



PROFINESS3006

Low-ballast mounting system without roof penetration for flat roofs

 **PROFINESS**
VERBINDUNGS- & MONTAGESYSTEME

Product presentation
Mounting notes

PROFINESS3006 Mounting system for flat roofs

- PROFINESS3006 ist a mounting system for photovoltaic plants on flat roofs
- Our innovative system uses racking and aerodynamic effects to ensure stability.
- Since 2011 > 200 photovoltaic plants were built with a total output of more than 7,5 MW
- Through different mounting angles (South 10°/15°, East/West 10°) and individual occupancy possibilities, you can achieve the best possible yields with your PV system.
- The mounting system is preassembled to a very high degree to minimize the on-site assembly work.



PROFINESS3006 Mounting system for flat roofs

- Mounting angles: 10° / 15° / (South) und 10° (East-West)
- Orientation: South (or one-way in one other direction) and East-West
- Surface load including module: ~ 8kg per square meter of roof area (south system, plus ballast)
- Building protection: incl. Plasticizer barrier (film release on request)
- Minimum system size: none
- ISO-certified manufacturing company (ISO 9001 / ISO 14001)
- Aerodynamically certified by the I.F.I. Institute for Industrial Aerodynamics at Aachen University of Applied Sciences



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Mounting system for flat roofs version **east-west**

- Module mounting angle 10 ° with integrated base plates on Regupol building protection
- Row connector with long hole for length compensation
- Ballast holder integrated into the base rail for optimum power transmission
- Comparatively small ballast necessary (sometimes completely without ballast)
- Each project is calculated by the static engineer

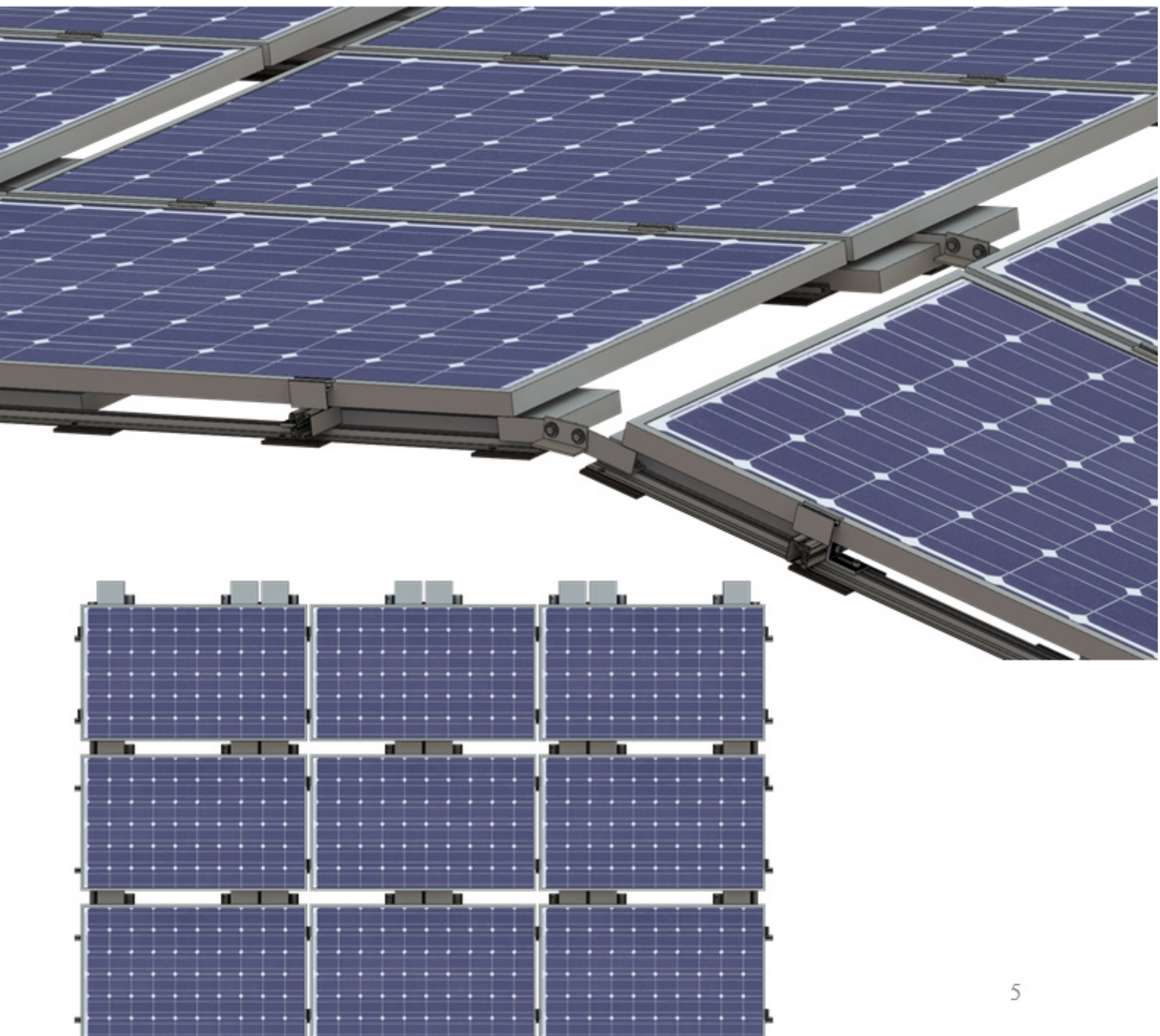
Cross section: 2.33 meters for 2 modules, 4.60 meters for 4 modules in east-west direction (modules <1000mm frame) or 2.43 / 4.80 meters (module 1001-1050mm frame)



