

SCHLETTER
The Solar Mounting Group

SINGLEFIX-V LIGHT MOUNTING KIT

PRODUCT SHEET



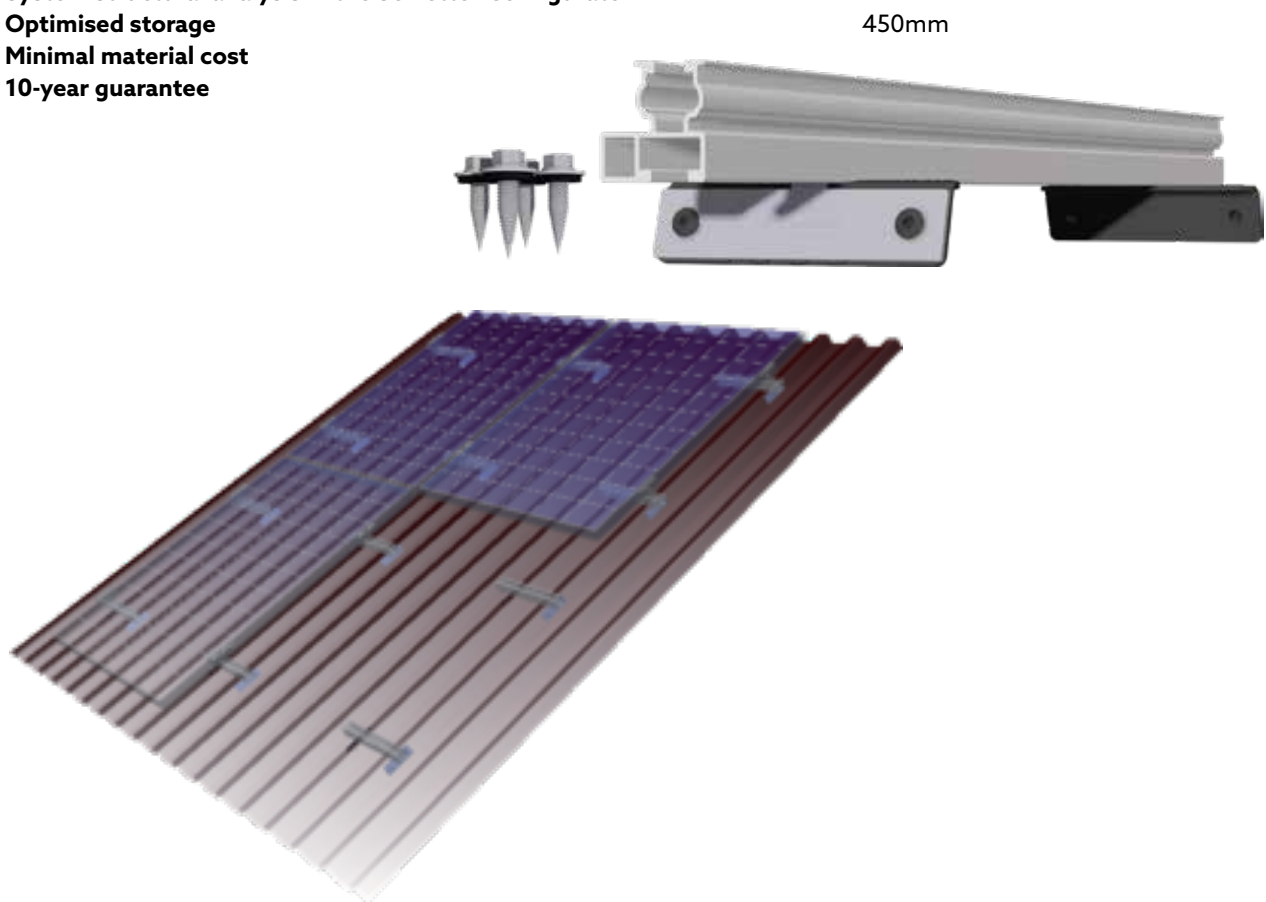
SINGLEFIX-V LIGHT MOUNTING KIT

THE UNIVERSAL FASTENING SYSTEM FOR SELF-SUPPORTING TRAPEZOIDAL SHEET ROOFS AND SANDWICH ELEMENTS

Self-supporting trapezoidal sheet roofs do not always permit the connection to fastening systems to the substructure, but often offer adequate load-bearing strength for fast and simple direct fastening. In most cases, special sandwich elements offer adequate stability in the top cover and, on the other hand, do not permit penetration with fastening elements, as condensation spots can occur. Here, our SingleFix V Light mounting kit offers a simple and fast fastening option without high material costs.

