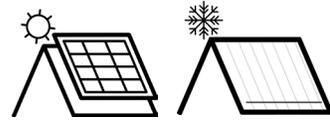




# Case Study — S-5! Corporate Headquarters

**DualGard™ | X-Gard™ 2.0**  
**ColorGard® | PVKIT®**



## At-A-Glance

### Project Name

S-5! Corporate Headquarters

### Location

Black Forest, Colorado Springs, CO

### Architect

PWN Architects and Planners, Inc., Denver

### Construction Manager

Construction Management Group of CO, Colorado Springs

### Roofing Contractor

Weathercraft Company, Colorado Springs

### Solar Developer

Spear Commercial & Industrial, Texas

### Module Manufacturer

Trina

### Inverter Manufacturer

Enphase

### Office Roof Profile

Drexel/New Tech 24-gauge, 1-1/2" x 16" double-fold, standing seam

### Support Building Roof Profile

Rigid Global

### Industry

Commercial

### Project Stats:

**Office Roofs Measure:** 7,300 sf

**Support Building Roofs Measure:** 3,250 sf

**Pitch of Roofs:** 3:12

#### S-5! Products Supplied:

##### Office North Roof:

- DualGard™ (64)
- DualClip™ II (63)
- DualPipe™ End Cap & Collar - 4 sets (1)
- DualPipe™ w/splice (22)
- S-5-E™ Mini (128)

##### Office South (Solar) Roof:

- X-Gard™ 2.0 (79)
- X-Clip™ II (78)
- S-5-E™ (158)
- NEX® Pipe w/splice (28)

##### Support Building ("Barn"):

- ColorGard® UnPunched (18)
- S-5-H™ (100)
- SnoClip™ III (98)
- VersaClip™ (100)

##### Solar PV System:

- S-5-E Mini (450)
- PVKIT MidGrab (in black - 360)
- PVKIT EdgeGrab (in black - 90)
- PVKONCEAL



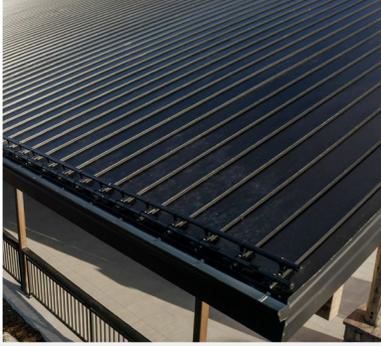
## The Project

Located on 4.5+ acres in the heart of Black Forest, Colorado, the two-story office building sports exterior and interior metal finishes and comfortable yet provocative space for S-5! The adjacent support building houses the company's video training center, a prototype shop and test facilities.

The office space is a true representation of the beauty of Black Forest with design elements unique to the area and throughout Colorado, yet also expresses commercial and industrial elements representative of the industry S-5! serves—a goal for owner, Rob Haddock.

The use of native timber and natural moss rock is harmonious with the rustic mountain rural and local architecture. Corten steel (sometimes known as weathered steel) also provides a rustic appearance to the building exterior. The office features a pre-painted Galvalume® Drexel Metals 24-gauge, low-gloss black PVDF standing seam roof supported by hand-peeled log trusses and was rollformed onsite using a New Tech Machinery roof panel machine.

Just outside the city limits of Colorado Springs, this building's interior features comfortable yet efficient workspaces and a familial environment with enough room for the business to grow. With gathering places for staff to visit and collaborate, the building clearly reflects the company's culture, ethos, style and persona.



### The Challenge

Many roadblocks were encountered from conception to completion, but a clear vision, persistence and perseverance paved the way for what is now an office that many business owners could only dream of.

To begin, finding a location in Black Forest that was suitable was no easy feat. After nearly 10 years of searching, Haddock approached the veterinarian who owned the animal clinic that had burned to the ground during the Black Forest Fire of 2013. He sold the property to Haddock, and in 2018 an architect began the plans for the new corporate office.

In 2019, construction of the support building began and was completed roughly 18 months later. Then, construction on the main office building began.

Several stressful situations occurred throughout the entire process of the office build, from formal rezoning, issues with fire protection, escalated costs due to COVID, material and subcontractor availability and more, including the unexpected passing of the principal architect.

In terms of aesthetics, it was a challenge to blend rustic with modern; homelike but industrial; pragmatic but functional with old country-style appointments. This was executed as a team effort, between Haddock, his wife, Robyn, and local interior designer Candace Wilcken.

### The Solution

The S-5! corporate office space is the achievement of a lifelong dream for Haddock. In search of a workplace that “feels like home and a family gathering place,” Haddock wanted to blend into Black Forest in a “tasteful and non-intrusive, non-disruptive way, and wanted it to feel like it ‘belongs’ here, not stuck here.” Having spent the past 50 years as a proud resident and active member of the community, it was imperative for him that his new office be constructed in Black Forest.

The site is at 7,500 feet elevation and is known for heavy snowfall, so structure and snow retention were over-designed for 40+ psf. The office design is dual shed roofs offset by a clerestory. The support building is a gambrel roof typical of traditional barn architecture. Three different snow guard systems were utilized to showcase some of S-5!’s most popular systems.

On the south side of the office building, **S-5! X-Gard 2.0** was used to accommodate the rooftop solar installation. The north office roof below the clerestory showcases **S-5! DualGard**. Both systems are powder coated in black to match the roof color. The adjacent support building features **S-5! ColorGard**, which allows for an aesthetically pleasing finish, color-matching the deep grey of the pre-painted Galvalume® roof.

The south side of the office features a 53kW solar array mounted with the company’s very own **PVKIT direct-attach™** solar mounting solution. The PV system will provide 84 MWh annually—and together with energy saving lighting and climate controls, up to 75% of the facility’s power.

### How Did S-5! Products Help?

- Provides an aesthetic solution
- Provides safety measures to both pedestrians and property below
- Reduces the amount of product and cost required due to S-5! engineered system capacity
- Eliminated the risk of a voided roof manufacturer warranty—no holes/ no damage
- Reduced cost of solar PV, enabling a 30-month simple payback period

“I was honored when Rob contacted me about roofing S-5!’s new office building. We have installed S-5! products on schools, retail shopping centers, mountain properties, and at 14,100 feet on the top of America’s Mountain, Pikes Peak. We trust S-5! because their products are engineered, tested and manufactured to the highest quality, and we can always trust that their systems will work as designed.”

— John Fleming, President, Weathercraft Company of Colorado



The Right Way™ | (888) 825-3432 | www.S-5.com

