

THIS IS AEROCOMPACT®

smart
mounting
solutions

100 MW

annual volume

with AEROCOMPACT worldwide



OVER **2000** PROJECTS
INSTALLED PER YEAR



AEROCOMPACT S

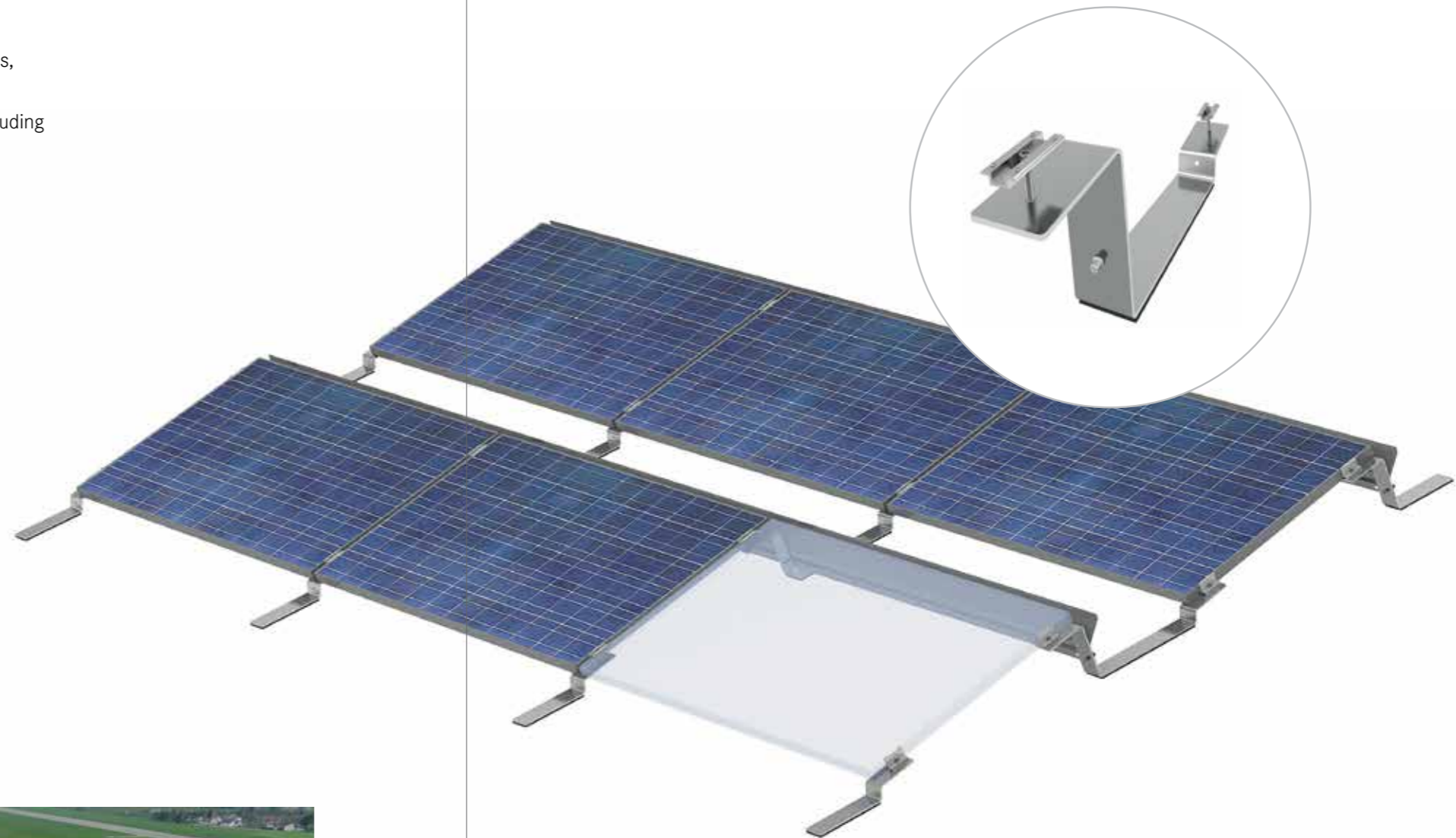
5° / 10° / 15°

AEROCOMPACT S is our aerodynamic south-oriented racking solution for mounting framed modules on flat roofs. It is available in 5°, 10° and 15° mounting tilts, with different options for inter-row spacing.

TESTED on the HIGHEST STANDARDS

Our patent pending system is wind-tunnel tested with the newest standards, it is TUV certified to UL 2703 and has a 25-year limited product warranty. Aerocompact S has also been TUV load tested according to IEC 61215 including module flash-testing and fire-testing according to UL 1703 standards.

AEROCOMPACT S is delivered pre-assembled and with newly developed building protection mats – with long-term durability testing.



↓ 2.2 MWp, south S10, Wels, Austria



AEROCOMPACT+

east / west

AEROCOMPACT+ is our aerodynamic east/west-oriented flat-roof system with material and cost savings of up to 30%. The rolling design of the module layout has very little uplift and therefore, less ballast is needed.

With **AEROCOMPACT+** each kWp is easily and quickly mounted in three minutes. Like the Aerocompact S system, the **AEROCOMPACT+** also comes with a 25-year limited product warranty. It has been wind-tunnel tested, is TUV certified to UL 2703 standards and comes delivered pre-assembled with building protection mats.



Flatroof

Flatroof

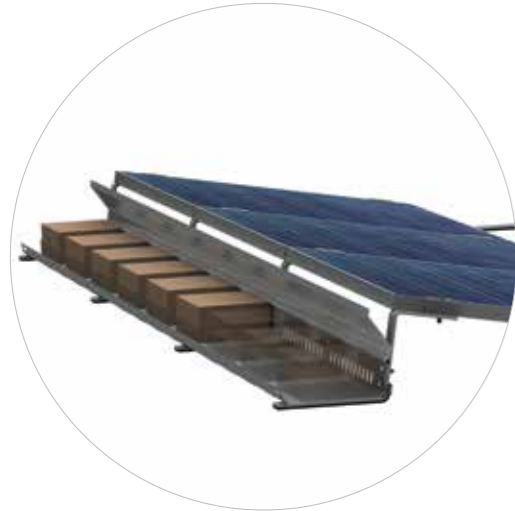
↓ 1 MWp, east/west, New York, USA



same Space / more Modules



ACCESSORIES



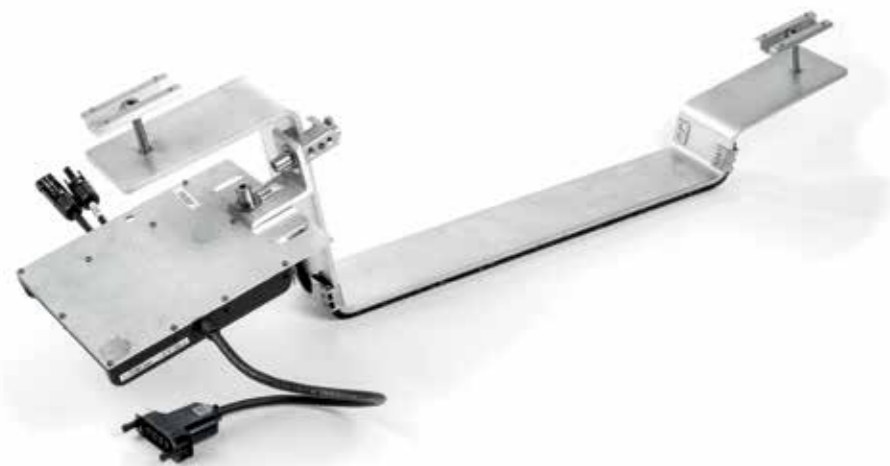
BALLAST TRAY

This system type with ballast trays is used in areas with high wind loads and roofs with low point loads. The main advantages of this type of installation are that more ballast per module can be installed and the evenly distributed point load on the roof surface.

When using the ballast tray on gravel roofs, the gravel can be shoveled directly into the tray and serves as ballasting.

MICRO-INVERTER CLAMP

With the NEW update 2.1, a UL-certified micro-inverter and optimizer clamp is now available.



◀ In detail ▶

MECHANICAL ATTACHMENTS

Aerocompact offers a suitable hybrid solution for roofs that have specific weight requirements for the photovoltaic system. The combination of roof attachment points and ballasting reduces the overall weight of the system. This is also an option which is used in areas with seismic activities to prevent the array from shifting.



WIRE MANAGEMENT

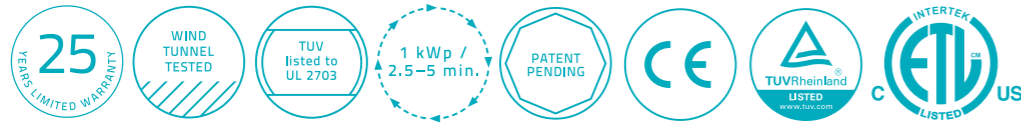
The NEW wire management solution, used for string wiring the rows, is now UL-certified and available as accessory.



