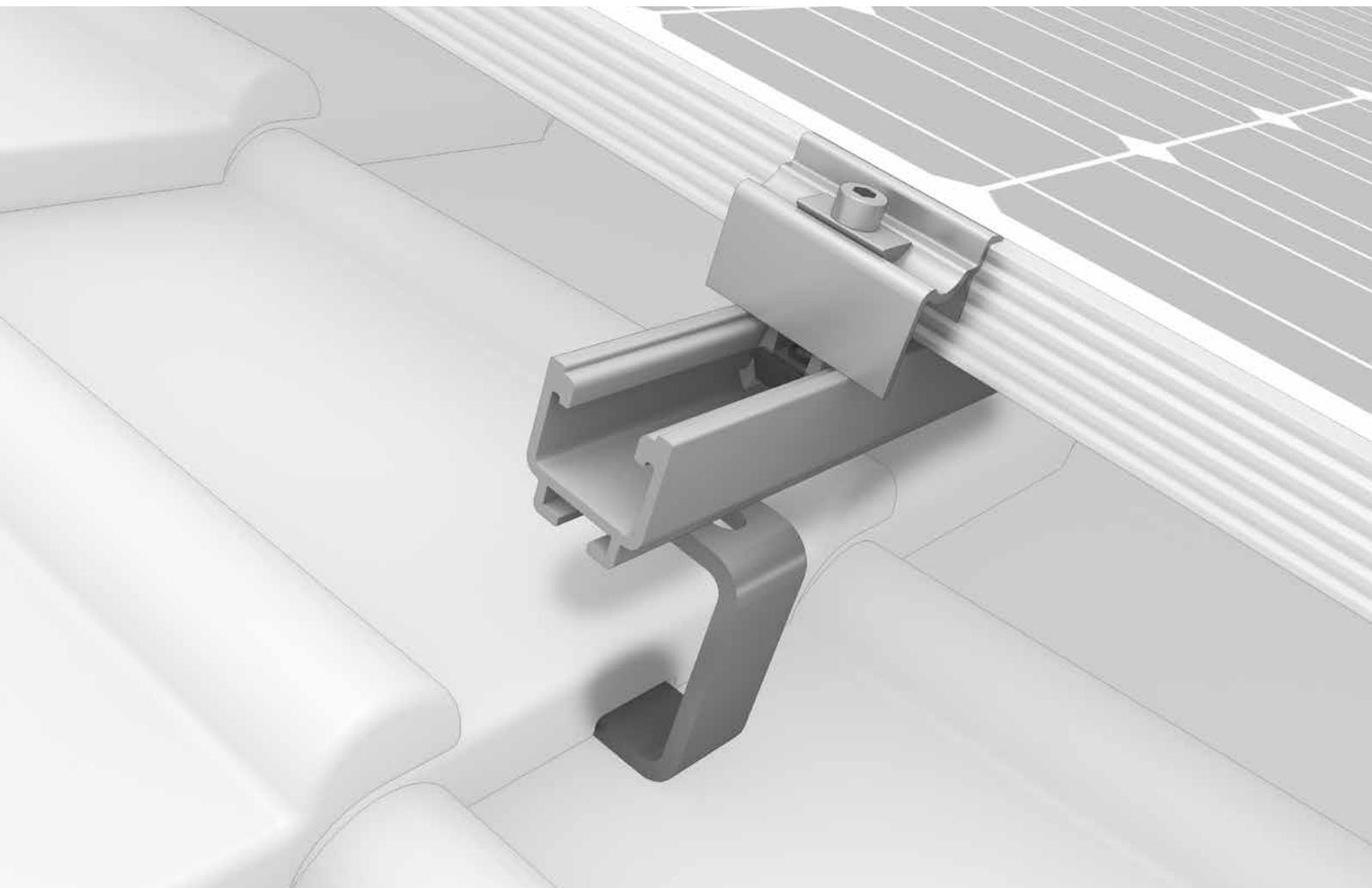


SolidRail System



/ Comprehensive range of mounting rails for varying load profiles

/ Robust and structurally proven

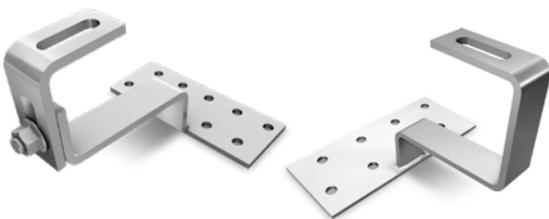
/ High flexibility for a diverse range of widths



