



FLAT ROOF BRACKET SYSTEM

Safe and tested substructures for mounting photovoltaic modules on flat roofs

The COMPACTFLAT system family offers systematically structured substructures for the effortless installation of photovoltaic modules on flat roofs. The aerodynamic design boasts exceptional structural properties and requires considerably less ballast than other systems on the market. Due to the special “spring effect” of the feet, the substructure adjusts optimally to the conditions of the surface structure. Since the design is not rail-bound, water drainage is provided on all sides.

MORE EFFICIENCY

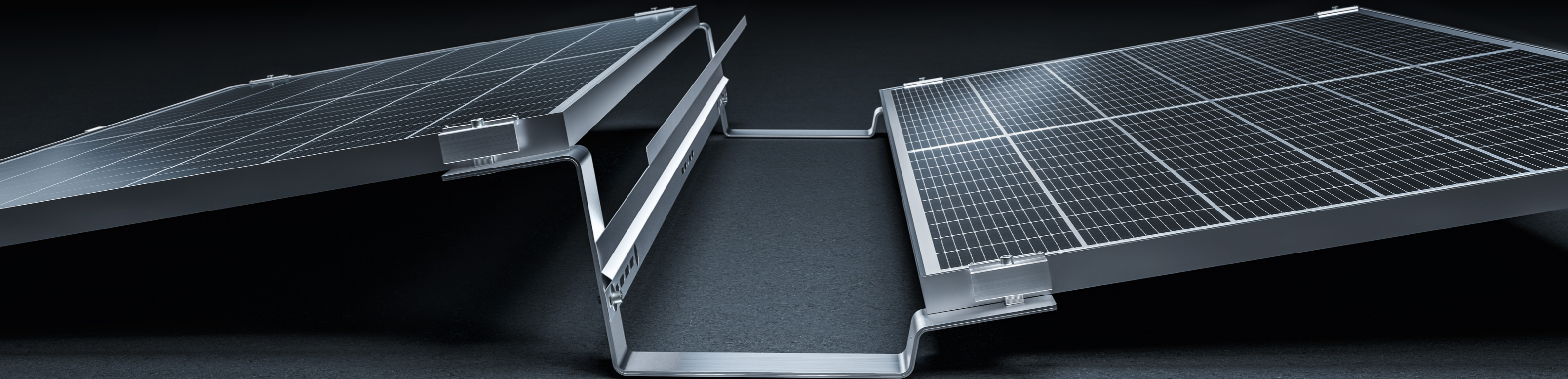
Short assembly times and lower transport costs due to fewer components.

SAFETY

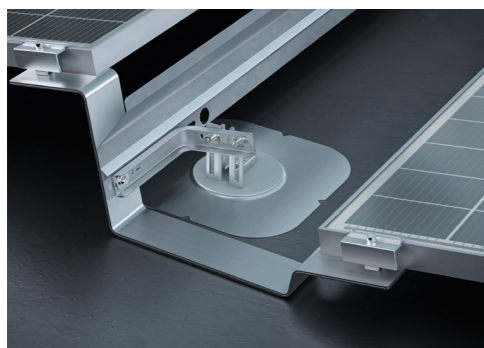
Certified and wind tunnel tested.

RELIABILITY

The AEROTOOL software offers reliable information about statics, wind loads and snow loads.