NEW

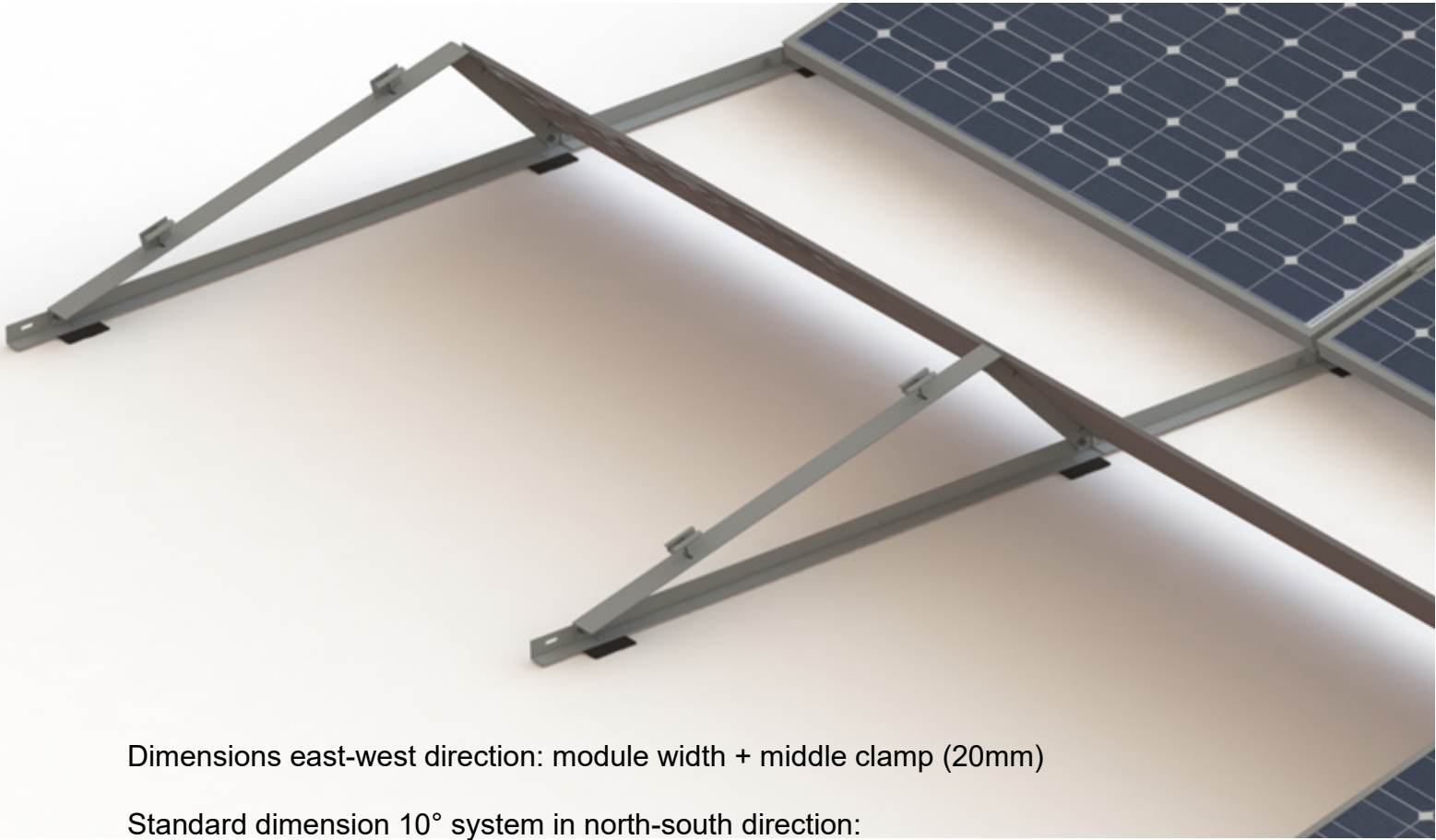
Mounting system for flat roofs Version Roof-parallel loading system

