

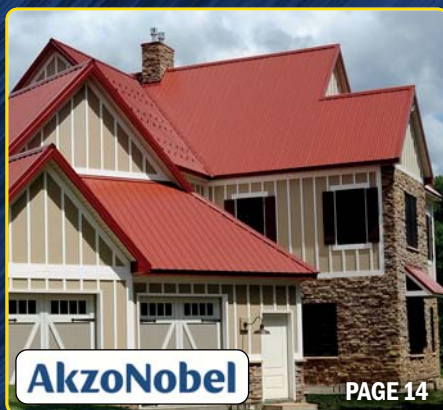
**METAL
ROOFING
MAGAZINE**

APRIL 2021
Vol. 20 • No. 2

20 YEARS
2001-2021

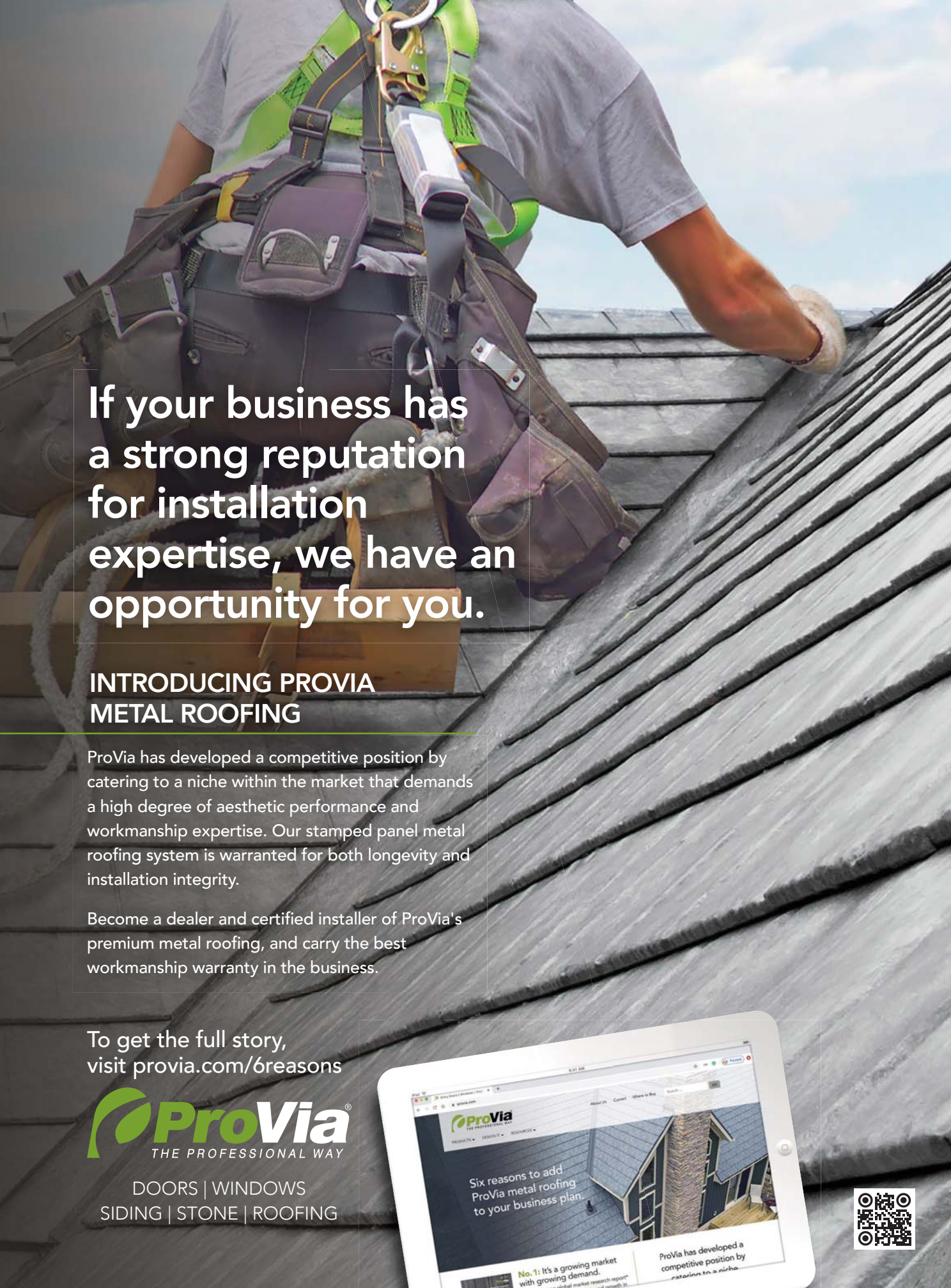
constructionmagnet.com

**17TH ANNUAL
METAL OF
HONOR
AWARDS**



- **TO REROOF OR RECOAT?** •
- **VENTILATION & MOISTURE CONTROL TIPS** •

PROJECT OF THE MONTH:
.....
**A CHALLENGING
VICTORIAN-STYLE HOME**



If your business has
a strong reputation
for installation
expertise, we have an
opportunity for you.

INTRODUCING PROVIA METAL ROOFING

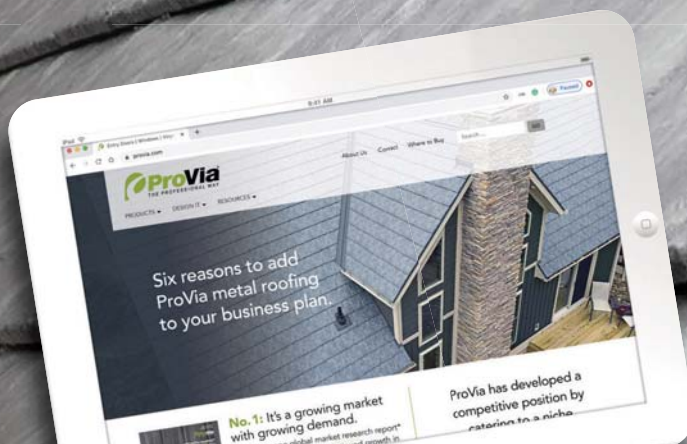
ProVia has developed a competitive position by catering to a niche within the market that demands a high degree of aesthetic performance and workmanship expertise. Our stamped panel metal roofing system is warranted for both longevity and installation integrity.

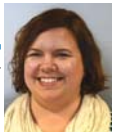
Become a dealer and certified installer of ProVia's premium metal roofing, and carry the best workmanship warranty in the business.

To get the full story,
visit provia.com/6reasons



DOORS | WINDOWS
SIDING | STONE | ROOFING





Time for Something New

When you read this, we will be solidly into spring, and what will hopefully be a very busy roofing season. As your job list grows, so too will your product orders. For a collection of award-winning companies to consider as you research supplies and resources, head to page 11 for this year's Metal of Honor Award winners. Chosen by *Metal Roofing Magazine* readers for their top-quality products, service, and pricing, all 37 companies on the list are sure to have what you need and be more than happy to help.

