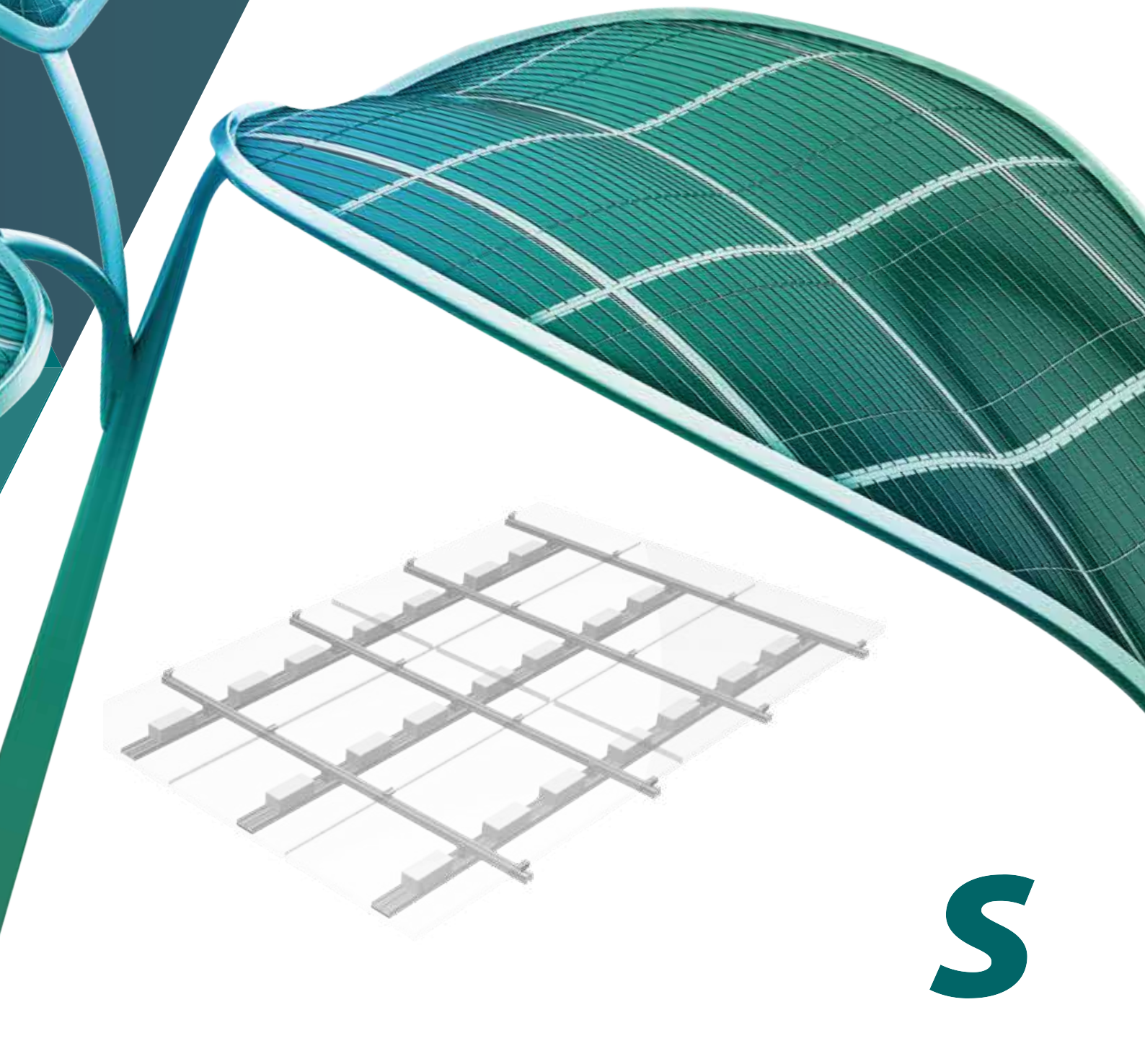
SCHLETTER
The Solar Mounting Group

FLATGRID

PRODUCT SHEET



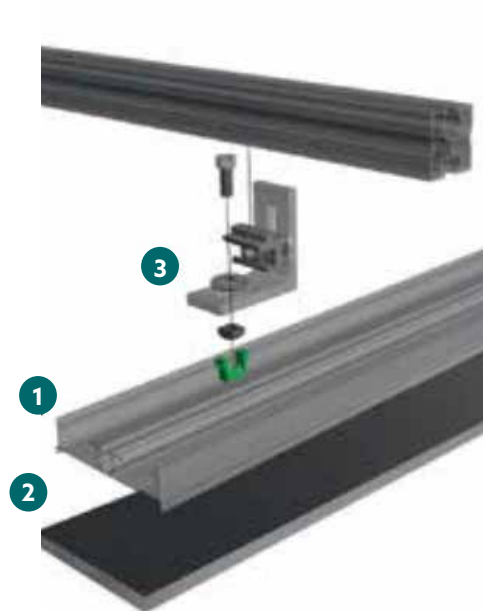
SCHLETTER

FLATGRID

The parallel flat roof system

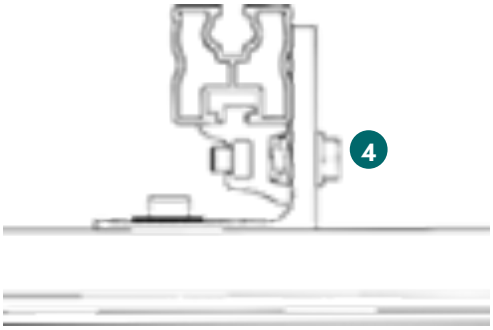
FlatGrid is an economical system for slightly sloped flat roofs. It was developed for installing modules parallel to the roof without penetrating the roof. However, the prerequisite is that the system can be fastened on site. This can be done with a ridge connector, with a PV system being installed on both sides of the roof. It is also possible to fasten the system at suitable points, such as statically loadable light band structures, purlins or connectors. Static suitability must always be tested, however.

- **Modular system combinable with many Schletter components**
- **For slightly sloped flat roofs**
- **Integrated structure protection mat**
- **Optimized for materials and cost**
- **No roof penetration**
- **Max. permissible roof pitch: 10°**
- **Parallel to the roof**
- **Reduced ballast**
- **Schletter Configurator**
- **25-year warranty***



FlatGrid is a modular system with base profiles, in which the integrated structure protection mat also serves as a mount for the ballast. The height-adjustable angle bracket makes height leveling of up to 30 mm possible. In addition, the module-bearing profiles can be installed in any position on the base profile.

For installing the system profile, 1 arrange according to the static requirements. The structure protection mats 2 made of rubber granulate serve as an underlay and protect the building surface.
The lamination with aluminum triplex foil on the underside of the mats prevents plasticizer migration between the rubber-incompatible sealing films (e.g. soft PVC) and the protection layer.
Then the Rapid2+ L-brackets 3 must be mounted on the system profiles. Through the proven Schletter click system, these can be attached at appropriate locations along the Klicknut. Then fasten the Schletter standard profiles (such as Solo) using the Rapid top piece to the L-bracket 4 and weigh the system profiles down with paving stones (usually 20 x 10 x 8 cm). 5
Now module installation can begin.