- Constructed from Profiness standard pitched roof components (trapezoidal rail, cross rail), therefore always fast availability
- Cross composite on flat profile rail with aerodynamic row spacing
- Over-ridge connector for securing against slipping off
- Ballast holder with screw connection in crossbar for optimum power transmission
- Low ballast necessary
- Each project is calculated exactly by the structural engineer on request.



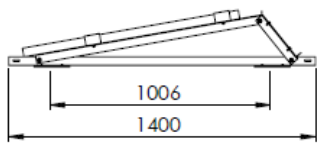
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Mounting system for flat roofs – **south version**

Mounting overview

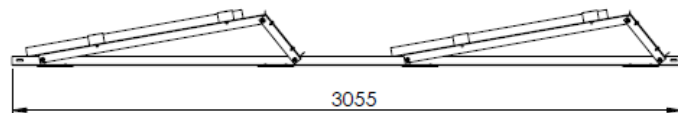


Dimensions east-west direction: module width + middle clamp (20mm)

Standard dimension 10° system in north-south direction:



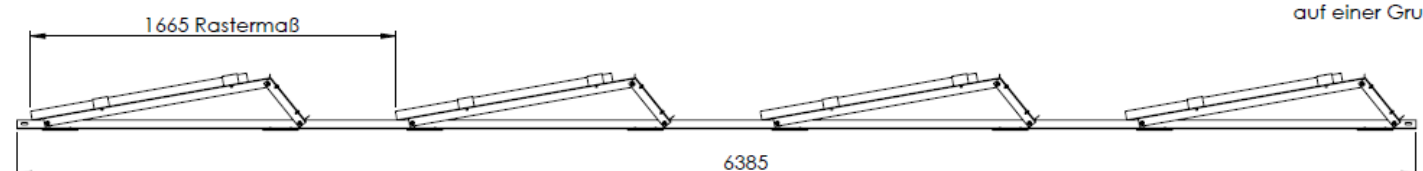
Variante 01:
ein Dreiecksständer
auf einer Grundschiene



Variante 02:
zwei Dreiecksständer
auf einer Grundschiene



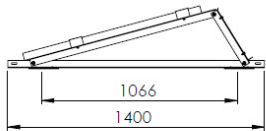
Variante 03:
drei Dreiecksständer
auf einer Grundschiene



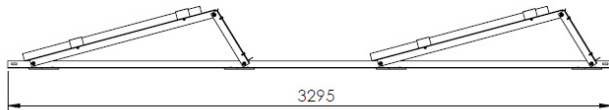
Variante 04:
vier Dreiecksständer
auf einer Grundschiene

Profiness GmbH Broicher Waldweg 42 45478 Mülheim

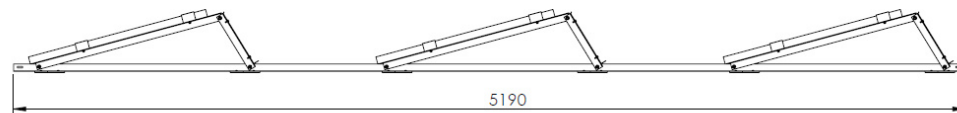
Standard dimension 15° system in north-south direction:



