

**ALUMERO**

AC 2.1  
**FLAT ROOF S 10**

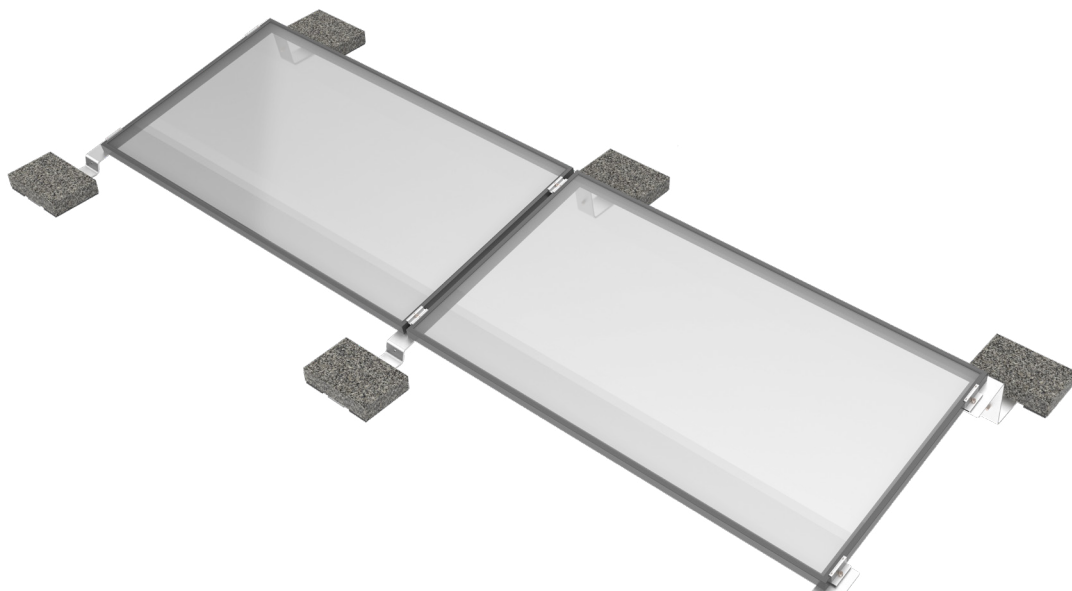
EN

**DATA SHEET**

# FLAT ROOF S 10 AC 2.1

## Your big plus

- + Tested in a wind tunnel
- + Quick and simple mounting thanks to pre-assembled components
- + Low transport costs
- + Optimum module ventilation
- + Water drains off on all sides
- + Main structure made of aluminium/stainless steel
- + No roof penetration necessary
- + Module clamps with integrated earthing pins
- + Light and durable
- + TÜV-certified according to UL 2703



## Technical data

<b>Description:</b>	Aerodynamic mounting system for the installation of framed PV modules on flat roofs.
<b>Area of application:</b>	On foil and bitumen roofs with and without thermal insulation under the waterproofing layer as well as on concrete and gravel roofs and green roofs upon request
<b>Module dimensions:</b>	950 – 1,150 mm × 1,500 – 2,250 mm (width × length)
<b>Set-up angle:</b>	10°, one side
<b>Spacing between rows:</b>	Flat roof AC 2.1 S 10 (18° internal shade angle): 527 mm Flat roof AC 2.1 S 10 (25° internal shade angle): 380 mm
<b>Gap to the roof surface:</b>	approx. 60 mm, may be less on gravel roof
<b>Gap to the roof edge:</b>	1,200 mm (smaller roof edges on request), roof areas F and G in accordance with EN 1991-1-4 can be covered.
<b>Max. building height:</b>	25 m (adaptation to higher buildings on request)
<b>Max. roof pitch:</b>	up to 5° possible without roof anchors, over 5° only with roof anchors
<b>Min. &amp; max. array size:</b>	Min. 1 row per 2 modules, max. 12 × 10 double rows, 120 modules or 20 × 20 m
<b>Wind load:</b>	Suction-wind load up to 2.4 kN/m <sup>2</sup>
<b>Snow load</b>	Compressive load flat roof AC 2.1 S 10 standard up to 2.4 kN/m <sup>2</sup> Compressive load flat roof AC 2.1 S 10 alpine up to 4.4 kN/m <sup>2</sup>
<b>Design / stability</b>	Software-supported on the basis of tests done in a wind tunnel
<b>On-site requirements</b>	Sufficient static load-bearing capacity of the roof structure and the building structural system as well as a sufficient pressure-bearing capacity of the roof construction must be ensured on site. The general conditions of business and warranty apply, as does the user agreement.
<b>Module release</b>	The module release must be obtained from the module manufacturer or taken from the corresponding data sheet.
<b>Components</b>	Module clamps with earthing pin, flat roof clips, wind baffle plates, ballast blocks, ballast trays, roof anchors
<b>Materials</b>	Load-bearing connectors made of aluminium EN AW 6060 T64, module clamps made of aluminium EN AW 6063 T66, bolts made of stainless steel A2-70, wind baffle plates and ballast trays made of steel with aluminium-zinc coating, building protection mat made of polyester fleece





