Solar Installations on Metal Roofs
Mounting Solutions with S-5!® Clamps and Accessories

S-5® from USA, developed innovative clamps for many international standing seam metal roofs and a very economic system to direct mount PV-modules. For over 30 years, S-5® has been the leading authority on metal roof attachment solutions in the US market. S-5® products are now installed on over 2 million metal roofs worldwide, including the headquarters of IBM, Google and Apple.

Since 2009 RoofTech is the S-5® Master Distributor in Europe and stocks the S-5® products that are common in the European market. Many well-known manufacturers and dealers of mounting systems have been using the original S-5® clamps with their systems successfully worldwide for years. Installers appreciate the simple and safe installation without piercing the panels.

Tested holding strength of the S-5!® Clamps

In contrast to plagiarism and conventional seam clamps, only the original S-5!® Clamps are all multiple tested by third-party accredited test-labs. The production in the USA is strictly quality controlled and certified according to ISO 9001. The S-5!® Z- and E-Clamps families have in addition the official technical approval by the DIBt.: No. Z-14.4-719.

RoofTech – The Specialists for Attachments on Metal Roofs - www.rooftech.de

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**Professional Solar - Mounting with S-5!® Clamps**

**Rail Systems mounted on 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 slot on the flange. For mounting on the Mini-Clamps without flange we offer stainless steel adapter plates.

*U- or 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 the M8 stainless steel bolt are a simple and stable fastening option.

![Rail systems fixed with S-5® E-Mini on a double folded seam and S-5® Z-Mini-FL on a round bulb seam roof.](image)

**S-5!® PV-Kit - The Direct-Mounting System**

With the S-5® PV-Kit you can fix solar modules with frames from 33 to 64 mm directly without using rail-systems. The S-5® PV-Kit-Alu is mounted on the aluminium S-5® Mini clamps and the Multi-Trapezoidal Bracket MTH.

The S-5® PV-Kit includes a module clamp, a Aluminium bearing plate with cable holder, a M8 stainless steel stud and M8 nut for the fastening.

- Direct mounting of PV modules - without rail systems.
- Easy transport, no waste or unusable leftovers.
- Simple, fast and stable fastening solution.
- The module clamp universally fit both field (2 panels) and edge conditions.
- Fewer wind-suction loads due to roof-parallel mounting of the modules.
- Only one module is fixed crosswise to the seams - therefore less cross-movements.

![Solar System mounted with S-5® PV-Kit-Alu and S-5® E-Mini on a double folded standing seam roof.](image)

**RoofTech – The Specialists for Attachments on Metal Roofs - www.rooftech.de**
Accessories for solar systems on pitched and flat roofs

**Protect your Solar Installation on Pitched Roofs**

- BirdBlocker strips with 10cm or 20cm long needles made of UV-resistant and recyclable HDPE plastic.
- Simple, also afterwards, installation with stainless steel clips at the inner frame of the Photovoltaik modules.
- No screwing, drilling or stick at the PV module.
- No scratching or damage to the roof surface
- Stable and durable.
- 10 years product warranty.

**CADDY® Solar Cable Clip**

Made of steel with the CADDY® ARMOUR corrosion protection. Class C4: corrosion load strong, protection duration long - over 15 years.

- Accommodates up to two cables with diameters of 5mm to 7mm.
- Can be installed at frames with thicknesses of 1.5mm to 2mm.
- Attaches to the solar panel frame in up to four orientations.
- Flared edges help prevent damages to the cable's insulation.
- Provides a long-term and reliable fixing of the cables.
- Easy to install, no tools needed. Packed with 100 pieces per box.

**CADDY® Tool-Free Flat Roof Support**

for installations of cable trays and pipes on flat roofs

- Easy transport to the roof due to low weight and packed in boxes.
- Quick and simple installation with clamps or pins
- UV- and corrosion resistant. Material: PP und PE.
- Foam bottom for protection of the roof membrane.
- Optimized load balancing. Thereby minimized point load.
- Optimal mounting level 10cm above the roof surface.

Different sizes for professional and rational laying of pipes and cable ducts with mesh cable trays or hole plate trays.

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The S-5® Clamp Assortment

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

The S-5®! Mini-Clamps with one set-screw are utilized when multiple clamps are required for the attachment of stiff objects, to the seams. For further information, installation instructions and test results concerning the holding strength please contact us or see on our homepage: www.rooftech.de.

E-Clamps for Double Folded Seams
For double folded standing seam roofs made of aluminium, titanium-zinc, stainless steel or coated galvanised steel. Official approved by the DIBt.: Z-14.4-719.

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, Schlehabach, Prive-Stylinov, Ruukki or similar.

Z-Clamps for Round Bulb Seams
Z-Clamps are especially developed to fit profiles having round “bulb” seams with a 23mm diameter such as roofs of Kalzip®, Bemo®, Aluform, Euroseam® or Kingspan. Official approved by the DIBt.: Z-14.4-719.

B-Clamps for Copper roofs
The B-Clamp and B-Mini are the right choice for copper double folded seam roofs. The “B” stand for Brass, the material of the clamps.

N-Mini and N1.5-Mini Clamps for Nail Strip Profiles
The new 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 keep the S-5® products that are common on the European market in stock. 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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