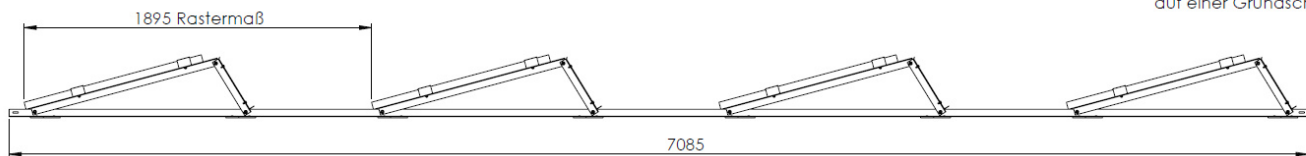
Variante 01:
ein Dreiecksständer
auf einer Grundschiene



Variante 02:
zwei Dreiecksständer
auf einer Grundschiene

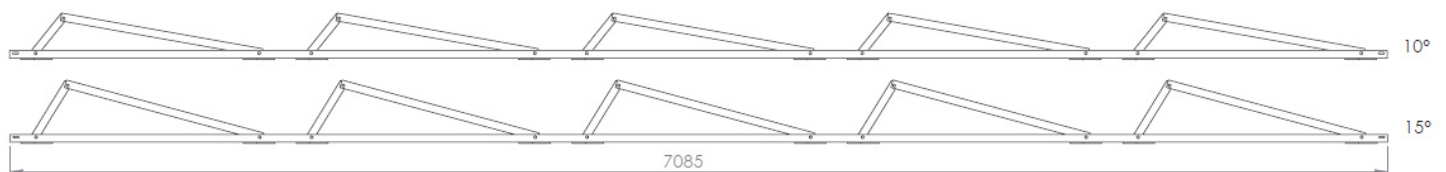


Variante 03:
drei Dreiecksständer
auf einer Grundschiene

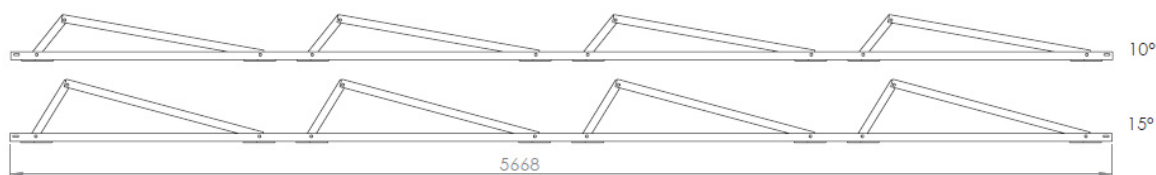


Variante 04:
vier Dreiecksständer
auf einer Grundschiene

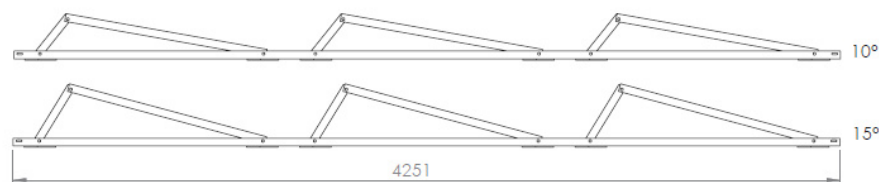
Short version:



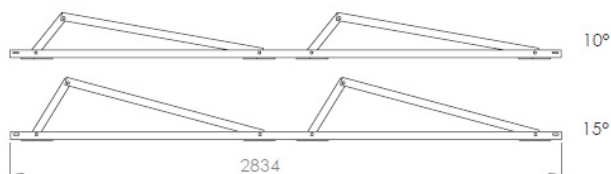
Variante 05:
fünf Dreiecksständer
auf einer Grundschiene



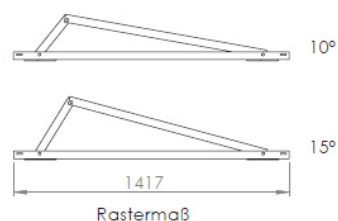
Variante 04:
vier Dreiecksständer
auf einer Grundschiene



