

Specification 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 13°
Module mounting:	landscape
Materials:	Aluminium, V2A, PE
Manufacturer's warranty:	12 years

Roof suitability

Inclination:	max. 5°
Substrate:	All pressure-resistant undergrounds

Properties

Max. module field length:	min. 17 m, with floating bearing min. 34 m
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 width:	920 mm - 1200 mm
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 clampings per module (max. 3 clamps per module).
Electrical properties:	An approved way to integrate the mounting system into the lightning protection/equipotential bonding system.

Installation of the system:	<p>Machining (drilling, sawing) on the construction site must be minimized.</p> <p>All screws must be fastened with a socket of the same size.</p> <p>Components must be prefabricated as far as possible.</p> <p>Assembly, especially of small parts on the construction site, is not permitted. The maximum number of standard components must not exceed 10 pieces.</p>
Ballasting:	<p>A ballasting plan adapted to the location in accordance with EUROCODE and SIA standards using software recommended by the manufacturer must also be supplied.</p> <p>Load transfer via continuous or connected base rails for ballast reduction</p>
Approvals/standards:	<p>A design of the mounting system with corresponding wind tunnel tests is necessary.</p> <p>CE marking</p>
Documentation:	<p>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.</p>