

# S-5!<sup>®</sup>

## The Right Way!<sup>®</sup>

### S-5-ZH Mini Clamp

The S-5-ZH Mini is specifically developed for round "bulb" seam configurations  $\leq 7/8"$  (22 mm) in diameter. The design features a hinge to prevent the clamp from pinning the roof to the clip (halter).

The ZH Mini pairs with the S-5-PVKIT for rail-less solar mounting on BEMO, Kalzip<sup>®</sup>, Zip-Rib<sup>®</sup> and other similarly-dimensioned profiles. Choose it to mount solar and other light-duty applications.

When mounted at a single-piece clip (or halter) location, the hinge design of the ZH Mini prevents the clamp from pinning the roof to the clip (halter), so roof panels slide freely over the clip (halter) preserving the roof's freedom of thermal movement.

All S-5! Mini clamps undergo rigorous negative load normal-to-seam (uplift) testing. Please refer to our load testing data for holding capacities on different materials and seam specifics.

\*S-5! Mini clamps are not compatible with and should not be used with S-5! SnoRail™/SnoFence™ or ColorGard<sup>®</sup> snow retention systems.



S-5-ZH Mini

The right way to attach almost anything to metal roofs!

### FEATURES AND BENEFITS

- Fits round "bulb" seam configurations  $\leq 7/8"$  (22 mm) in diameter
- Can be used at halter locations
- Design prevents clamp from pinning roof to the clip (halter)
- Hinge design allows for easy installation - no need to hold insert in place
- Compatible with the S-5-PVKIT for rail-less solar mounting



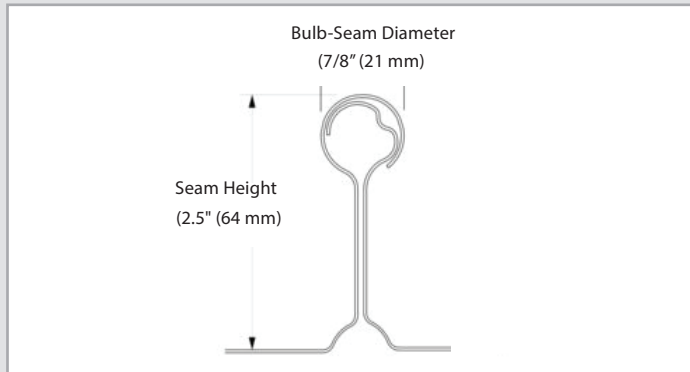
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The hinged clamp design provides versatile solar mounting on “bulb-shaped seam profiles  $\leq 7/8$ ” (22 mm) in diameter.

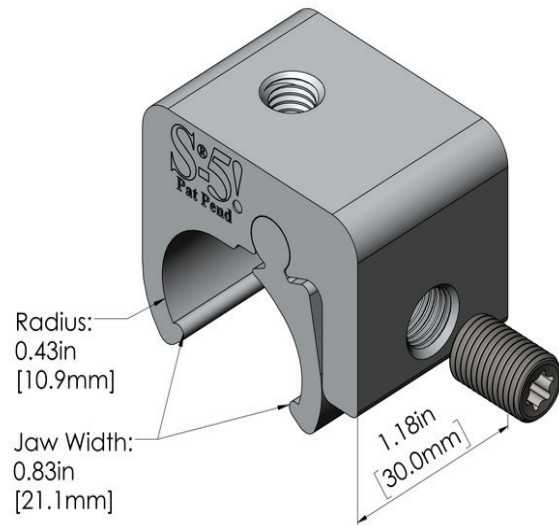
The **S-5-ZH Mini clamp** is each supplied with 300 series stainless steel hardware, pictured on the right. Each box also includes a bit tip for tightening setscrews using an electric screw gun. The S-5-ZH is a structural aluminum attachment clamp, compatible with most common metal roofing materials (excluding copper). Please visit [www.S-5.com](http://www.S-5.com) for more information including CAD details, metallurgical compatibilities and specifications.

**S-5!® holding strength is unmatched in the industry.**



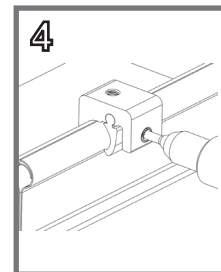
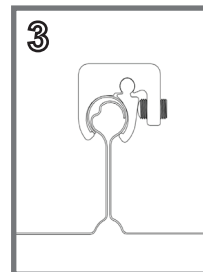
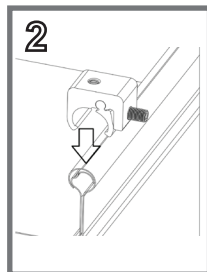
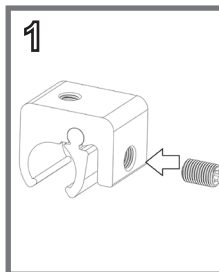
**Bulb-Type Standing Seam**

## S-5-ZH Mini Clamp



## Installation Simplified

The S-5-ZH is as quick and easy to install as other S-5! clamps. Position the clamp and hinged insert at desired location along the seam. It may be necessary to place the clamp onto the seam first and then slide the hinged insert into the clamp body. Once the clamp is positioned over the seam, tighten the round-point Torx Drive (T30) setscrew to the specified tension. Then, affix ancillary items using an M8 bolt (sold separately) or PVKIT.



### S-5!® Warning! Please use this product responsibly!

Products are protected by multiple U.S. and foreign patents. Visit our website for complete information on patents and trademarks. For maximum holding strength, setscrews should be tensioned and re-tensioned as the seam material compresses. Clamp setscrew tension should be verified using a calibrated torque wrench between 160-and 180-inch pounds when used on 22ga steel, and between 130-and 150-inch pounds for all other metals and thinner gauges of steel. Consult [www.S-5.com](http://www.S-5.com) for published data regarding holding strength.

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