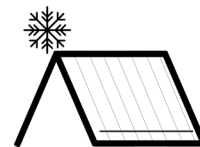




Case Study — Church For All Nations

S-5-WindClamp™ 2X | ColorGard® | S-5-U Clamp



At-A-Glance

Project Name

Church For All Nations

Location

Colorado Springs, CO

Architect

Doug Gleason Associates

General Contractor

Church For All Nations

Construction Consultant

Rob Haddock, CEO & Founder of S-5!

Mechanical Contractor

Heating and Plumbing Engineers

Roof Profile

Main Roof, 24-gauge Varco Pruden SSR, trapezoidal, double-folded standing seam metal roof; Porticos, 1-3/4" snap seam

Situation

The church had a variety of needs to mount ancillaries to its metal rooftop from HVAC to Christmas decor, satellite dishes, security camera equipment, conduit pipes and more. They also needed to protect its roof from heavy snow slides and high-wind events in the area.

The Result

The S-5! product line of clamps have proven their durability while providing a simple, secure and economical solution for mounting ancillaries to the church's metal roof for more than 20 years. The non-penetrating clamps do not compromise the roof integrity and have eliminated the risk of voided roof warranties.

Industry

Religious

Project Stats

- Roof Measured: Main building 235" x 435"
- Roof Pitch: 4/12 on the main roof and porticos; 1/12 on additional side wings
- S-5! Products Supplied:
 - WindClamp™ 2X (200)
 - ColorGard® (1,000 linear ft.)
 - S-5-U Clamps (300)



The Project

Church For All Nations is a dynamic, growing, multi-cultural body of non-denominational Christian believers, with two campuses in Colorado Springs and mission outreach throughout the world.

The Northeast campus features a 49,000-square-foot, engineered Varco Pruden metal-clad building with a Varco Pruden SSR metal roof.

Attached to the roof are various S-5! metal roof attachment solutions, including the **WindClamp™ 2X**, designed to increase wind uplift performance; the **ColorGard®** snow retention system to prevent rooftop avalanches; and the **S-5-U** clamps to secure the roof-mounted HVAC equipment—all without penetration of the SSR.

The church also utilizes S-5! clamps for mounting Christmas decor, satellite dishes, security camera equipment, conduits and more.

The Challenge

When the church building was first constructed, the mechanical contractor wanted to mount the HVAC system and associated gas lines to feed the equipment on the building's metal rooftop. The church turned to S-5! for a solution.

Another challenge arose after a blizzard passed through and a large amount of snow slid off the upper roof causing thousands of dollars in damage to most of the mechanical and HVAC infrastructure, so again, the church turned to S-5! for a solution.

Finally, years later, a severe windstorm of 90 mph gusts swept through, resulting in partial roof damage. The wind had lifted up the front edge of the roof, peeling back the roof on its gable ends. Church For All Nations needed a long-term solution to protect and preserve its roof. Again, they turned to S-5!

“Poorly cared for roofs are budget killers. Our church has had its share of roof problems throughout its history. When we built our new building in 1998 we made a commitment to take very good care of our roof infrastructure. The S-5! product line has been an incredible asset to helping us maintain our commitment, and we’ve appreciated the partnership that we’ve had with the folks at S-5!”

You not only get a quality product that stands the test of time, but you benefit from a relationship with a family and a team that stands behind their products. Our snow guard system looks the same as it did the first day we installed it, which is a testament to the quality of the product.”

—David Cowart, Operations Manager, Church For All Nations

The Solution

The S-5! team recommended the **S-5-U** to mount the HVAC system based on its heavy duty-application and the roof’s particular profile.

To address the ongoing potential risk of sliding snow and rooftop avalanches, the church selected **ColorGard**, custom-designed and engineered to dramatically reduce these risks, providing safety to the church patrons and property, while also preserving building aesthetics, which was extremely important to them.

To protect and preserve the roof against the area’s strong winds, the **WindClamp** was chosen. The WindClamp is placed over the roof’s seams at designated intervals to prevent multiple modes of failure, including seam separation and clip disengagement. This enabled Church For All Nations to preserve its roof and gave them peace of mind that their roof will serve the church community for years to come.

How Did S-5! Products Help?

- Provides an aesthetic solution
- Eliminates the risk of a voided roof manufacturer warranty—no holes/no damage
- Reduces the amount of product and cost required due to S-5! engineered system capacity
- ColorGard provides safety measures to both church patrons and property – especially the HVAC unit and pedestrian and vehicular traffic at entries and porticos.
- WindClamp 2X dramatically improves wind uplift strength and performance, providing a highly cost-effective solution to preserving the church’s roof.
- WindClamps can bring older roofs into compliance with current codes and wind standards, and have proven to dramatically increase – and often double wind resistance.



Long-Term Outlook

S-5!’s non-penetrating clamps utilized by the church for a variety of applications will continue to protect and ensure the service life of the roof for years to come.

The church no longer needs to worry about sliding snow or rooftop avalanches, and after the recent WindClamp retrofit can be rest assured it will withstand the next extreme wind event.



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