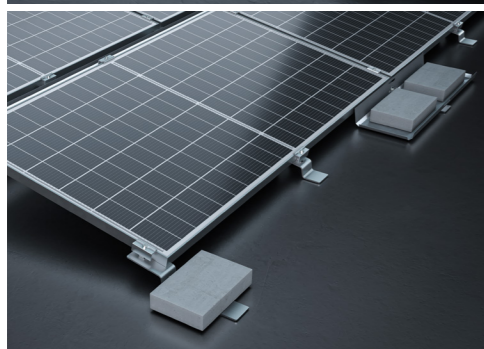


ADDITIONAL COMPONENTS



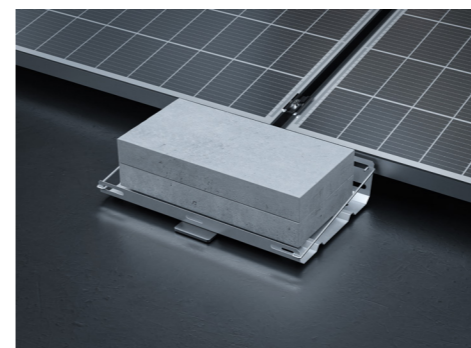
ROOF CONNECTION

AEROCOMPACT offers a sophisticated hybrid solution for roofs that cannot withstand the additional weight of a photovoltaic system. The combination of roof fastening points and ballast reduces the overall weight of the system. This option can also be used in areas with seismic activity to prevent the system from shifting due to earthquake influences.



ALPINE VERSION

Our alpine version is used from a certain snow load, which is calculated by our online software AEROTOOL based on the project.



