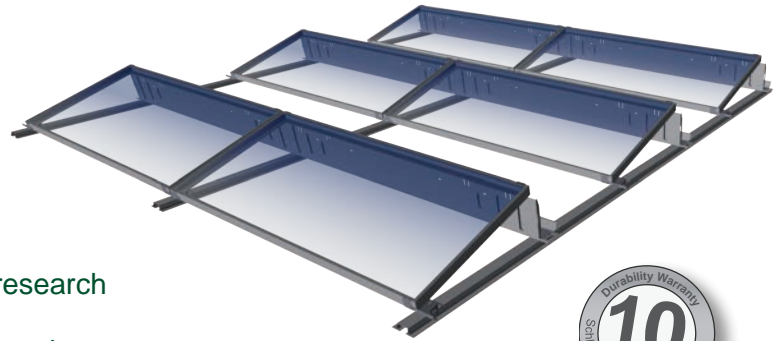




AluGrid

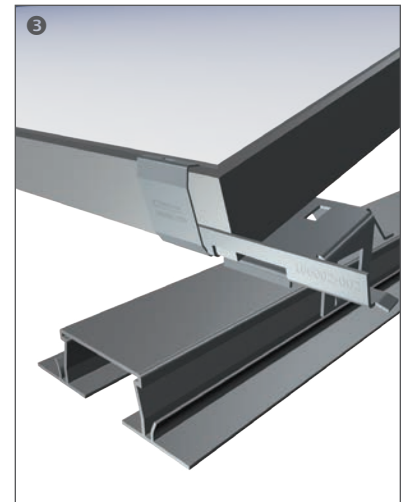
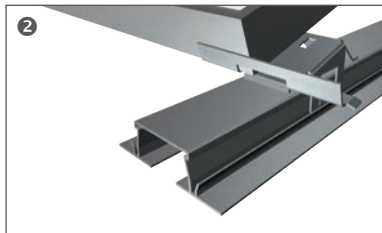
Features and Benefits

- Corrosion resistant; made of 100% aluminium
- Quick, simple, virtually tool-free installation
- System design based on the latest wind dynamics research
- Reduced number of components for shorter mounting time



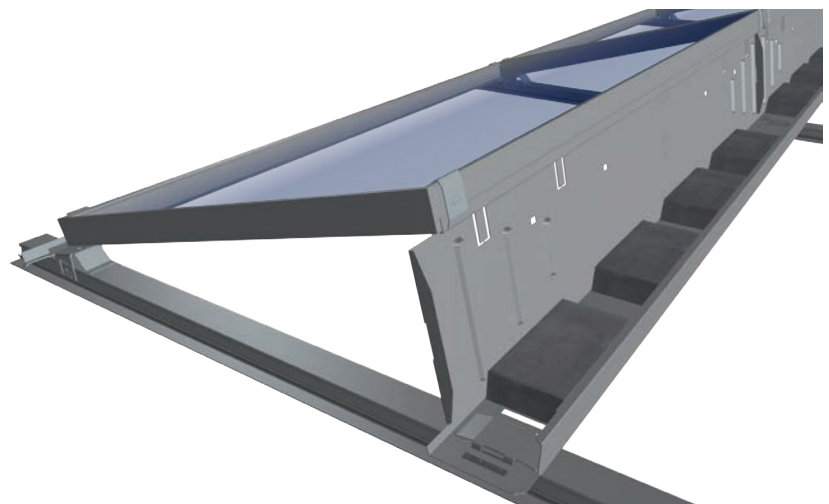
Based on the proven AluLight™, AluGrid allows for PV modules to be mounted on flat roofs where the concentration of panels is important and where reduction of loading on the roof is required. Set at a fixed tilt with choice of 10 or 15 degrees, modules are connected using top-down clamps.

- 1 Components are connected using Schletter's Klick™ System. Using spring clamps (screw less), modules are fastened to the substructure.
- 2 The loading can be optimized according to the structural requirements.
- 3 Using aluminum alloys provides an essentially indefinite lifespan, even in high UV radiation areas, as well as ensuring approval by building officials and system reviewers.



Loading

Concrete pavers are incorporated into the system, accomplishing three tasks in one: provide ballast to the system at ideal locations, interconnect the rows, and ensure well distributed transfer of compressive forces to the roof.





