

### SingleFix-HU

The universal fastening system for self-supporting trapezoidal sheet metal roofs and sandwich elements, adjustable for corrugation top of width "a" from 20 to 60 mm - now even simpler and quicker!

- custom production for a project-specific corrugation top, width "a" is no longer required.
- suitable for trapezoidal sheet metal roofs with corrugation widths of 20mm to 60 mm.
- reduced storage space required; parts can be reused several times (SingleFix-V and upper part SingleFix-HU)
- structurally optimized by means of lateral bolting
- structural analysis of the system
- minimal costs for materials



The structure of the self-supporting trapezoidal metal roof does not always allow for the connection of fastening systems to the sub-structure, but often presents an adequate load-bearing capacity for quick and simple direct fastening. In the majority of cases, sandwich elements provide sufficient stability in the upper deck, but do not allow for roof penetration with fastening elements as this can lead to an accumulation of condensation. The **SingleFix-HU** system in combination with the Schletter **Rapid<sup>2+</sup>** module clamps offers an unequivocally simple fastening solution which is economical in its material usage and is quick to mount.



Schletter **SingleFix-H** is a safe fastening option for vertical module mounting, requiring minimal use of materials. The system is an ideal and uncomplicated supplement to module arrays comprising single modules in a horizontal mounting. **SingleFix-V** can be referenced in the system structural analysis. It utilizes approved screw-types and verified fastening forces. The distribution of fastening elements and their respective approved loads can be referenced in clearly laid out tables.

When mounting the **SingleFix-HU** system please position the mounting kits so as to **observe the clamping points** as predetermined by the module manufacturer.

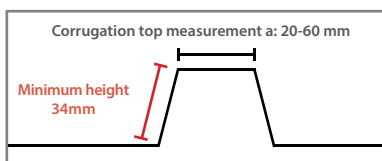
\*The terms of guarantee can be referenced at [www.schletter.de/AGB\\_en](http://www.schletter.de/AGB_en)

### Guidelines for assembly

The SingleFix-V elements must be able to transmit specifically defined forces so that a reliable structural analysis can be provided for the entire system. The following must therefore be considered:

- The utmost care must be taken not to over-tighten screws (use a depth-stop!)
- Once in place, screws must not be removed and redeployed into the same hole.
- Steel sheeting must present a thickness of min. 0.5 mm to comply with the technical approval for screws. Trapezoidal aluminium sheeting required.
- The roof must be able to withstand the additional load of the PV-plant.
- The trapezoidal sheet fastening must be capable of absorbing the wind suction forces.
- With sandwich components, an adequate holding force must be guaranteed between layers.
- Do not fasten SingleFix at joints of trapezoidal metal sheets.
- Please ensure that SingleFix is mounted plain and flush.

SingleFix-HU Kit  
Item No.: 113011-100



### Auxiliary equipment

To achieve an uninterrupted potential connection, we recommend that you connect the **SingleFix-HU** components by extending aluminium grounding tape, Item No. 119015-000 between clamps and fastening in each case with one clamp fastening screw. Cables may also be routed and secured along the tape.

### Guidelines for sealing

- Screws supplied with the delivered product are equipped with sealing discs which prevent water penetrating the bored holes.
- In order to ensure a sealed connection between the SingleFix-V and the sheet metal roof, we recommend the use of the SingleFix-V elements with an integral EPDM rubber seal.

### Important information on structural analysis:

- The verification of holding forces of the SingleFix-V in the trapezoidal sheet metal roof can be referenced in the general structural analysis for Schletter systems. (Please refer to the specific information relating to roof edge areas!).
- When considering maximum snowload, the mass per unit area of the PV plant must be taken into account in addition to the weight of the roof covering. (A separate verification may be required).

### Technical data

Material	Fastening components: Quality steel 1.4301; screws: Stainless steel
Forms	Suitable for all current trapezoidal sheet metal designs and sandwich elements
Planning aid	Configuration and structural dimensioning with the AutoCalculator Easy and the Schletter Configurator.
Structural analysis	Structural calculation in accordance with current national standards (in Germany DIN1991 and EC1). Structural analysis attachments on the dimensioning of the number of required fastening points. Please ensure you observe the structural analysis information for each case. The verification of the holding force of the roof to the substructure is not included in the general structural analysis attachments!
Kit	SingleFix-HU clamp and 4 self-drilling screws

Further information at [www.schletter.eu](http://www.schletter.eu)