If, due to higher wind loads, more ballast is necessary than can be installed in the system profile, more ballast can be added using additional trays. For these additional trays, there are also suitable structure protection mats that can be fastened with lugs.

*in accordance with our warranty conditions

Slip guard

Because both halves of the roof are normally used, the systems are connected together on both sides by ridge connectors, which prevents slipping.

Design

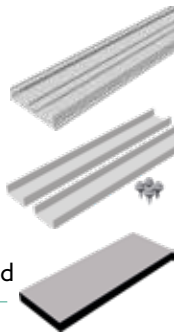
During design, the following edge parameters must be observed, as with every flat roof system:

- Surface pressure on the existing roof covering and the insulation below it
- Thermal separation of individual installation units
- Fastening on the roof and connection of the blocks based on the roof pitch

COMPONENTS

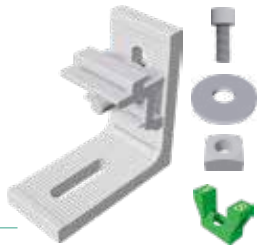
Base profile FlatGrid for structure protection mat strips

128039-203	Base profile FlatGrid 2150 mm
128039-214	Base profile FlatGrid 4200 mm
128039-006	Base profile FlatGrid 6000 mm
128039-215	Base profile FlatGrid 6300 mm
129078-000	Internal connector for FlatGrid set
169004-003	Structure protection mat 300x110x20 mm blanks, aluminum laminated



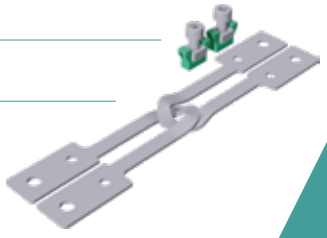
Rapid2+ L angle connector and accessories

119026-001	Rapid2+ L angle connector
943308-120	Allen screw M8x20
943922-008	M8 washer
943914-008	Square nut
129010-008	KlickIn one-click module for M8 nut



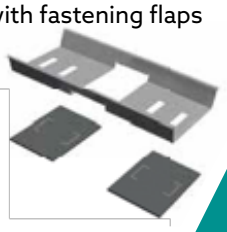
Tension connector

129062-001	Tension connector with accessories



Additional tray

169004-007	Structure protection mat 230x200x6 mm with fastening flaps
169017-000	FlatGrid weighting tray



Accessories

You can find a selection of suitable module support profiles, module clamps and other installation accessories in our component overview.

Technical data

Material	Structure protection mat: rubber granulate with aluminum lining, fasteners: stainless steel 1.4301 or higher; other system components: aluminum EN AW 6063;
Statics	Statics calculation according to the current country-specific standards (in Germany EN 1991, EC1). Statics systems for dimensioning the quantity of required loading. Always follow the statics instructions!

For more information, see www.schletter-group.com

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