Module Clamping

Spring clamps are available for modules heights from 30 – 51 mm. The modules are clamped into place along the longitudinal sides. Be sure to consult module manufacturer recommendations to ensure the clamping area is sufficient.

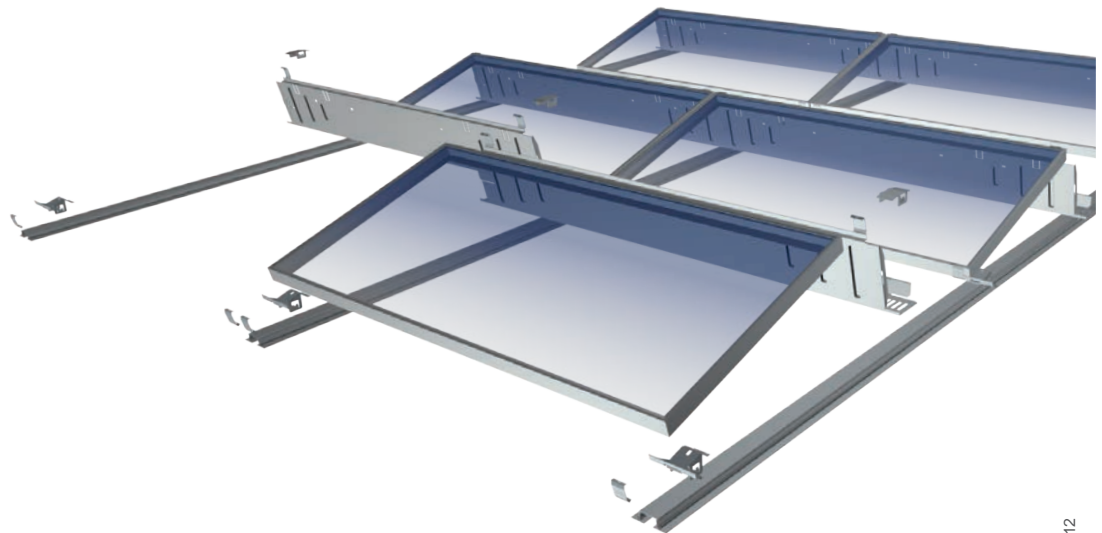
➤ AluGrid Mounting Instructions

In order to avoid any damage of the flat roof membrane, complete, custom-cut EPDM rubber rolls can be ordered. When the rubber piece is larger than 300 mm x 100 mm water can drain off the roof parallel to the continuous beam. The amount of water draining off the roof depends upon the amount of precipitation and the shape of the roof.

Layout

Components are delivered to the site as single parts and are assembled on location in just a few simple steps.

Components	
166501-006	Continuous beam 6m
166501-004	Continuous beam 4m
166501-001	Continuous beam customized cut
169005-001	Interior connector kit
166003-001	Support rubber continuous beam 6 mm, rolled material
169007-116	Windsafe B940-1019 L1300-1360
169007-146	Windsafe B940-1019 L1440-1500
169007-164	Windsafe B780-859 L1560-1620
169007-174	Windsafe B780-859 L1621-1680
169007-176	Windsafe B940-1019 L1621-1680
169007-186	Windsafe B940-1019 L1681-1740
169007-236	Windsafe B940-1019 L1940-2000
169007-001	End cap for Windsafe, module width B790-859
169007-002	End cap for Windsafe, module width B940-1019
166002-001	Fastening clamp
166002-002	Lower module support
166001-030	Module clamps for module thickness 30/31mm
166001-032	Module clamps for module thickness 32/33mm
166001-034	Module clamps for module thickness 34/35mm
166001-036	Module clamps for module thickness 36/37mm
166001-038	Module clamps for module thickness 38/39mm
166001-040	Module clamps for module thickness 40/41mm
166001-042	Module clamps for module thickness 42/43mm
166001-044	Module clamps for module thickness 44/45mm
166001-046	Module clamps for module thickness 46/47mm
166001-048	Module clamps for module thickness 48/49mm
166001-050	Module clamps for module thickness 50/51mm



Technical data

Material	Windsafe metal sheet and end cap: AlMg3; Continuous beam: Alu ENAW6063; Profile rubber: EPDM; Lower module support 1.4301; Fastening clamps and module clamps: 1.4310
Structural analysis	Structural analysis according to the current specific national standards (in Germany DIN1055 and EC1). Structural analysis attachment on the dimensioning of the number of the required fastening points. By all means pay regard to the information on structural safety!