Roof fastenings

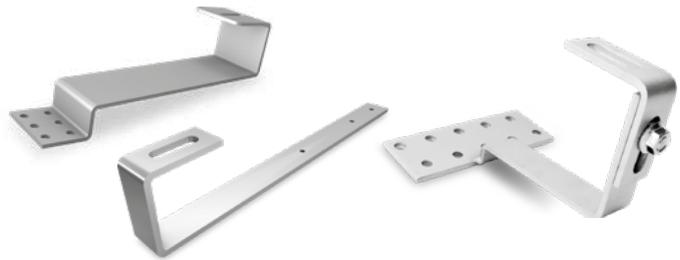
Stainless steel roof hooks

- / High-quality, thin stainless steel brackets with flexible adjustable connection even for narrow rafters
- / For pantiles, flat tiles and roof tiles
- / Height adjustable and many precisely fitting roof hooks



Special roof hooks

- / Many application possibilities with the roof hooks for slate and beaver tail
- / Fastening on Coppo roofs is possible with the 1-fold height-adjustable SolidHook Coppo



Hanger bolts and solar fasteners

- / For all corrugated fiber cement, corrugated sheet metal and trapezoidal sheet metal coverings as well as sandwich panels
- / Secure sealing at the roofing
- / Connection via adapter plate with adjustment option
- / Hanger bolts with german building authority approval [abZ]



Sheet metal folding clamps

- / Many application possibilities: Standing seam, angle seam, snap seam and round seam [e. g. Kalzip]
- / Rib-Roof solutions for 465, Speed 500 and Evolution
- / Penetration-free mounting

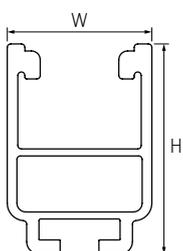
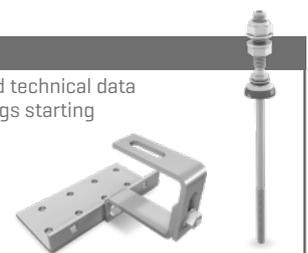


Technical data

SolidRail	UltraLight 32	Light 37	Medium 42	Alpin 60
Figure				
Material	Aluminium [EN AW-6063 T66]			
W = width [mm]	39	39,5	41	41
H = height [mm]	32	37	42	60
Lengths [m]	2.10 / 2.25 / 3.30 / 4.40 / 5.50		4.40	5.50
Weight [kg/m]	0.7	0.85	1.3	1.7
Second rail layer	SingleRail or SolidRail			