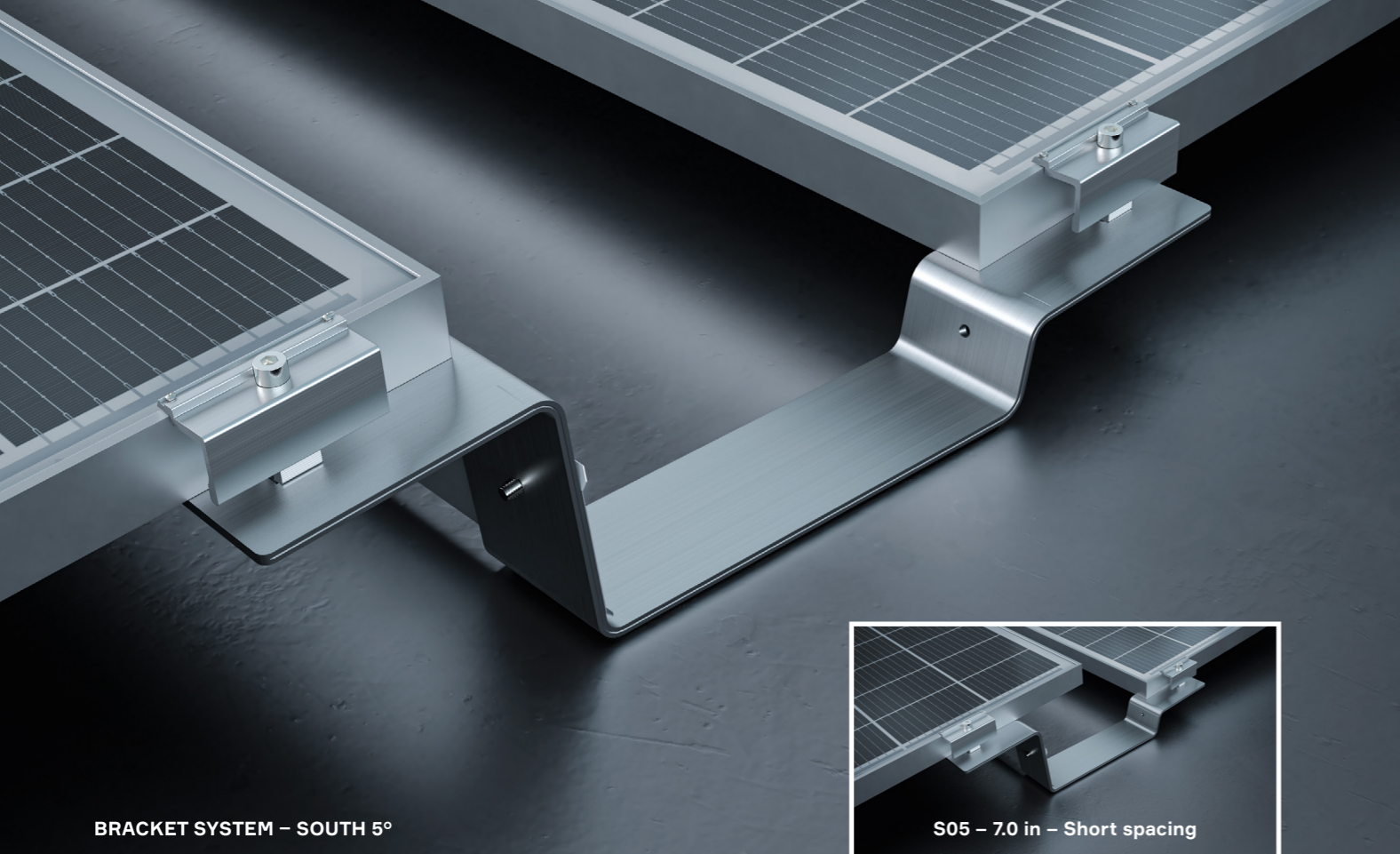
BALLAST TRAYS

This system variant with ballast trays, available in various sizes, is mainly used in areas with high wind loads and roofs with low point loads. The main advantages of this installation variant are, on the one hand, the additional ballast that can be installed per module and, on the other hand, the even distribution of the concentrated load on the roofing. The ballast tray can also be used for ballasting on gravel roofs by putting the gravel into the ballast trays. With the additional ballast securing bracket, the ballast stones are secured against slipping from the tray and ideally distributed.



