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EDITOR'S NOTE



United Steel Supply getting business done at the 2024 Construction Rollforming Show.

Fall Shows and a New Magazine

t's June, so now's the time to start thinking about fall trade shows. As I write this, FRSA is looming. Sadly, I'll miss it and the Western Roofing Expo, which will be held at the Paris Las Vegas from September 29-October 1. (The Construction Rollforming Show is October 1-2 in Dayton, Ohio, and I just can't miss that one — it's my favorite show.)

Then, of course, there's the granddaddy of metal-in-construction trade shows: METALCON, which will be held at the Las Vegas Convention Center from October 21-23. On my "favorites" scale, it's a close second to the Construction Rollforming Show.

Which leads me to the main point of this note: Which of the fall trade shows will you be attending this year? What are your objectives when you go? If I know which shows you attend and why, it helps me better meet your editorial needs and wants. If we have too much (or not enough) coverage about shows, it will help us remedy the problem.

Also happening this fall—as you'll see on page 45—we're launching Plain Builder magazine, a business-to-business publication that covers the news, companies, products, and information for construction professionals in, or doing business with, the Plain Communities. One of the features in this new quarterly magazine is "What Do You Build?"—a gallery of projects built by the Plain Communities.

If you have projects you'd like to share in Plain Builder, send me a photo, your company name, and location for publication. If you learned any tips or tricks in the process, please send them along so we can share your lessons with readers. If you have any questions about the new magazine, feel free to reach out to me.

Karen Knapstein karen@shieldwallmedia.com P.S. Please take note of the new Metal Roofing phone numbers on the masthead on page 5.

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CONTENTS

FEATURES

- 6: Business Profile Snap Z: Keep Looking Ahead
- 10: Best Practices Commercial Roof Seaming
- 14: Flashback 2005 Aluminum: A smart material for metal roofs
- 17: Best Practices For Through-Fastened Panels
- 20: Snow Ice Metal Mitigation In Roof Design
- 24: Melting Strategies Beyond Snow Retention

26: Snow • Ice • Safety

Safety Considerations of Snow & Ice on Metal Roofs

28: Preventing Damage Panels & Trims on the Jobsite

31: Safety Update Do you need dash cams?

38: Case Study Coating Prolongs Roof Life

45: Construction Survey Insights

Making business decisions based on data

DEPARTMENTS

- 3 Editor's Message
- **34** Business Connections
- **39** Supplier News
- **42** Project of the Month
- **45** Construction Survey Insights



AUGUST PREVIEW

Residential TrendsMetal on Log Homes

GO TO PAGE 13 TO SUBSCRIBE TO MORE FREE MAGAZINES

ON THE COVER:

The remote location of this residence in Colorado meant extra challenges for Axtell Mtn Construction ... but they handled it very well. Courtesy of Axtell Mtn Construction, www. axtellmtnconstruction.com.



CORRECTION:

In the Metal Roofing IDEA Book, the web address was incorrect for the Englert project located on page 18. Englert's correct web address is www.englertinc.com. Metal Roofing Magazine regrets the error.

INDEX OF ADVERTISERS

Company	Page	#
AceClamp	2	29
Acu-Form	3	6
AppliCad Software	1	5
ASC Machine Tools Inc		5
ASCO USA, Inc.		4
Aztec Washer Company	3	4
Direct Metals Inc	3	6
Dynamic Fastener	IF	С
EPDM Coatings	3, 3	5
Everlast Metals	3	4
Flotrace Heat Tracing	2	5
Formwright	3	4
FRSA		9
Golden Rule Fasteners	3	5
Gutterdome Manufacturing		37
Hixwood	2	9
IMETCO - Innovative Metals Company	Inc3	3
Kevmar Manufacturing	3	5
Levi's Building Components	1	9
Little Harveys	3	5
Marion Manufacturing	3	6
Metal Rollforming Systems	1	8
Perma-Column LLC	3	5
Pine Hill Trailers	3	4
Planet Saver Industries / GreenPost	3	5
Postsaver Europe Ltd	3	4
Raytec Manufacturing		11
Red Dot Products, LLC		37
rFOIL Reflective Insulation	3	4
Roll Former LLC	3	9
Roper Whitney	4	41
S-5!		21
Samco Machinery		37
Snap Z		.7
SpeedLap LLC	3	5
SteelGrip SAMM, Inc	3	6
Storage Xpress Corp	3	37
United Steel Supply	3	4

RE Summer

Certainteed	FLIP 5
Levi's Building Components	FLIP 2
MFM Building Products	FLIP 7



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Keep Looking Forward

Snap-Z's Mindset for Success: Keep paying attention and keep learning.

By Linda Schmid

How It Began

In 2001, Manny Glick began installing metal roofs, and in 2013 he started Glick Metal, producing standing seam roofing components. He used a New Tech roll former and a Variobend brake to create standing seam metal. Manny was bringing his machine to job sites and manufacturing the panels, thereby avoiding the usual problems attendant on packaging and shipping, such as damaged panels and late deliveries.

The interesting thing when you immerse yourself in an industry, you hear about the challenges people have. Manny heard complaints about ridge vents, and he began looking at the options, soon realizing that the products on the market all had drawbacks including trying to cut them to size on the jobsite. That got Manny to thinking...maybe he could solve that problem.

He started experimenting with his CNC folder. He wanted something that would be ready to go for the roofer, easy to install and would do a good job of venting the metal roof without letting rain in. After about a dozen designs, he had it, and Snap-Z was born.

Of course, the product had to be tested. At a TAS-100 facility his Snap-Z Ridge Vent was tested for rain and driving snow with gigantic fans that generate hurricane-force 110 MPH winds blowing water around. This test was instrumental in attaining approvals in states with more stringent criteria. The sales representative got to work and soon they had thousand-piece orders. Once salespeople from suppliers got wind of



Manny Glick, President

this new product, they wanted to sell it, then post-frame product distributors began calling the company.

"We pre-cut these vents," Manny said. "There's no cutting for the contractor anymore; they just snap it in at the exact length they need. They are probably saving time and labor costs of 50%. Plus the external fasteners necessary for other products can create all kinds of divots in the metal."

How It Grew Into the Business It Is Today

The company did very well in 2015, and they really ramped up sales and marketing efforts in the years that followed, streamlining the manufacturing process, and bringing in new people to handle the load. The Snap-Z vent was recreated in sizes to fit all standing seam heights, expanding the product's usability and customer base. Metal coil is supplied by Liberty Painted Products, and to keep up with production Snap-Z is now roll formed with a custom roll former, said co-owner Chris Glick.

The company accomplishes distribution through dealerships, which can include anyone that has a roll former and a brake. They have dealers in all 50 states including Alaska and Hawaii. With many distributors and customers in every state across America, the company has grown significantly. The goal is customer service and product availability.

Challenges and Lessons

As for so many, the material shortages during the COVID-19 period were some of the company's most challenging situations. However, Chris said that one way or another they were usually able to come up with the materials their customers needed. Though their delivery was slower during that time, they have loyal customers who did not desert them...after all, everyone was in the same boat.

Chris doesn't see the rising costs of materials as a problem because, just like the COVID-19 supply shortages, it will affect everyone.

Employee acquisition has not posed much of a challenge, as Chris said they always try to look ahead at what is coming and plan for enough resources ahead of time. Sometimes that means hiring a little more heavily than is needed at the moment, but it has always proven the better option than waiting until they are overwhelmed and then trying to get employees in the door, trained, and up to speed instantaneously.

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Snap-Z was awarded its 10th Metal of Honor award in 2025.

Employee turnover has been very low. "The trick," Chris said, "is to find out what motivates your employees. It is pay for some people, a positive environment for others, still others may need to be left alone to do their job and not feel micromanaged. But keep them informed and listen to their ideas," he advised. "The employees are in the shop every day seeing the quirks in the system, and if they can improve it, I let them do it," he added.

It seems the company has not been overly challenged by any circumstances, but perhaps that is just the company mindset. Chris tells people, "If you make a mistake, apply whatever lesson you learned and move forward." He encourages people to "Be forward thinking, keep paying attention, and keep learning."

Culture

The culture, Chris said, is professional, yet relaxed and open. The business is small, employees work hard, they are very knowledgeable, and they all pull together and help each other out.

The company's mission is to provide great service. Service can be as simple as answering the phone; replying to emails in a timely fashion, and making yourself accessible to customers; striving to get shipments out promptly and providing tracking numbers. Place your emphasis on the doing rather than the talking Chris advised.

Looking Ahead

"The future of the metal roofing industry is wide open and it's very exciting for the metal industry," Chris said. "Metal roofing is a better option than some of the roofing available. It's lightweight, environmentally friendly, energy efficient, and it performs better in a fire. It usually achieves a Class A fire rating.

"California's wildfires have the potential to reshape the industry. You hear of a



Chris Glick is a Snap-Z Salesman and Volunteer Firefighter.

push in the West for fire-resistant products to be required," Chris said.¹

As the metal industry grows and gets more market share, Chris plans to grow the company along with it, continue to develop and improve their product. **MR**

¹ Currently, the International Wildland-Urban Interface or aspects of the code have been adopted in nearly 200 jurisdictions across 24 states and at the state level in Montana, Nevada, Pennsylvania, Utah, and Washington, according to the International Code Council.





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Commercial Roof Seaming

Guidance for mechanically seaming commercial and industrial roofs

By Karen Knapstein

etal roofing is the fastest-growing segment in the roofing industry. If you're not incorporating a mechanically seamed standing-seam roof system into your offerings, you're missing out on a significant opportunity. However, proper seaming techniques are critical for ensuring the long-term durability and weather resistance of commercial metal roofs.