# ALUMERO.PRO.TOOL

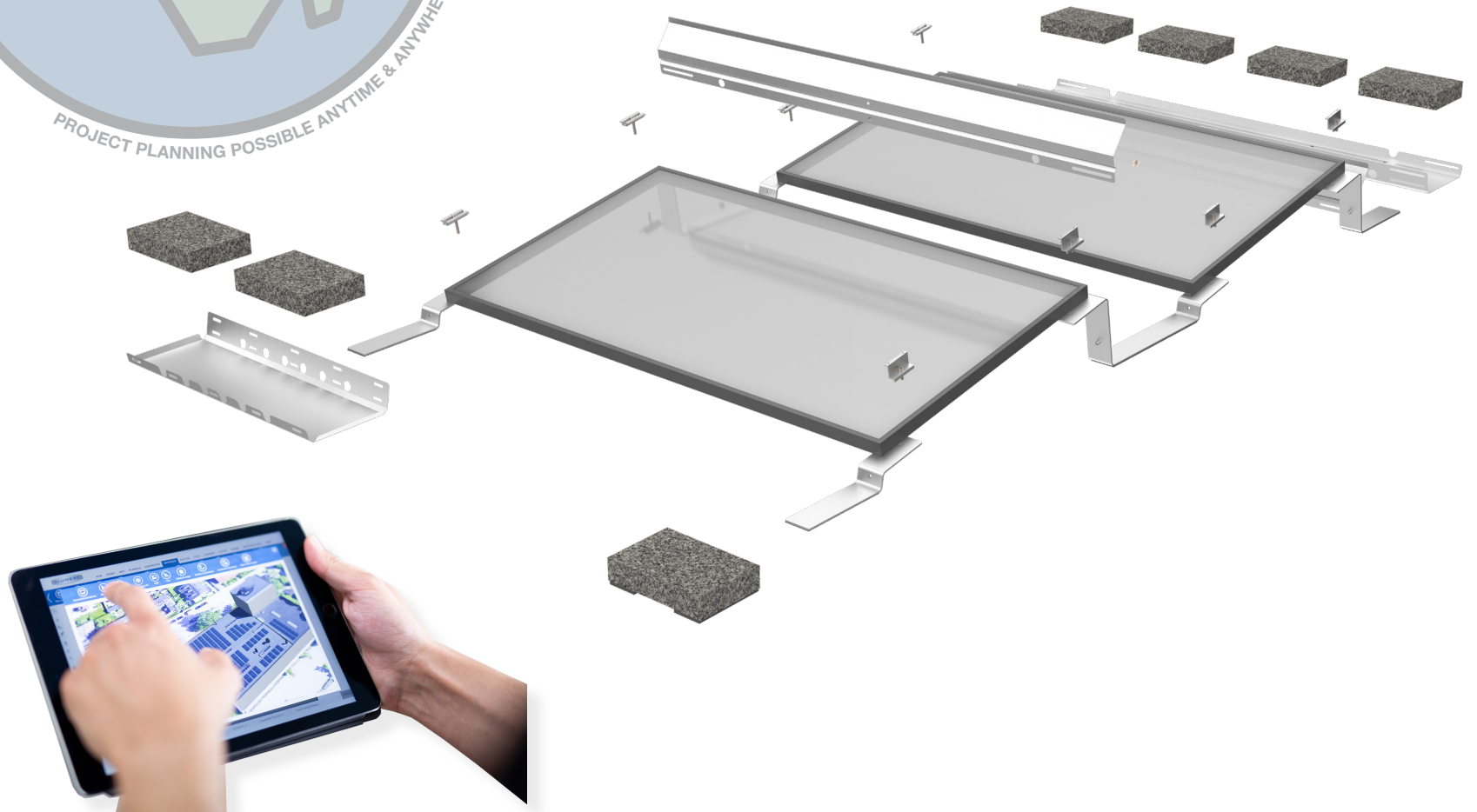
## Project planning in 8 steps

- 1 Master data
- 2 Roof data
- 3 Roof measurement
- 4 PV modules
- 5 Structure
- 6 CAD diagram
- 7 Structural design
- 8 Material list



## Component overview

You can find further items in our product catalogue or on our website [www.alumerogroup.eu](http://www.alumerogroup.eu)



We give our customers the possibility of creating technical, project-related system designs incl. static calculation and project reports using our online software **Alumero.Pro.Tool**.

**makes us stronger.**