







SNOW RETENTION

S-5![®] ColorGard[®]

VERTICAL SEAM ROOF SNOW RETENTION



When snow accumulations begin to melt, the result can be catastrophic as the blanket of snow avalanches off the roof, dumping tons of snow onto anything in its path. The patented S-5!® clamps make ColorGard® the strongest, easiest to install, and best priced solution for standing seam metal roofs.



S-5! Clamps



RSG505
For use with panel:

- Dutch Seam
 - · Colonial Seam



RSG500 For use with

90° & 180° seams:

- 1" FLL
- 1½" FLM
- 2" FLR
- 2%"- FLS

S-5! SnoClips



RSG507

For use with panel:

Isoleren RL



RSG520

For use with seam heights:

- 2" FLR
- 2%" FLS



RSG525

For use with seam heights:

- 1" FLL
- 1½" FLM
- 1½" MRD
- Colonial Seam

S-5! Unpunched Crossmember



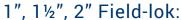
RSG530

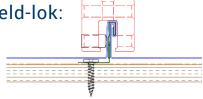
S-5! VersaClip™

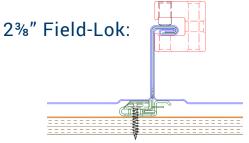


RSG510

CLOSE UP OF CLAMPS



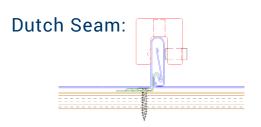




Colonial Seam:







OTHER VERTICAL SEAM ROOF SNOW RETENTION METHODS

AP 400 Snow Guard





- Seam mounted with set screws
- Does not puncture seam when properly attached
- Can be mill finish or painted to match

MODULAR METAL ROOF PANEL SNOW RETENTION OPTIONS:

Snow retention systems can be used to reduce potential damage to surrounding elements including plants, property, pedestrians, roof top units, and flashing assemblies. They can also be used for water management to prevent ice dams at valley areas of the roof. ATAS' snow retention systems are easy to install and can be perfectly color matched to your roof.







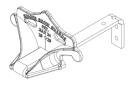


CastleTop, Standing Seam, & Advanta Shingle Snow Retention

RSG100







ScanRoof Snow Retention

RSG151

Installation Guide: S-5-U Clamp System & ColorGuard







Partially thread the set screws into the clamp by hand. (The S-5-U has four set screw locations to make the clamp more versatile; however, only two set screws are used per clamp. Both set screws should always be loaded into the same side of the clamp.)

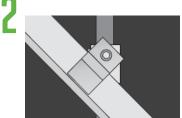


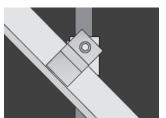




Tighten the set screws using a screw gun and the included screw gun bit tip. Set screws should be tensioned and re-tensioned as the seam material compresses. The set screws will dimple the seam material but will not penetrate it. When relying on published load values, set screw tension should be verified periodically using a calibrated torque wrench as indicated below to ensure the tool is consistenly achieving the proper torque range.

For critical attachment applications utilizing an M8-1.25 x 16 mm Hex Flange Bolt, tighten the included M8 bolt to 160 inch pounds (13 foot pounds).

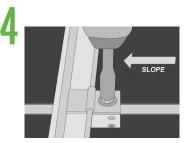




When seam spacing is not divisible by 4", when panels are not laid up true-todimension, or when ColorGard is installed askew to the panel seams, the VersaClip facilitates installation. The VersaClips are inserted into the ColorGard prior to placement of ColorGard on the clamps. Align clips with S-5! clamp. VersaClip can be used with punched or unpunched ColorGard.



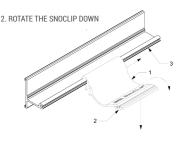


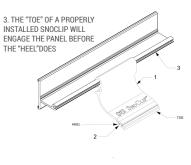


Attach ColorGard to clamps with the stainless bolts provided. Bolts can be tightened with a 1/2" (13mm) box-end wrench, or ratchet. On larger jobs, a 1/2" drive electric impact will expedite this work. Tension bolts to a minimum of 13 ft-lbs (18 Nm). Trim ColorGard at the end of the assembly, being sure it does not cantilever more than 4" beyond the last clamp of an assembly. Any trimmed piece of ColorGard must be attached with at least two clamps.

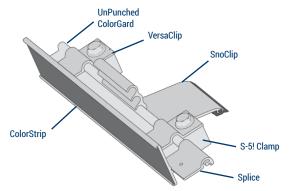
Installation Guide for S-5! SnoClip RSG525







Ilustration of Complete Vertical Seam Roof Snow Retention System



Recommended Torque Pressure

Specified Torque	Inch Pounds	Foot Pounds	Nm
22 ga Steel	160-180	13-15	18-20
All other metals and thinner gauges of steel	130-150	11-12.5	15-17