YOUR BIG ADVANTAGE

from the start

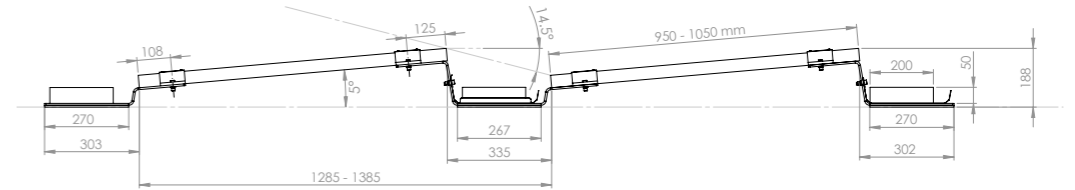
- 25 year product warranty
- Wind tunnel tested
- Incl. protection pads with aluminum coating
- TUV certified, conforms to UL 2703
- Patent pending
- Shipment of 700 kWp in one truckload
- Without roof penetration
- Optimum module ventilation
- Complimentary ballast calculation incl. roof layout
- Made in Europe
- Minimum order quantity only 2 kWp
- Module clamps with grounding pins
- TUV certified, conforms to IEC 61215
- Fire tested according to UL 1703
- Best price performance ratio available
- The fastest installation in the industry
1 kWp, 5 min., 2 men
- Statically optimized system
- Less material = less shipping costs
- Optimized wind suction, therefore less ballasting than other systems
- Optimum water drainage
- Suitable for roof edge zones



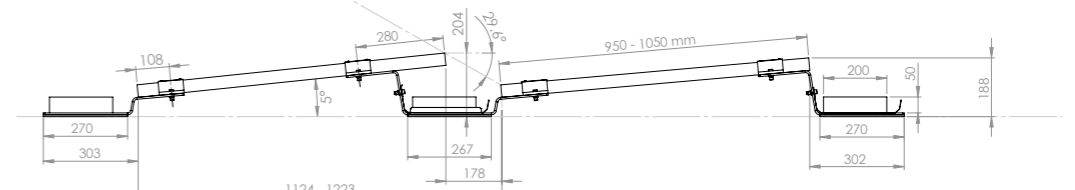
Technical details

- Mounting Tilt:** AEROCOMPACT S: 5°, 10°, 15°
AEROCOMPACT+: 10°
- Inter-Row Spacing:** AEROCOMPACT S 5 (14.5° sun-angle): 335 mm (13.2 inch) spacing
AEROCOMPACT S 5 (29.6° sun-angle): 178 mm (7 inch) spacing
AEROCOMPACT S 10 (18° sun-angle): 527 mm (20.7 inch) spacing
AEROCOMPACT S 10 (25° sun-angle): 380 mm (14.9 inch) spacing
AEROCOMPACT S 15 (18° sun-angle): 790 mm (31 inch) spacing
AEROCOMPACT S 15 (25° sun-angle): 571 mm (22.5 inch) spacing
AEROCOMPACT+: 464 mm (18.3 inch) spacing
AEROCOMPACT+: 297 mm (11.7 inch) spacing
- Max. Array size:** 12 x 10 rows, 120 modules
- Min. Array Size:** AEROCOMPACT S: 2 rows with 3 modules / 3 rows with 2 modules
AEROCOMPACT+: 2 rows with 2 modules
- Roof Edge Zone:** Roof areas F and G can be used
- Module Dimensions:** 950 - 1050 mm x 1552 - 2080 mm (width - length)
- Max. Roof Slope:** 5 degree
- Roof Height:** Max. 25 m
- Windload:** Up to 2.4 kN/m² (Design load as a load combination of dead load and wind suction)
- Snowload:** AEROCOMPACT Standard up to 2.4 kN/m²
AEROCOMPACT Alpin up to 4.4 kN/m² (Design load as a load combination of dead load, wind and snow pressure)
- Module approval:** Please request approved module list from the module manufacturer or Aerocompact
- Materials:** Supporting materials made of aluminum EN AW 6060 T64, module-clamps aluminum EN AW 6063 T66, stainless steel screws, wind-deflector (aluminum-zinc coated)
- Shipping:** Approx. 40 kW per pallet, 700 kWp per truckload
- System Requirement:** Proof of static load capacity of the roof and the insulation needs to be provided by customer.
General terms / warranty conditions and usage agreement apply.