Understanding Mechanical Seaming

Mechanical seaming involves using specialized machines and hand tools to join the standing seam ribs of metal panels, creating a weathertight, secure connection. Unlike snap-lock



An up-close look at a machine from DI Roof Seamers. SHIELD WALL MEDIA PHOTO.

Resources

DI Roof Seamers • www.diroof.com Malco Tools, Inc. • www.malcotools.com Roll Former LLC • www.rollformerllc.com Metal Construction Association Roof Seaming Best Practices Guide • https://bit.ly/3RWblwb

systems that simply snap together, mechanical seaming bends and locks the panel seams, delivering superior structural integrity and resistance to environmental forces. Every roof system comes with its own specifications, and failing to follow them can void warranties and compromise performance. Panel manufacturers invest substantial time and money developing and testing panels to ensure they meet uplift and engineering requirements—key factors in supporting a warranty. For a roof to achieve its specified wind-load rating and weather resistance, every panel must be properly seamed; any skipped or poorly formed seam leaves the system vulnerable to wind uplift or moisture intrusion.

Commercial Roof Seaming

Commercial and industrial roofs offer greater reward but also carry greater risk. Because there's far more square footage, profits can be larger—but so can potential losses if seaming is mishandled. Always use the proper seamer and understand the panel manufacturer's process (many of which offer training). Don't cut corners on your seaming equipment; on a typical commercial roof job—often totaling \$100,000 or more—poor seaming can cost far more than the seaming machine in the long run.

Commercial metal roof systems differ significantly from residential standing-seam designs. Materials vary from the heavier roof clips used to fasten panels to the deck, to panel dimensions and gauge. Residential systems typically use 26- to 24-gauge painted steel (or 0.040" painted aluminum), whereas commercial systems start at 24-gauge steel or 0.040" aluminum and more commonly employ 22-gauge steel or 0.032" aluminum. Commercial and industrial panels often feature a 2" rib or a 3" trapezoidal rib; lower slopes and greater snow loads in some regions necessitate taller mechanically seamed ribs.

To achieve precision seaming on metal roofs, every profile requires its own custom setup. The systems differ so significantly that it's important to understand that the equipment used

PRODUCT FEATURE

to seam each system is different. If you're working with 22-gauge material, you need an industrial-strength seamer. Always consult your OEM or supplier, run test seams for fit and finish, and verify that you have the right equipment before you tackle any real roof. Confirm that panels meet the manufacturer's dimensional specifications. Seamers are precision tools; using the exact seamer engineered for your panel system is the only way to guarantee a watertight, long-lasting roof.

Signs of Trouble

Watch for clues that something's off during installation improperly formed seams are the root cause of leaks, wind uplift failures, and voided warranties. If the seamer drifts off-track or crimps panels out of alignment, check the panel specs. Equally important is the fit between the male and female legs: any gap between them spells trouble for a clean seam. The moment you spot a buckle or uneven roll in the seam, stop work, diagnose the problem, and replace the defective panel; it's far easier to swap out one bad panel than to replace many—or an entire roof.



Roll Former LLC's SS Industrial Seamer is designed to "Single Lock" and "Double Lock" a 2" high "Armco Style" mechanical lock standing seam panel in 22-24 gauge steel and .040" aluminum. PHOTO COURTESY OF ROLL FORMER LLC





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PRODUCT FEATURE



Another power seamer from Roll Former LLC. The switch at the front of the machine deactivates it once it loses contact with the seam so it won't run off the edge of the roof. PHOTO COURTESY OF ROLL FORMER LLC

Best Practices

Keeping operations smooth and safe on the rooftop starts with preparation. Always be aware of where you and your machine stand in relation to the panel ends and the roof edge, and never compromise on safe practices while seaming. Before you set foot on the roof, practice both hand-seaming and powered runs on test strips in your shop or on the ground—that practice will pay off in speed and accuracy once you're up on the roof.

The electrical feed to the seaming machine must deliver the full 20 amps at 120 volts at the machine. If you're drawing power for other tools on the same circuit, the service and cord capacity must be increased to match the combined demand. Voltage drops over long or undersized cords will cause motor overheating and burnout. The Metal Construction Association recommends the following extension-cord sizes:

Distance (ft)	0-50	50-100	100–200	200+
Wire Gauge	12	10	8	6

Make sure to hand-crimp panels correctly to load and start the seamer. Hand crimping locks panels in place after layout and before seaming, and it creates the perfect starting "bite" for your seamer. If the machine doesn't lock onto the seam easily, something is amiss—never force it. As you install, crimp panels tightly at laps: those end laps carry twice the material and

Best Practices At A Glance

1. Safety First

Pay close attention to where you and the seamer are in relation to the end of the roof panel. Safety should always be at the forefront of any roofers mind while seaming standing seam panels.

2. Practice

Create test panels and practice both hand and power seaming in your shop. Mastering the technique beforehand saves time and prevents costly mistakes on the job site.

3. Ensure Adequate Power Supply

Use a 10-gauge extension cord no longer than 100 feet to prevent power loss. If using a generator, ensure it produces at least 2500 watts and has a 20-amp plug. Inconsistent power can damage the seamer's motor and brushes.

4. Panel Placement

Install panels in modulation and crimp tightly at laps. End laps contain double the material and need extra attention to prevent seaming issues.

5. Proper Crimping

Hand-crimp thicker seam locations near clip positions to help the seamer glide smoothly over these areas.

6. Loading the Seamer

When aligning the seamer, ensure the locking handle pushes down easily. If it doesn't, identify and fix the issue before proceeding. Forcing the handle can distort panels and damage the machine.

7. Maintain Cleanliness

Keep panels free of dirt during seaming to avoid damaging the tooling. Walk on adjacent panels rather than those being seamed to minimize disruptions.

require extra attention. When you encounter thicker sections near clips, a quick, tight hand-crimp keeps the seamer gliding effortlessly.

Most people think the jump from installing snap-lock or through-fastened roofs to mechanically seamed systems isn't that big of a deal. But seaming correctly is critical, so putting this vital process in the hands of someone who is inexperienced is far from a best practice. When you bring on a new operator, pair them with a seasoned pro or have them work directly under an experienced supervisor until they've built enough skill and confidence to go it alone.

Conclusion

Mechanically seamed roof systems deliver exceptional strength, weather resistance, and longevity—provided today's best practices are followed. By investing in the right equipment, training, and attention to detail, you safeguard warranties and ensure every roof you seal stands up to the elements for years to come. **MR**



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FLASHBACK 2005



This article was originally published in the August/September 2005 edition of Metal Roofing Magazine.

Metal Roofing Magazine was born as a supplement to Rural Builder magazine in 1999. A few more supplements were published in 2000. In 2001 it was elevated to a standalone magazine, and today it is over 20 years old.

If you have a metal roofing project on a historic building, we'd love to see it, and share it with our readers!

Contact Karen Knapstein, karen@shieldwallmedia.com, forwarding all the information you have about the materials used, challenges faced, and a few hi-res photos. In the meantime, enjoy a bit of metal roofing history!



The Musket Ridge Country Club in Myersville, Md., boasts an aluminum roof from Petersen Aluminum. A total of 7,000 square feet of .040-inch PAC-CLAD aluminum in Black Matte was chosen by the club. PETERSEN ALUMINUM PHOTOS

A smart material for metal roofs

By Michael Petersen, Petersen Aluminum

ompany name aside, Petersen Aluminum sells as much steel roofing material as it does aluminum. Both products feature specific attributes and all qualified commercial roofing contractors have the experience and expertise to install both.

So why isn't aluminum used more extensively? The primary obstacles have been cost per square foot and misimpressions concerning the structural limitations of aluminum. Recent innovations in panel design, though, have served to significantly broaden the application range for aluminum panels and several aluminum profiles are now



© NORSK HYDRO PHOT

available from a number of manufacturers that carry the UL 580 Class 90 wind uplift rating.

Despite recent inflation in steel costs, the initial installed cost of aluminum remains higher than steel, but that is not the end of the story. In many areas of the country, I would contend that a full analysis of life cycle benefits might actually show aluminum is less expensive than steel. In my experience, building owners are increasingly deciding to use aluminum when they are fully informed of its advantages.

"It's a life cycle issue ... aluminum delivers a longer service life, in general," says Tom Hutchinson, director of moisture protection for Legat Architects of Chicago. "The cost of aluminum has never been an issue for us."

For architectural metal roofing, Legat uses aluminum for approximately 75 percent of its projects. The remaining 25 percent is mostly copper and zinc.

"The cost of aluminum is not an issue for us," says Jim Donovan of Westar Roofing Corporation in Chesapeake, Va. "We quote on two to three jobs per day and have never won or lost a job due to the cost difference of aluminum. The increased cost is only pennies. The cost of labor is the real issue, not the material. The cost of aluminum is just not a factor except maybe in the heavier gauge aluminum."

Corrosion resistant

An intrinsic attribute of aluminum is its corrosion resistant properties — a significant advantage over steel. In the typical architectural application, G-90 galvanized steel or AZ 55 Galvalume steel is coated with a full Kynar 500 fluorocarbon finish. Either substrate provides adequate protection in a "normal" environment unless and until it is abraded.

"Not having to worry about rust becoming a problem, that's a big thing," says Guy Grove a roofing contractor with R.D. Bean in Beltsville, Md. "If we can, we like to use aluminum."

Surface scratches can cause the

Aluminum At A Glance

• Aluminum has a higher cost per square foot than steel — roughly 15 percent — and pricing has been somewhat volatile.

• Proponents say its light weight and workability may make up the cost difference in labor savings on many jobs.

- On average, aluminum's recycled content is 55 percent.
- Aluminum has two times the expansion/ contraction rate of steel, and may require modifications in flashing design.
- .032 is the typical gauge for most aluminum applications.