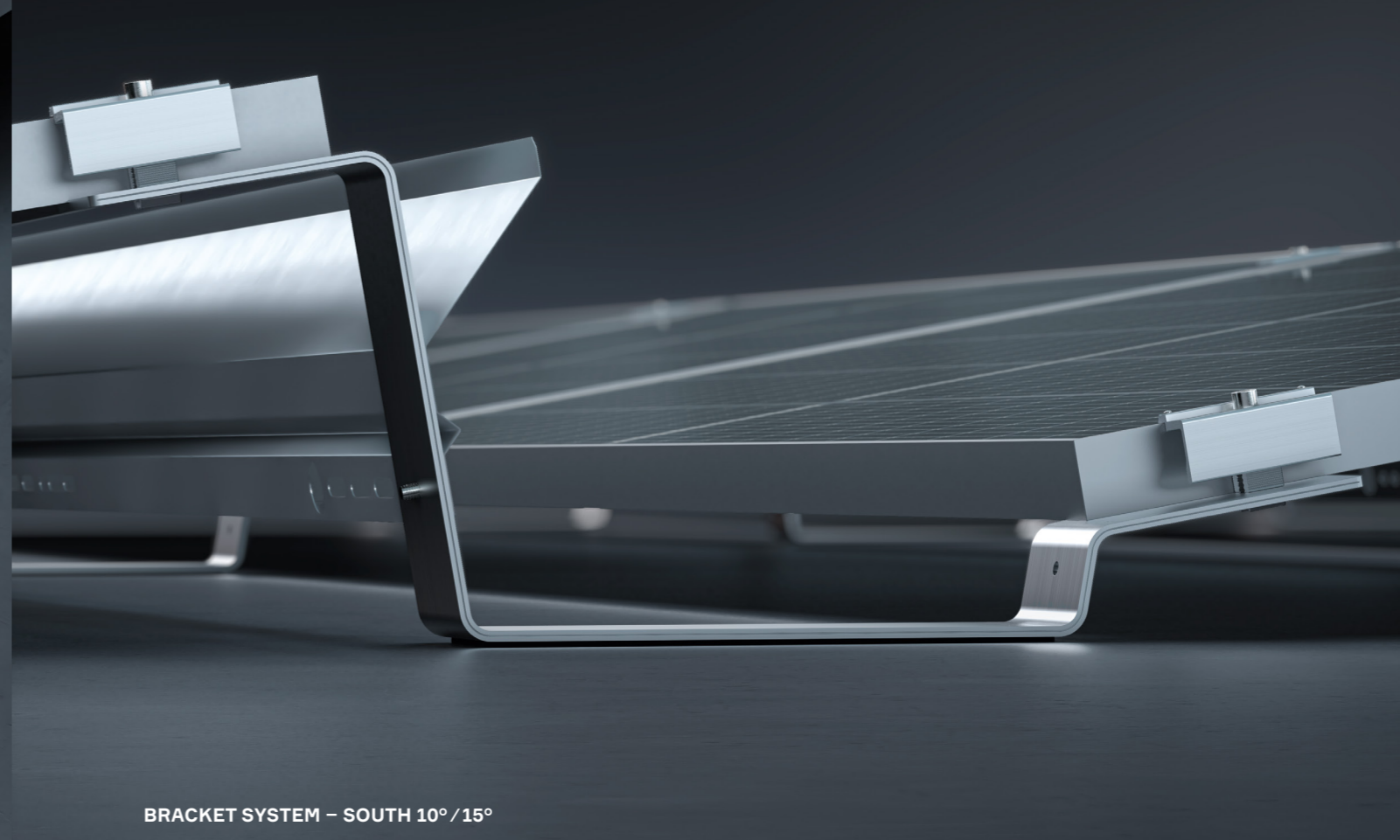
CABLE MANAGEMENT

The cable management solution for string cabling of the rows is UL-certified and available as a standard product.



BRACKET SYSTEM – SOUTH 5°

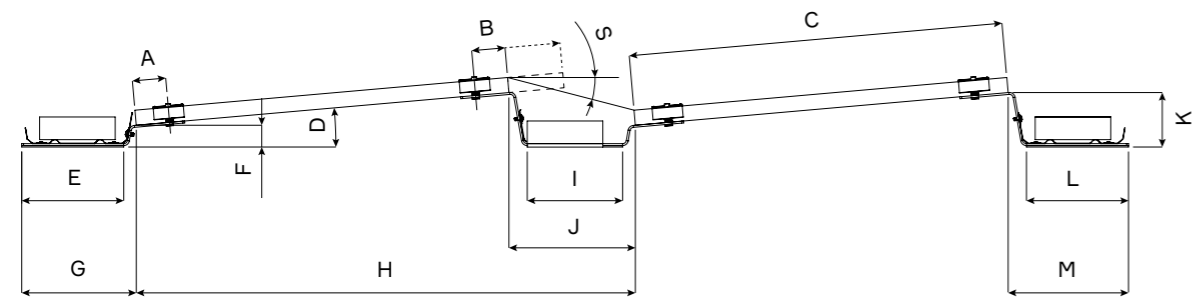
S05 – 7.0 in – Short spacing



BRACKET SYSTEM – SOUTH 10° / 15°

COMPACTFLAT S05

The COMPACTFLAT S05 is a south-facing aerodynamic flat roof fastening system including pre-assembled PES building protection mat for framed PV modules. The module inclination is 5° and results in row spacings of 7 in and 13.2 in. The row spacing of 7 in with a shading angle of 30° is achieved by moving the modules back on the connector. It is also available as an alpine version.