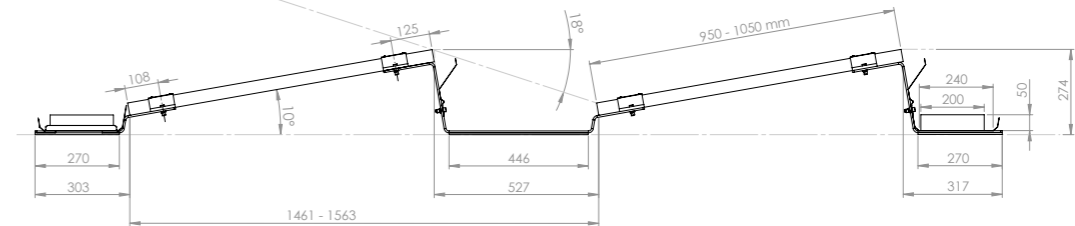
S 5 – 335 mm spacing



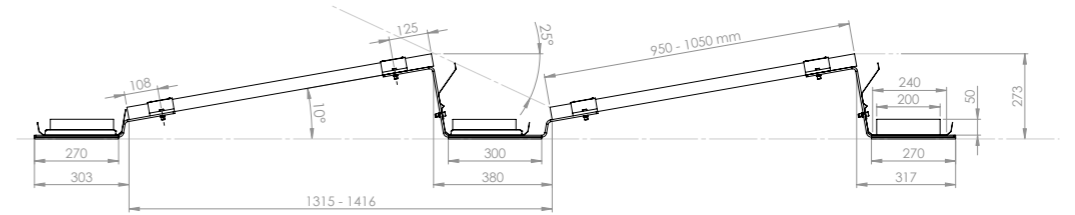
S 5 – 178 mm spacing



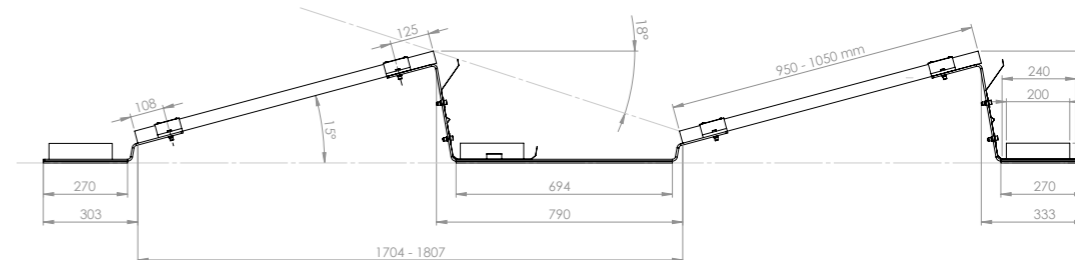
S 10 – 527 mm spacing



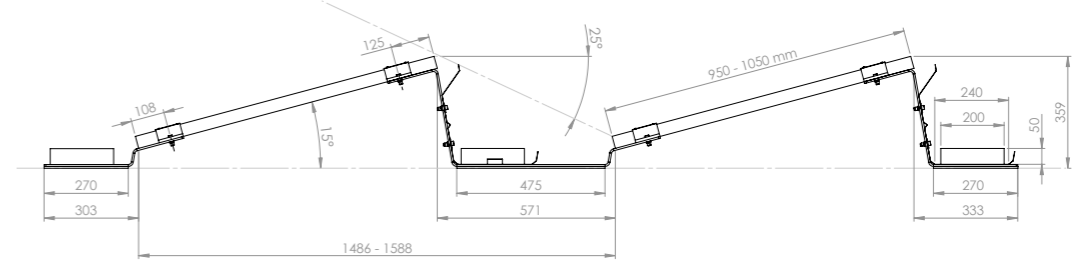
S 10 – 380 mm spacing



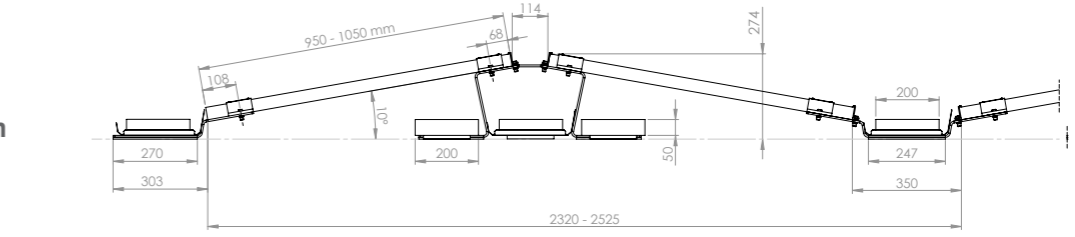
S 15 – 790 mm spacing



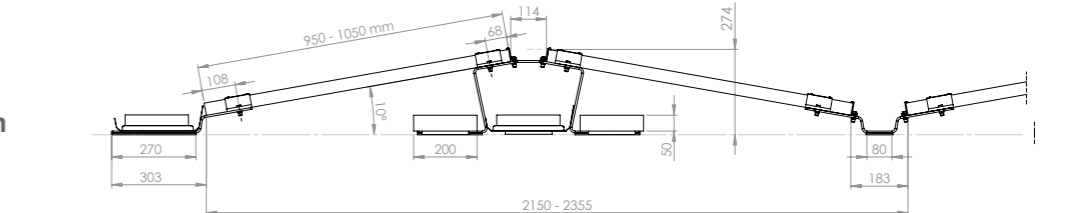
S 15 – 571 mm spacing



PLUS – 464 mm spacing



PLUS – 297 mm spacing

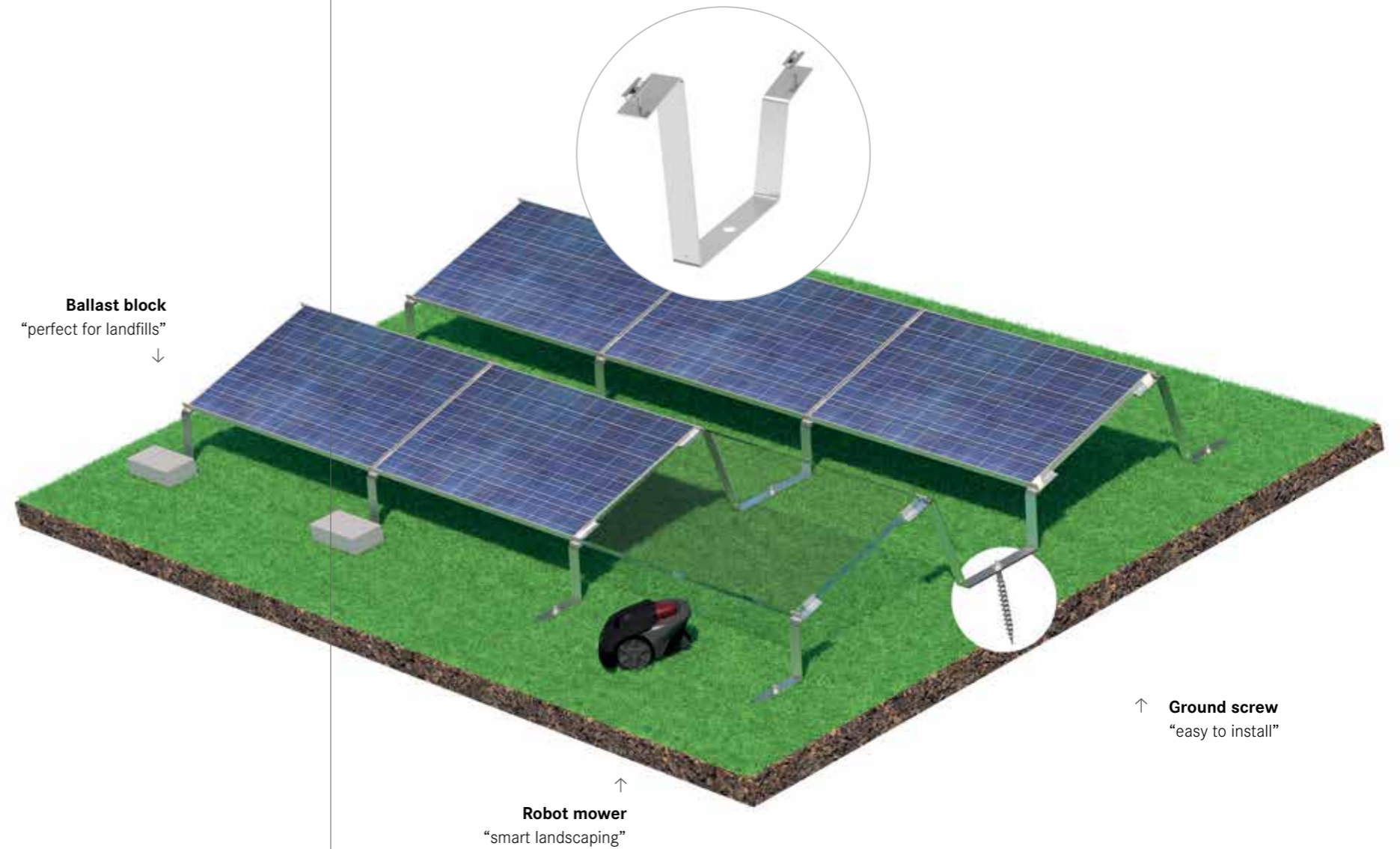


THE NEW WAY OF GROUND MOUNT



AEROCOMPACT G is our brand new south oriented ground mount system. Designed with a 15° or 20° module tilt.

With the fastest installation time in the industry and the ability to ship 1 MW per truckload, the AEROCOMPACT G provides both material and labor cost savings. The system can be installed with ground screws or ballast blocks.



↓ 27 kWp, near of Chicago, USA



no ramming and
no big machinery needed



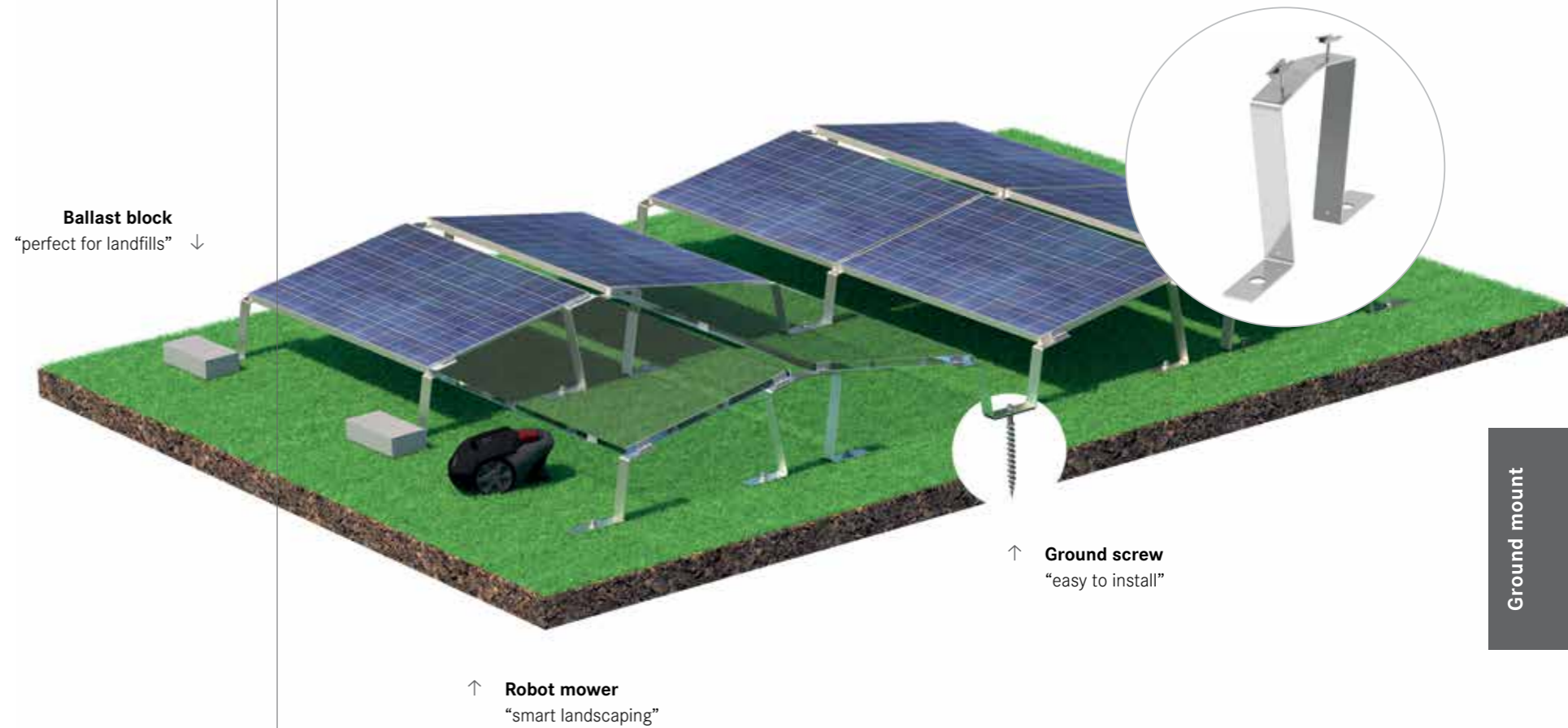
EAST/WEST GROUND MOUNT

AEROCOMPACT G+ is the new east/west oriented ground mount system with up to 30% more modules on the same ground space. Designed with a 10° module tilt and elevated 40 cm off the ground from the lowest module point. Like the south facing system the east/west can be installed with ground screws or ballast blocks.