- Source: Petersen Aluminum AIA presentation

corrosion process to accelerate. This is particularly the case in acid rain regions, coastal areas, and other aggressive



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FLASHBACK 2005



environments. In such areas the advantage quickly switches to aluminum due to its superior corrosion resistance. Most manufacturers' warranties specifically exclude corrosion of the substrate. Petersen's experience during the past 30 years is that aluminum is the better substrate for those applications where substrate corrosion might be a concern.

"We recognize that in the construction and installation process, scratches and damage occur," Hutchinson says.

"We have a lot more trouble with steel products, particularly on cut and trim work," Donovan says. "The edges tend to rust and cause problems. Aluminum holds up better."

Designer friendly

Corrosion resistance isn't the only reason aluminum is gaining popularity. The material is notably "designer friendly" and works well in fabricating even the most complex designs. Aluminum is easier to work with than steel and is generally available in a wider range of gauges than steel, thereby making it easier to coordinate fabrication of the various exterior metal components for your project.

"It's easy to handle, particularly the super long panels that are commonplace," Hutchinson says. "It's easy to manipulate, even the thicker gauges."

Aluminum features significantly lower weight per panel — in some cases a contractor might be able to use one installer versus two. It's easier to cut and work in the field. This all adds up to



labor cost savings

"The reason we prefer aluminum is that we know that the guys in the field will cut copings to make them fit," says Rick Morrison, architect with Grimm & Parker of Calverton, Md. "For dormers and valleys, and other aspects of a complicated design, aluminum is an absolute must."

Donovan says, "Aluminum works much better in handling and forming. It's lighter to handle and can be stored on the roof during installation without having to worry about the weight of steel. The guys can handle it better, too."

Environmentally friendly

Aluminum also scores well in sustainable design. A typical aluminum roof panel includes 90 percent recycled content and it is fully recyclable when necessary. Combined with a solarreflective Energy Star-listed "cool" coating, aluminum roofing is an excellent choice for a LEED qualified project.

Petersen has heard from architects that they prefer aluminum and use it every chance they get — particularly when they are working directly with building owners. They feel the additional cost of aluminum is inconsequential compared to the overall "value" enhancement of the project. In any assessment of overall life cycle and long-term maintenance costs, though, the choice between steel and aluminum begins to even out. And if your project is based in an acid rain environment or direct coastal area (or come to think of it, if you live in one of the Blue States!), you should strongly consider aluminum. **MR**



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Through-Fastened Panels

Follow Installation Best Practices for Maximum Roof Longevity

By Linda Schmid

istakes will happen now and again, and they can lead to leaking roofs or aesthetically displeasing roofs, panels blowing off in the wind, or other issues. None of the results are going to be positive for you, your customer, or your reputation. While you can't avoid mistakes altogether, you can lessen the likelihood of errors if you know the main things to watch for. We will provide some tips for proactively avoiding mistakes, too.

What Are Some Prevalent Mistakes?

Naturally there are any number of mistakes that an installer could make, but we will focus on the more common mistakes that manufacturers run across.

One of the errors that we heard from several industry professionals: Make sure the roof decking is solid when you are re-roofing over the existing roof. A roof that has leaked can indicate that the decking could be in poor condition.

"If you are unsure about the decking, remove the shingles and underlayment and check the decking. You may find that some of the decking is fine and you need only replace a part of it, or you may need to replace the whole thing," said Noah Oberholtzer of Hixwood.

Even on a new roof, you should ensure the deck is half inch sheeting at minimum for a solid fastening.

Fasteners for Metal-to-Metal and Metal-to-Wood

By Dynamic Fastener

It is important to ensure that you are using the correct type of fastener, whether you are fastening metal to metal or metal to wood, to ensure a secure bond.

When fastening metal panels to wood, a sharp point or Type 17 fastener should be used. These points will allow the fastener to pierce the metal panel, without pre-drilling, and will provide good pullout values in the wood substrate. When attaching metal panels to metal framing a self-drilling fastener would be used. Base substrate thickness will determine whether a T3, T4, or a T5 would be necessary.

Different gauges and grades of metal factor into how to fasten metal roofing without making mistakes, too. Carbon steel self-drilling fasteners for attaching to metal are available in a range of drill capacities. #14 Dia. T1 fasteners should be used for light gauge metal to light gauge metal (.024" to .095" total steel thickness). They are commonly referred to as stitch screws, and are often used for flashing. #12 Dia. T3 fasteners are a structural fastener used for attaching light gauge metal to steel framing (.036" to .210" total steel thickness). #12 Dia. T4 fasteners are for attaching to structural steel (.125" to .375" total steel thickness). #14 Dia. T5 fasteners are for attaching to heavy structural steel (.250" to .625" total steel thickness). **MR**

Another common mistake is failing to ensure that your screws are not missing the purlins. "There are only about 1½" to work within," Oberholtzer said. "If you use a chalk line, it will help keep your fasteners straight, which will also help the roof's aesthetics.

Furthermore, if you are fastening metal with a wider purlin span, lower gauges of metal are required, and it is important to ensure that you adjust the fasteners used accordingly. Failing to make these changes can lead to oil canning.

Oberholtzer said, "The common gauges are 26 and 24; the

Preparing For a Through-Fastened Reroof Job

By Best Buy Metals

Before you decide to install a metal roof over existing asphalt shingles, you need to answer a number of important questions:

1. How many layers of shingles are currently installed?

Most building codes allow you to install a metal roof over 1-2 layers of shingles, but no more. Verify codes in your area before installation.

2. Is the roof decking (OSB, plywood) in good condition?

Thoroughly inspect the decking and replace any areas that are in disrepair.

3. Are the shingles laying flat or buckled?

If the current shingle roof is distorted to the point that you see high buckling rows, remove them to ensure they don't transpose through the new roof.

4. Does the model of metal roofing recommend going over shingles?

While most metal roofing panels allow roof-overs, it is best to check.

After you've considered these questions and you feel confident the roof is a good fit for a roof-over, here are some tips to get you off and running

1. Before installing the new roof, you'll want to cut the shingles flush to the fascia at the eave (gutter edge) and rake (sloped edge). This ensures they won't be seen or interfere with panel and trim flashing for the new roof. The old drip edge may need to be cut off as well, depending on the type of metal roofing and metal roof flashing that will later be installed.

2. Install underlayment between the shingles and the new metal roof. This can be synthetic underlayment (preferred), 30lb felt, or a double bubble radiant barrier; and keeps the rough surface of the shingles off the backside of the metal roofing.

3. You can replace or supplement the underlayment with 1×4 or 2×4 lathing strips run every 2' or so up the roof. These provide an air gap for additional insurance, provide a framework to walk on (especially beneficial on steep roofs), and if your rafters are bowed they can be shimmed up to straighten the roof and eliminate sagging. While eave and rake trims are always important, they are especially crucial when 1×4 or 2×4 lathing is installed, to help hide the edges of lathing around perimeters.

4. Even if you leave your shingles, you will need to remove ridge venting material and caps. In addition, metal roof pipe flashing will be needed for round pipes and penetrations. Also, metal roof flashing will still be needed around chimneys, skylights, and where roofs hit a wall (sidewall or endwall). MR

BEST PRACTICES

thicker the panel, the less likely it is to oil can."

"Heavier metal gauges are more forgiving," Shannon Clark of True Metal Supply said, "but you should also utilize higher quality metal alloys to improve performance and reduce the risk of oil canning. Provide proper support for the roofing panels during installation and use backer rods when needed, as well."

"Avoid long runs of roofing. Most panel manufacturers recommend keeping panels under 24 feet in length," Mike O'Hara at Levi's Building Components said.

The most-mentioned errors involving the fasteners is over- or under-driving the screws.

"One of the most common mistakes roofers make is overdriving or underdriving the fasteners," Clark said. "This can lead to leaks or allow the panels to shift over time. To avoid this, roofers should use tools with adjustable torque settings and stop driving when the washer compresses properly – creating a secure seal without overdriving. If the fastener has already been overdriven, the best fix is to remove it, and use an oversized fastener with a larger diameter shaft," she added.

Other problems with driving arise when installers drill screws at speeds that are too high. "Especially in metal to metal applications," O'Hara said, "the screw drill tip must be allowed to cut through the framing member."

Often, roofers make the mistake of using the wrong fastener

for the project. They may have overlooked the length and chosen screws that are too short. O'Hara said that most panel manufacturers recommend $1\frac{1}{2}$ " screws.

Jerod Webber of Dynamic Fastener said, "Installers should consult their screws supplier and provide them with application specifics. This will allow the supplier to recommend the correct fastener for the application.

The fastening pattern also seems to cause some problems for roofers. Oberholtzer said that often the typical install guide will recommend a screw every 2 feet. However there are projects where the architect will specify fasteners be placed every 16" or 12". It is always important to follow the steel manufacturer's/ architect's recommendations so that the panels are secure and not apt to pull up in a strong wind.

Another frequent mistake according to Clark is fastening through the rib instead of the flat part of the panel. "Fasteners on the rib have less bite into the decking, leading to movement and potential leaks."

Michael Vaughn of Fabral said that the results of installation errors are usually leaking, oil canning, and corrosion, and it can impact the warranty.

"These errors can lead to having to replace all or part of the new roof," Vaughn said. "To avoid this, installers can get certified training in installation of the metal panels."



BEST PRACTICES

Tips for Through-Fastened Panel Installation

• Before starting the job, make a checklist of everything you need, making sure that the components match the manufacturer's recommendations.

• Verify measurements before starting.

• Driving screws at an angle can cause washer distortion and leaks; make sure you are driving perpendicular to the surface.

• When fastening a panel to a framing member thicker than .210", use a #5 drill point screw. If the framing member is less than .210" thick, a #3 drill point should do the trick.