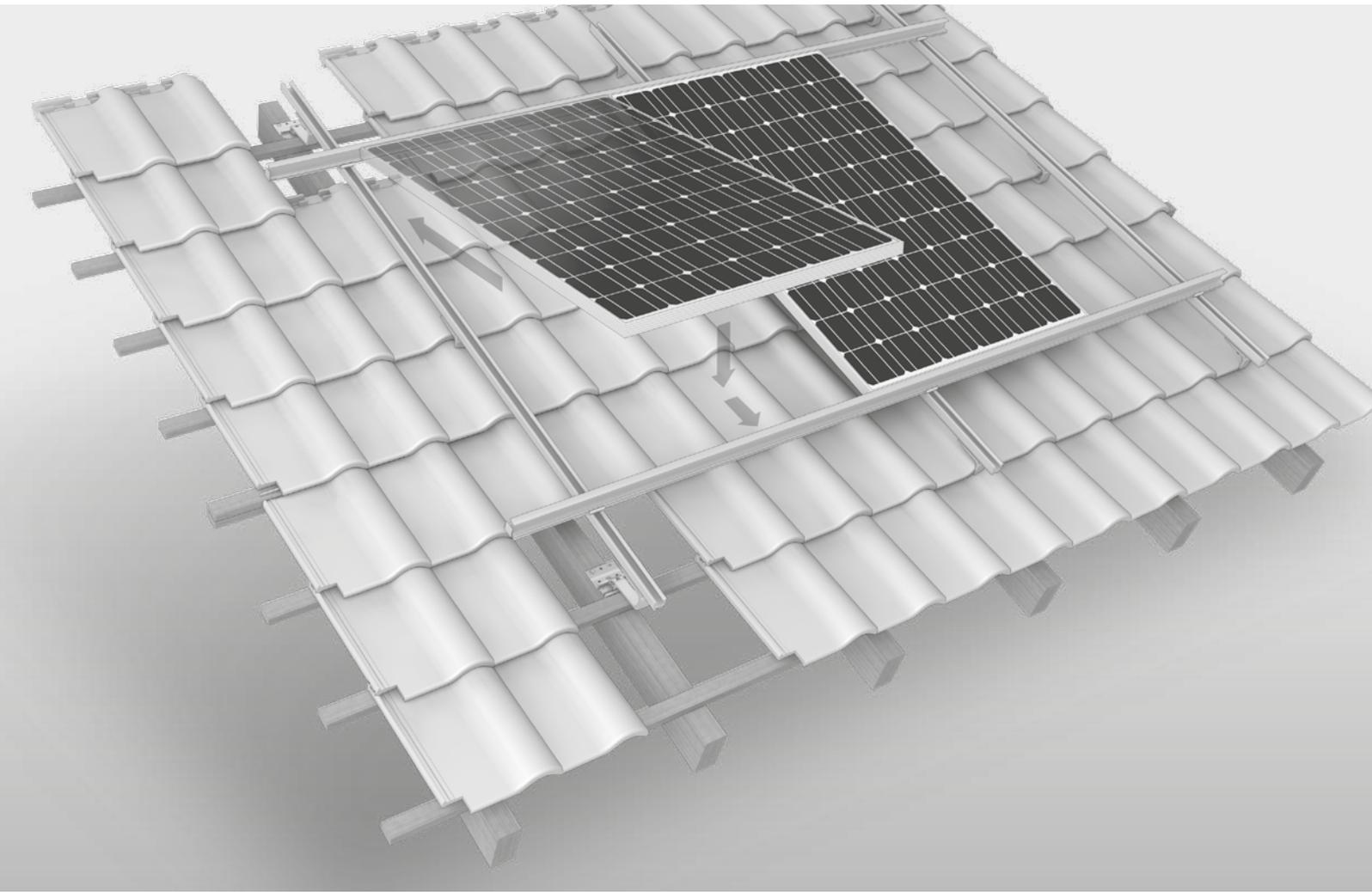
Roof fastenings

You will find detailed technical data on our roof fastenings starting on page 22.



SolidRail L: For heavy loads across large widths!

Insertion System

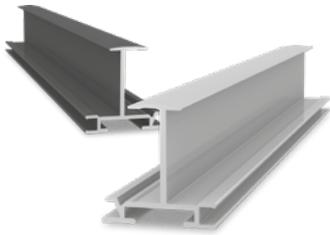


- / Without having to apply clamps eliminates the need for assistance ensuring lightning-fast installation
- / Easy to assemble with few components and without special tools
- / Sleek design with continuous closed surface adds further robustness
- / Insertion profile provides additional frame reinforcement



In cooperation with
solarteam ● 

Components



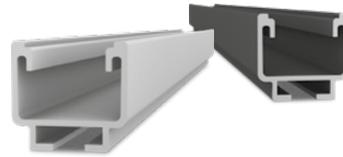
Insertion rails

- / Intelligent solution for efficient module installation
- / Seals surface
- / Available in black



Cross connector

- / Fixation for insertion rail on SolidRail
- / Simple mounting



SolidRail

- / Robust mounting rail
- / Different load conditions
- / For large spans
- / Available in black