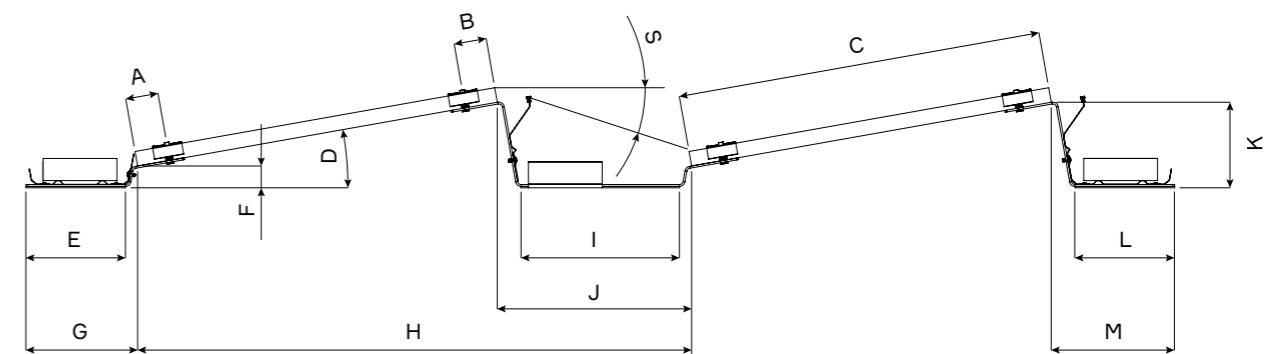


	A [in]	B [in]	C* [in]	D [°]	E [in]	F [in]	G [in]	H* [in]	I [in]	J [in]	K [in]	L [in]	M [in]	S [°]
S05 – 7.0 in – Short spacing	3.48	9.64	37.40 – 45.28	5	10.63	2.28	11.93	44.26 – 52.16	9.94	7.00	5.67	10.63	12.58	30
S05 – 13.2 in – Long spacing	3.48	3.48	37.40 – 45.28	5	10.63	2.28	11.93	50.44 – 58.34	9.94	13.2	5.67	10.63	12.58	15

* depending on the PV-module dimensions

COMPACTFLAT S10 / S15

The COMPACTFLAT S10 / 15 is another south-facing aerodynamic flat roof fastening system including pre-assembled PES building protection mat for framed PV modules. It is available with an inclination of 10° and 15°, as well as various row spacings and is available as an alpine version as well.

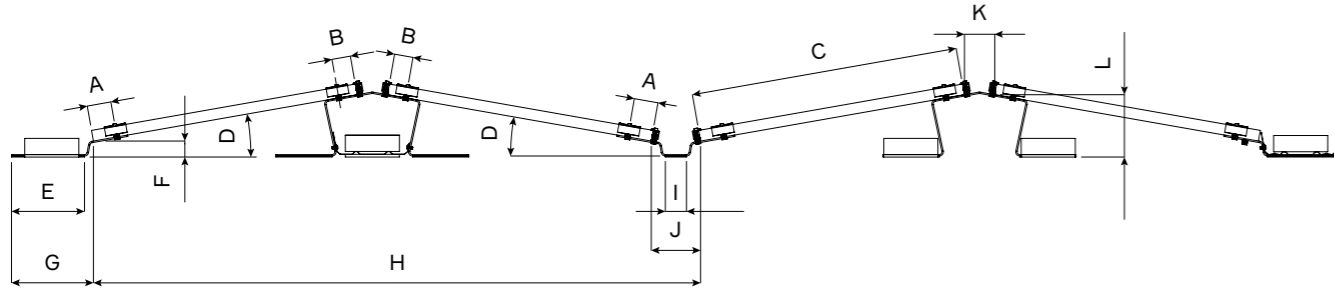


	A [in]	B [in]	C* [in]	D [°]	E [in]	F [in]	G [in]	H* [in]	I [in]	J [in]	K [in]	L [in]	M [in]	S [°]
S10 – 15.0 in – Short spacing	3.48	3.48	37.40 – 45.28	10	10.63	2.32	11.92	51.74 – 59.72	11.11	15.0	9.13	10.63	13.15	25
S15 – 22.5 in – Short spacing	3.48	3.48	37.40 – 45.28	15	10.63	2.38	11.92	58.49 – 66.61	18.05	22.5	12.48	10.63	13.78	25