Variante 03:
drei Dreiecksständer
auf einer Grundschiene



Variante 02:
zwei Dreiecksständer
auf einer Grundschiene



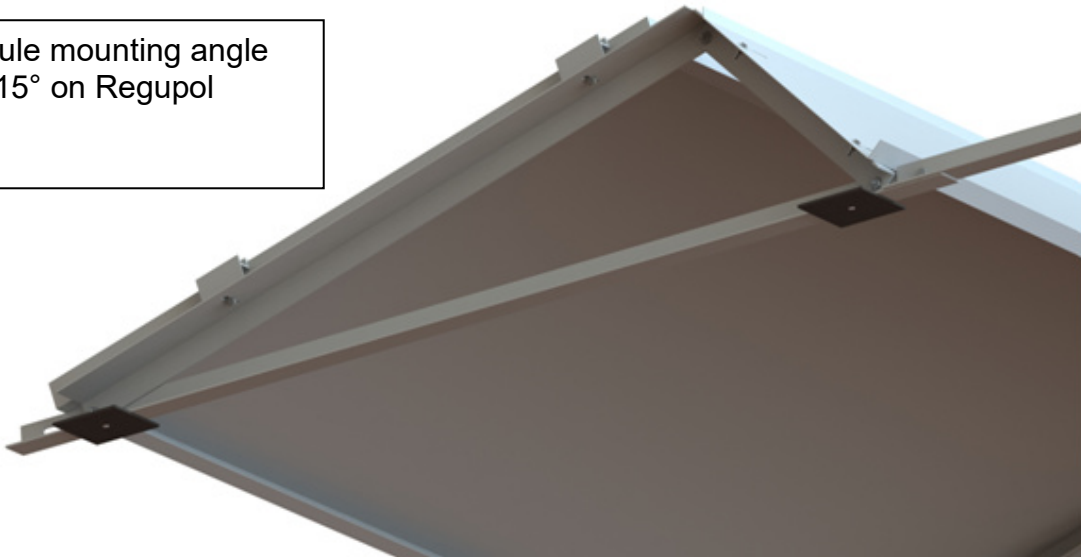
Variante 01:
ein Dreiecksständer
auf einer Grundschiene

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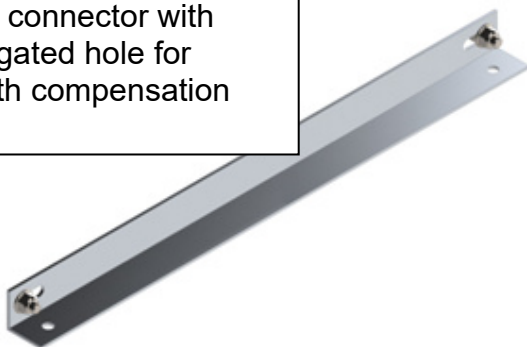
Mounting system for flat roofs **south version**

- Module mounting bracket 10°/15° depending on version with integrated foot plates, generally on Regupol
- Row connector with elongated hole for length compensation
- Ballast holder on Regupol, alternatively ballasting via wind deflector plate
- Wind deflector plate with elongated holes for expansion compensation

