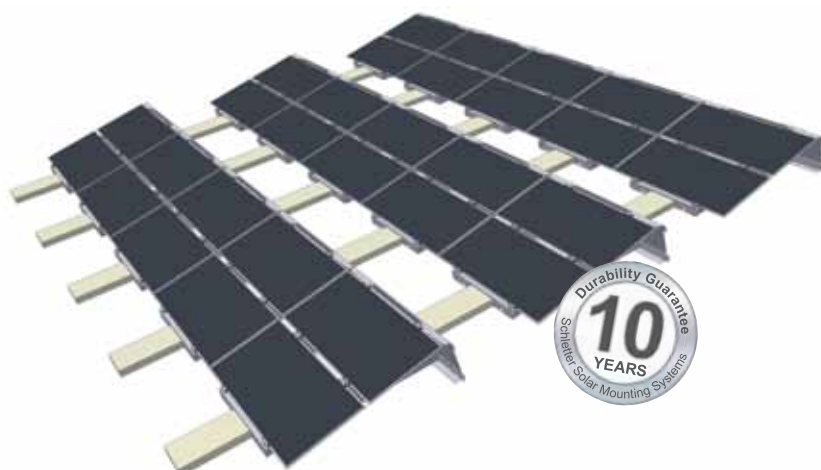


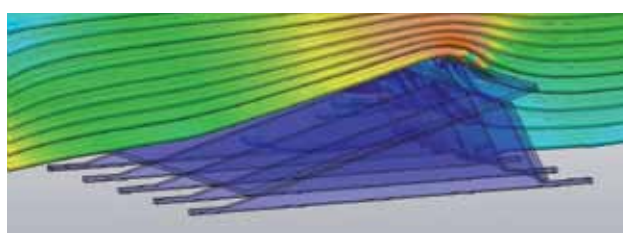
AluLight TF

**Additional elevation with reduced superimposed loads for flat roofs;
Optimized for FirstSolar modules**

- quick and simple mounting
- only a very few components
- individual system structural analysis



On many flat roofs, the area that can be used for photovoltaic installations can be enlarged by using load-optimized systems. Besides the systems that have been proven for years like CompactVario, SolRack, Windsafe, SolTube, etc., the **AluLight** system is a further system that can be used for the fastening of modules on flat roofs with minimum superimposed loads in completely closed rows and a fixed elevation angle of 12 degrees. The combination of several measures resulted in an optimum solution.



Flow simulation



"Spoiler" effect

The **AluLight TF** for thin-film modules has been designed as a special variant for First Solar modules and thin-film modules with comparable dimensions.

With this system, concrete border stones fulfill three tasks: They load the trays at the right points, interconnect the trays and safeguard a distributed transmission of the pressure loads into the roof surface.

By using approved aluminum materials, both a virtually unlimited durability even with high UV-irradiation and certain approval in structural expert reports is safeguarded.



Item no.	Name	Details
169003-001	AluLight TF kit	including 2 self-tapping screws, 6 threaded plates, 6 shims, 4 Eco6 laminate end clamps, 2 Eco6 laminate middle clamps and 6 screws M8x20.

Loading: Concrete blocks with sections up to about 255 x 65 mm.

In order to determine the required loading, a specific structural analysis regarding the superimposed load has to be carried out. The distributed load depends on the actual row distance. In this structural analysis, the shade calculation and possibly the length of the loading stone are taken into account. For the protection of the roof cladding, surface protection mats with a width of 1000 mm are available optionally.

Module clamping: Two thin-film modules 1200 x 600 x 6.8 mm are arranged horizontally above each other, "floating support" at the long sides using Eco6 laminate clamps.

Dimensioning: Conveniently with our auto-calculator (Schletter creates a structural analysis regarding the superimposed loads).

Technical data

Material	Alu Light tray AlMg3 Fastening elements: Blind rivet for Alu Light tray AlMg3, Eco6 laminate clamps Socket head screw for module clamps VA 1.4301, threaded plate 30x30mm VA 1.4301
Structural analysis	Structural analysis according to the current specific national standards (in Germany DIN1055 and EC1). Structural analysis attachments on the dimensioning of the number of the required fastening spots, based on structural calculation. By all means consider the information on structural safety! The verification of the holding force of the roof to the substructure is not included in the general structural analysis attachments!
Calculation	Calculation respectively ordering can be done with our auto-calculator software, for example

Get all system prices quickly and easily with our auto-calculator!
Further information at www.schletter.eu