• Make sure that you are properly overlapping panels, applying the proper sealant and butyl tape as directed by the manufacturer to avoid leaking and corrosion.

• Avoid walking on panels as much as possible. If you must, walk on the flat of the panel that's already fastened in place.

• It's a good plan to have some members of the crew on the ground, while others work on the roof, so no one is dragging dirt, rocks, or debris onto the roof which could harm the panels.

• Wear soft-soled shoes. Don't walk on hot panels as they are more likely to dent.

• Foam kneeling pads or roof jacks can help distribute weight on the panels so they are not harmed.

• Take photos by phone or drone for quality control.

• Use a fastener with a premium coating and UV resistance

since it will be exposed to the elements.

• In extreme climates, use a sealant or tape under the fastener head for extra protection.

• In corrosive environments such as coastal areas, stainless steel, cap, or die cast head screws made with zinc and aluminum alloy are good choices.

• If fastening aluminum to steel, 300 series stainless steel screws will prevent galvanic corrosion.

• Choose a metal to wood fastener which has great sealing powers. For example the Atlas WoodUltimate Fastener has four sealing points to ensure a positive seal and a zinc head which offers a lifetime warranty against rot.

• Use a #12 or #14 screw if fastening into something other than solid wood. This will provide more holding power.

• Use a self drilling screw when fastening into steel.

• Use stitch screws on the panel overlap on lower pitch roofs to avoid ponding water.

• Avoid overdriving fasteners by using the proper tool.

• Consider using rigid board or spray foam under the panels. If batting is used, be careful not to compress the insulation. This causes a loss of R-value and can cause distortions in the panels.

• Read manufacturers' instructions every time because products may differ. *MR*

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When Snow and Ice Mitigation Becomes Integral to Your Roofing System

By Rob Haddock, CEO and founder of S-5!

Roof is far more than a simple structural covering—it's a crucial line of defense against the elements, a protector of property, and, fundamentally, a safeguard for life. While the allure of a pristine snow-covered roof might evoke a sense of winter wonderland, the reality is that uncontrolled snow and ice can pose significant threats.

Therefore, the question is not merely whether snow and ice mitigation can be part of a roofing system, but rather, under what specific circumstances should it be considered an integral and non-negotiable element.

In regions accustomed to substantial snowfall, the accumulation of snowpack transcends a simple aesthetic concern. The sheer weight of this "winter wonderland," often compounded by layers of ice, exerts considerable forces on the roof. Beyond the static load lies a more dynamic and potentially perilous phenomenon: the uncontrolled migration of snow and ice.

Pitched roofs, particularly those clad in materials boasting a smooth, lowfriction surface such as metal, offer little resistance to the relentless pull of gravity. The inherent slipperiness, while contributing to the longevity and low maintenance of metal roofs in many applications, becomes a critical factor demanding careful consideration in snowy climates.

The consequence of this lack of friction is the potential for rooftop avalanches the sudden release of accumulated snow and ice from the eaves. These events are not mere nuisances; they can unleash tons of snow in a matter of seconds, transforming a seemingly benign winter



Snow shedding from a metal roof has no mercy for whatever lies below. PHOTO COURTESY OF S-5!

scene into a hazardous situation. The discharge areas below the eaves become zones of significant risk, endangering pedestrians, vehicles, landscaping and even critical building components. In this context, the implementation of an engineered snow retention system transitions from a discretionary measure to a fundamental life-safety issue.

While the necessity of snow and ice hazard mitigation might seem selfevident in such challenging environments, building codes in North America have historically been less prescriptive on this matter compared to some alpine regions in Europe and Scandinavia, where snow guard systems are often mandated by building authorities. Here in the U.S., local code authorities may, in limited cases, require snow retention, but generally only in the worst of the worst snow accumulation topographies. The relative lack of explicit mandates should not lull building owners, designers and contractors into a false sense of security.

Beyond explicit code requirements, the specter of potential liability looms large. Building owners, designers and contractors bear a responsibility to ensure the safety of their projects and the surrounding areas. Inadequate or absent snow retention systems that subsequently lead to damage or, tragically, injury due to sliding snow can expose building owners to significant legal and financial repercussions. Implementing properly engineered and rigorously tested snow retention systems is not merely a matter of best practice; it is a prudent risk management strategy that can substantially

CLOSER LOOK





An S-5! ColorGard system prevents snow and ice from shedding to the ground below.

A discontinuous snow retention system. PHOTO COURTESY OF FIONA MAGUIRE-O'SHEA.

mitigate this liability.

The migration of snow and ice mitigation extends beyond simply preventing rooftop avalanches. Welldesigned snow retention systems facilitate the predictable and controlled evacuation of snow from the roof. Rather than the sudden and dangerous release of a rooftop avalanche, these systems allow snow to dissipate gradually through melting and sublimation. This controlled process is far safer and more manageable than relying solely on so-called "natural shedding," which, despite its seemingly passive nature, can pose significant hazards to anything or anyone in its path if pedestrian and vehicle traffic below the eaves cannot be reliably restricted. In situations where the building's surroundings - such as walkways, parking areas and entrances - cannot be designed or consistently managed to safely accommodate naturally shedding snow, the implementation of mechanical snow retention becomes a clear necessity.

Furthermore, the integration of snow and ice retention can offer ancillary benefits. For instance, strategically placed snow guards can provide added protection to rooftop appurtenances such as stack/flue bracing and vents, valleys and gutters from being damaged or dislodged by the force of sliding snow. While not a primary function, this added layer of protection contributes to the overall longevity and functionality of the roofing system and its components. When considering the implementation of snow and ice mitigation, the choice of system is crucial. Two primary approaches exist: continuous systems, such as snow bars or snow fences that run horizontally across the roof, and discontinuous systems, consisting of individual snow stops, blocks or cleats installed in a pattern. The selection often depends on factors such as the durability of each, aesthetic considerations and budgetary concerns.

Both types are typically installed at or near the eaves but may extend toward the





Wherever heavy snowfalls happen, snow shedding can be extreme.

ridge, relying on the cohesive and shear strength of the snow blanket to "bridge" between rows, or laterally from one discontinuous unit to the next.

Continuous systems are installed using either a clamping technique (nonpenetrating) or by fastening screws through the roof material into the structure (penetrating). Discontinuous systems are typically attached using the same methods but may also involve adhesives like "peel-and-stick" tape or pumpable glue. However, the Metal Construction Association (MCA) advises against adhesives due to high failure rates and damage to the roof.

Regardless of the chosen system,

quality assurance throughout the process is paramount. This includes selecting systems that are engineered and designed for the specific project's conditions, proven through certified testing to withstand the anticipated loads, and manufactured in audited facilities with stringent quality standards. The market for snow retention systems, while offering numerous solutions, has historically lacked comprehensive industry-wide standards, emphasizing the "buyerbeware" nature of product selection. Designers and building owners must therefore exercise due diligence in vetting manufacturers and scrutinizing their testing data, engineering calculations and

manufacturing certifications.

Compliance with emerging industry consensus standards, such as the International Association of Plumbing and Mechanical Officials (IAPMO) Evaluation Criteria 029-2018 and adherence to guidelines provided by organizations like the MCA and the International Code Council (ICC) are critical to ensuring the quality and reliability of snow retention systems. The MCA Technical Bulletin "Qualifying Snow Retention Systems for Metal Roofing" is harmonious with EC 029-2018 and is available at www. metalconstruction.org.

Main Takeaway

Snow and ice mitigation should be considered an indispensable part of a roofing system under a confluence of specific circumstances. Significant snowfall and "slippery" roof surfaces (according to ASCE-7) point to the hazardous potential for rooftop avalanches. The need to mitigate liability and reduce maintenance and damage remediation underscores the critical importance of incorporating effective snow retention measures. Furthermore, site constraints that preclude safe natural snow shedding and the need to protect rooftop appurtenances and flashings further strengthen the case for integrated mitigation strategies. By prioritizing engineered, tested and properly installed snow retention systems, building owners and designers can ensure the safety of their properties and the well-being of those in the vicinity, transforming the potential hazards of winter's embrace into a manageable aspect of responsible building design and maintenance. MR

Rob Haddock, CEO and founder of S-5!, is a former contractor, award-winning roof forensics expert, author, lecturer and building envelope scientist who has worked in various aspects of metal roofing for five decades. S-5! has achieved an Evaluation Report of compliance (ER) to IAPMO EC 029–2018 industry standard for testing and certifying snow retention devices.

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Beyond Snow Retention

Managing Ice Hazards on Metal Roofs with Heat Trace Cable

By Bronson Rumsey

n snow-prone regions, few roofing systems are as well-suited to winter conditions as metal roofs. Their sleek, hard surfaces naturally shed snowpack, and their unmatched durability often delivers a service life of 50 years or more. For homeowners and building owners alike, that combination of longevity and performance makes metal roofing a compelling investment—especially when paired with a well-designed snow management strategy.

The benefits of metal roofing are even more evident during heavy snow years, when accumulated snow can quickly turn from a scenic nuisance to a serious hazard. When large volumes of snow release suddenly from a sloped metal roof, they can damage landscaping, crush gutters, and pose real danger to pedestrians, vehicles, and property below.

That's where snow fences—or snow retention systems—come in. These systems are the subject of another article in this issue, and rightly so: they are an essential part of keeping snow and ice where it belongs—on the roof—until it can melt off gradually. However, the addition of snow retention brings with it a lesser-known, but equally important challenge: managing the meltwater that refreezes between a snow fence and the ground.

Snow Retention Systems: A Critical First Step

Snow fences and snow bars are designed to prevent large sheets of snow and ice from sliding off metal roofs in dangerous avalanches. By holding snow in place across the upper portion of the roof, these systems reduce the risk of damage and injury below. They are especially important above walkways, entrances, driveways, and high-traffic areas.