Cable management

- / Quick cable connection beneath the insertion rail
- / Up to 5 cables



CrossHook 3S+/4S+

- / Height-adjustable and laterally adjustable
- / Also suitable for narrow rafters



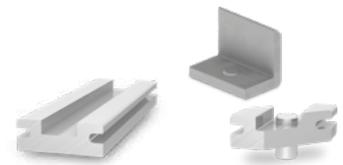
Hanger bolts

- / For corrugated fibre cement or corrugated sheet roofing with wooden substructure
- / Custom height adjustment



MultiRail

- / For trapezoidal sheet and sandwich panels
- / Roof attachment and supporting element

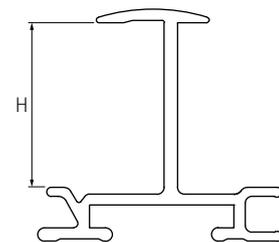


Accessories

- / Connector insertion rail
- / Side stopper
- / Horizontal end bracket

Technical data

	Insertion system
Scope of application	Pitched roofs with pan tiles, corrugated fibre cement, trapezoidal sheet or sandwich panels
Fastening type / roof connection	Roof hooks, hanger bolts or MultiRail
Module frame heights [H]	<ul style="list-style-type: none"> • 30 mm • 35 mm
Requirements	7 mm spacing between insertion rails
Module orientation	Landscape and portrait
Material	<ul style="list-style-type: none"> • Mounting rails and cross connector: Aluminium EN AW-6063 T66 • Components: stainless steel [1.4301] A2-70
SolidRail lengths [m]	Aluminium mill finish: 4.30 and 5.40 Black anodised: 5.40
Insertion rail lengths [m] Aluminium mill finish / Black anodised	Insertion rail 30 5,40 m Insertion rail 35 5,40 m



Roof fastenings

You will find detailed technical data on our roof fastenings starting on page 22.

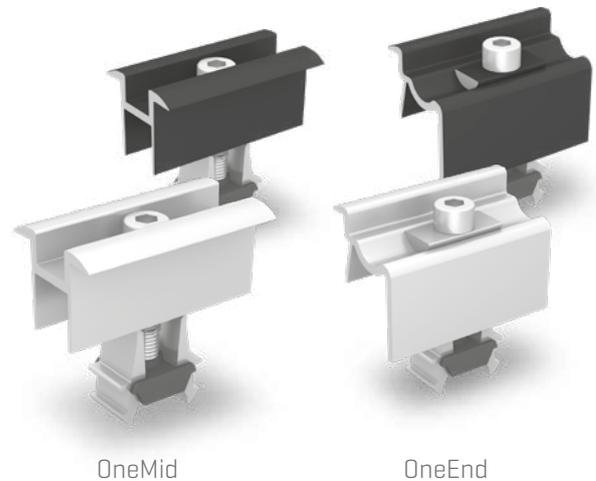


Module clamps

The module clamps cover the most common module frame heights of 30 – 42 mm. Compatible with SingleRail, SpeedRail, MultiRail and SolidRail.

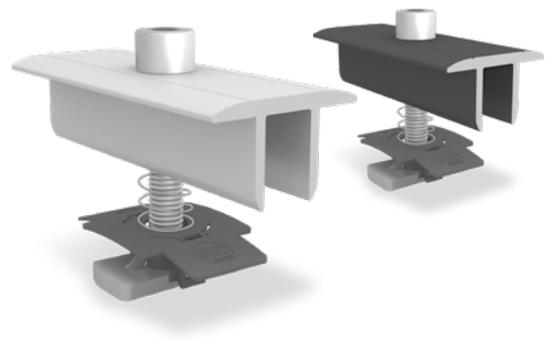
Module middle clamps XS

Module frame height / description	Item number
OneMid, middle clamp, aluminium mill finish	2003071
OneMid, middle clamp, black anodised	2003072
OneEnd, end clamp, aluminium mill finish	2002514
OneEnd, end clamp, black anodised	2002589