Considering adding new skills to your repertoire this year? Check out the article on Thermal Technology for Roofing Applications on page 4 of the special *Roofing Technologies* flip section, found on the back of this issue. Offering infrared inspections is just another way to service the needs of building owners and their roofs. From a basic handheld device to an elaborate camera-equipped drone, there are numerous entry points into the technology.

Lastly, as always, please continue to share your projects with

me! Our next issue, the annual Idea Book, is absolutely bursting with amazing roofing projects, and we openly invite you to send in your submission for next year.

Happy spring!

Jessica Franchuk, Managing Editor
jessica@shieldwallmedia.com



PHOTO COURTESY OF FLIR SYSTEMS.



960 E Cemetery Ave, Chenoa, IL 61726
815-945-3667 • ibeamdoor.com
ibeamdoor@gmail.com



SLIDING DOORS

Heavy duty doors with minimal moving parts, maintenance free for decades of operation. 115MPH wind warranty sliding door with reputation unsurpassed to back it up. Outstanding heavy duty hardware, 6000# Ultra Glide trolleys, and EZ locking latches for ease of use for a lifetime.

INCREDIBLE SWING DOOR

Strong aluminum frame for ultimate safety and operation. No need for bulky dangerous uncontrolled hydraulic power systems, these doors run with smart servo drives that control the motion, speed, and accuracy that's unmatched to anything else on the market.