Module mounting angle
10°/15° on Regupol

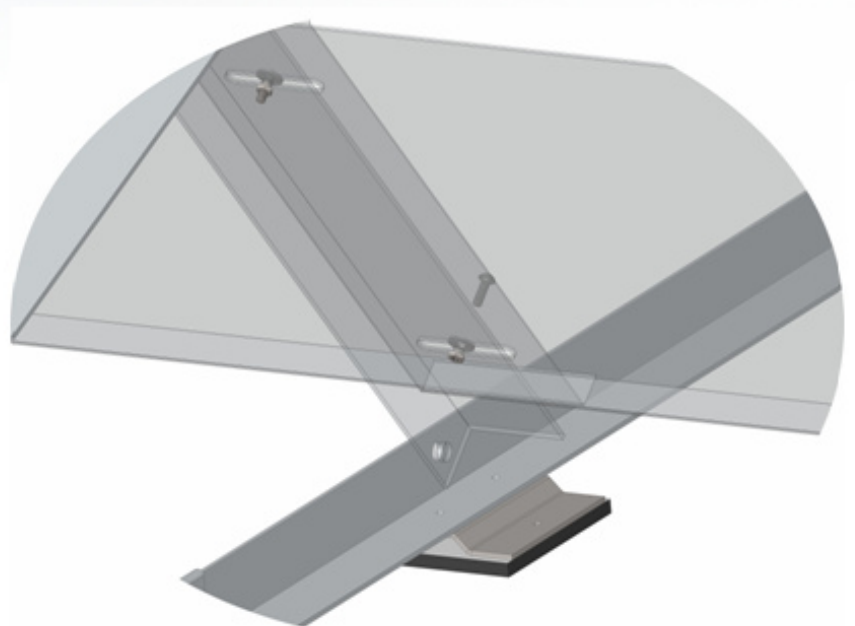
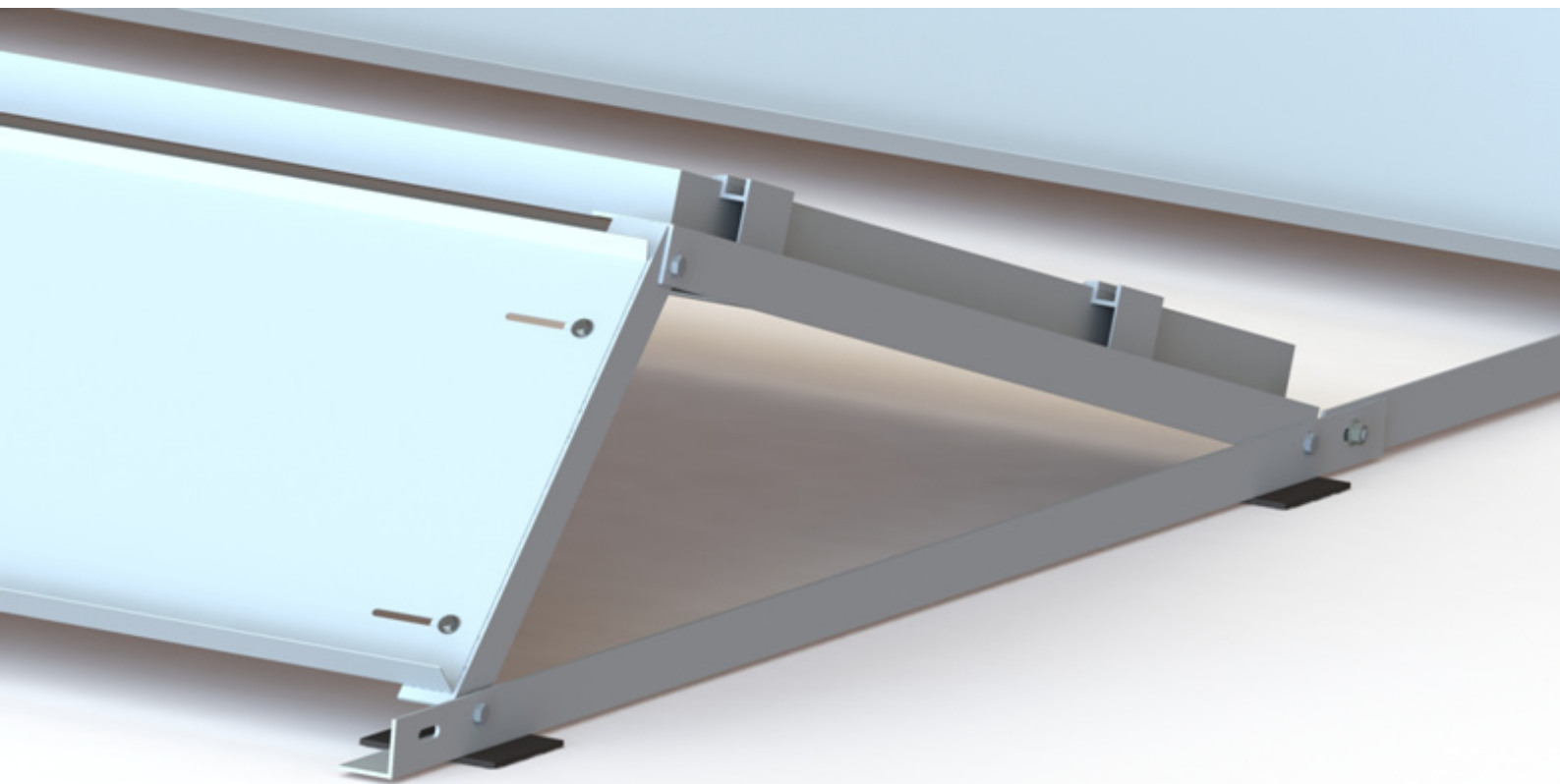


