

# Clamps from S-5!<sup>®</sup>

## and their Application Options



S-5!<sup>®</sup> has developed innovative clamps for various international metal roof profiles. The S-5!<sup>®</sup> clamps will be attached to the panel seam by the special tightening "bullet-nosed" stainless steel S-5!<sup>®</sup> setscrews. They will "dimple" the seam material, but will not penetrate it. This is the basis for the durable very high holding strengths. In contrast to plagiarism and conventional seam clamps, only the *original* S-5!<sup>®</sup> Clamps are all multiple tested on different materials and profiles by a third-party accredited US-lab. The S-5!<sup>®</sup> Z- and E-Clamps families have in addition the official technical approval by the DIBt (Authority of the German Government).

Since 2008 RoofTech has been the S-5!<sup>®</sup> Master Distributor in Europe and sells and stocks the S-5!<sup>®</sup> products that are common in the European market.



- ✓ Universally applicable for various installations
- ✓ Simple, fast and penetration-free mounting
- ✓ High load capacities in all load directions
- ✓ Extensively tested holding strength
- ✓ S-5!<sup>®</sup> E- and Z- Clamps approved by the building authorities: DIBt Z-14.4-719

With the S-5!<sup>®</sup> clamps you can fix almost anything to standing seam roofs - safe and durable.

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# Snow Retention Systems with S-5!®

## ColorGard® - Snow Retention in the Colour of the Roof

S-5!® ColorGard® is the snow guard system which perfectly matches with the colour of almost each metal roof. This is done by the insertion of a strip of roof material into the ColorGard®-rail thus avoiding expensive costs for coating when the snow guard shall be coordinated with the colour of the roof.

Mounted on S-5!® Clamps with two setscrews, ColorGard® can support higher loads than other systems. In many cases you will need less clamps and rows.



Photo: Rheinzink

- ✓ Snow Retention in the colour of the roof
- ✓ For high snow loads
- ✓ Oblique mounting is possible
- ✓ SnoClip with rubber foot

## RoofTech Single- and Double Tube Snow Retention

Snow retention with the RoofTech Single-Tube Holder Type B is a strong and visually attractive snow guard system. The Single-Tube holder, material stainless steel, will be fixed on the S-5!® Mini-Clamps and a common 32/2mm-tubes will be sliding into the tube holder. Even an oblique snow guard can be easily realized with it. One more benefit is that the tube lies optimal direct on the seam.

Some projects require a snow guard providing higher protection against sliding snow, for example in areas with heavy snowfall or on roofs with solar panels. The RoofTech Double-Tube holder, material stainless steel, will be fixed on two S-5!® Mini-Clamps and common 32/2mm-tubes will be sliding into the tube holder. Depending on the type of seam the upper pipe is 14 - 18cm above the roofing.



Single-Tube Holder Type B: very stable, visually attractive and also oblique mountable.



RoofTech Double Tube Holder strong fixed on S-5!® E-Mini clamps

- ✓ Visually appealing
- ✓ Durable and stable fastening on the S-5!® Mini clamps
- ✓ Material stainless steel
- ✓ Also suitable for copper roofs
- ✓ Ice stopper optionally available

## Further various application possibilities with S-5!® Clamps



With the clamps of S-5!® various installations can be mounted easily and permanently stable on standing seam metal roofs.

## Rail Systems perfect mounted with S-5!® Clamps

S-5!®'s standard and Mini clamps continue to be the attachment choice of worldwide popular rack and rail solar systems. The Mini-Clamps from S-5!® provide sufficient holding strength to install rail-systems on many types of standing seam metal roofs without penetrating the panels.

To mount rail-systems with the screw channel located on the underside, the approved E-Mini-FL and Z-Mini-FL clamps with flange are the right choice. The hammer-head bolts can be fixed quickly and securely through the 18x11mm hole in the flange. The S-5! Mini Clamps without flange can be easily combined with different adapter plates.

C-shaped rails or rails with a side screw channel that are fastened with a angle adapter plate, the S-5!® Mini-Clamps with the M8 threaded hole on top and a M8 stainless steel screw are a simple and stable mounting option.



Rail systems easy fixed with S-5!® E-Mini-FL on a double folded seam roof and with S-Mini on a snap folded seam roof.