↓ 300 kWp, east/west, Dubai, VAE



G+ east/west

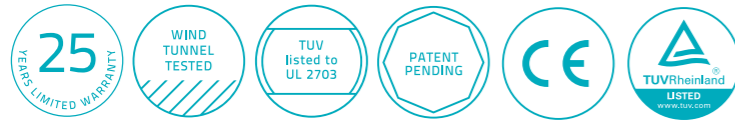


the optimum solution
to save space



YOUR BIG ADVANTAGE

- 25 year product warranty
- Wind tunnel tested
- TUV certified, conforms to UL 2703
- Patent pending
- Shipment of 700 kWp in one truckload
- Complimentary ballast calculation incl. roof layout
- Made in Europe
- Minimum order only 2 kWp
- Module clamps with grounding pins
- The fastest groundmount installation in the industry



Technical details

Module Tilt: AERCOMPACT G: 15°, 20°
AERCOMPACT G+: 10°

Inter-row Spacing: AERCOMPACT G 15 (18° sun-angle): 798 mm (31.4 inch) spacing
AERCOMPACT G 15 (25° sun-angle): 556 mm (21.9 inch) spacing
AERCOMPACT G 20 (18° sun-angle): 1054 mm (41.5 inch) spacing
AERCOMPACT G 20 (25° sun-angle): 734 mm (29 inch) spacing
AERCOMPACT+: 609 mm (24 inch) spacing

Space to the ground: AERCOMPACT G 15: 400 mm (15.8 inch) height
AERCOMPACT G 20: 318 mm (12.5 inch) height
AERCOMPACT+: 400 mm (15.8 inch) height

Grounded clamps, tested to UL 2703

Module dimensions: 950 – 1050 mm x 1552 – 2080 mm (width – length)

Max ground slope: 20 degree

Wind-/Snowload: 2.4 kN/m² (Design load as a load combination of dead load and wind suction)

Max. Array size: 12 x 20 rows, 240 modules

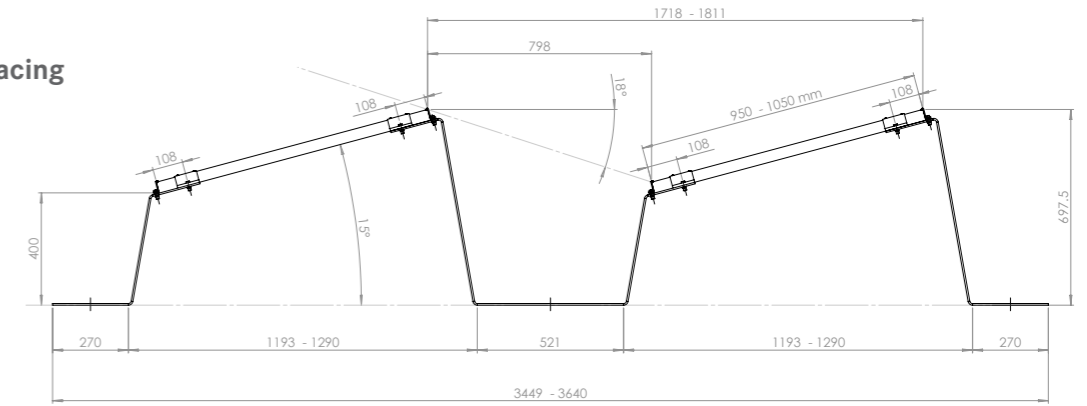
Min. Array Size: AERCOMPACT G: 2 rows with 3 modules / 3 rows with 2 modules
AERCOMPACT+: 2 rows with 2 modules

Material: Supporting materials made of aluminum EN AW 6060 T64, module-clamps aluminum EN AW 6063 T66, stainless steel screws.

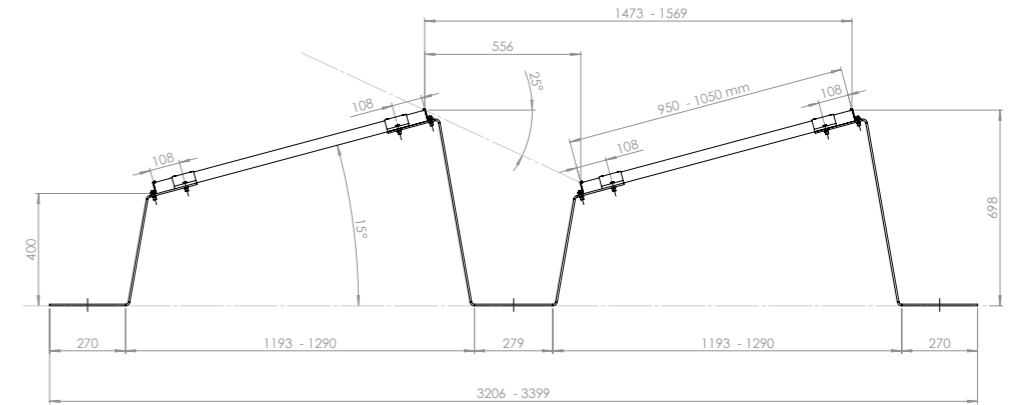
Shipping: Approx. 40 kW per pallet, 700 kWp per truckload

To prevent weed growth, we recommend a robot mower or a fleece layer.