Row connector with
elongated hole for
length compensation



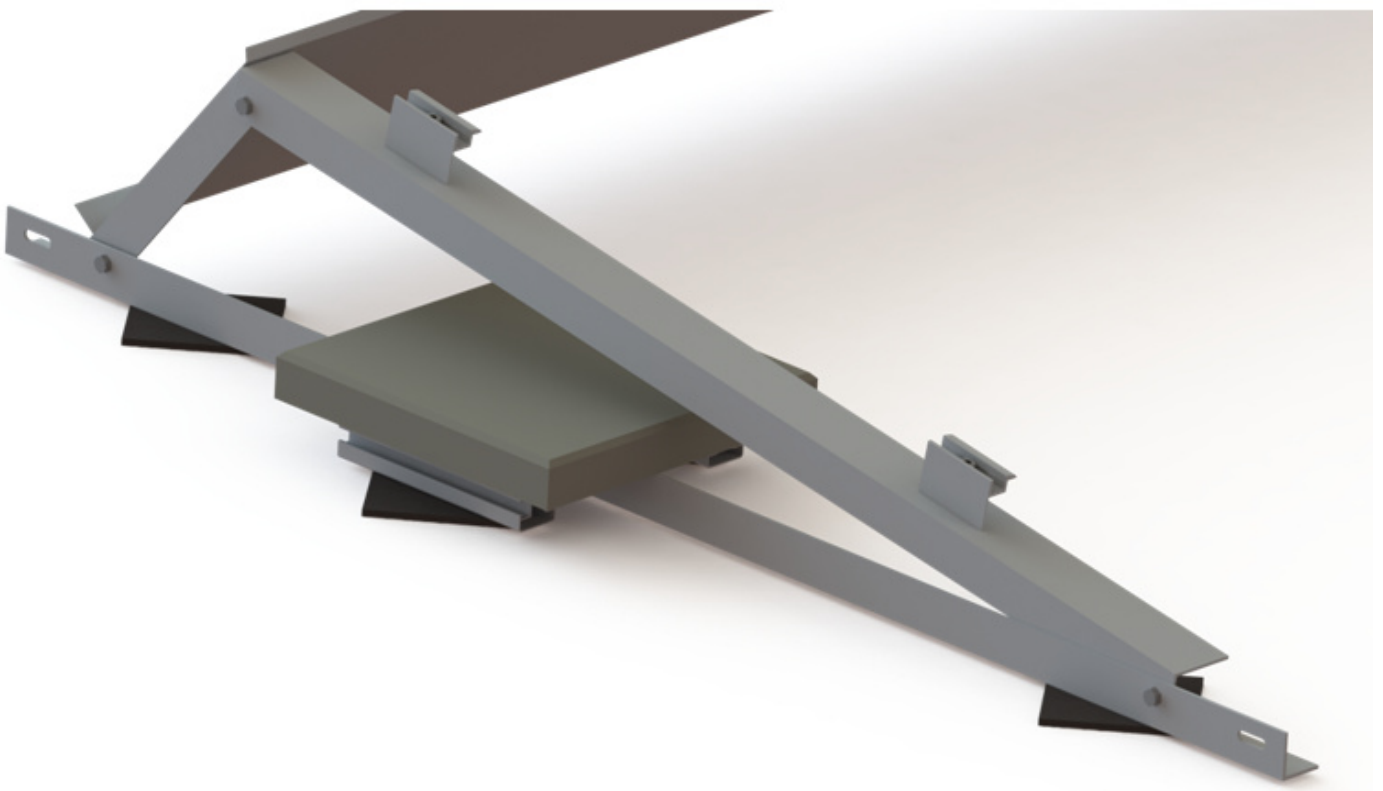
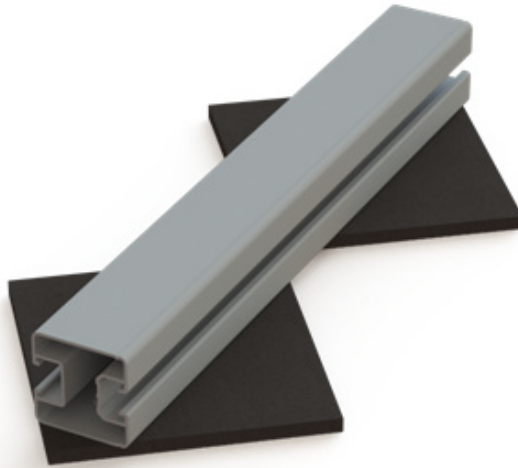
Windabweisblech mit
Langlöchern zum
Dehnungsausgleich
ggf. auch gekantet zur
Ballast-Aufnahme

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Mounting system for flat roofs **south version**



Mount the wind deflector plates overlapping on the press-in threaded nuts of the support profiles. Do not tighten the screws yet.