CONTENTS



FEATURES

11: Annual Metal of Honor Award Winners

Join us as we celebrate our 17th year of the awards program

52: Ventilation and Moisture Control Product Feature

Industry experts share their top tips and tricks for maintaining the balance

54: To Reroof or Recoat?

A look into the market's opposing opinions

57: Project of the Month

A unique Victorian-style residence poses install challenges



17th Annual Metal of Honor 2021 Winners

Thank you to our readers for choosing the winners!

ABC Supply Co. Inc.	12
AkzoNobel	14
Drexel Metals.....	16
DripStop	18
Dynamic Fastener	20
Englert Inc.	22
MFM Building Products ...	24
Titanium	26
PAC-CLAD Petersen	28
Sherwin-Williams	
Coil Coatings	30
Ventco Inc.....	32
AceClamp	34
ASC Machine Tools, Inc. ...	35
Logan Stampings	36
Roof Hugger	37
Direct Metals Inc.....	38
East Coast Fasteners	39
Leland Industries Inc.....	40
Levi's Building	
Components	41
Malco Products SBC	42
McElroy Metal.....	43
MWI Components	44
Reed's Metals	45
S-5!.....	46
Snap-Z.....	47
ST Fastening Systems	48
Triangle Fastener	
Corporation.	49
Union Corrugating	
Company	50

FLIP ISSUE/SPECIAL SECTION

ROOFING

technologies

- 3 Industry News
- 4 Thermal Technology for Roofing Applications
- 7 New Products
- 8 Construction Rollforming Show Update



ON THE COVER:

Read up on forward-looking infrared technology on page 4.

MAY PREVIEW

- Idea Book project showcase
- Drones for Business 101

■ Product Profiles Guide

DEPARTMENTS

- 3 Editor's Note
- 6 Supplier News
- 8 Business Connections
- 10 Supplier News
- 59 Ad Index/Classified Ads



ON THE COVER:

Photos courtesy of (clockwise from top left): Union Corrugating Company, AkzoNobel, Reed's Metals, RapidMaterials, AceClamp, and McElroy Metal

ONLINE SERVICES:

- Metal Roofing Buyers' Guide
- Subscribe FREE to Metal Roofing Magazine
- Archived Stories
- Metal Roofing Hall of Fame
- Subscribe to Roofers' Express e-newsletter



CHECK OUT OUR WEBSITE @
www.constructionmagnet.com

E-MAIL THE EDITOR AT
jessica@shieldwallmedia.com

METAL ROOFING

MAGAZINE

20 YEARS

2001-2021

Managing Editor

Jessica Franchuk
jessica@shieldwallmedia.com
920.224.5146

Editors

Karen Knapstein
Jenn Milner

Circulation/Subscriptions

Barb Prill
barb@shieldwallmedia.com
920.471.4846

Digital Product and Data Engineer

For help with online Classified Ads & the Business Directory contact: Steve Duberstein:
steve@shieldwallmedia.com

Publisher

Gary Reichert
gary@shieldwallmedia.com
715.252.6360

Executive/Advertising Assistant:

Kathy Budsberg
kathy@shieldwallmedia.com

Sales Assistant

Kathy Welk
kathyw@shieldwallmedia.com

Graphic Designers

Tom Nelsen, Kevin Ulrich

METAL ROOFING MAGAZINE (ISSN: 1533-8711) (Volume 20, Issue 2) is published seven times annually in February, April, May, June, August, October, and December by Shield Wall Media LLC, 150 Depot St, Iola, WI 54945. Periodical postage paid at Iola, WI, and at additional mailing offices. Canadian Agreement Number: 40665675. POSTMASTER: Send address changes to Metal Roofing Magazine, Barb Prill, PO BOX 255, Iola, WI 54945. Copyright 2021 Shield Wall Media LLC. Metal Roofing Magazine and its logo are registered trademarks. Other names and logos referred to or displayed in editorial or advertising content may be trademarked or copyright. Metal Roofing Magazine assumes no responsibility for unsolicited materials sent to it. Publisher and advertisers are not liable for typographical errors that may appear in prices or descriptions in advertisements. Mailed free to roofing contractors and their suppliers throughout North America. Others may subscribe: \$29.98 for 1 year, \$56.98 for 2 years, and \$80.98 for 3 years.





