

## Specifications mounting system for flat roofs

## **General system description**

System type: Ballasted flat roof photovoltaic mounting system

Module orientation: East/West, North/South, South

Nominal module inclination: at least 10°

Module mounting: landscape

Materials: Aluminium, V2A, PE

Manufacturer's warranty: 12 years

**Roof suitability** 

Inclination: max. 5°

Substrate: All pressure-resistant undergrounds

**Properties** 

Row spacing: 2230-2483 mm

Min. distance to the edge

of the roof: max. 500 mm

Attachment to the roof: Penetration-free installation, permanent drainage of the roof

must be ensured

Permissible module widths: 995 mm - 1145 mm (I x w)

Clamping of the modules: Clamping of the modules on the short side of the module to

reduce the assembly time by reducing the number of clamps

per module (max. 3 clamps per module).

The terminals must be mountable by screwing them into the mounting profile by hand. After screwing in, the clamps must remain in place. It must be possible for 1 person to insert the

modules into the clamp.

Electrical properties: An approved way to integrate the mounting system into the

lightning protection/equipotential bonding system.

Dokument: specifications flat roof III Stand: 08/2023



Assembly of the system: Machining (drilling, sawing) on the construction site must be

ruled out.

All screws must be fastened with a socket of the same size.

Components must be prefabricated as far as possible.

Assembly, especially of small parts on the construction site, is not permitted. The maximum number of standard components

must not exceed 10 pieces.

Assembly positions of components must be clearly marked at

the factory to avoid incorrect assembly.

Component dimensions: Logistically optimized dimensions of the components with the

maximum dimensions of 2,000 mm in length

Ballasting: A ballasting plan adapted to the location by software

recommended by the manufacturer must also be supplied. The ballast planning must take into account the following criteria: wind and snow load according to EUROCODE and SIA

standards

Load transfer via continuous or connected base rails for ballast

reduction

Approvals/standards: A design of the mounting system with corresponding wind

tunnel tests is mandatory

CE marking

Documentation: Static proof for the stability of the entire system, ballasting plan,

occupancy plan, 3D overall occupancy overview, surface load of actually occupied area, max. point load incl. snow load, testing of the support pressure, assembly documentation

adapted to the module size.