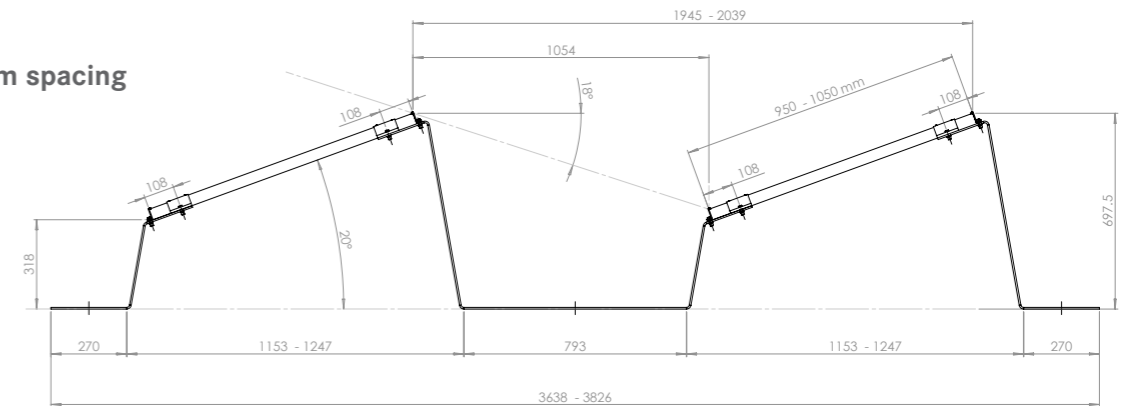
G 15 – 798 mm spacing



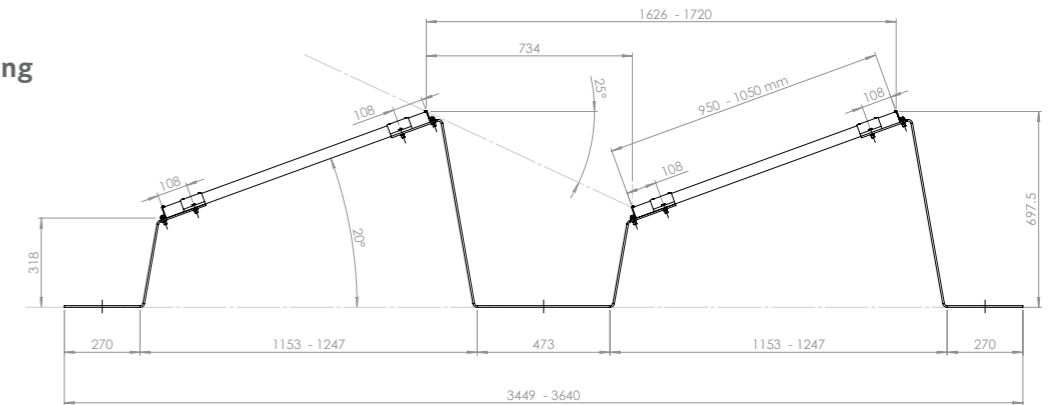
G 15 – 556 mm spacing



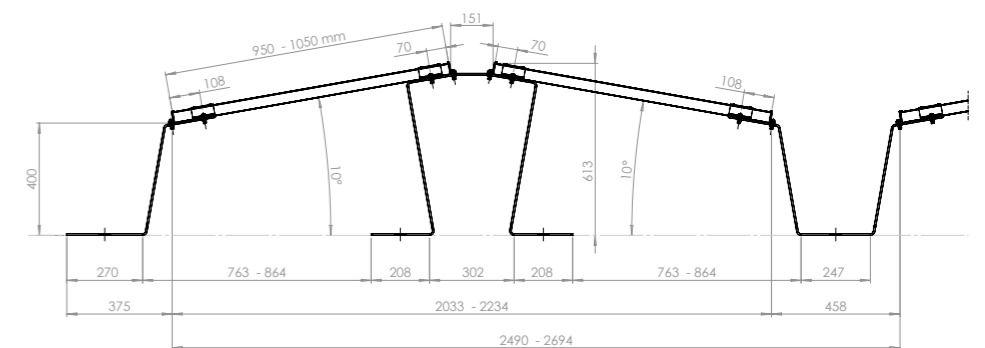
G 20 – 1054 mm spacing



G 20 – 734 mm spacing

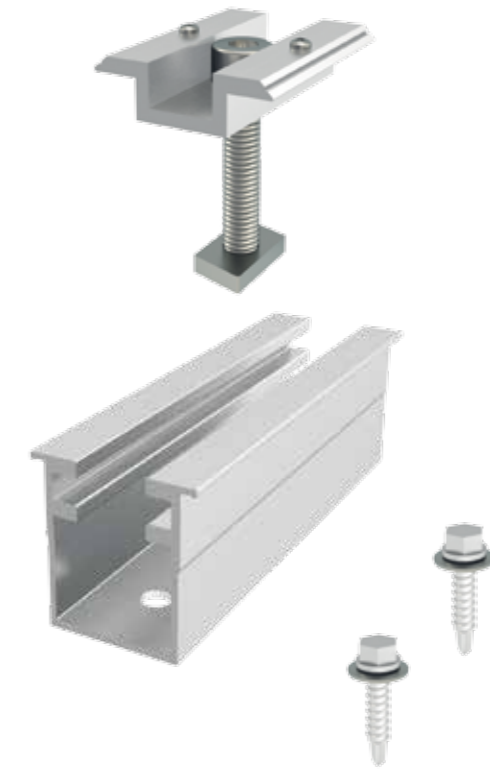
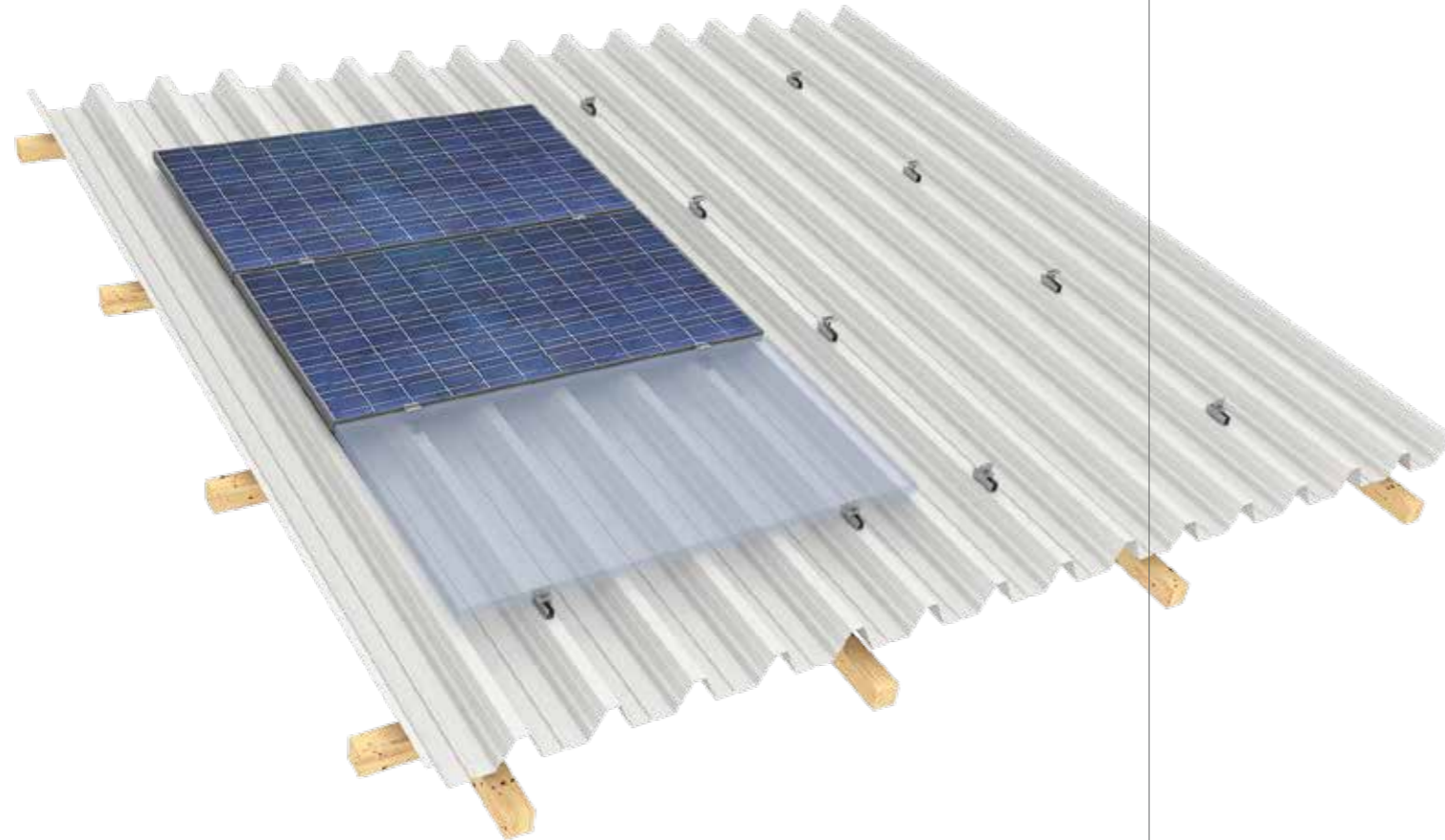


PLUS – 400 mm height



TRAPEZOIDAL short rail

⟨ TS ⟩



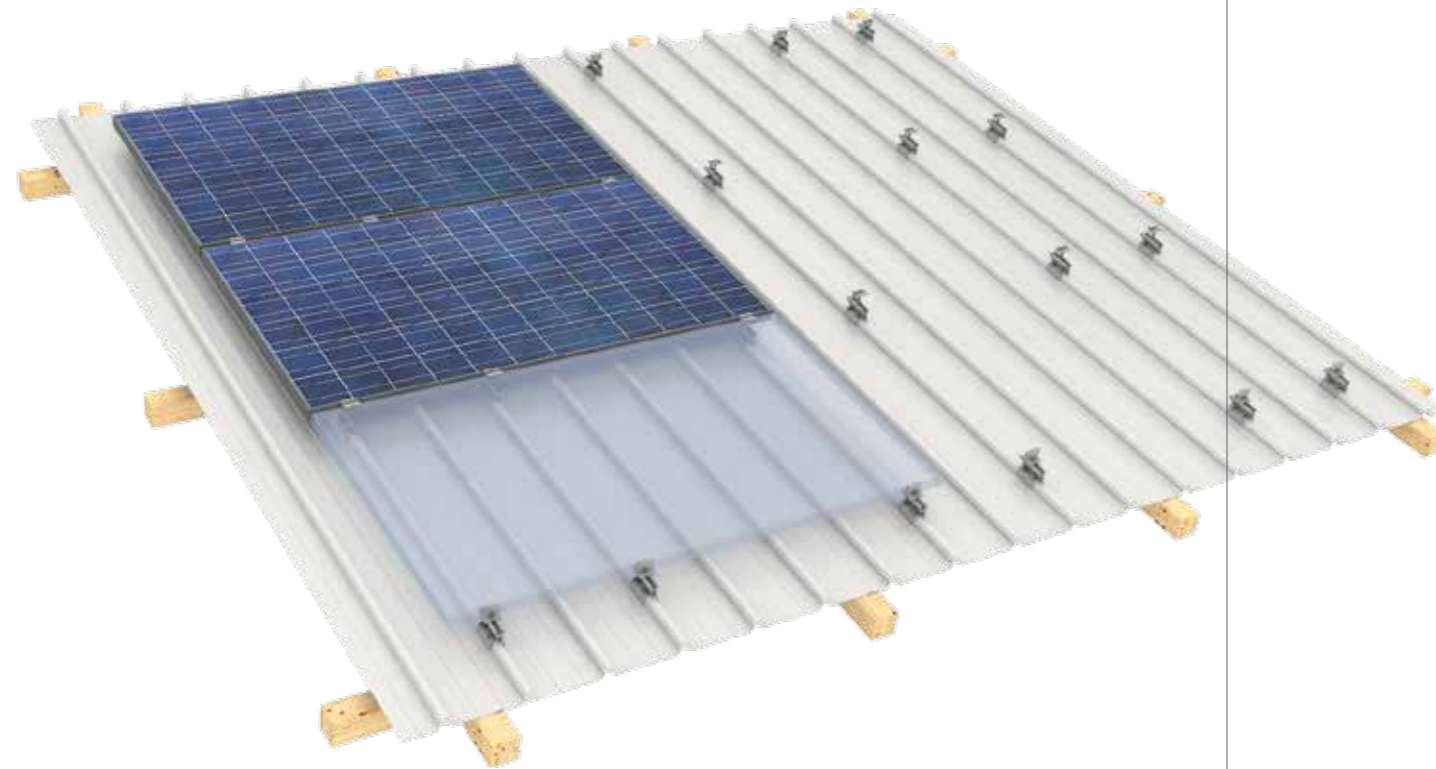
Technical details

- **Grounded clamps**
- **25 year limited product warranty**
- **Made in Europe**
- **Module orientation:** Landscape
- **Rail length:** 100 mm
- **Module type:** Framed modules, 30–50 mm
- **Wind-/Snowload:** According approval module manufacturer
- **Max. row size:** 12 meter
- **Pre-assembled with sealing tape**
- **Including two metal screws with sealing ring**
- **Material:** Supporting materials and clamps made of aluminum EN AW 6060 T64, stainless steel screws.