- Fits on all current trapezoidal sheet roofs

- Structurally optimised thanks to lateral screws
- Fast mounting
- System structural analysis in the Schletter Configurator
- Optimised storage
- Minimal material cost
- 10-year guarantee



The Schletter SingleFix V Light mounting kit is a secure fastening option for vertical module mounting with a minimal use of materials. The Schletter Configurator allows you to design a system and generate a parts list and to display this in PDF form. When fastening, self-drilling screws are used with feature tested capacities.

When assembling the SingleFix V Light mounting kit system, please ensure the positioning of the mounting kit to comply with the module clamping points determined by the manufacturer.

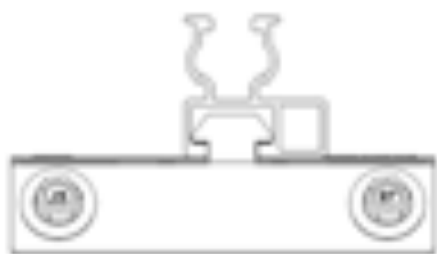
MOUNTING INFORMATION

The SingleFix elements must be able to transfer all structural forces to ensure a safe overall system design. For this reason, the installer must pay attention to the following items:

- The SingleFix fastening element must full contact with the steel deck when fastened to be able to transfer compressive loads. Place thin sheet metal screws on the lower edge of the hole and install screw - pay attention to the tightness above the contact pressure of the seal (there must always be a slight curvature).
- Under no circumstances should the screws spin during installation.
- The screws must not be loosened again after installation and screwed into the same holes again.
- Due to the limitations of the screws, a minimum sheet thickness of 0.5 mm is required for steel sheets and aluminium trapezoidal sheets.

The existing roof must be able to support the additional load of the PV system.

- The trapezoidal sheet metal and its connections to the substructure must be suitable for withstanding the wind uplift forces.
- For sandwich elements, adequate adhesion of the layers on top of each other must be ensured.
- Fastening SingleFix to the trapezoidal sheet joint is not recommended, in particular if the edge of the trapezoidal sheet is positioned directly in the area of the Single Fix screw fitting. If possible, a neighbouring flute (high corrugation) should be used. In such cases, the trapezoidal sheets should be screwed into the joint area on this flute (high corrugation) as well. Pay particular attention to the roof sealing.
- Ensure that the SingleFix lies flat on top.



The mounting surface on the trapezoidal sheet must be min. 22mm high!





Recommendation: Do not screw in the joint area of the trapezoidal sheet!

INFORMATION ON SEALING

- The supplied screws are fitted with sealing washers which prevent water penetration through the fastening drill holes.
- To ensure sealing between the SingleFix and sheet roof, there is EPDM rubber on the internal side of the small fastening plates.
- It should be considered that in extreme weather conditions (wet snow), water can also rise up into the drill holes from below.
- Rising water does not lead to corrosion problems in the drill holes if the sheets are galvanised (anodic protection of the edge zones).
- For sandwich elements, water penetrating into the drill holes does not lead to problems thanks to the foam layer sealing

STRUCTURAL ANALYSIS INFORMATION

- Verification of the fastening forces of the SingleFix V Light mounting kit in the trapezoidal sheet roof can be found in the site-specific Schletter system design (pay attention to specific rules for roof edge areas!)
- With regard to the maximum snow load, it must be taken into account that the roof membrane must also bear the surface weight of the PV system (in certain circumstances, individual verification required).
- for sandwich elements, we recommend applying the SingleFix small plates to the high corrugations in pairs.

PRODUCT NUMBERS

113009-103	SingleFix-V Light 20 Solo 20 set of two	Units:50
120011-00450	Module bearing profile EcoLight 450 mm	Units:50



To maintain a continuous potential connection, we recommend connecting the profile pieces with an aluminium grounding wire or cable (product no. 119015-002) and a thin sheet screw (product no. 943000-360) each.

Our cable fasteners are tested for guiding cables (see component overview).



TECHNICAL DATA

Material	Fastening elements: Stainless steel 1.4301, Screws: Stainless steel, cross beams: Aluminium EN AW-6063 T66, Seals: EPDM
Forms	Fits all current trapezoidal sheet versions and sandwich elements
Planning aid	Configuration and structural analysis via Schletter Configurator.
Structural analysis	Structural analysis according to the current country-specific standards (in Germany EN 1991, EC1). Structural analysis systems to size the number of fastening points required, based on the structural analysis. In all circumstances, pay attention to the information in the structural analysis! The structural analysis of the Schletter system does not include verification of the roof structure!!

Further information is available at: www.schletter.de

SCHLETTER SOLAR GMBH

Alustrasse 1
83527 Kirchdorf
GERMANY

www.schletter-group.com