* depending on the PV-module dimensions

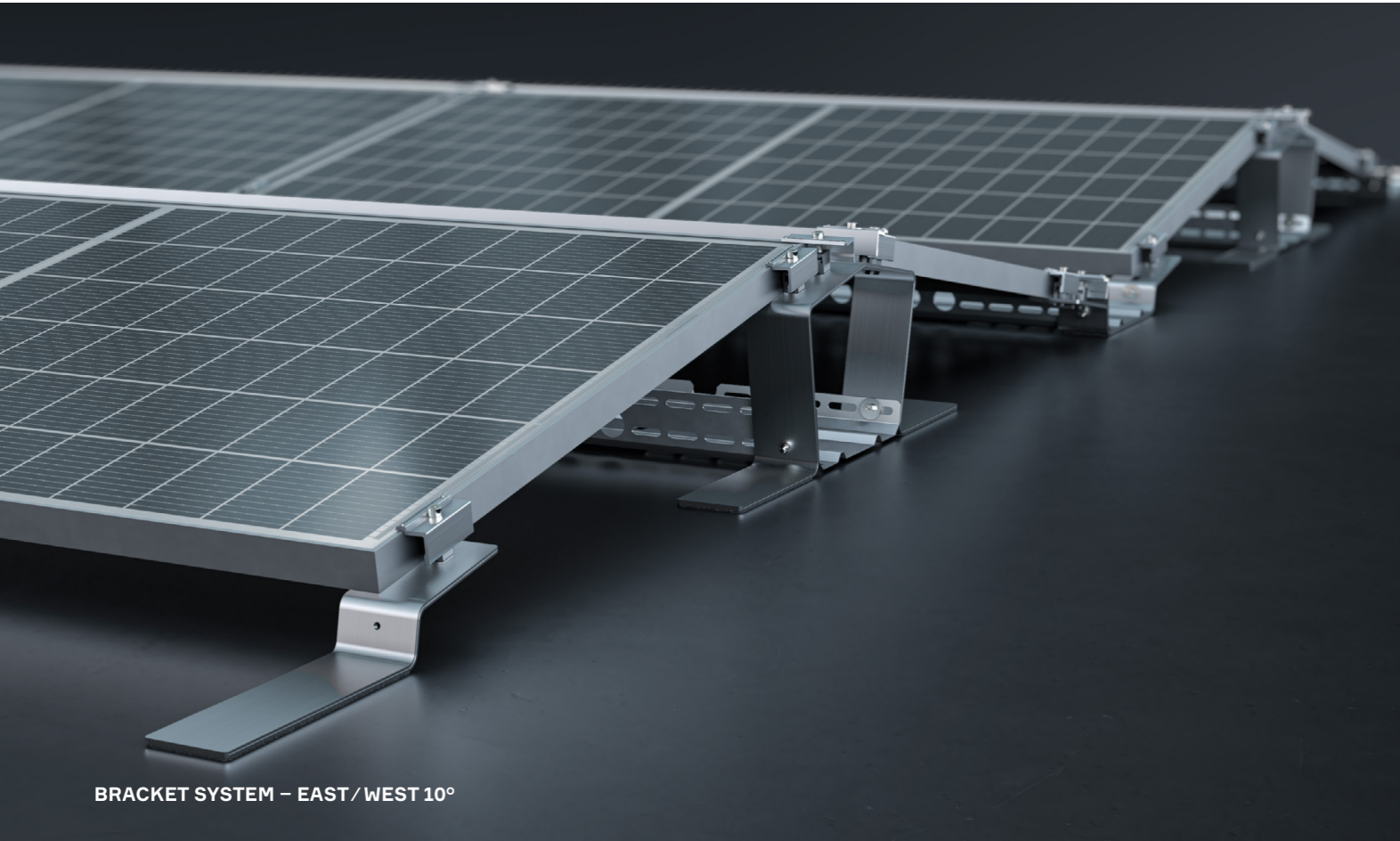