REAL VALUE

The **TS** is our trapezoidal short rail solution with the best price performance ratio. It is delivered with a pre-mounted sealing tape underneath, two screws with rubber sealing and the pre-assembled grounding clamp.

TRAPEZOIDAL short rail, KLIP-LOK



Technical details

- > **Grounded clamps**
- > **25 year limited product warranty**
- > **Made in Europe**
- > **Module orientation:** Landscape
- > **Rail length:** 100 mm
- > **Module type:** Framed modules, 30–50 mm
- > **Wind-/Snowload:** According approval module manufacturer
- > **Max. row size:** 6 meter
- > **Material:** Supporting materials and clamps made of aluminum EN AW 6060 T64, stainless steel screws.

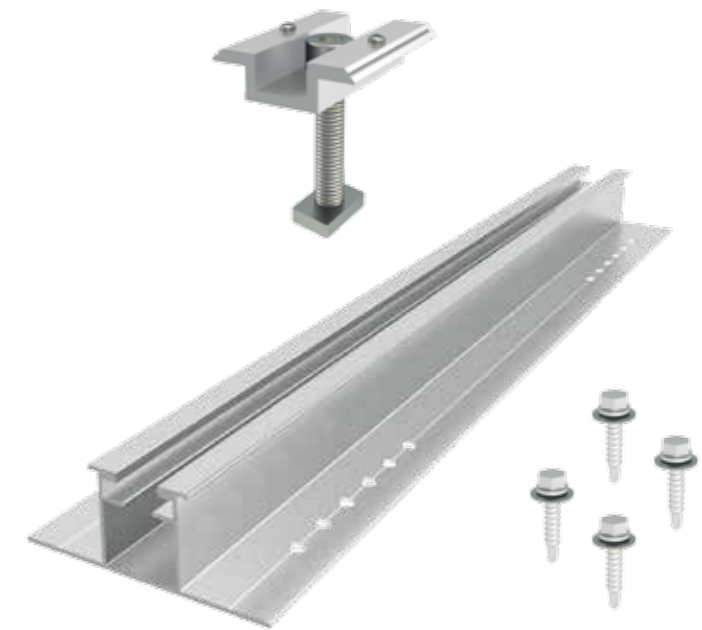
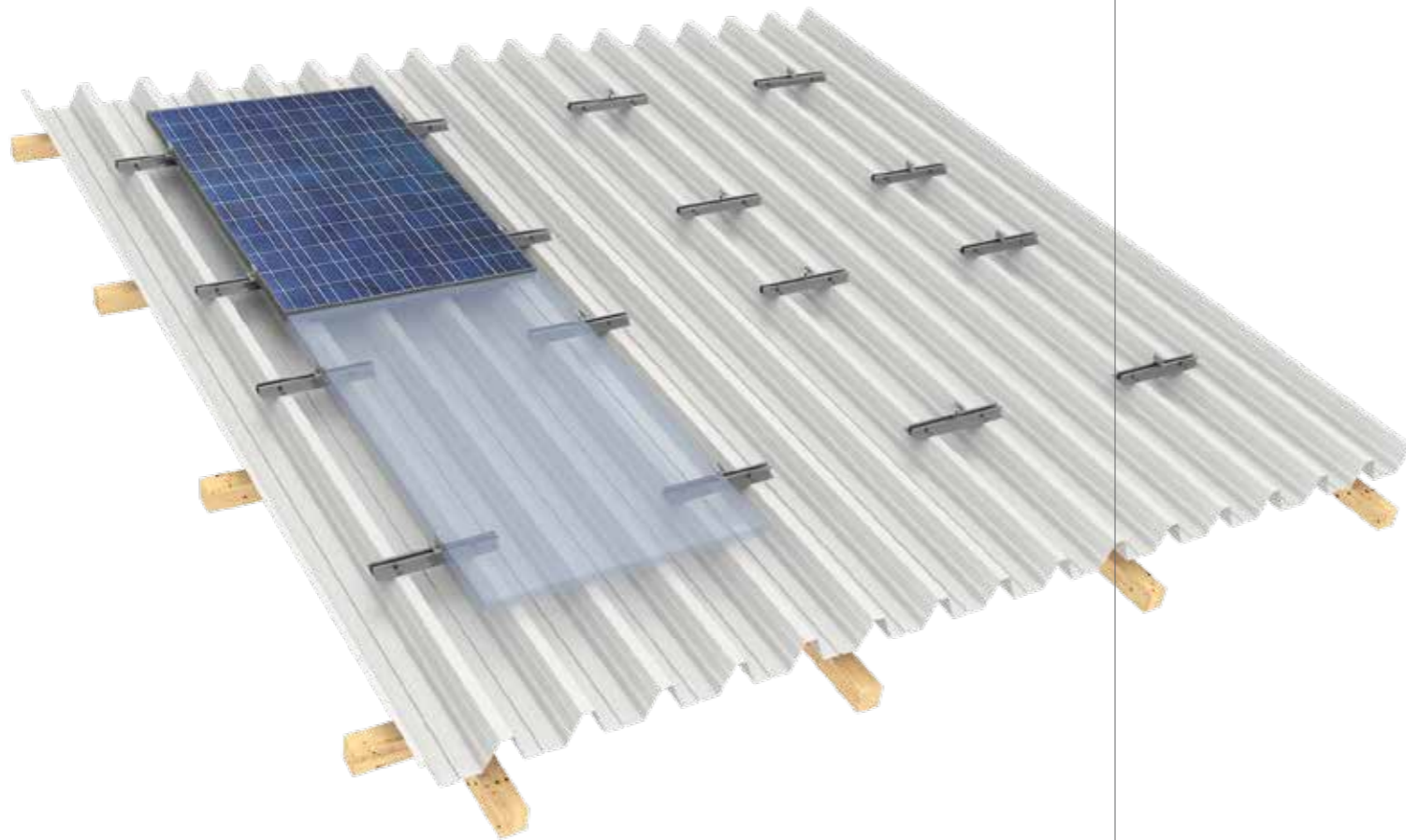
< TS KLIP-LOK >



FOR KLIP-LOK

The **TS for KLIP-LOK** is the trapezoidal short rail solution for KLIP-LOK roof types. Like the regular TS, the KLIP-LOK is also railless and has the best price performance ratio for this specific roof type.