WANTED!

Contractors and construction professionals cite locating skilled trades people as one of the major challenges to running their businesses.

Readers of Rural Builder, Metal Roofing Magazine, Frame Building News, Rollforming Magazine, Garage, Shed & Carport Builder and Roofing Elements Magazine use our publications to stay current in industry developments and best practices.

REACH THE CONSTRUCTION PROFESSIONALS WHO READ OUR MAGAZINES TO FILL YOUR VACANT POSITIONS.

Gary Reichert – gary@shieldwallmedia.com – 715-252-6360

SUPPLIER NEWS

S-5! Launches New Website

S-5! has recently launched its new and improved website, designed to create a more user-friendly, information-packed, resourceful site for end-customers, manufacturers, and distributors.

The new site offers revamped content with up-to-date information and load test tables, and features improved navigation, an enhanced user interface design, and additional resources. These new resources include: a learning/resource center, a training center, an improved online snow calculator, and an online project configurator tool. (And, their new solar calculator is coming soon.)

“We are delighted to offer a more user-friendly, up-to-date website providing web-based tools to help our customers make informed decisions,” shared S-5! CEO and Founder Rob Haddock. “With hands-on experience in the field and on roofs, we are always evaluating ways to bring competitive advantages to our customers, and hope they find our new website to be a critical resource for the success of their projects.”

For more information, visit www.s-5.com.



The Affordable Rollforming Equipment Manufacturer



Metal Rollforming Systems' complete manufacturing line includes:

- Titan & Signature Rollforming Lines
- Patriot Rollforming Line
- Single & Multi-Trim Rollformers
- Hemming Rollformers
- Precision-Cut Slitting Lines
- Upenders
- Sheet Stackers
- Ridge Cap Press
- and much more!



4511 North Freya Street Spokane, WA 99217 888.284.6794 www.mrsrollform.com

SUPPLIER NEWS

Remembering Chris Ray November 15, 1960 – February 18, 2021

Chris Ray was the National Sales Manager at Levi's Building Components since 2014. In his position, he helped the company grow tremendously, leading the sales team to exceed expectations year over year. More than that, Chris was an incredible person. He was genuine, humble, and patient. To those under his management, he was the kind of boss for whom it was easy to grow fond of. His down-to-earth attitude didn't just make him highly approachable, but a great person to simply sit and talk with about anything from music to travel to great restaurants. Chris was also an incredibly creative person, with loads of ideas and big hopes for what could be accomplished if we work together. The memories of Chris will continue to be an inspiration for many. Here are a few from those who had the privilege to work beside him:



"Chris Ray was an incredible boss. I started my career with Levi's at the beginning of Covid shutdowns last March. Chris went out of his way to make sure I was given every opportunity for success. Chris was knowledgeable and caring. He was hands-down the best boss I have ever had; our entire sales team would agree. We were blessed to have been given the time with him that we were, and he will be greatly missed."

-Shannon Zimmerman, Inside Sales Agent

"Truly a Renaissance man of our time. Chris was able to bring some unique characteristics to his style of leadership. He was well versed, very bright, and able to communicate his ideas effectively to anyone. Chris was a hardworking guy, a great sales manager, and instrumental in Levi's becoming a successful business. Chris loved his family and spoke often about how proud he was of all of them. He loved life and looked forward to new friendships and experiences. Everyone who knew him will miss him dearly."

-Ed Machowski, Senior Technical Sales Agent

"Chris was a real great guy to be around. He was full of life—a real gentlemen. I am not sure I ever got to go through the door behind him; he was always holding the door open for people. One of the great phrases he used: 'It takes all of us together—it takes a village to get the job done.' Another one was: 'Today is a gift. Let's make the best of it.' He has left us big shoes to fill."

-Steve Fisher, President and CEO

At the request of the family, if anyone would like to give in memory of Chris Ray, please do so by making a donation to the American Cancer Society. **MR**



Hangtite™

Gutter Hanger
with Clip



Hangfast®

Gutter Hanger



REAL®

Gutter Cover



FLASHING

Step ■ Apron ■ Roll



Rezist™



See more at RaytecLLC.com

CALL (877) 800-2500

Email Sales@RaytecLLC.com

CONTRACTORS NEEDED!