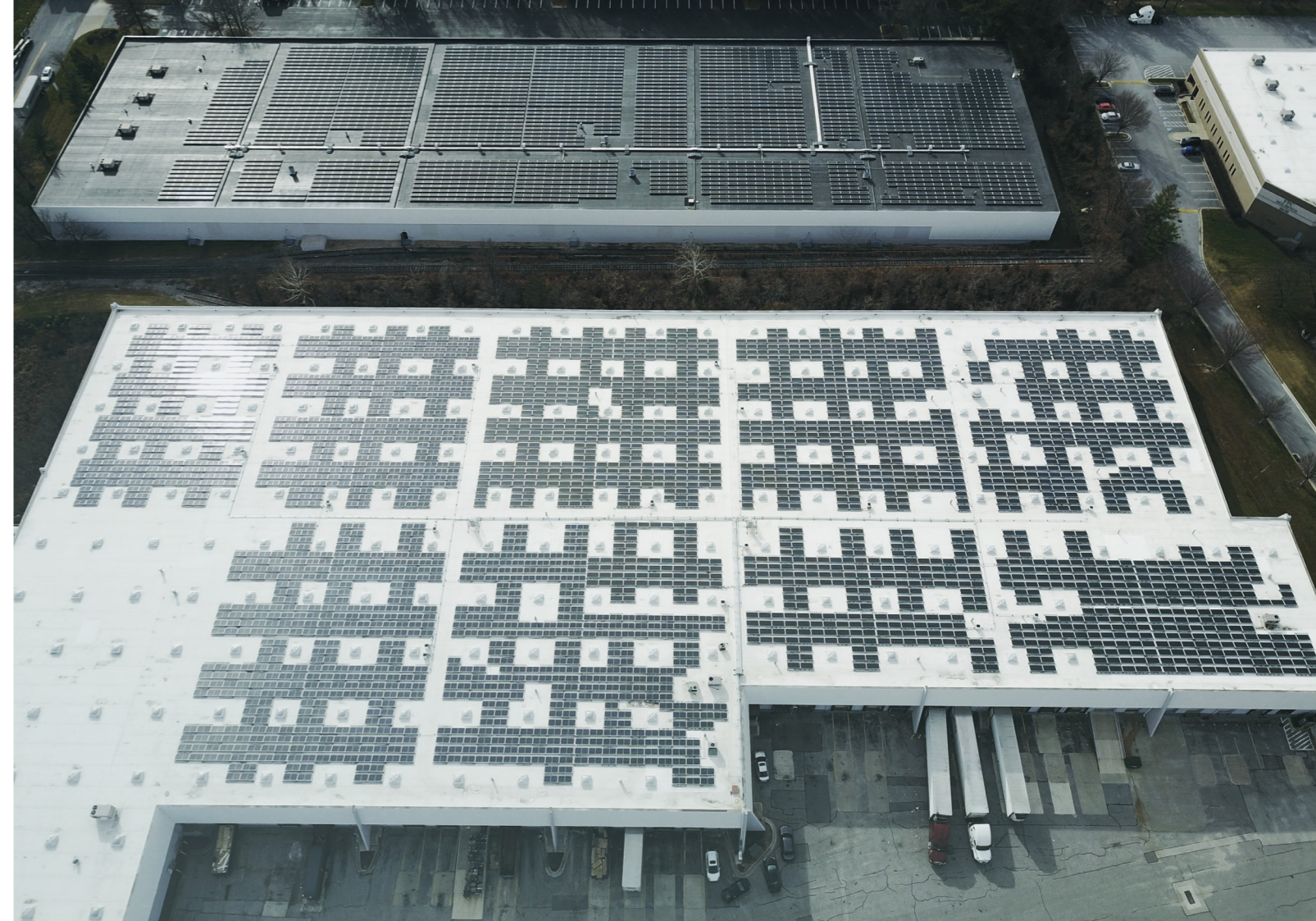
COMPACTFLAT S10 PLUS