TRAPEZOIDAL standard rail



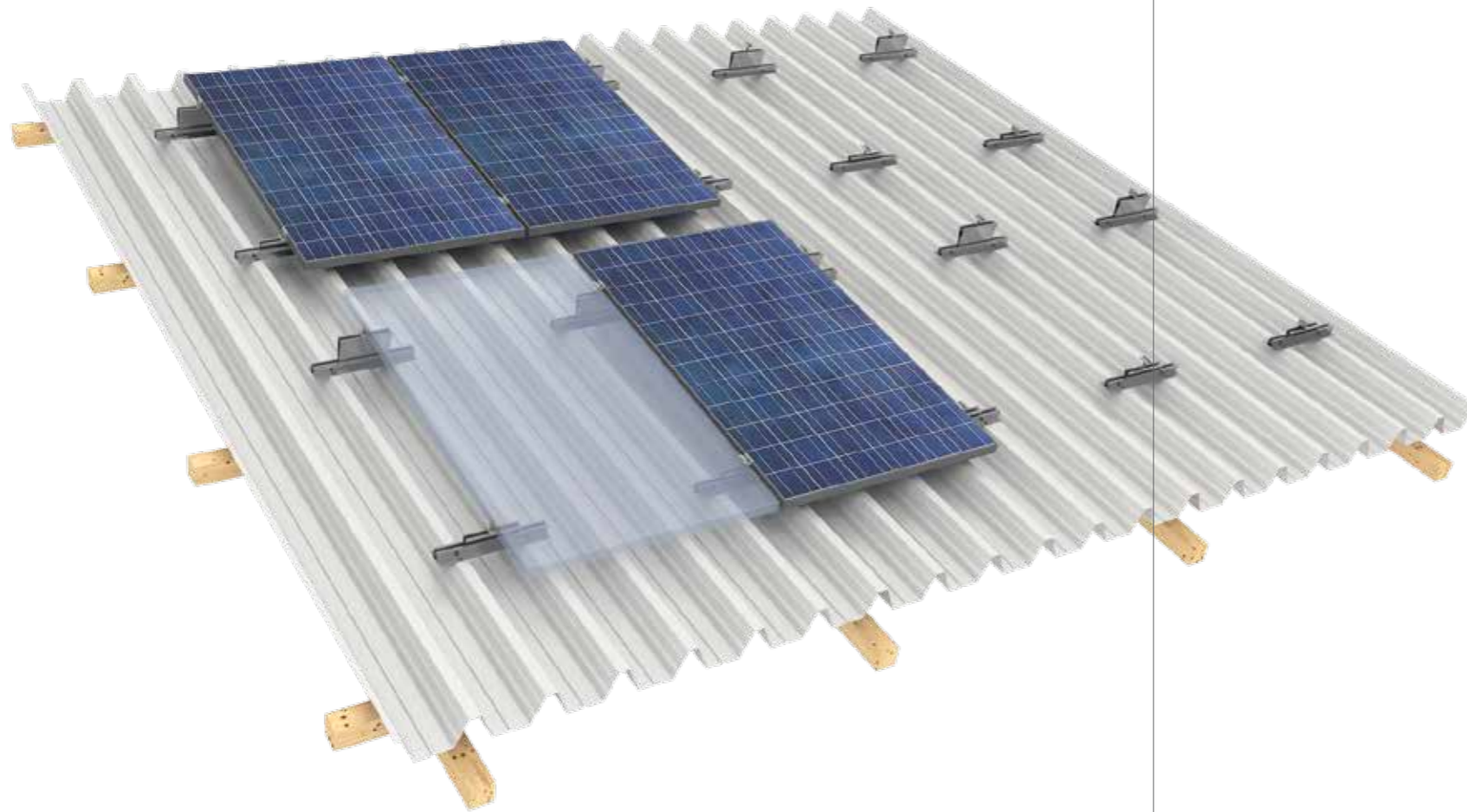
Technical details

- > **Grounded clamps**
- > **25 year limited product warranty**
- > **Made in Europe**
- > **Module orientation:** Landscape or Portrait
- > **Rail length:** 250 mm and 400 mm
- > **Module type:** Framed modules, 30–50 mm
- > **Wind-/Snowload:** According approval module manufacturer
- > **Max. row size:** 12 meter
- > **Pre-assembled with sealing tape**
- > **Including 4 metal screws with sealing ring**
- > **Material:** Supporting materials and clamps made of aluminum EN AW 6060 T64, stainless steel screws.

THE STANDARD

The **T** is the standard trapezoidal roof solution that we offer and is designed for landscape and portrait module configuration. It comes with a pre-mounted sealing tape underneath, 4 screws with rubber sealing and the pre-assembled grounding clamp. The rails are available in 250 mm and 400 mm length.

TRAPEZOIDAL elevated



Technical details

- > **Grounded clamps**
- > **25 year limited product warranty**
- > **Made in Europe**
- > **Module orientation:** Landscape or Portrait
- > **Rail length:** 400 mm
- > **Module type:** Framed modules, 30–50 mm
- > **Wind-/Snowload:** According approval module manufacturer
- > **Max. row size:** 12 meter
- > **Pre-assembled with sealing tape**
- > **Including 4 metal screws with sealing ring**
- > **Material:** Supporting materials and clamps made of aluminum EN AW 6060 T64, stainless steel screws.

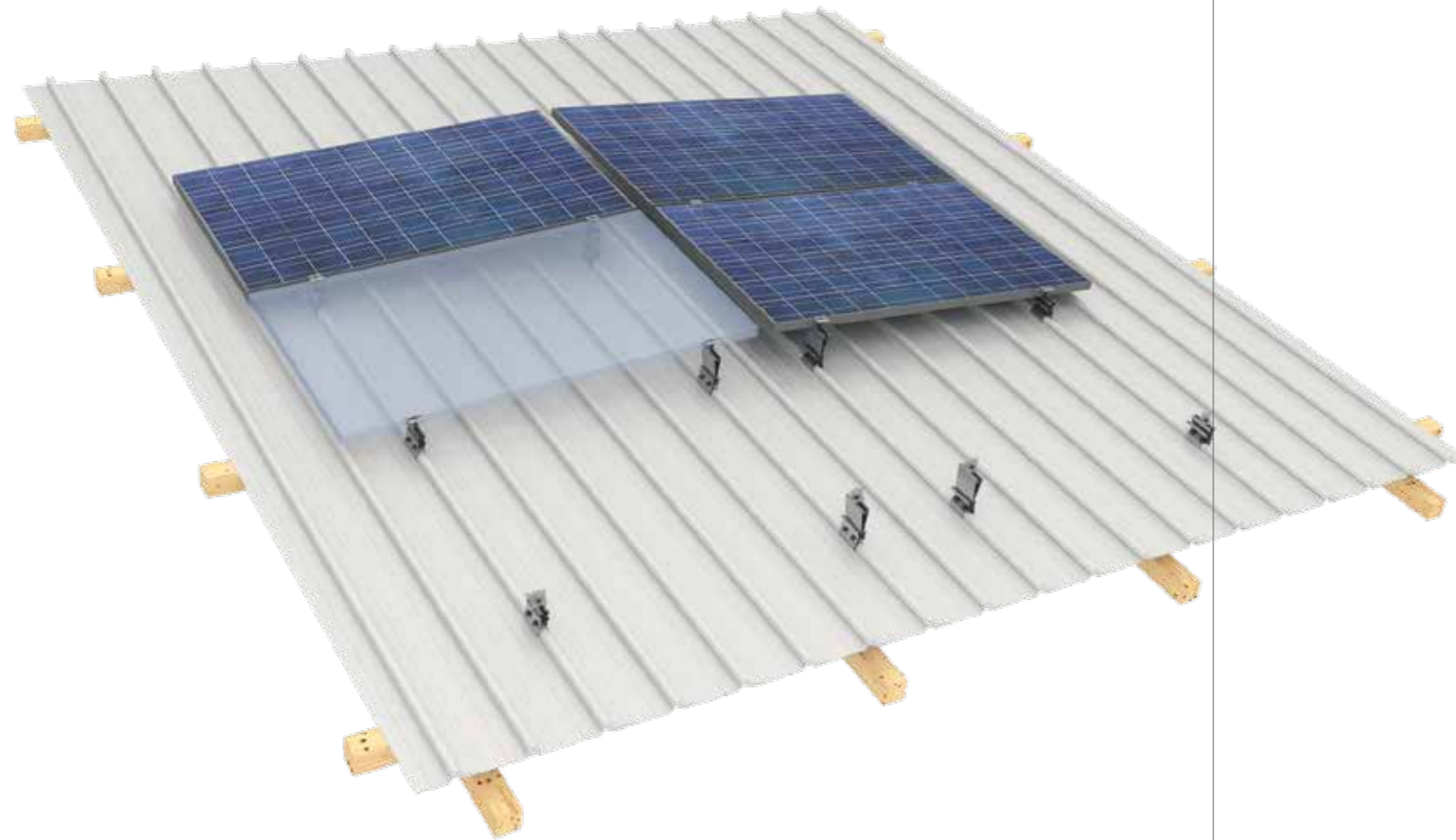
5° – 7° ELEVATED

The **T+** stands for the raised trapezoidal solution in our portfolio. Depending on how you install the modules, the system has a tilt of 5° or 7°.

- Portrait mounted 5°**
- Landscape mounted 7°**

It is going to be delivered with a pre-mounted sealing tape underneath, 4 screws with rubber sealing and the pre-assembled grounding clamp.

TRAPEZOIDAL elevated, KLIP-LOK



Technical details

- > **Grounded clamps**
- > **25 year limited product warranty**
- > **Made in Europe**
- > **Module orientation:** Landscape
- > **Rail length:** 100 mm
- > **Additional module Tilt:** 5°
- > **Module type:** Framed modules, 30–50 mm
- > **Wind-/Snowload:** According approval module manufacturer
- > **Max. row size:** 6 meter
- > **Material:** Supporting materials and clamps made of aluminum EN AW 6060 T64, stainless steel screws.

