

Installation Instructions

S-5!® Warning! Please use these products responsibly! Visit our website or contact your S-5! distributor for available load test results. The user and/or installer of these parts is responsible for all necessary engineering and design to ensure the S-5-H90 has been properly spaced and configured.

Notice to S-5! users: Due to the many variables involved with specific panel products, climates, snow melt phenomena, and job particulars, the manufacturer cannot and does not express any opinions as to the suitability of any S-5! assembly for any specific application and assumes no liability with respect thereto. S-5! products are tested for ultimate holding strength on various profile types and materials. Visit www.S-5.com for more details. This document is an installation guide only and the photographs and drawings herein are for the purpose of illustrating installation tools and techniques, not system designs.

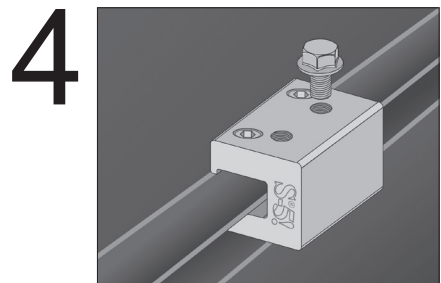
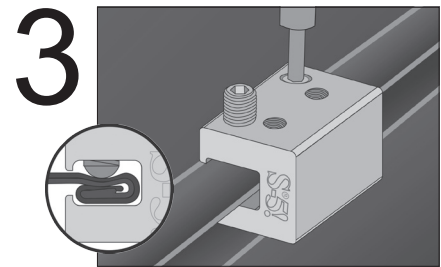
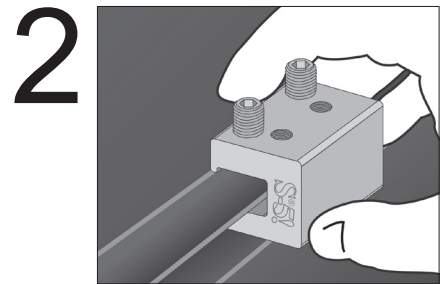
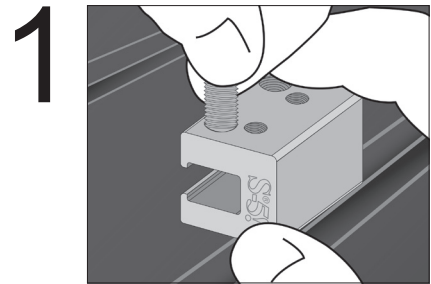
The S-5-H90 is designed and made specifically for standing seam profiles with a horizontal fold. For these applications, the setscrew(s) must be accessible from the top for tightening; visit www.S-5.com for more details.

Tools Needed

- Screw Gun
 - 3/16" Allen Bit Tip (provided)
 - Dial-Calibrated Torque Wrench*
- (*For accurate tension values, do NOT use a clicking torque wrench)

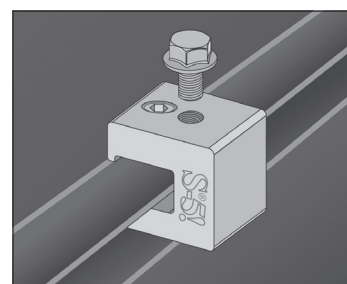
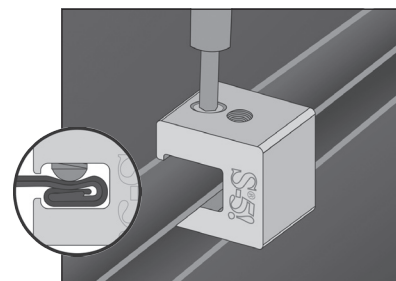
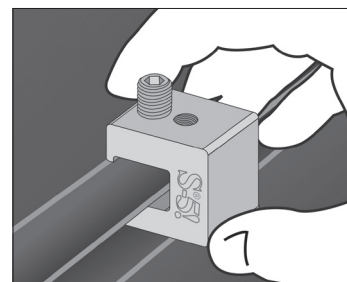
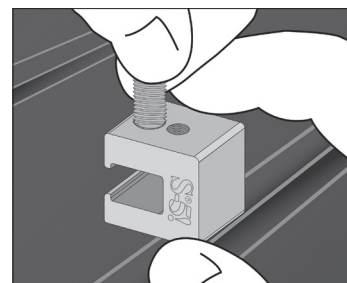
To Install the S-5-H90

1. Partially thread the setscrews into the clamp by hand.
2. Turning the clamp 90 degrees so that the bolt hole side is facing up, slip the clamp on the seam and tighten the setscrews.
3. Tighten the setscrews at the base of the clamp using a screw gun and the included screw gun bit tip. Setscrews should be tensioned and re-tensioned as the seam material compresses, i.e. tighten the first setscrew, then the second; then repeat until each setscrew achieves the recommended torque. The setscrews will dimple the seam material but will not penetrate it. 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. Once installed properly, these clamps require zero maintenance or inspection for the life of the roof.
4. For attachment applications, tighten the included M8-1.25 X 16 mm Hex Flange Bolt to 13 foot pounds.



To Install the S-5-H90 Mini

1. Partially thread the setscrew into the clamp by hand.
2. Turning the clamp 90 degrees so that the bolt hole side is facing up, slip the clamp on the seam and tighten the setscrews.
3. Tighten the setscrew at the base of the clamp using a screw gun and the included screw gun bit tip. The setscrew will dimple the seam material but will not penetrate it. 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. Once installed properly, these clamps require zero maintenance or inspection for the life of the roof.
4. For attachment applications, tighten the included M8-1.25 X 16 mm Hex Flange Bolt to 13 foot pounds.



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Products are protected by multiple U.S. and foreign patents. Visit the website at www.S-5.com for complete information on patents and trademarks. For maximum holding strength, setscrews should be tensioned and re-tensioned as the seam material compresses, i.e. tighten the first setscrew, then the second; then repeat until each setscrew achieves the recommended torque. 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 the S-5! website at www.S-5.com for published data regarding holding strength.

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