



**Robertson**   
Robertson Building Systems



**Snow Retention** Systems  
*Managing Snow Accumulation on Metal Roofs*

# Snow Retention Systems Mitigate the Risk of Dangerous Avalanches

## *Snow Retention Systems: Proven Industry Solution*

Robertson Building Systems is pleased to offer metal roof snow retention systems. Installing snow guards helps preserve your metal roof, maintains roof warranties, and allows snow drifts and snowmelt to exit the roof in a more controlled manner. Whether installing on a new roof or retrofitting an existing one, engineered metal roof ice guards are the smart and safe way to help prevent a dangerous rooftop avalanche.

### **Snow Guard**

Snow guards, also known as snow retention devices, help keep snow in its place, allowing it to leave the roof slowly. Robertson offers two types of zero-penetration snow guards: pipe-style and fence-style.



## *Take Control of the Situation*

Your snow retention system is designed to help control and contain the snow sitting on the rooftop, encouraging it to leave the roof slowly, either in small amounts, evaporation, or as melt water, helping to prevent a potentially dangerous avalanche.

You can't predict a rooftop avalanche, but the science behind it is predictable. As snow falls onto a roof, a temperature-sensitive bond forms. As the roof warms, that bond is broken, and a thin film of melt-water lubricates the slide. Without snow guards, a sudden release of snow can come tumbling off the roof. The sheer weight of the snow can cause serious injury to bystanders as well as cause major damage to property, roof panels, vehicles, and surrounding landscape. Furthermore, when a rooftop avalanche occurs and dumps an immense amount of snow in and around the building foundation, you run the risk of causing direct damage to building walls and indirect damage caused by runoff from melt water into building walls.

## *Snow Retention Systems are Specifically Designed for Your Roof*

Robertson customizes an engineered snow retention system solution for each individual metal roof. We take into account snow load, panel width, roof slope, roof length, and assembly length to determine the exact type of system you need as well as to calculate the number of snow guards required for your snow retention system. Snow guards are essential for maintaining roof integrity, and they can be installed on new roofs or easily retrofitted over existing roofs.



# Zero-Penetration Snow Retention Systems for All Metal Roof Profiles

Whether your roof is standing seam or exposed-fastened, Robertson offers an engineered snow retention solution to meet your needs.

## Snow Retention Systems for Standing Seam Roofs

Robertson is proud to offer the ColorGard® Snow Retention System manufactured by S-5!®. Designed for all standing seam roofs (SSRs), including Double-Lok™, Ultra-Dek®, BattenLok™ HS, and LokSeam®, ColorGard perfectly matches the color of the roof, creating a seamless transition from roof to snow retention system, offering functionality without compromising aesthetics. ColorGard by S-5! is the only snow retention system good enough to be warranted for the life of the roof\*.

ColorGard is attached to SSRs using S-5! roof clamps. This non-penetrating rooftop hardware is engineered for attaching equipment to flanged materials and SSRs without violating roof warranties. Manufactured in USA from mill-finished, aircraft quality aluminum, the ColorGard System includes the following components:

### ColorGard® Crossmember

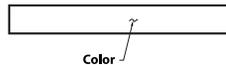
For use with all SSR  
Systems



ColorGard crossmembers do not require holes as the VersaClip accommodates any seam spacing requirements.

### Color Strip

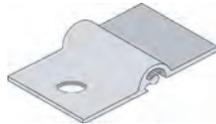
For use with all SSR  
Systems\*\*



The color strip is secured to the front face of the ColorGard crossmember. The gauge and color will match the roof panel color and finish.

### VersaClip™

For use with all SSR  
Systems



VersaClip facilitates easy installation, as it simply slides on the crossmember. This sliding function allows for the convenient installation of off-center snow guards.

### Splice™

For use with all SSR  
Systems



The splice clip joins two pieces of ColorGard together, ensuring continuous, unbroken protection. The dimple in the center is designed to provide a gap, allowing for expansion and contraction of the ColorGard sections.

### SnoClip™ III

For use with all SSR  
Systems



The SnoClip III is designed to prevent ice that forms on the metal panel's surface from sliding under the ColorGard assembly. One clip per panel is required.

### S-5-H90 Clamp

For use with  
BattenLok® HS SSR  
System



The S-5-H90 is a one-piece clamp that was developed to securely and cost-effectively accommodate metal roof panels with a horizontal seam greater than 0.65-in. Turning the clamp 90 degrees so that the bolt hole side is facing up, slip the clamp on the seam and tighten the setscrews.

### S-5-V Clamp

For use with Ultra-  
Dek®, Double-Lok®,  
and SuperLok® SSR  
Systems



The S-5-V is a versatile clamp that fits vertical-folded seam profiles including most structural and architectural profiles. The clamps attach to the panel seam by tightening the round point stainless steel setscrews against the seam.

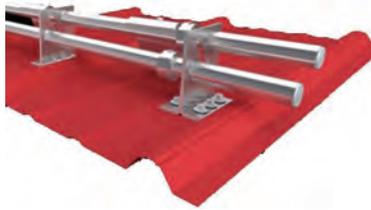
\* Please visit S-5.com for details about our limited warranties.

\*\* Not provided by S-5!

# Snow Retention Systems for Exposed-Fastened Roofs

Robertson offers snow retention systems for exposed-fastened roofs too. Pair VersaBracket™ 47, 67 with ColorGard® for trapezoidal roof profiles. For a two pipe-style snow guard, use VersaGard™ with your exposed fastened roof profile.

## VersaGard™



The VersaGard bracket can accommodate a wide range of roof profiles. The advantages of VersaGard also lie in its factory-applied butyl sealant and the S-5! reservoir that protects the sealant from UV exposure, drying and cracks. While the circular holes in the vertical part of the bracket supports 1.0-in pipes. Six points of attachment are provided for holding strength. With no messy sealants to

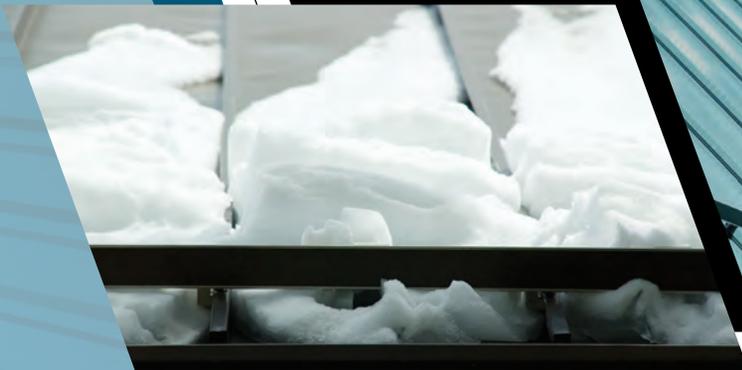
apply and no chance for leaks, these brackets dramatically reduce the risks associated with rooftop avalanches while offering an aesthetically-pleasing snow retention design to complement your roof profile and design.

## VersaBracket™ 47 or 67 with ColorGard®

With the S-5! VersaBracket 47 or VersaBracket 67, there are no messy sealants to apply and no chance for leaks. VersaBracket comes with factory-applied butyl sealant already in the base, and the S-5!-reservoir conceals the sealant from UV exposure, preventing



drying and cracks. The VersaBracket is strong enough for heavy-duty applications. VersaBracket 47 or VersaBracket 67 is the perfect match for attaching S-5!'s ColorGard snow retention system to most trapezoid shape roofs.



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