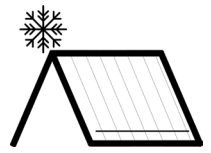




Case Study – The Ford Amphitheater

ColorGard® | S-5-U™ Clamp | SnoClip™ II



At-A-Glance

Project Name

The Ford Amphitheater

Location

Colorado Springs, CO

Architect

BCA Studios

Engineer

Martin and Martin Engineering

General Contractor

Executive Custom Construction

Roofing Contractor

Highline Roofing

Roof Profile

Berridge Double-Lock Zee-Lock, 24-gauge standing seam metal

Industry

Entertainment

The Situation

The Ford Amphitheater is a spectacular, entertainment venue. Its mountainous location makes it prone to extreme weather conditions, including snow, ice and wind. The venue needed a penetration-free, fully engineered, aesthetically pleasing snow retention solution that would both match the roof and last the life of the roof.

The Result

ColorGard was custom-designed and engineered for this project to mitigate potential rooftop avalanches, which could pose a serious threat to performers, concertgoers and equipment below.

Project Stats

- Roof Measured: 14,580 square feet
- Roof Pitch: 4/12
- S-5! Products Supplied:
 - ColorGard® (200 Linear Feet)
 - S-5-U™ clamps
 - SnoClip™ II



The Project

The Ford Amphitheater is an 8,000-seat outdoor venue nestled in Colorado Springs, Colorado, offering stunning views of Pikes Peak, fondly known as “America’s Mountain.” The venue is beautifully framed by the United States Air Force Academy stadium to the left and the striking, iconic Air Force chapel to the right, creating an unforgettable setting for any event.

It features a combination of permanent seating, 92 luxurious fire-pit suites and a spacious lawn area for those who prefer to enjoy the concert under the stars. It’s designed to deliver a top-tier concert experience for the residents of southern Colorado, without the need to trek up to Red Rocks Amphitheater in Denver (another S-5! snow guard project).

The stage cover boasts a sleek 1-1/2-inch Berridge Double-Lock Zee-Lock, 24-gauge standing seam metal roof, equipped with the S-5! ColorGard® snow retention system, including the S-5-U™ clamps and the SnoClip™ II. Finished in a striking Matte Black color to match the roof, the roof seamlessly complements the venue’s modern aesthetic.

The Challenge

The new 14,580 square foot roof, soaring up to 70 feet above the stage floor, is exposed to extreme weather conditions, including high winds (up to 100 mph), snow and ice. Without an effective snow retention system, snowpack and ice could easily escape, posing a serious risk to performers, concertgoers and expensive equipment.

Also, given the large scale of the roof and the "Class 6 Assembly" facility—designed for public gatherings—the installation of a snow retention system was not only crucial for safety but also required to comply with building codes.

A high-quality, long-lasting aesthetically pleasing snow retention system was necessary to prevent snow and ice from sliding off the metal roof, ensuring the safety of all in the venue while maintaining the structure's aesthetic integrity.

The Solution

Standing seam metal roofing is renowned for its exceptional performance in high-wind conditions, due to its attachment methods and interlocking installation where roof panels are joined together and attached to the building's structure, reducing the ability of wind to disrupt the panels. Metal roofing lends itself to high-wind areas because it can be engineered during the design phase to easily withstand nearly any uplift force.

Extensively tested for load-to-failure, ColorGard dramatically reduces the risks associated with rooftop avalanches, offering enhanced safety. Its sleek, seamless appearance not only perfectly matches the color of the roof, but also elevates the overall aesthetic with a visually appealing look.

"S-5! products are the best for any application and were the only products considered for our roofs."

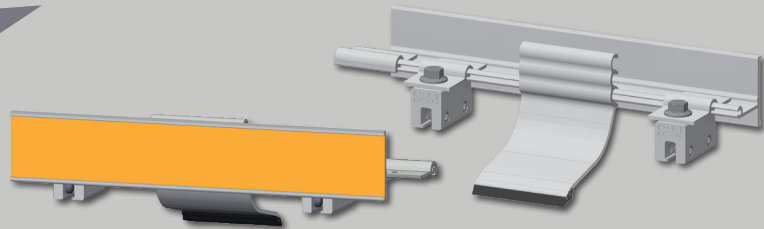
—Austin Matheny, project manager,
Executive Custom Construction,
Colorado Springs, CO



How Did ColorGard Help?

- Provided the aesthetic solution the architect desired and low-profile solution resists wind uplift
- Provided safety measures to performers, staff and concertgoers below
- Eliminated the risk of a voided roof manufacturer warranty—no holes/no damage
- Reduced the amount of product and cost required due to S-5! documented holding strength and engineered system capacity

ColorGard® by S-5!



Long-Term Outlook

The Ford Amphitheater was able to achieve the quality look it wanted with a snow retention system that maintains the roof integrity, mitigates potential rooftop avalanches and complements the look of the roof, providing a clean appearance and perfect color- and finish-matching, designed and engineered to last the life of the roof.

"We've incorporated S-5! into our scope of work because we know firsthand how effective it is. At Highline Roofing, we use nothing but S-5! It is easy to install, and we are fully comfortable using the system. No other product color matches like S-5!, and they offer versatile solutions for a wide range of roof profiles."

—Eduardo Vazquez, Owner, Highline Roofing, Aurora, CO

Amphitheater Photos provided by JB Creative @jbccreative



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