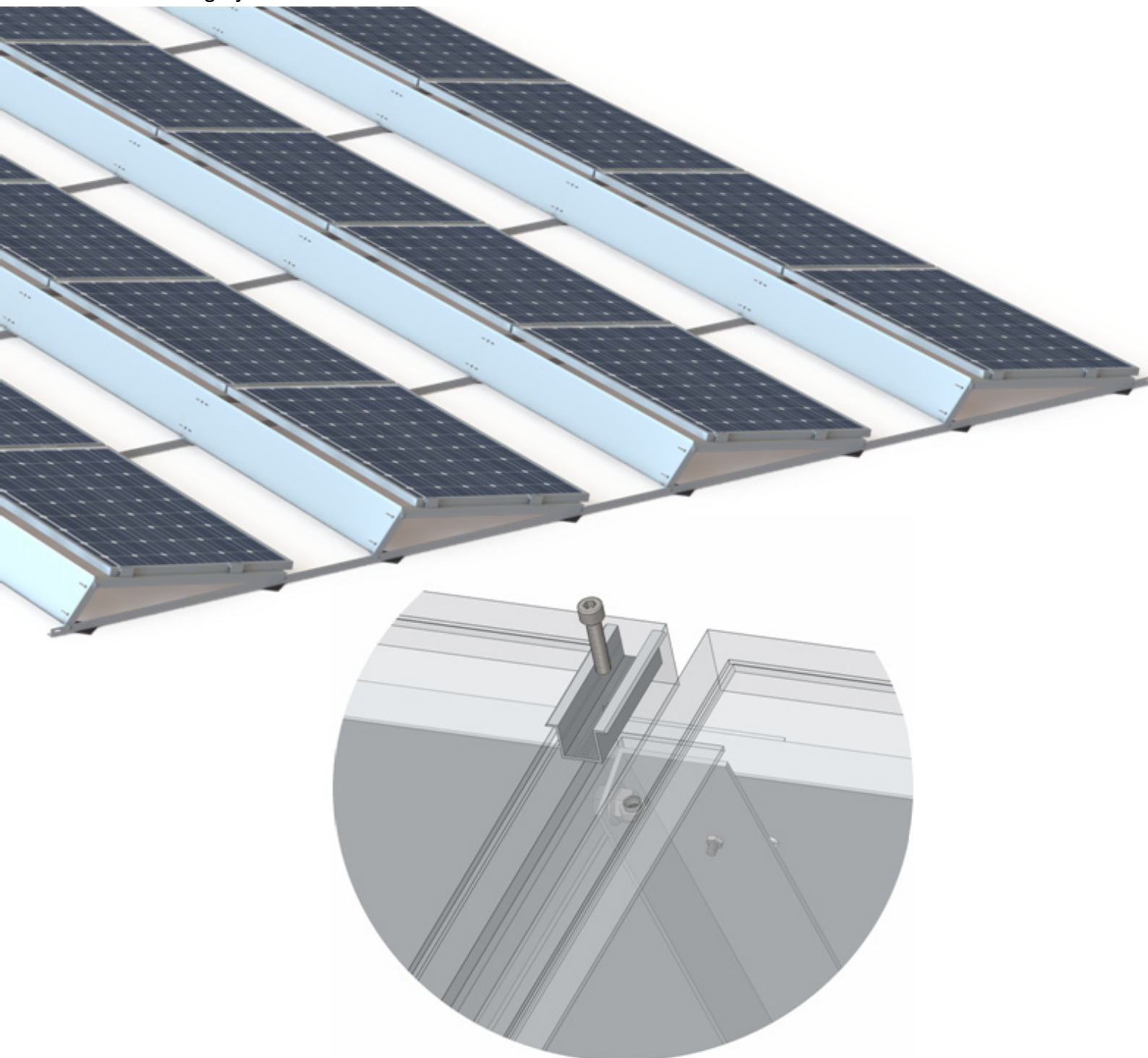
PROFINESS3006 Mounting system for flat roofs



Position the ballast holders on the base rails (L-profiles) according to the ballast plan, if additional ballast is required that does not fit into the wind deflectors. We manufacture ballast holders in the desired length (depending on the size of the weight plates used) and with one or two Regupol pads.

It is recommended to use two ballast holders per ballast point so that the ballast lies as centrally as possible above the base rail.

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Place the modules in position and screw them into the press-in threaded nuts using the middle or end clamps. Then tighten the wind deflectors.

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