However, snow fences don't eliminate



Heat trace cable mitigates any ice formation below the snow fence. PHOTO COURTESY OF FLOTRACE HEAT TRACING.

problematic ice—they simply hold it. On sunny days or during midwinter thaws, the retained snowpack begins to melt. The meltwater travels down the roof slope, only to encounter the coldest part of the roof: the unheated overhang near the eaves. That's where a new problem begins to emerge—one that even the best snow fence can't prevent.

The Ice Zone: Ice Dams and Icicles Below the Snow Fence

The area between a snow fence and the roof edge becomes a prime location for ice formation. Meltwater flows beneath the snowpack until it reaches the eaves, where the roof surface is colder due to lack of insulation or attic heat below. There, it refreezes.

This cycle—melt, flow, freeze—repeats frequently in regions with fluctuating winter temperatures. Over time, it leads to the formation of ice dams: ridges of solid ice that block the natural drainage path of snowmelt. When that happens, water has nowhere to go and begins to pool behind the ice dam. On a metal roof, that water often seeks the path of least resistance under flashings, behind panels, or into seams—eventually infiltrating the building.

Alongside ice dams, icicles commonly form at the roof edge, where dripping water refreezes in long, sharp formations. These icicles not only pose a risk to people and property below but also add significant weight to the roof edge and gutters, increasing the risk of structural damage.

Gutters and Downspouts: Essential but Vulnerable

Many buildings rely on gutter and downspout systems to direct water safely away from the foundation and walkways. In fact, gutters are often installed precisely to mitigate the risks posed by uncontrolled water runoff—especially in areas where slip-and-fall hazards must be minimized.

However, in winter, those same systems can become a liability. Gutters, exposed to frigid air and shaded by roof overhangs, often freeze solid as snowmelt refreezes inside them. Once clogged with ice, gutters can no longer perform their function. Water backs up behind the ice, leading to overflow, sagging, cracking, or complete detachment from the fascia.

Downspouts are equally vulnerable. If meltwater can't move freely through a frozen downspout, it backs up into the gutter or onto the roof edge, exacerbating ice buildup and structural stress.

Ironically, while gutters are designed to improve water management, they can actually worsen ice damming if the system isn't properly equipped to handle winter melt.

The Solution: Creating a Melt Path with Heat Trace Cable

The good news is that these winter roof hazards are both predictable and preventable. The key lies in maintaining a clear, continuous path for meltwater to exit the roof and drain safely to the ground. That's where UL-listed self-regulating heat trace cable comes in.

Unlike constant-wattage cable, selfregulating heat cable adjusts its heat output based on ambient temperature. When temperatures drop, it produces more heat; when temperatures rise, it produces less. This makes it energy efficient and ideal for long-term, cold-weather operation.

Installed correctly, heat trace cable provides a controlled melt path through the very areas where ice tends to form. The most effective approach involves installing the cable in a zigzag or serpentine pattern between the snow fence and the roof edge. This pattern allows the cable to melt vertical channels through accumulating ice, ensuring meltwater has an open escape route—similar to carving drainage paths through a dam.

To visualize this, think of an ice dam as a miniature reservoir. When water collects behind it, it has nowhere to go. But if you create a breach—a hole through the dam—the water escapes. Heat cable performs exactly that function: breaching the ice and allowing meltwater to drain safely.

Gutters and Downspouts: Extending the Melt Path

The effectiveness of a melt path doesn't stop at the roof edge. If you have gutters and downspouts, they must also be part of the system. Installing self-regulating heat trace cable inside the gutter trough ensures that water flowing off the roof doesn't refreeze on contact. From there, the cable continues into the downspout, keeping the entire system open from roof edge to ground.

This continuity is critical. A melt path that stops at the roof edge or halfway down a downspout becomes ineffective if water encounters an ice blockage further down the line. Heat trace cable ensures a complete, uninterrupted flow path for meltwater.

Furthermore, if a structure lacks gutters

altogether, icicle formation can be even more severe. In such cases, heated gutters offer a valuable buffer between the warm meltwater and the cold roof edge. The cable inside the gutter catches and controls dripping meltwater, reducing or eliminating icicle formation entirely.

Working Together: Snow Retention and Heat Cable as a Unified System

It's important to emphasize that snow fences and heat trace cable are not competing solutions—they are complementary components of a complete winter roof management system.

Snow retention systems hold the snowpack in place. That's their job. But by doing so, they create predictable areas of melt and refreeze. Heat trace cable addresses this secondary challenge by ensuring that meltwater generated beneath the snowpack can exit the roof without obstruction. **MR**



Safety Considerations of Snow and Ice on Metal Roofs

armth, accumulated snowflakes and metal roofs can be a dangerous combination. Metal roofs have very smooth surfaces that don't absorb water. As heat from an attic or sunlight starts warming up a roof, masses of snow and ice can slide off these slick surfaces.

The resulting avalanches can be deadly. At the very least they can damage property and make it difficult for owners to access entryways. This is where the need for snow retention systems becomes crystal clear.

"No matter the pitch of the roof, if we're dealing with a metal roof in a location that can get snow, then snow retention is needed for safety," says Lars Walberg, president of Rocky Mountain Snow Guards. "It can be snow fences, snow bars or snow guards. Or a combination of the three. However, the slickness of metal roofs means responsible roofers should be strongly recommending snow retention systems to their customers."



A combination of snow guards and snow fence keep heavy snow from falling to the ground below. PHOTO COURTESY OF ROCKY MOUNTAIN SNOW GUARDS

Metal Roof for Fire Station

Harpel Builders out of Denver understands the need for snow retention systems. The company installs almost a dozen a year on their metal roofing



Silverthorne Station in Silverthorne, Colorado. PHOTO COURTESY OF ROCKY MOUNTAIN SNOW GUARDS

projects and sees that number growing. Recently they installed an 18-inch wide New Tech Machinery SS 200 2-inch mechanical double lock medium bronze standing seam metal roof with some additional smaller Carlisle TPO roof sections on the new Summit Fire & EMS fire station in Silverthorne, Colorado.

"The roof design we received simply called for 'a snow retention system' but didn't have a particular product specified," says Nicholas Scatuorchio, president of Harpel Builders. "In situations like this, we send the plans to Rocky Mountain Snow Guards to have their experts review them and make snow retention recommendations. We use this free service often and they always make the process trouble-free."

Snow Retention System at Silverthorne

For Station 10 in Silverthorne, the experts recommended to install a S-5!* ColorGard Bar-Style Punched Clamp-

CLOSER LOOK

to-Seam snow retention system for safety on and around the fire house that also has dozens of solar panels on its roof. Attached to the metal standing seam roofs with S-5!* V clamps, the system uses a Color Strip in medium bronze inserted into the front slot of the ColorGard crossmember to complement the color of the roof.

"The S-5! Systems are hands down my favorite type of snow retention product to use on standing seam metal roofs," says Scatuorchio. "They are the strongest imaginable, and we don't have any issues with them ripping off like other systems."

To impede the migration of snow and ice beneath the crossmembers, the team at Harpel Builders installed more than 10 dozen S-5!* SnoClip III for the ColorGard snow retention system. "Installation went great for all the products," says Scatuorchio. "The SnoClips are installed every 16 inches on center, one per every panel. This ensures uniformity for the snow retention.

"Overall, these are very easy products



A combination of discontinuous and continuous snow retention. PHOTO COURTESY OF ROCKY MOUNTAIN SNOW GUARDS

to install and look great on the roof. Most importantly, I believe they will be very successful for this fire station structure in helping prevent snow avalanching from the roof." For the project, heat tape was added to the gutters and seams to add another layer of melting support for snow and ice. Finally, lightning protection wiring was attached to the entire perimeter of the roof. **MR**

Tips for Safely Installing Snow Guards

t's not just about creating safe roofs with snow retention systems. It's also about roofers staying safe. The team at Rocky Mountain Snow Guards, which this year launched the first-ever National Snow Guards Safety Month in March, recommends these practices for roofing contractors to safely install snow guards:

Tip #1: Oftentimes snow guards are required to be installed within three feet of the eave. Depending on the property, it may be safer to work off a ladder or lift versus being on the roof for the installation.

Tip #2: Always, always tie off the ladder at the eave and make sure the base of the ladder is secure. Never set a ladder so there's just a foot or so above the eave edge. The ladder should be positioned high enough above the eave to allow enough space to get on and off it as safely as possible.

Tip #3: Follow all standard roof safety procedures. Don't take shortcuts. Use tie-offs and other safety equipment.

Tip #4: Make sure the roof surface is snow-, water- and

frost-free. Wet roofs are slippery roofs. This also means snow retention systems should not be installed during or immediately following a snowstorm. Roofers should not work on snowy, frosty or wet roofs.

Tip #5: For retrofit installation, put the snow guard in place, then tap the Woodbinder[®] screw into the strap on a Yeti or SnowTrapper (or any other snow guard with a strap that isn't pre-drilled) with a hammer or mallet prior to drilling. This keeps the Woodbinder screw stable during the actual drilling.

Tip #6: Mark the locations for snow guard placement on the roof before beginning installation. This can speed up the installation, keep you focused and eliminate a sloppy placement appearance.

Tip #7: Always follow the snow guard manufacturer's suggested layout. Many roofers assume they know the best pattern for snow guards. However, often what they know is different than the tested and proven layouts that the manufacturers recommend. **MR**

Metal on the Jobsite

Preventing Damage with Proper Handling

By Linda Schmid

veryone who builds or roofs with metal panels knows they are not indestructible. They can get scratched, flattened, or distorted. If the panels show up at the jobsite like that, it is the manufacturer's problem, but if it happens after delivery, that is something different. Even if you are not held responsible, it can slow down the job, lead to unhappy customers, and hurt your profit margin. It is definitely in your best interest to ensure that everyone on the jobsite works together to prevent damage to the materials.