Rail with bottom channel fixed on the S-5!® E-Mini-FL (with Flange)



C-rail mounted on S-5!® Z-Mini for round bulb seams



Rail with side screw channel fixed with an angle adapter on S-5!® Z-Mini

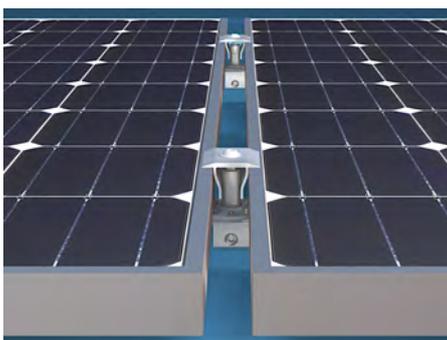
## S-5!® PV-Kit 2.0 - Direct-Mounting without Rails

The S-5-PVKIT® 2.0 is suitable for framed PV modules with frame heights of 30 to 46mm. It is mounted with the S-5!® Mini clamps suitable for the respective standing seam. The stainless steel module support disc of the S-5-PVKIT® 2.0 has optimized teeth which enable the grounding of the modules.

- Easy transport, no cuttings or unusable remains.
- Pre-assembled MidGrab module clamp saves time and money.
- Flat screw head provides a smooth and clean surface.
- Less wind loads due to roof-parallel mounting of the modules.
- Only one module is fixed crosswise to the seams – therefore less cross-movements and stresses for the metal roof.
- **Universally applicable on many different metal roofs with the S-5!® Mini Clamps and the Multi-Trapezoidal Bracket MTH.**



S-5!® PV-Kit 2.0 MidGrab fixed on S-5!® Mini-Clamp



Roof-parallel installation, crosswise to the seam, with the S-5!® PV-Kit 2.0 MidGrab: can be used universally as end and middle clamp.

# Clamp Assortment 2021



The S-5!® Clamps come in a variety of options with M8 thread on top or with flange. The normal S-5!® Clamps with two bullet-nosed stainless steel set screws and a M8 Stainless Steel bolt are used for heavy duty applications e.g. fall protection systems and in the S-5! ColorGard® snow retention.

The S-5!® Mini-Clamps with one set screw are used at applications where rigid objects, such as rails, fixed to the seams with multiple clamps. The S-5!® Mini clamps with M8 thread are now supplied without M8x16 stainless steel screws. These can be ordered separately (PU: 200 pieces).

## S-5!® E-Clamps for Double Folded Seams

For double folded standing seam roofs made of aluminium, titanium-zinc, stainless steel or coated galvanized steel.

**Official approved by the DIBt.: Z-14.4-719.**



## S-5!® S-Clamps for Snap Lock and Angle Seams

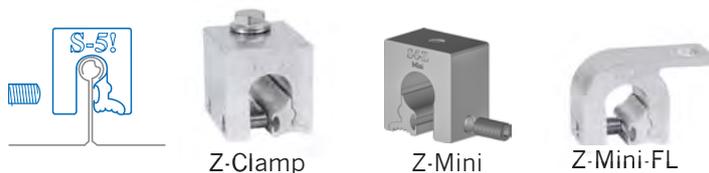
With a bigger opening slot of 14mm the S-Clamps are extremely versatile for a big number of industrial seams such as Snap-Lock or Snap-together profiles from Fischer-Kliptec, Schleibach, Prive-Stylinov, Ruukki or similar. As well for standard angle seams.



## S-5!® Z-Clamps for Round Bulb Seams

Z-Clamps are specially developed to fit profiles having round "bulb" seams with a max. 23mm diameter such as roofs of Kalzip®, Bemo®, Aluform, Euroseam® or Kingspan.

**Official approved by the DIBt.: Z-14.4-719.**



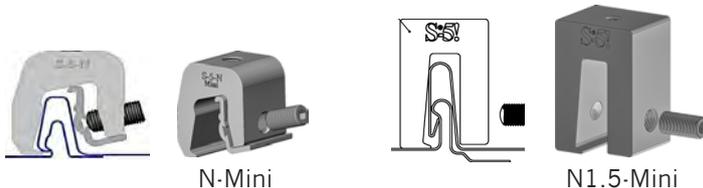
## S-5!® B-Clamps for Copper Roofs

The B-clamps with an opening slot of 6mm are designed for Copper double-folded standing seam roofs. The B-Clamps, made of Brass, allows material compatible installations.



## S-5!® N-Mini and N1.5-Mini Clamps for Nail Strip Seams

The N-Mini clamp was designed for applications on 1" (25mm) high and the N1.5-Mini clamp for 1.5" (38mm) high nail strip profiles and metal roof types with similar profiles.



**Multi-Trapezoidal Bracket MTH** with self-adhesive sealing strips and mounting bracket with slotted hole M10. Material: stainless steel. For mounting on many different trapezoidal sheet metal and sandwich profiles up to 43mm top chord width. **Official approved by the DIBt.: Z-14.4-706.**



We stock the above S-5!® Clamps that are common in the European market. All not stocked S-5!® products can be imported from S-5!® USA, after customer request – even in small quantities and in short time with air freight. Please call us for quote.

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