



# COMPACTFLAT Z4+

## **AERODYNAMIC. STABLE. INTELLIGENT.**

Compact and tested substructure for the two-sided stand-mounting of PV modules on flat roofs

The COMPACTFLAT Z4+ is an aerodynamic east-west substructure for the fixing and aligning of framed PV modules on flat roofs. It is available in inclines of 5° and 10°. Four PV modules can be installed crosswise back to back.

**AEROCOMPACT®**



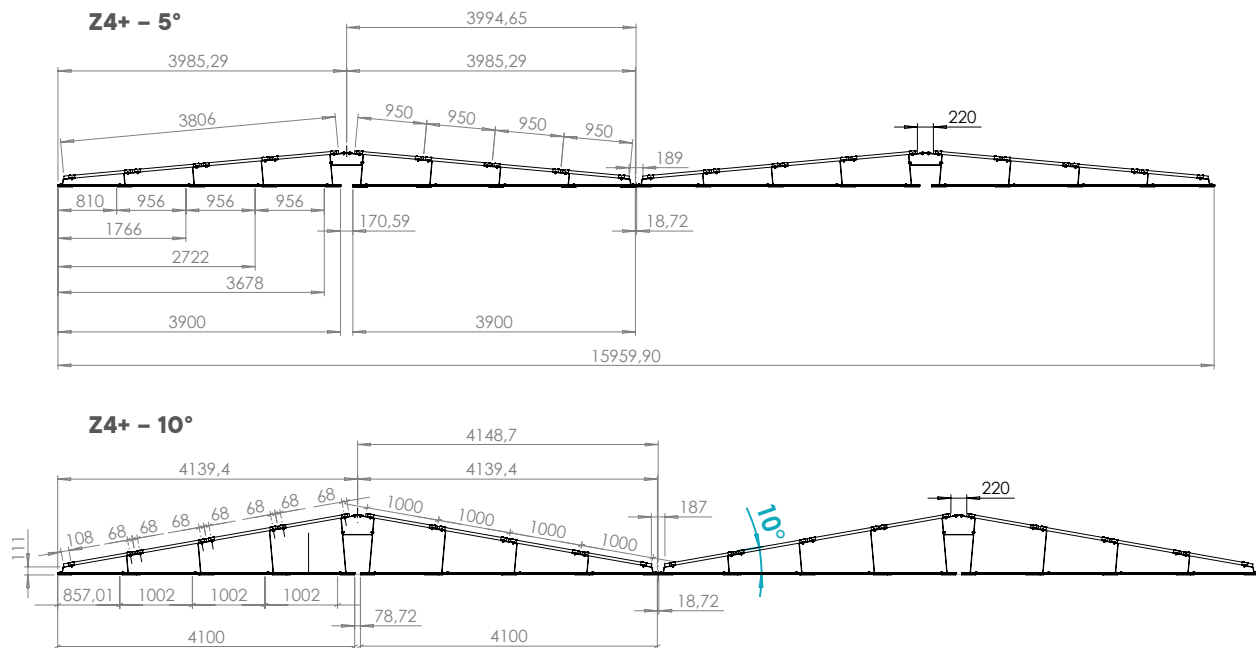
The COMPACT**FLAT Z4+** makes it possible to achieve the maximum utilization of a flat roof plane for the first time and is of great significance to large-scale projects for this reason. By contrast, up to 30% more PV modules can be installed on the same surface. Furthermore, the COMPACT**FLAT Z4+** system enables the efficient use of cleaning robots, since up to a max. of 4 PV modules can be fixed down in a row. The aerodynamic design boasts excellent structural properties and requires considerably less ballast than other systems on the market.

The system has been tested in a wind tunnel according to the latest standards, is UL 2703–certified, and comes with a 25–year warranty. With special loading tests, all variants were tested and approved by TÜV Rheinland in accordance with UL 2703, as well as a fire test in line with UL 1703. The sophisticated design provides for water drainage on all sides.

The COMPACT**FLAT Z4+** system is stored in our 3D engineering software AEROTOOL. The AEROCOMPACT® customer center is able to issue clear and competent project reports based on empirical data (wind load, snow load, structural analysis).