The Usual Damage

Scratching of the panels is a common occurrence, often caused by one panel being dragged against another as a panel is lifted. It is important to ensure that you lift the panel up before moving it sidewise.

A special trim crate can help keep the trim separate from other materials which could scratch them during moving.

Kinks are another common problem, likely because long lengths of panel or trim can be unwieldy to transfer from one place to another. If carrying a panel by hand, hold it vertically, so the edge is toward the sky. Adding extra hands can help avoid damage; when carrying panels, the ratio should be one person per 12'.

If the wind is strong during installation, it can pick up a panel like a kite, which can kink the panel, and since the edges are sharp it can pose a threat to the installer.

Burning through the panel's paint is another concern. Two things that can cause this are: cutting panels or trim with a circular saw or pre-drilling stacks of panels. Both of these practices can cause hot sparks and pieces of metal that can harm the panel's protective coating. It can also be dangerous for anyone in the area including the person with the saw. Snips or shears should be used instead.



BEST PRACTICES

Dents and bends as well as damage to the panel's coating can occur if a skidloader or telehandler is used to unload the panels. Going slowly and carefully can usually resolve this, avoiding bumps to the panels.

Scratching, damage to the panel coatings, dents and edge deformation can all result from improper handling. If panels are carelessly carried, stacked unevenly or left in the middle of an active work site, any of this damage is possible.

If panels are left out in the open, moisture and prolonged UV exposure can damage panels also, beginning the process of breaking down the coating. If there is nowhere appropriate to store the panels on the jobsite to keep them out of the elements, then it is advisable to try to schedule the panels to arrive at the jobsite close to the time that installation should begin.

Much damage can be avoided if the metal panels arrive in shrink wrap and the protective wrap is left intact up to the moment they are going to be used.

Bad Habits

Sometimes people get into the habit of doing something they know they shouldn't because it is easier, and some of these habits lead to damage. Train yourself, employees, and co-workers to

Metal Handling Resources

Graber Post Buildings...... www.graberpost.com Hixwood.......www.hixwood.com Gable Steel.....www.gablesteel.com

avoid these habits:

• Walking on stacks of panels. Stacks do have high tensile strength, but damage can still occur.

• Using a dull drill bit which can scratch the metal. Also check that you are using the correct drill bit for the hole size and material.

• Attempting to move panels without appropriate support for the panels. For example, one crew tried to move wall panels without safety straps and large sections buckled and warped before installation was even begun.

• Storing materials on abrasive materials.

• Leaving unprotected panels on the jobsite for months before even beginning the job. At minimum, they should be protected by a tarp with the panels stacked at an angle so the water runs



off rather than pooling and damaging the paint. Ensure that panels enjoy sufficient air flow.

• Rushing through the material handling so that edge guards and proper stacking angles are forgotten.

• Forgetting that different materials need to be handled differently. For example, bare steel is more sensitive to time exposed to the environment than a coated panel. Coated and galvanized panels require careful handling to avoid damage to the protective coating. Softer materials like copper and aluminum require more support when handling than steel would. Plus these softer materials may also develop deviations if not gripped correctly. Aluminum is also highly prone to scratching.

• Failing to plan the installation workflow to minimize the amount of movement and handling the panels must endure.

Worker Damages

When workers are in a hurry to start getting the panels on the roof, that is often when safety procedures are left at the curb and accidents happen. Hurried workers will forget to put on their protective gloves before moving panels and they can end up with deep cuts requiring stitches and time off of work.

Personal Protective Equipment is important. Cut-resistant gloves, long sleeves, safety glasses, and leather shoes or bet-

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Gary Reichert • 715-952-1657 gary@shieldwallmedia.com ter yet, steel toed boots are advised to avoid personal damage around the panels.

Goggles are especially important to protect the eyes when a worker is using shears or fastening equipment as small pieces of metal can go flying.

Other equipment that can help in some cases are arm guards, hard hats, panel lifting tools and suction grips for lifting. Sitespecific equipment available for enhanced safety include edge protection devices, material carts, and padded slings.

An organized worksite with clearly defined areas for storage and handling can make a big difference in safety for both people and materials. Regular training refreshers can help keep safety top of mind.

When workers do not take safety seriously, not only can people get seriously hurt, material replacement can be necessary, the job may be held up, it can drive costs up, and it can hurt team morale. This is why a culture of proper material handling and safety protocols is so important. It's really a matter of efficiency for all your resources.

On the Roof

It is common to overdrive screws with an impact driver, causing dimples in the metal, which can look like oil canning, or even fracturing the panels. It can be helpful in this situation to use a screwgun or drill with speed control.

If the screws are not drilled to the proper depth, they can show through the panels for an uneven look. This can also happen with house wrap that is improperly installed or with uneven framing.

A slipping drill will scratch the panel surface. There are a couple of ways to remedy this. First ensure that you are not working with a worn drill bit and the chuck is tightened appropriately. Also check to see that the bit is centered in the chuck.

During the installation process, small scratches can occur because another panel or tool scrapes a panel. Then the installer uses paint to cover up the scratch. It is best to avoid aerosol, and pen paint can be used to specifically target the area where the scratch is. If the substrate is galvanized these small scratches should not hurt the panel as the zinc "self heals" the scratch.

To avoid over handling and stress on the panels, a sky track with a metal basket can run the panels along the eaves, also making access easier for the roofers.

Sometimes the installer does everything right, yet another tradesman comes through inadvertently damaging a panel or panels. This is why multiple inspections are necessary.

In conclusion, the majority of damage on the jobsite can be avoided by developing and abiding by some material handling procedures, including appropriate PPE, slowing down during the material handling phase (because the time you may save can be more than wiped out by an error or injury), and having a neat, organized jobsite with a planned workflow. **MR**

Dash Cams The Unsung Hero in the Fight Against Insurance Fraud

By Erin Gilchrist, IntelliShift

nsurance fraud, particularly staged accidents, is a potentially lethal threat that affects individuals and businesses, especially those that rely on a fleet of vehicles and heavy equipment. Builders, roofers, and shed-delivery professionals are especially vulnerable due to the nature of their work, which often involves traveling to remote or hightraffic areas. Fraudsters target commercial vehicles for their perceived high insurance payouts, leading to financial losses, operational delays, and reputational harm. Fortunately, dash cams offer a practical solution to reduce these risks.

The Rise of Staged Accidents and the Threat to Businesses

Staged accidents are on the rise and wreaking havoc on roadways nationwide. For example, New Jersey saw a 58% spike in staged accidents from 2022-2023, with New York following with a 14% increase. These crimes have been getting more recognition as videos have gone viral on social media platforms like TikTok, showing the incidents caught on the victims' dash cams. While some fraudsters target individual drivers, many exploit commercial vehicles, assuming companies will settle claims quickly to avoid lengthy disputes.

These claims often involve intricate setups, where fraudsters create conditions that make accidents appear unavoidable. For instance, some scams involve multiple vehicles coordinating to trap a commercial truck, forcing it to rear-end a car. Without clear evidence, such incidents can lead to costly settlements and even damage a company's reputation. These "accidents" can cost individual drivers hundreds of dollars in annual auto insurance premiums. The cost for a fleet of vehicles under a company's ownership would be far greater.

How Dash Cams Accelerate Claims Resolution

Accidents often lead to drawn-out disputes over fault, which can delay repairs and disrupt operations. Dash cams simplify the process by providing clear footage, allowing insurers to resolve claims quickly. This helps get vehicles back on the road sooner, minimizing downtime and keeping projects on track.

For a metal roofing company or supplier, for instance, swift resolution of a minor collision claim would help the company avoid delays in its delivery schedule, preserving client satisfaction and revenue. Additionally, faster claims processing reduces the administrative burden on fleet managers, freeing up time and resources for other critical tasks.

Deterring Fraudsters and Driving Down Costs

Dash cams capture real-time video evidence, providing clear documentation to refute false claims. In a recent case on a highway in Queens, footage from a dash cam exposed a staged accident, saving the victim significant legal and financial costs. For businesses reliant on timely project completion, such evidence is crucial in avoiding unnecessary disruptions and maintaining client trust.

The presence of dash cams also discourages fraudsters. Knowing their actions are being recorded reduces the likelihood of targeting vehicles equipped with cameras, protecting drivers and company assets. This deterrent effect can be especially valuable for businesses operating in areas where fraudulent claims are prevalent.

Improving Driver Safety and Retention

Dash cams do more than capture incidents; they promote safer driving. Many

models include features that alert drivers to risky behaviors like speeding or sudden braking. This immediate feedback helps drivers adjust and reduce the likelihood of accidents. Over time, recorded data can help identify patterns, allowing managers to provide targeted training to improve performance. Similarly, consistent monitoring helps build a database of driver performance, enabling data-driven decisions to enhance fleet safety.

Consider the hypothetical situation of a roofing company that noticed frequent hard braking incidents through dash cam footage. By addressing the issue with specific training, they improved safety and reduced vehicle wear and tear, leading to better operational efficiency.

Recording driver behavior also encourages adherence to safety protocols and traffic laws. This accountability fosters a culture of professionalism, which protects employees and enhances the company's reputation. Clients are more likely to trust businesses committed to safety and responsibility.

In addition, regular review of dash cam footage provides managers with opportunities to recognize and reward exemplary driving. Positive reinforcement motivates employees to maintain high standards, boosting morale and overall job satisfaction. Over time, this fosters a workplace environment that values safety and excellence, which inevitably has a positive impact on recruiting and retaining drivers, which is essential for fleets as the truck driver shortage continues to grow.

