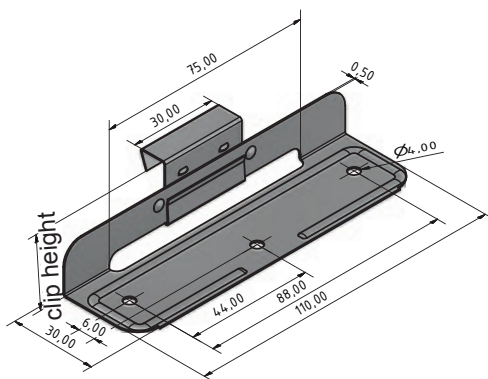


Long sliding clips with sliding range of 75 mm

- Material: stainless steel V2A 1.4301
- Sheet thickness: 0,4 mm, clip foot 0,5 mm
- PU: 400 pcs, height 50 mm 300 pcs

Upper and lower part of the clips are already pre-assembled. By regulating the height above the clip foot a higher stability (lower plastic deformation) of the long sliding clips will be achieved.

Long Sliding clips



Height	Article-No.
25 mm	P HE17025
28 mm	P HE17028
30 mm	P HE17030
32 mm	P HE17032
38 mm	P HE17038
50 mm	P HE17050

Application

Metal roofs and facades are exposed to external environmental influences such as wind and temperature-induced length expansions. To avoid damage a correct positioning of the fixed and sliding clips is required. The laying arrangement of the sliding clips is dependent on the roof inclination and must be taken from the plumbing/tinsmith rules and regulations of the ZVSHK.

Note: In all cases the technical regulations (of the respective countries), legal regulations (of the respective countries), statics and local conditions must be observed!

Quality

All long sliding clips are industrially produced with stamping and bending machines. Internal quality controls ensure a consistently high quality of fastening elements.

Extraction values

The extraction values of the long sliding clips depend on the quality of the roof substructure and the fasteners used. For the clips extraction values of 600 N (60 kg) can be assumed. However, the maximum clip distance must not exceed 500 mm.

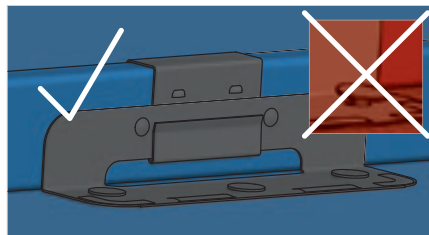
Fasteners

The following fastening materials must be used for mounting the long sliding clip:

- Grooved nails made of stainless steel according to DIN 1052 and according to load capacity class 3/C $\geq 2.5 \times 25$ mm
- Countersunk head screws in stainless steel 4.0 x 25 or 4.0 x 30 mm with lead covers

Installation

Careful assembly of the individual clips is indispensable. Nails, screws, etc. which are protruding from the surface, should be reworked as this could lead to injuries to the roof skin. When using countersunk head screws as fasteners,



we recommend using the Fixed Clip Plus with countersunk holes.

Roof substructure

The roof skin and its fastening can only withstand the stresses the roof substructure can withstand. Before applying the fastening, the structure of the substructure must be checked for the required quality and strength. The required nominal thickness of the formwork for roofing is at least 24 mm (22 mm for wood-based panels) at the time of installation.

Use of noise protection mats

When using noise protection mats under the sheet metal panels, the compressed height of the mat must be adapted to the clip height. In the case of Kling sliding clips, the clip height is adjusted over the lower part and this increases the dimensional stability of the clip when using noise protection mats.

Use

Due to the sliding range of 55 mm, the sliding clips can be used depending on the material for the following maximum panel lengths:

- Copper: Total length up to 10 m
- Stainless Steel: Total length up to 14 m
- Aluminium: Total length up to 10 m
- Titanzink: Total length up to 10 m
- Galvanized steel sheet: Total length up to 14 m

Through the use of **long sliding clips** with a 75 mm sliding range, the maximum permissible panel lengths can be extended by 35% in a material-specific manner.

Arrangement

The arrangement and the number of fixed clips is dependent on the loads to be absorbed, the inclination of the roof and the expansion possibilities at the ridge and eaves. The fixed clips are arranged on a length of 1–3 m as shown in the figure below. When using snow and solar systems, the number of fixed clips must be adapted to the loads that are to be expected.

Range of fixed clips depending on the inclination of the roof