The system, as part of the COMPACTFLAT product range, is an aerodynamic east-west-substructure for the fixing and aligning of PV modules on flat roofs. The module inclination is 10° and results in row spacings of 11.61 in and 18.21 in. The aerodynamic design has outstanding static properties and requires surprisingly little ballast. This system is also available as an alpine version.



	A [in]	B [in]	C* [in]	D [°]	E [in]	F [in]	G [in]	H* [in]	I [in]	J [in]	K [in]	L [in]
S10 PLUS – 7.2 in – Short spacing	3.48	2.72	37.40–45.28	10	10.63	2.32	11.93	58.16–101.10	3.08	7.2	4.41	9.07
S10 PLUS – 13.8 in – Long spacing	3.48	2.72	37.40–45.28	10	10.63	2.32	11.93	91.76–107.72	9.65	13.8	4.41	9.07

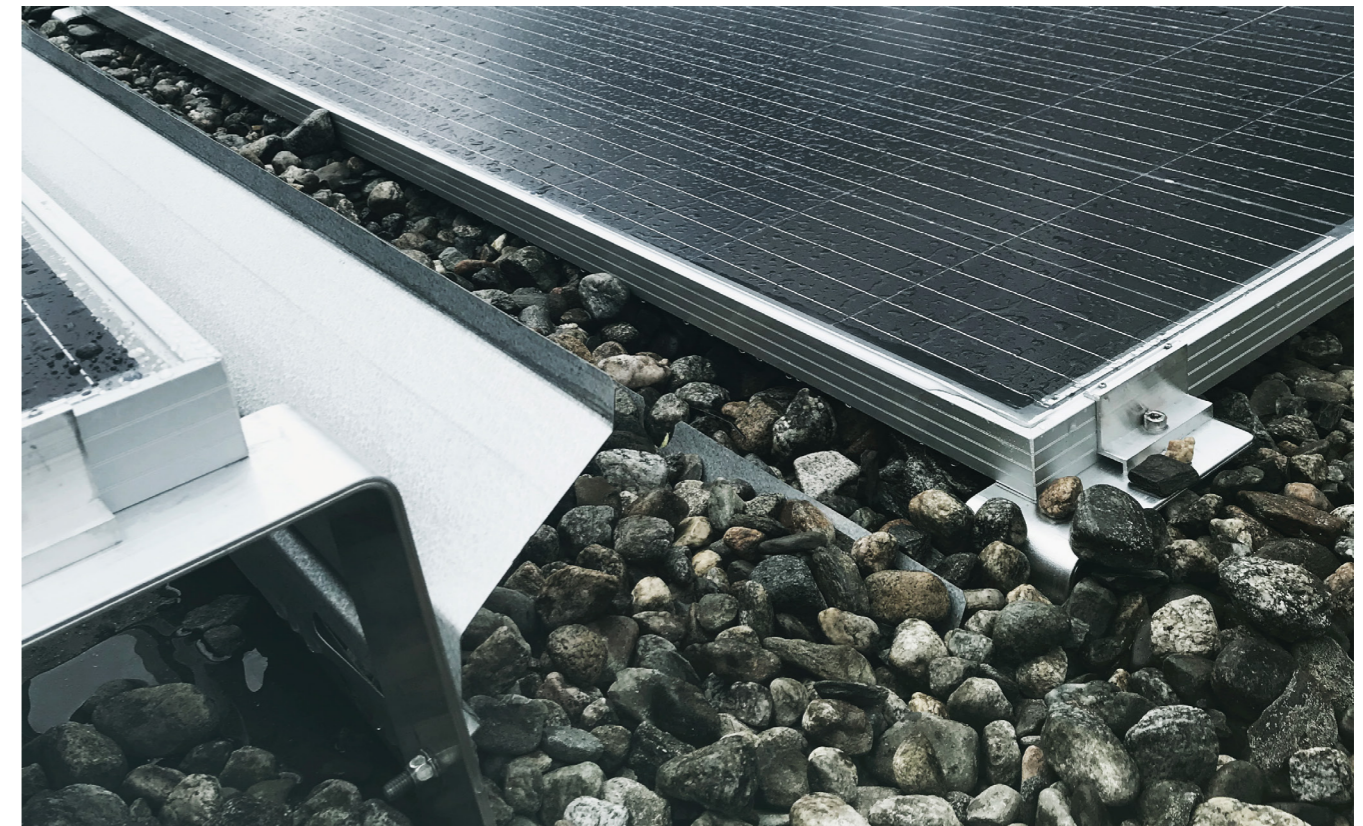
* depending on the PV-module dimensions



BRACKET SYSTEM – EAST / WEST 10°

MARYLAND / 1.1 MW / S10

MASSACHUSETTS / 1 MW / S10



FLAT