< T+ KLIP-LOK >



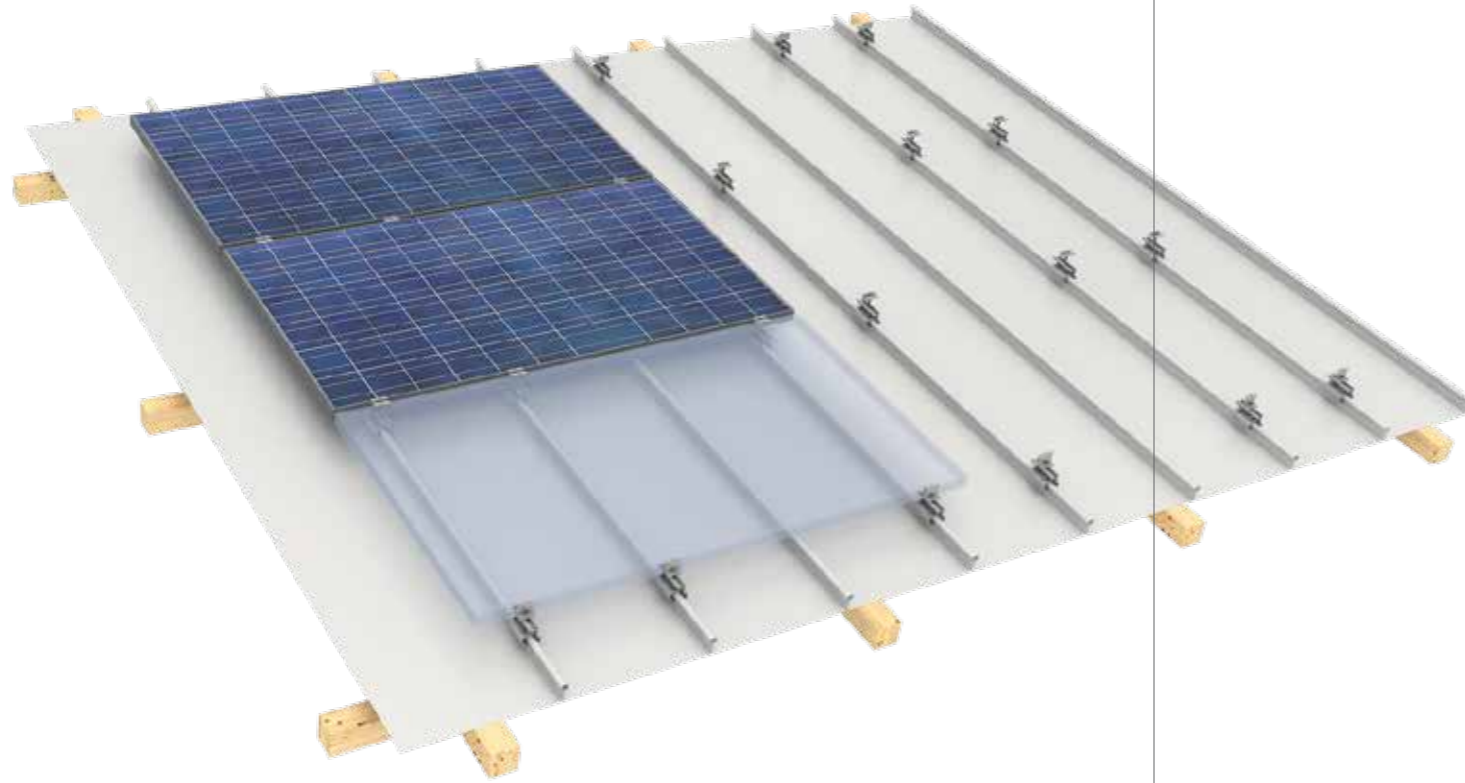
KLIP-LOK ELEVATED

The **NEW T+ KLIP-LOK** is an addition to the regular T+ system, specially designed for the use on KLIP-LOK metal roofs.

With the additional tilt of 5° you achieve a perfect self cleaning effect for the modules on low slope KLIP-LOK roofs.

STANDING SEAM clamp

⟨ T1 ⟩



Technical details

- **Grounded clamps**
- **25 year limited product warranty**
- **Made in Europe**
- **Module orientation:** Landscape or Portrait
- **Module type:** Framed modules, 30–50 mm
- **Wind-/Snowload:** According approval module manufacturer
- **Max. row size:** 6 meter
- **Clamping range:** 0.6–16 mm
- **Opening dimension:** 25 mm
- **Material:** Supporting materials and clamps made of aluminum EN AW 6060 T64, stainless steel screws.

THE ONE PARTNER

The **T1** is our solution for all common standing seam roofs. With just two components the clamp is very easy to install and it comes with the pre-assembled module clamp with grounding pins.

The T1 is the one partner for your standing seam roofs.



AEROCOMPACT® 2.1 Page 6 of 16

ROOF [ROOF_1]

Building height h [ft]: 30
 Slope of roof [°]: 0
 Roofing: TPO membrane
 Product Type: AEROCOMPACT 2.0 S5 7-16
 Alignment [°]:

AEROCOMPACT® 2.1 Page 6 of 375

AREA 8	AREA 9
Amount of Modules for tilt	12
Amount of Modules for slide	45
Area: Southfacing Inter-Rows Inner-Modules	19
Wind load q _z [PSF]	0.211
W _z [kN]	20.882
Weight module + frame [PSF]	2.82
Security of its own weight γ_2	0.9
Safety against wind lifting γ_{sust}	1
Parapet correction value $\gamma_{parapet}$	1
Roof pitch correction value γ_{pitch}	0.96

AEROCOMPACT® 2.1 Page 12 of 16

STATIC INFORMATION: BALLASTING [ROOF_1]

AEROCOMPACT® 2.1 Page 3 of 16

ASSEMBLY AEROCOMPACT 2.0 S5 7-10

25 Degree Inter-Row Spacing

Project Name: Bolton High School
 Street Address: 72 Brandy Street
 Postal code: 06043
 City: Bolton
 Country: USA

Aerocompact's new system update 2.1 includes our one-of-a-kind online software, **AeroTool LT**, now available to our customers AT NO CHARGE. With the use of Google Maps, plan your photovoltaic projects quickly, easily and most importantly free of charge.

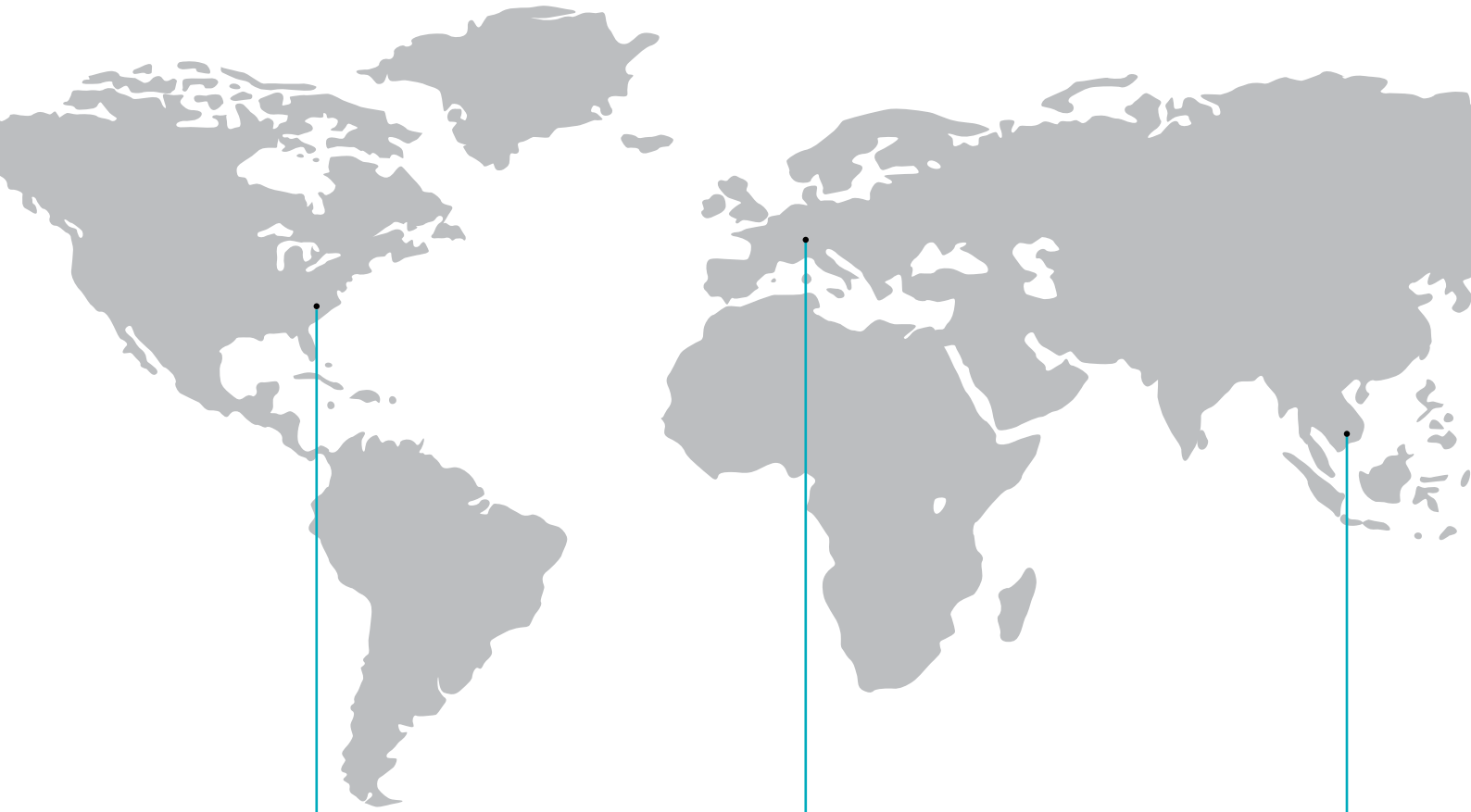
The result is a detailed ballast plan that has taken into consideration the world-wide, site-specific static codes, wind and snow data, as well as shadows during the course of the day in order to determine the ballasting needs of the system.



↑ 3D-simulation



get more information!
www.aerocompact.com



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