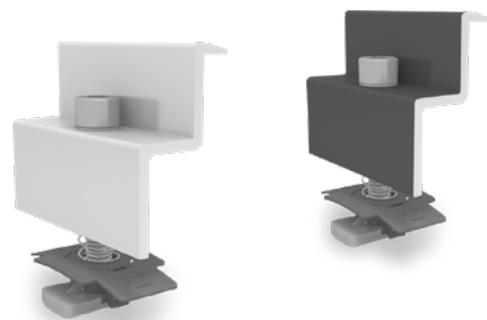
Module middle clamps XS

Module frame height / description	Item number
30 - 33 mm / M8×50, aluminium mill finish	1005156
30 - 33 mm / M8×50, black anodised	1005157
39 - 44 mm / M8×60, aluminium mill finish	1004908
39 - 44 mm / M8×60, black anodised	1005159
45 - 48 mm / M8×65, aluminium mill finish	1005143
45 - 48 mm / M8×65, black anodised	1005160
49 - 50 mm / M8×70, black anodised	1004407
49 - 50 mm / M8×70, schwarz eloxiert	1005161



Module end clamps

Module frame height / description	Item number
30 - 31 mm / M8×30, aluminium mill finish	1005345
30 - 31 mm / M8×30, black anodised	1005347
42 - 44 mm / M8×35, aluminium mill finish	1005291
42 - 44 mm / M8×35, black anodised	1005295
45 - 47 mm / M8×40, aluminium mill finish	1005171
45 - 47 mm / M8×40, black anodised	1005270
49 - 50 mm / M8×45, aluminium mill finish	1005172



Accessories

Self-drilling wood screw, flange head, underhead secondary thread

Self-drilling wood screw [Heco] with flange head [Topix] and star socket [Torx]. With building approval. For mounting with over-rafter insulation. Fixes the counterbattens in place using a second screw thread under screw head. Material: Stainless steel A2; matches TX 40 screwdrivers
Item number: 1003437



Self-drilling wood screw, countersunk head

Self-drilling wood screw with countersunk head [Heco]. With building approval.
Material: Stainless steel A2; matches TX 25 screwdrivers
Item number: 2004108



Screw anchor, Multi Monti

Multi Monti screw anchor [Heco] for fastening to concrete; min. borehole depth 40 mm. Steel surface: galvanised and blue passivated, head diameter 17 mm, nominal bore diameter 6 mm
Material: Galvanised steel
Drive: TX 30



Type	Item number
7,5 x 40 [TX 30]	2002570
10 x 70 [SW 13]	2002571

Endcaps SingleRail 36

End caps for SingleRail 36.
Material: Glass fibre reinforced polyamide
Item number: 1004767



Endcaps SolidRail

End caps for K2 SolidRail.
Material: Glass fibre reinforced polyamide

Type	Item number
Light	1004765
Medium	1004766
Alpin	1005053



Lightning protection clamp Multi Sets

Lightning protection clamp for clamping lightning protection cables with \varnothing 8 mm.
For universal use as a T, cross, parallel and impact clamps. Material: aluminium



Image	Type	Components	Item number
	Lightning protection clamp Multi Alu 8 mm Set	<ul style="list-style-type: none"> Lightning protection clamp Multi [1003151], aluminium Slot nut [1001643], stainless steel, PA Washer [8,4×20×1.2 mm], stainless steel A2 Allen Bolt [M8×30], stainless steel A2 	2002473
	Lightning protection clamp 8 mm Double Set	<ul style="list-style-type: none"> 2× lightning protection clamps Multi [1003151], Aluminium Hexagon flange nut with serration M8 [100043]; stainless steel A2 2× washers [8,4×20×1.2 mm], stainl. steel A2 Allen Bolt [M8×40], stainless steel A2 	2002474

TerraGrif equipotential bonding

Equipotential bonding between module and rail.
Material: Stainless steel

Type	Item number
TerraGrif K2Mi Landscape/Portrait	2002649
TerraGrif K2PA 32 Landscape	2000055
TerraGrif U17 Portrait	2000056
TerraGrif K2SZ Landscape/Portrait	2001881
TerraGrif S	2002397