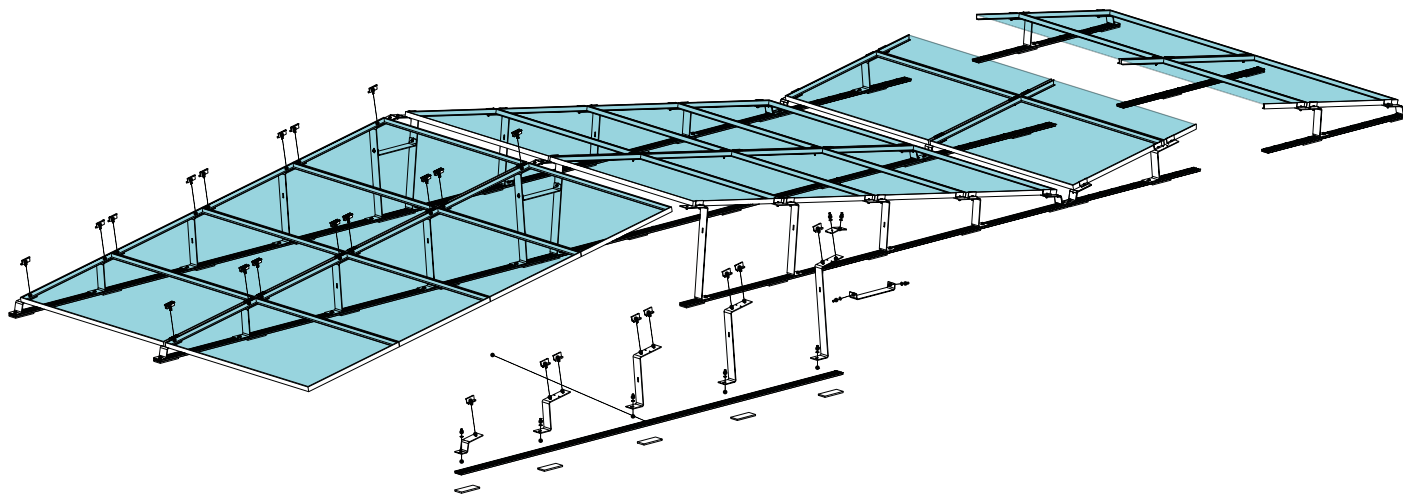
The COMPACT**FLAT Z4+** is delivered pre-assembled, including a newly developed building protection mat – with long-term durability testing.

With few main components, the COMPACT**FLAT Z4+** achieves an exceptional price-performance ratio. In addition to the attractive system price, the simple installation of the innovative system saves time and resources.



## TECHNICAL DATA

<b>Description</b>	Aerodynamic installation system for the stand-mounting of framed PV modules on flat roofs.
<b>Scope of use</b>	On foil and bitumen roofs with and without heat insulation beneath the sealing, as well as on concrete roofs; can be adapted for gravel and green roofs upon request
<b>Module dimensions</b>	950–1,050 mm width; length at customer's discretion
<b>Installation angle</b>	5°, 10°
<b>Row spacing</b>	COMPACTFLAT Z4+: 400 mm for 8 modules
<b>Distance from the roof surface / floor surface</b>	Approx. 85 mm; potentially less on gravel roof
<b>Distance from roof edge</b>	500 mm, roof areas F and G as per EN 1991-1-4 can be covered
<b>Max. building height</b>	60 m (adapted for taller buildings upon request)
<b>Max. roof pitch</b>	Up to 5° possible without roof anchors; above 5° only with roof anchors
<b>Max. field size</b>	12 x 24 rows; 288 modules
<b>Min. field size</b>	1 double row for every 2 modules
<b>Wind load</b>	Suction load up to 2.4 kN/m <sup>2</sup>
<b>Snow load</b>	Pressure load up to 1.6 kN/m <sup>2</sup>
<b>Design/stability verification</b>	Software-supported based on wind tunnel analyses
<b>On-site requirements</b>	Sufficient structural load-bearing capacity of the roof structure and the building's supporting structure, as well as adequate compressive strength of the roof structure, must be ensured on site. The general terms and conditions, terms of warranty, and the user agreement apply.
<b>Module approval</b>	The list of approved modules is provided by AEROCOMPACT®; individual approvals through the module manufacturer
<b>Components</b>	Module clamps with grounding pins, flat-roof brackets, floor rails, ballast holders, ballast stones; optional roof anchors
<b>Materials</b>	Bearing connecting parts made from aluminum EN AW 6060 T64; module clamps and floor rails made from aluminum EN AW 6063 T66; screws made from stainless steel A2-70; ballast holders made from steel with aluminum-zinc coating; building protection mat made from polyester fleece



- › Greatest-possible module density (up to 30%)
- › 2 to 4 modules on one plane
- › No roof penetration necessary
- › Maximum space utilization
- › Main structure produced from aluminum and stainless steel
- › Suitable for cleaning robots
- › Structurally optimized system
- › Module clamps with integrated grounding pins
- › Water drainage provided on all sides
- › Also suitable for roof edge areas
- › Optimum module ventilation
- › 700 kWp per truck or 40-foot container
- › Quickest installation: 1 kWp / 5 min. / 2 people
- › Pre-installed building protection mat
- › TÜV-certified as per UL 2703
- › Wind tunnel-tested
- › Engineered in Europe
- › General building inspectorate approval applied for
- › 25 years product warranty



< Scan QR code to watch installation video

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