Unveiling the Financial Benefits

Dash cams can lower insurance premiums, as insurers often consider fleets with these devices lower risk. Additionally, avoiding the costs associated with fraudulent claims—such as legal PHOTOGRAPHY COURTESY OF ARROWHEAD ROOFING & SHEET METAL

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If you have questions about the Project of the Month or any other editorial feature in Metal Roofing Magazine, contact the editor: Karen Knapstein • 715-952-1633 • karen@shieldwallmedia.com fees, downtime, and inflated premiums helps businesses maintain profitability. For small operations, these savings can make a noticeable difference.

The financial benefits extend beyond insurance. Reduced accident frequency translates to lower vehicle repair and replacement costs. Businesses can reinvest these savings into growth initiatives, such as expanding their fleet or upgrading equipment. This makes dash cams a valuable tool not just for risk management but also for long-term financial planning.

Minimizing Operational Disruptions

Operational continuity is crucial for builders, roofers, and shed-delivery professionals. Any disruption, whether from a false claim or an actual accident, can have a domino effect on project timelines. Dash cams help prevent these interruptions by streamlining dispute resolution and minimizing vehicle downtime. This ensures businesses can meet deadlines and maintain client satisfaction.

For instance, a company that faced a rear-end collision could use dash cam footage to prove their driver was not at fault. The quick resolution would prevent a weeks-long delay in securing insurance approval for repairs, allowing the company to stay on schedule and avoid penalties for late project delivery.

Building Customer Trust and Enhancing Reputation

Clients value transparency and accountability from service providers; that's a given. To meet these standards, businesses can demonstrate their commitment to these principles by equipping vehicles with dash cams. In the event of an incident, clients appreciate the ability to review clear evidence, which helps build trust and fosters long-term partnerships.

This trust can also increase customer retention rates and positive word-ofmouth referrals. A metal roofing supplier may find that its proactive use of dash cams helped reassure clients about the safety and reliability of their services. This would result in repeat business and an enhanced reputation within the industry.

A Smart Investment for the Future

Equipping fleets with dash cams is a proactive step that protects assets, reduces risk, and improves overall efficiency. As fraud tactics evolve, reliable video evidence will become more and more important. By adopting this technology, businesses can preserve their operations, drivers, and reputation while certifying smoother day-to-day operations.

Looking at the road ahead, advancements in dash cam technology promise even greater benefits. Features such as cloud storage, AI-powered analytics, and real-time alerts will further enhance their value, making them an indispensable part of modern fleet management. For businesses prioritizing safety, accountability, and efficiency, investing in dash cams is critical in moving the dial for successful fleet management. **MR**

Erin Gilchrist, VP of Fleet Evangelism at IntelliShift, brings 15 years of experience from Safelite AutoGlass, where she man-

aged a fleet of more than 8,500 vehicles. A long-term member of the Automotive Fleet Leasing Association, she advocates



for fleet leaders through her podcast, Straight Talk on Fleet.

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Coating Prolongs Life Of Warehouse Metal Roof

customer called looking for a one-coat system for their metal roof. They were concerned that other manufacturers required a primer over the roof due to the rust, and one suggested a double coat of their topcoat, making it cost-prohibitive for them.

They were relieved when we told them our solvent-based system would work and that it only needed one coat without any need for a primer. The customer tested a thousand-square-foot section and watched for six months. Later, the customer ordered 900 gallons to finish the roof and used an airless sprayer for the application. The airless spray pump required a minimum 3,300 psi output pressure rating and adequate delivery volume to support the spray tip orifice at 1.1 gallons per minute (gpm).

The customer later called back, informing us that it was the first time in a year that water had not penetrated anywhere in the building. In addition, a 20% section had an acrylic product, and they were concerned they needed to powerwash that off before applying the BUTYL Liquid Rubber. There was no need to do that either due to the cross-linking properties of the solvent. The customer saved on both material costs and labor hours as well. **MR**

Case Study Details:

CONTRIBUTED BY: EPDM Coatings epdmcoatings.com

ROOF LOCATION: Shelton, Connecticut

INSTALLER: Building Owner

ROOF SIZE: 45,000 sq. ft.

ROOF PITCH: 2:12

COATING: Liquid BUTYL Rubber from EPDM Coatings



Metal roof before. PHOTOS COURTESY OF EPDM COATINGS



Warehouse metal roof after it was coated with Liquid BUTYL Rubber.

MFM Building Products Hires Agencies for Representation in North Texas, Oklahoma

MFM Building Products, a manufacturer of a full envelope of waterproofing and weather barrier products for the building industry, has announced the firm has reached agreements with agencies to represent MFM in North Texas and Oklahoma.

Veteran Group Sales will represent MFM in North Texas. Veteran Group Sales has a long history of serving both the residential and commercial building products industry as the agency was founded more than 60 years ago.

Walco Building Products will represent MFM in Oklahoma. Walco Building Products, led by President, Kenny Kay, was founded in 1986 and serves architects, specifiers, roofing contractors, and building product distributors.

The agencies will represent MFM's line of self-adhering waterproofing membranes with 1-Step and 2-Step distributors.



AWIP Launches Pw-R Series for Solar Applications

All Weather Insulated Panels (AWIP) has announced a partnership with BPi, an engineering, procurement and construction (EPC) contractor in the solar and renewable energy industry, to launch its new Pw-R Series for metal roof solar solutions.

A field-installed solar PV solution, the rooftop assembly is designed to deliver optimal efficiency and work seamlessly with AWIP's metal roof systems.

The Pw-R Series with AWIP metal roofing includes three distinct options:

Pw-R SR2 Field Assembled (Rail-Based System) – Delivering excellent resistance to higher wind loads for secure and reliable installation, this versatile design is suitable for both low and high roof slopes in portrait or landscape position. Simplified zero-roof penetration installation process protects the roof's integrity.

Pw-R HR Field Assembled (Rail-Based System) – Providing the same robust assembly and versatile design as the Pw-R SR2, this weathertight solution features clamp assembly with factoryapplied butyl backing to ensure a watertight seal.

Pw-R HR Field Assembled (Rail-Less System) – Features a simple design with minimal and lightweight components, making for easy shipment and efficient transportation. Along with its weathertight design, its efficient assembly provides quick and easy installation attaching directly to the high rib.

Insulated metal panels (IMPs) enhance energy efficiency by providing superior thermal insulation and reducing heating and cooling costs while complementing solar panel systems for enhanced sustainability. Combining IMPs with solar panels creates a high-performance building envelope that optimizes energy savings and lowers environmental impact.



Hixwood Welcomes Wes Gingerich to Sales Team

Hixwood, a leading roll-formed steel panel building supply company based in Wisconsin, has announced the addition of Wes Gingerich as its new outside coil salesperson for the Midwest territory. Gingerich will serve customers across Colorado, New Mexico, Nebraska, Kansas, Oklahoma, Texas, Iowa, Missouri, and Arkansas, reporting directly to Noah Oberholtzer.

With a strong legacy of values and craftsmanship dating back to 1998, Hixwood [www.hixwood.com] has continued to grow and evolve since its 2020 acquisition by Ambassador Supply. Under the leadership of General Manager Paul Zimmerman, the company has invested in people, technology, and operational excellence—doubling its revenue in just three years.

"Wes brings a drive for excellence and a wealth of industry knowledge that perfectly align with the culture and values we prioritize at Hixwood," said Zimmerman. "We are so fortunate to have him join our team as we continue building momentum across the region."

Gingerich is an industry veteran who brings valuable experience in coil sales.





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The VS-150 Standing Seam Panformer is built for flexibility, efficiency, and portability. Whether you need 1" or 1.5" standing seam panels, or adjustable panel widths from 9" to 24", the VS-150 offers quick and easy adjustments, ensuring seamless panel production in the show or right on the jobsite.

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SUPPLIER NEWS

His addition strengthens Hixwood's presence across key Midwest markets, reinforcing the company's ongoing commitment to delivering exceptional service and quality materials to its customers.



Coated Metals Group Opens Branch in York, Pennsylvania

Coated Metals Group (CMG), a provider of pre-finished steel products for the construction and architectural industries, proudly announces the opening of its 11th location in York, Pennsylvania. This new branch will serve as a stocking and distribution hub for the company, further strengthening CMG's commitment to reducing lead times and enhancing customer service nationwide.

The facility is strategically positioned to better serve customers in the Mid-Atlantic region. The branch will be supported by a dedicated and experienced team, including Graham Jeske as the outside sales representative and Heath Reisinger as the operational manager.

Graham Jeske brings unparalleled expertise to the York location. With a wide range of experience in the metal roofing industry and years spent at CMG's headquarters, Graham is highly regarded for his in-depth knowledge of technical machinery, including metal roll forming and sheet metal fabrication. His ability to deliver tailored solutions and support will be instrumental in meeting the needs of CMG's diverse customer base. Heath Reisinger will oversee day-to-day operations, ensuring the facility runs efficiently and provides the high level of service CMG customers have come to expect.

"Opening this new location is a significant step in CMG's growth

strategy," said Gary Woodward, President of Coated Metals Group. "We're committed to expanding our footprint with additional brick-andmortar facilities across the country to better serve our customers. By reducing shipping lead times and offering localized support, we're addressing the common challenges faced by the industry and positioning ourselves as a dependable partner for contractors, architects, and fabricators."

