

Accessories & Solutions

for professional installation

Stainless steel saddle for copper double standing seam

Due to electrochemical corrosion, aluminum clamps must not be mounted directly onto the seam of copper roofs. Therefore, brass clamps, such as the S-5![®] B-clamp or B-Mini (or stainless steel clamps), must be used on these roofs.

The RoofTech E-saddle made of stainless steel creates a separation between the fold of the copper roof and an S-5![®] E-clamp made of aluminium, thus preventing electrochemical contact corrosion.

All three S-5![®] E-clamps can therefore be used in conjunction with the E-saddle on copper roofs with double standing seam up to a maximum seam thickness of 5mm. This is an imperfect, but cost-effective alternative.



RoofTech E-saddle for insertion between copper double standing seam and the S-5![®] E-clamp, E-Mini or E-Mini-FL.

Packaging unit: 100 pieces per box or 500 pieces per box

- Material: 0.5mm stainless steel V2A
- Length: 55mm, Height: 20mm
- Inner diameter: approx. 5.5 mm
- Weight: approx. 10g / piece

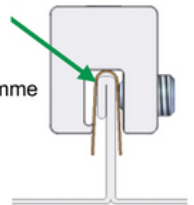


Instructions for mounting the e-saddle with the S-5![®] e-clamps:

- Place the stainless steel saddle flush onto the copper double standing seam.
- Then place the respective E-clamp centrally and flush on the E-saddle so that the nose of the clamp engages under the fold.
- **Then tighten the grub screw(s) of the S-5![®] E-clamp(s) with an increased torque of 20 Nm. E-saddle under S-5![®] E-clamp**
- Tighten the grub screws on the E-terminal and then tighten them again. Many cordless screwdrivers do not always provide a consistent tightening force. The tightening force must therefore be checked with a calibrated torque wrench and the grub screws tightened again if necessary.

E-Sattel

unter
S-5![®] E-Klemme



The installation instructions for the S-5![®] E-terminals must also be observed. Generally speaking:

We accept no liability for defects and damages resulting from failure to follow our assembly instructions, from the installation or assembly of our products with competitor components, or from the use and combination of other components not purchased from us. In such cases, the warranty is excluded.

Depending on the specific clamp used, it must be ensured that the forces transferred from the clamp to the seam can be absorbed by the seam or the supporting structure. Particular attention must be paid to snow and wind loads, loads from installations attached to the clamps, and increased stresses in the edge and corner areas of the roof structure. A sufficient number of clamps must be provided. Verification must be provided on-site. If necessary, a structural engineer should be consulted. The material properties of the respective metals used in the products and the metal roof, their compatibility (e.g., due to contact corrosion), as well as the processing instructions and regulations of all manufacturers involved (including those of the metal roof) must be checked and observed beforehand. The E-clamps can impede the thermally induced expansion of the roof panels if the base of a sliding clip extends into the clamping area of the clamp. In this case, the clamps must be positioned 5 cm away from the sliding clips. The suitability of our products for their intended purpose is the responsibility of the planner and user. The absence of separate technical descriptions does not absolve the executing company from conducting case-by-case testing and ensuring prior clarification of the relevant technical facts. Information, drawings, and photographs provided in our documents and on our website serve to illustrate specific details and are merely recommendations. RoofTech GmbH, S-5![®] – Metal Roof Innovations Ltd., and the other manufacturers of our distributed products assume no responsibility for installation, suitability, or application, nor any further liability.



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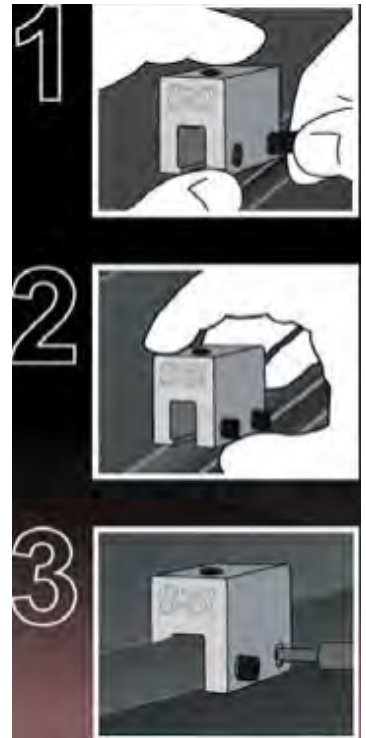
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Installation instructions:

- Place the clamps flush with the fold so that the set screw is screwed into the back of the fold, as shown in the illustration above right, and the “nose” of the clamp sits under the fold.
- The clamps may potentially impede the thermally induced length change of the blade if, despite the high clamping point of the E-clamps, the base of a sliding clamp extends into the clamp's clamping area. In this case, the clamps must be placed 25 mm apart from the sliding clamps.
- Screw in the set screws and tighten them with the S-5! Torx 30 mounting bit included in each box to a tightening force of 15–17 Nm. For galvanized sheet steel roofing thicker than 0.7 mm, use 18–20 Nm. (Only use an electric screwdriver with torque control!).
- Tighten the set screws on the E-clamp and then tighten both again.
- Many electric/cordless screwdrivers don't always provide consistent tightening force. Therefore, the tightening force must be checked with a calibrated torque wrench and the grub screws retightened if necessary.
- If an M8x16 stainless steel screw is used in the top M8 thread for assembly, it must be tightened with a torque of 18 Nm.



In general, please note:

- Installation of our products should only be carried out by qualified personnel and specialist companies with the necessary qualifications for the respective installation and experience in working on roofs. During installation, the warranties of all trades and the roof, as well as the regulations governing work on roofs (e.g., the use of fall protection, arrest systems for eaves above 3 meters, accident prevention, building regulations, etc.) must be observed.
- We assume no liability for any resulting defects or damage if our installation instructions are not followed, if our products are installed or combined with competitor components, or if additional components not purchased from us are used or combined. The warranty is excluded in this case. S-5! products are protected by international patents of Metal Roof Innovations, Ltd.
- The suitability of the clamps for the intended metal roof profile must be checked before installation. Depending on the application of the respective clamp, it must be ensured that the forces transmitted from the clamp to the seam can be absorbed by the seam or by the supporting structure. Particular consideration must be given to snow and wind loads, additional loads from the installations attached to the clamps, and increased stresses in the edge and corner areas of the roof structure. A sufficient number of clamps must be provided. For structurally relevant clamps, a minimum distance of 500 mm from the end of the standing seam profile must be maintained.
- The building owner, owner, or operator is responsible for the stability of a building. The installer of the system is responsible not only for the system itself, but also for the roof on which it is installed. Anyone who installs a system on an existing roof without first checking its stability is violating existing law! The sufficient holding force of the roof covering on the supporting or substructure must always be ensured. Verification must be provided on site. In cases of doubt, a structural engineer must be consulted in advance to determine the load and its distribution.
- When installing metal roofing on timber sheathing, the edges and corners should not be covered with modules due to the limited load-bearing capacity of the roofing and the clamps. In the middle area, skipping rebates is generally not possible. Therefore, we recommend installing clamps on each rebate. The installation of PV systems, for example, represents a point load application, so we recommend reduced clamp spacing and screwed clamps. The clamp should be installed and secured between the clamps to achieve optimal load distribution.
- The thermally induced length change of the metal roofing must not be hindered!
- When mounting rigid objects such as rails, pipes, cable ducts, etc. on the clamps, these must be separated at regular intervals (after max. 3 m) in order to limit deformations due to thermally induced changes in length (in longitudinal and transverse directions).
- The respective installation instructions do not release the contractor from the obligation to clarify the possible uses and applications of our products, including in conjunction with the other materials used, on the specific project in advance. The material properties of the respective metals, their combination with each other, as well as the processing instructions and specifications of all involved manufacturers (including those of the metal roof) must be observed.
- RoofTech and S-5! recommend having the planned installation, PV system, snow guard, etc., reviewed by a qualified specialist who is responsible for snow and wind loads, installation loads, structural analysis and assembly, as well as the planning and construction of and on metal roofs.
- S-5! clamps are not suitable for fall protection or fall arrest. S-5! clamps may only be used for this purpose in a certified and approved fall arrest system. The respective fall arrest system provider is responsible for this and must provide proof of compliance.
- The suitability of our products for the intended purpose is determined by the planner and user themselves. If technical details are not described separately, this does not release the executing company from the obligation to conduct a case-by-case review and prior clarification of the technically correct facts. RoofTech GmbH, S-5!-Metal Roof Innovations Ltd., and our manufacturers generally assume no responsibility for installation, suitability, or applications.



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