

## SNOW DIVERTER Installation Instructions

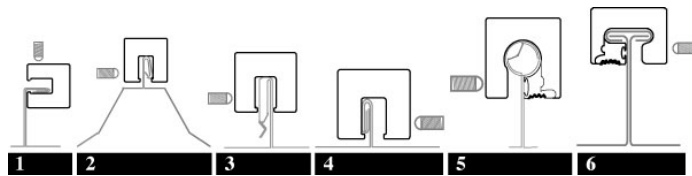
The LMCURBS Snow Diverter is constructed of .125" 3003 aluminum and is fully welded. The standard Snow Diverter is mill finish aluminum or can be coated to color match your roof. The Snow Diverter is installed onto the standing seams of the metal roof using S-5!® clamps. The clamps are constructed of extruded aluminum and utilize stainless steel hardware limiting possibilities of corrosion. The S-5!® clamp attach to the panel seam by the tightening of two "bullet-nosed" stainless steel setscrews against the seam material. (This is usually done with an industrial grade screwgun.) The setscrews compress the seam material against the opposite wall of the clamp. They will "dimple" the seam material, but will not penetrate it. S-5!® offers a variety of clamps to accommodate the many profiles on the market today. (Clamps must be installed in accordance with the S-5!® installation instructions)

### LMCURBS Snow Diverter Placement

The Snow Diverter shall be installed upslope of the object to be protected. The apex of the Snow Diverter shall face upslope allowing the snow & ice to be diverted to the adjacent pans. A minimum separation of 6" shall be maintained when determining the placement of the Snow Diverter. Once location has been determined, mark and install clamps.

### S-5!® Clamp Installation

Determine how to position the clamp and which side of the clamp to load the setscrews into. When attaching to machine-folded seams (regardless of panel profile and geometry), S-5! clamps are designed to engage the seam as shown (4). For horizontal seam applications, the setscrews must be accessible from the top for tightening (1). On many snap-together type seams, the setscrews are opposite the open (or overlap) side of the seam (2). On some seams, this aspect of clamp orientation is not critical (3,5).



Some S-5! clamps have up to four setscrew locations to make the clamp more versatile. Only two setscrews are used per clamp. Position the clamps appropriately on the panel seam.(see diagram above) Both setscrews should be in the same side of the clamp. NOTE: The bolt hole shall be in the **downslope** orientation.

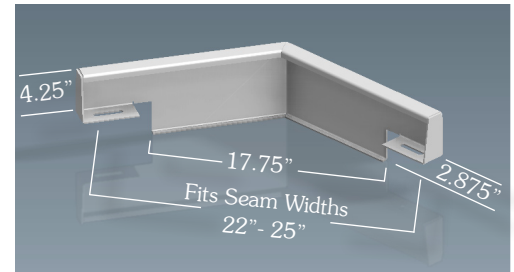
When installing clamps on roof panels which utilize a two-piece panel attachment clip, the clamp may be installed at a clip location if desired. When the panel system utilizes a one-piece clip, installing at clip locations should be avoided. NOTE: Some horizontal seams may require additional hand crimping at the clamp location.

### Torque Information

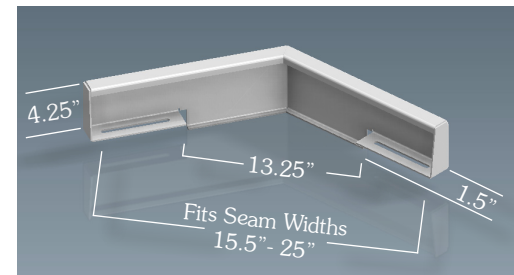
Load testing of S-5!® clamps is done with setscrews tensioned at 115 inch pounds (24 gauge steel and all other metals) or 150 inch pounds (22 gauge steel profiles). When relying upon published load values, for maximum holding strength, setscrews should be tensioned and re-tensioned as the seam material compresses. Screw tension should be verified using a calibrated torque wrench between 160 and 180 inch pounds when used on 22 ga steel and between 130 and 150 inch pounds for all other metals and thinner gauges of steel.

Using a 3/16" allen wrench attachment tip (provided with the clamps) (on a 1/4" drive screwgun), tighten and retighten setscrews as the seam material compresses. On shorter seam profiles, a 4" bit extension on the screwgun will facilitate this work.

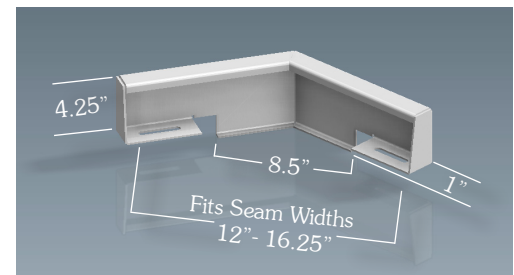
**Caution:** Battery-operated guns may not deliver consistent screw tension. Drywall guns may not deliver adequate tension.



(Model SD-24 shown)



(Model SD-1624 shown)



(Model SD-1216 shown)



(Model SD-AG shown)