RIMA International Elects New Board Members for 2025

The Reflective Insulation Manufacturers Association International (RIMA-I, www.rimainternational.org) recently elected new board members to the 2025 Board of Directors to fill open positions. We are pleased to announce our 2025 Board of Directors as follows:

New Directors:

Rodney Miller, Fi-Foil Company www. fifoil.com

Philip Ramstack, MWI Components www.mwicomponents.com

Paul McIlwee, ESP/Low-E www.low-e. com

Existing board members that will remain on the board for another year include:

President: Mike Boulding, Soprema/ Resisto, Canada www.ayr-foil.com

Vice President: Bobby Byrd, RoyOMartin, Louisiana www. RoyOMartin.com

Secretary/Treasurer: Mark Lovan, Echo Tape, Canada www.echotape.com Directors:

Neil Freidberg, LP Building Solutions, Tennessee www.lpcorp.com

Kelly Myers, Balcan Innvoations, www. rfoil.com

Past President: Sergio Luconi, Prodex, Costa Rica www.prodexcr.com.

METALCON Announces 2025 Highlights & Programming

METALCON announces show highlights for this year's annual conference and tradeshow, taking place Tuesday, Oct. 21 through Thursday, Oct. 23 at the Las Vegas Convention Center.

The only global event dedicated exclusively to the application of metal in design and construction is brought to you by 2025 sponsors: Mill Steel Company, Flack Global Metals, CIDAN Machinery Inc., ABIS, and many more, along with long-time partner, the Metal Construction Association (MCA).

Keynote Speakers

METALCON welcomes Clint Romesha, Medal of Honor recipient, as keynote speaker on Tuesday, Oct. 21, at 9:00 am. Recognized for his heroism during the Battle of Kamdesh in Afghanistan, Romesha received the Medal of Honor from President Obama in 2013. He's the bestselling author of *Red Platoon* and the inspiration behind the film *The Outpost*, starring Scott Eastwood and Orlando Bloom. Clint's story is one of courage, resilience and leadership under pressure—an inspiration to us all.

Then, on Wednesday, Oct. 22 at 9:00 am, renowned economic advisor, market researcher, and future trends analyst Alex Chausovsky will deliver the keynote address entitled *Economic and Labor Market Update – What to Expect in 2025* & *Beyond*. He will provide an in-depth analysis of construction-related data and offer comprehensive insights into the evolving tariff landscape, examining its implications for key industry players.

State of the Industry

Join industry experts and leaders from the MCA for a special State of the Industry panel presentation on Tuesday, Oct. 21 at 1:30 pm, to discuss current and future opportunities and challenges facing the metal construction industry such as recent technical developments, upcoming regulatory issues, resiliency in a turbulent building market, the superior sustainability of metal substrates and more.

MCA's Metal Mastery Clinics

As metal continues to gain traction in the market, it's crucial for contractors and installers to grasp the intricacies and proper techniques for forming panels and installing metal roofing and wall systems. In a series of clinics, experts from

INDUSTRY NEWS

the MCA and Metal Roofing Alliance (MRA) will discuss best practices for installing metal shingles, standing-seam roofing panels, retrofit systems, and metal wall systems, and will demonstrate proper techniques for on-site roll forming and machine maintenance.

METALCON Training Zone

Back by popular demand, the METALCON Training Zone sponsored by Sherwin-Williams returns to offer hands-on training for roofing contractors. This dedicated area features live demonstrations and education using a variety of mock-ups and materials such as painted steel, aluminum, zinc, copper and other exotic materials. Training will emphasize precise detailing and the use of appropriate tools, equipping contractors, remodelers and other professionals to elevate their skills, ensuring the best, most efficient and cleanest work when installing various metal roof systems (conducted in English and Spanish).

Learning Centers

These free 60-minute sessions from 10:15 am to 2:30 pm Tuesday–Thursday are organized into four learning centers on the show floor: Installation & Techniques; Building Performance; Business Growth & Innovation; and the Metal Masterclass.

These are just a few of the special features offered at METALCON 2025 in Las Vegas. For more information, visit www.metalcon.com.

Henry Repeating Arms Recognizes the American Construction Industry

Henry Repeating Arms, one of America's leading firearm manufacturers, is building on its legacy of acknowledging its most valued constituencies with the launch of the American Construction Industry Tribute Edition, a new addition to its lineup of collectible Tribute Edition rifles that honors the men, women, and companies who build America from the ground up.

"America runs on the backs of its



builders," said Anthony Imperato, Founder and CEO of Henry Repeating Arms. "This rifle is our celebration of all the skilled tradespeople who work on everything from blueprints to brick and mortar to shape our city's skylines, put roofs over our heads, build roads, bridges, and most importantly, the foundation of our lives and future. This new rifle is our way of saying thanks."

Andy Wickstrom, President of Henry Repeating Arms, said, "We are proud to acknowledge the demanding and dangerous work, which requires a diverse range of skills. From carpenters and plumbers to electricians and engineers to ironworkers and excavators, the construction industry plays a vital role in shaping our communities and creating spaces for growth and progress."

Built on the award-winning Henry Golden Boy .22 S/L/LR platform, this leveraction rifle, like the rest of Henry's Tribute Edition rifles, features highly detailed engraved embellishments that pay tribute to some of the country's most fundamental workforces and constituencies.

The right side of the nickel-plated receiver cover features a 24kt gold-plated "Proud to Build America" plaque, an engraving of the American flag, and a portrait of three construction workers standing proudly in front of steel I-beams. The left side shows a residential framer at work on a rooftop and a tower crane erecting a skyscraper—a nod to the vast scope of the construction trades. Both sides are bordered by a brick motif, symbolizing the industry's foundational role in America.

The rifle's American walnut buttstock features a hand-painted yellow construction helmet beside a scroll banner reading "American Construction Tribute," providing a lasting symbol of pride for those in the trades. It is chambered for .22 Short, Long, and Long Rifle. It features a 20" blued steel octagon barrel, brass buttplate and barrel band, adjustable sights, and the legendary smooth action Henry firearms are known for.

The American Construction Tribute Edition is available now through licensed Henry Repeating Arms dealers nationwide. **MR**



project of the month



Dome Home Goes Custom

Steel Shingles Replace Hail-Damaged Aluminum Shingles

The home owner had a prior aluminum shingle metal roof that had been damaged by a hail storm. The homeowner liked the aesthetic of the prior roofing material but it was no longer available. Additionally, Green Knight[®] suggested something more durable to be able to better withstand future hail storms. Green Knight[®] proposed the Kassel & Irons KasselWood steel shingle due to the low profile, which was important to the homeowner, as well as the fact that it was a single course shingle, which was important due to the installation challenges. The homeowner did not like the standard colors so Green Knight[®] worked with the manufacturer to custom coat the shingles with Thermabond powder coating in a color that the homeowner preferred. The end result is a stunning Geodesic Dome with a much more durable roof. *MR*



Green Knight[®] Metal Roofing

https://greenknight.com/

Project Overview Location: Texas Contractor: Green Knight® Metal Roofing Installer: Green Knight® Metal Roofing Roof Size: 7500 SF (3 Buildings) Roof Panels: Kassel & Irons KasselWood Steel Shingles Coating: Thermabond (Powder Coat) - Teak Color Fasteners: Kassel & Irons Underlayment: Continental Materials Secure Grip HT 2.0 Sealant: Tite Bond Metal Roofing Sealant Gutters: Senox





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FROM THE PUBLISHER OF ROLLFORMING





OCTOBER 1-2, 2025 Dayton Convention Center, Dayton, OH constructionrollformingshow.com

FROM THE PUBLISHER OF RURAL BUILDER MAGAZINE 2026 Rural Builder Show

FEBRUARY 4-5, 2026 Gatlinburg Convention Center, Gatlinburg, TN ruralbuildershow.com

For Exhibitor Information Contact Missy Beyer: missy@shieldwallmedia.com • PH 920-216-3007 • FAX 1-715-227-8680 CONSTRUCTION SURVEY INSIGHTS By Gary Reichert, Publisher

Changing Times: Using Data To Make Business Decisions

I don't particularly like Bob Dylan but the song title is appropriate. One of the trends in media is the migration to digital. In many ways digital is the future. 61% of Gen Z reads primarily on their phone, as do 51% of older generations. (Source: Forbes article titled "New Survey Spotlights Exactly What Gen Zers Are Reading On Their Phones" by Rob Salkowitz, published on December 8, 2022.) It seems reasonable to assume the numbers are currently higher.

At Shield Wall Media we have done several things to follow the digital trend. We offer digital versions of our magazines, including audio versions and podcasts. We continue to look for ways to leverage technology to curate and distribute information.

In July, Shield Wall Media will have been in existence for six years. In that time we have grown from three to seven magazines, added a data generation component, and three trade shows. A primary reason for this growth is we look for under-served markets and position ourselves to where we believe the market will be in two to five years.

We estimate that approximately 20% of the construction markets we serve



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are members of the Plain Communities. They are not served by the trend toward the digital distribution of information. Several major publications have moved to a digital-only format. In our view it does not make sense to abandon or move away from 20% of an industry.

One of the areas heavily impacted by Plain Communities is addressed specifically by Garage, Shed & Carport Builder Magazine and the Garage, Shed & Carport Builder Show.

To address this, we are rebranding Garage, Shed & Carport Builder and slightly shifting the focus of the magazine. The June/July issue of Garage, Shed & Carport Builder will be the last issue under this title.

Starting with a Fall issue, the new title for the publication will be Plain Builder.

The new magazine will still include information on small, special-use residential buildings and additions. It will also include other building types — including post-frame construction — and emphasize the role of the Plain Communities in construction. Naturally, we welcome everyone to read and subscribe to the magazine, but the editorial will focus on the interests and information needs of this vital and growing portion of our industry.

We appreciate feedback and welcome editorial ideas and article contributions. Thank you for supporting Garage, Shed & Carport Builder Magazine and the shift in focus as it transitions to Plain Builder. **MR**

If you like the CSI columns or find the information useful, help us help you. Shield Wall Media executes a State of the Industry Survey each year. Please complete the survey and share it with your colleagues. A larger survey sample generates more reliable data.