

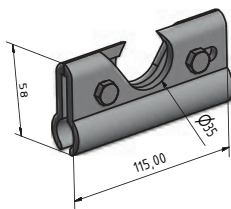
Snow retention system profile roof

The snow retention clamp, invented by Meinhard Kling, is the central component of the Kling snow retention system.

With the aid of the Kling snow retention systems, slipping of the snow quantities is prevented by means of snow retention rows, which are fixed on the profile seam.

- On request, the snow retention systems can be powder coated in a RAL colour of your choice. ■

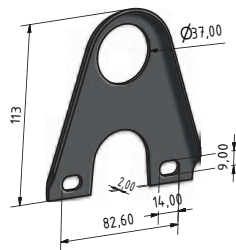
Round head clamp



For round head profiles ■ suitable for tubes with 32 mm Ø ■ material clamp aluminium 3.3206, screws stainless steel 1.4301 ■ PU 10 pcs

Material	Article-No.
Aluminium	P R10010

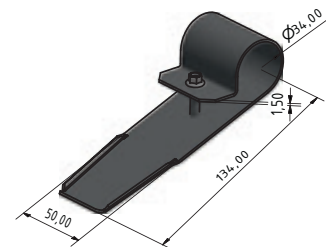
Double-tube add-on element triangular form



For tube fixation ■ suitable for 2 tubes with 32 mm Ø ■ mounted on the seam of the snow retention clamp (not included in the article) ■ PU 30 pcs

Material	Article-No.
Aluminium	P R35010

Ice holder



Ice holder with self-tapping V2A screws for mounting on the snow retention tube ■ PU 50 pcs

Material	Article-No.
Aluminium	P T50010

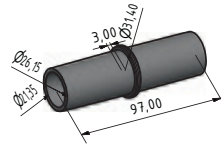
Snow retention tubes end caps



For snow retention tubes 32/2 mm ▪
PU 10 pcs

Material	Article-No.
PVC black	P Z20020

Internal tube jointer



Tube jointer ▪ for a safe expansion of
snow retention tubes ▪ PU 20 pcs

Material	Article-No.
black A Ø 25 mm	P Z10010
grey A Ø 27 mm	P Z20010

Snow retention tube



32/2 mm ▪ for mounting on the snow
retention clamp

Material		Article-No.
Aluminium	rm	P Z30020
Copper	rm	P Z40020
Stainless Steel	rm	P Z50020

Application

The number and arrangement of the snow retention systems depends on the roof inclination, the length of the panels and the expected snow load (snow load zone) (DIN 1055-5).

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 fixed 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 round head clamp are dependent on a correct assembly and the observation of the required tightening torques of the screws of 25 Nm. For the Kling Dach round head clamp deduction values of 1200 N (120 kg) can be assumed for the calculation.

Assembly

Careful assembly of the individual snow retention clamp is indispensable. The snow retention clamps must be fastened to the seam with a tightening torque of 55 Nm. The standard mounting is described in the mounting instructions video at www.klingdach.de.

Roof substructure

The roof skin and the snow retention system can only withstand the stresses the roof substructure can withstand. Before applying the fastening, the structure of the subconstruction 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. The thrust force of the snow load must be taken into account when arranging the fixed clips.

Arrangement

The arrangement of the required number of snow retention clamps in order to safely hold the thrust force

of the snow load must be calculated expertly according to the regulations of the ZVSHK.

The snow retention clamps shall be placed on each or at least every second fold in the snow retention line, but the maximum distance between the snow retention clamps may not exceed 80cm. The required number of snow retention rows should be installed at the same distance on the roof.