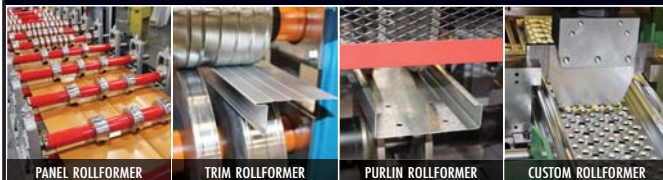
Ready to increase your profits in 2021?

We help contractors start their own commercial roof restoration business, or add it to their existing business.

Call now to receive a free inspection kit valued at \$250.

855-835-8885

★★★ PREMIUM QUALITY ★★★ ROLLFORMING MACHINERY



ASC MACHINE TOOLS, INC.   **MADE IN USA SINCE 1949**

Golden Rule

FASTENERS

**QUALITY PRODUCTS
COMPETITIVE PRICES**

& MOST ORDERS SHIP THE SAME DAY

- Screws • Closures • Ridge Vent
- Pipe Flashings • Butyl Tape • And much more!

Ph: (334) 283-4030 - FAX (334) 283-4032

DMI = BUILDING INVESTMENT PROTECTION

**Let DMI complete your building project
with Code Approved & Warranted:**

HWY & PANCAKE FASTENERS • ANCHORS • PIPE FLASHINGS
REFLECTIVE INSULATION • POLYCARBONATE PANELS
SOLID & VENTED FOAM CLOSURES

www.directmetalsinc.com

855-800-8878



**UNITED
STEEL SUPPLY**

**STEEL PRODUCTS FOR
THE METAL ROOFING &
METAL BUILDING INDUSTRY**

Understanding Superior Service

512-263-0954 • unitedsteelsupply.com



THE BRADBURY GROUP

Your Single Source Equipment Provider

bradburygroup.com

+1.620.345.6394

bradbury@bradburygroup.com

Manufacturer of Roll Forming Equipment



Phone: (330) 674-4003

Fax: (330) 674-4035

Email: acu-form@safecommail.com • Website: acuformequipment.com

ROLL FORMING EQUIPMENT



**Post Frame Packages
Delivered to your Job Site**

expressbarns.com • 785-214-4609
info@expressbarns.com

Let us prove to you that we can save you time and money. We want to be your Partner in Post Frame!

BUSINESS CONNECTIONS

SAFE-WAY
GARAGE DOORS
Make a Statement.

1959 **60** Years 2019

A Lifetime of Quality and Relationships



3814 E. US 30 Warsaw, IN. 46580 • (574) 267-2813

FOR DESIGN VERSATILITY
Stone, Brick & Wood Panels

URESTONE
BY REPLICATIONS UNLIMITED

- Most Realistic Faux Stone, Brick & Wood Panels
- 4' x 8' Largest Panels on the Market
- 8' Wainscot Panels with Built-In Ledge
- Durable & Labor Saving Fast Installation

METALBUILDINGS.URESTONEPANELS.COM

9200 Latty Avenue • Hazelwood, MO 63042 • 314-524-2040

PROTECTION YOU CAN COUNT ON!



SSG Classic Snow Stoppers
Made of all stainless steel products.

RMG Premium Snow Stopper
Made out of 14-gauge stainless steel.

Snow Stoppers LLC

Contact us and we can give you all the details!
717-598-0312

WE WELCOME WHOLESALERS!

UNIVERSAL TUBE & ROLLFORM EQUIPMENT

UCG **UNIVERSAL CONTROLS GROUP**

- Metal Panel Rollformers
- New Controls & Drives
- Coil Handling Machines
- Reconditioning Services



1-419-872-2364 **utubeonline.com**

DID YOU KNOW?

It costs less to buy a Business Card ad than it does to have cards printed.
We even give your "cards" to more than 40,000 potential customers.



Actual Card Size
(3.5" x 2")

FOR MORE INFO CONTACT GARY REICHERT:
gary@shieldwallmedia.com 715-252-6360

METAL
ROOFING
MAGAZINE

Rollforming
Magazine

Rural
Builder

GARAGE • SHED • CARPORT
BUILDER

FRAMEBUILDING
MAGAZINE

ROOFING
ELEMENTS
MAGAZINE

SUPPLIER NEWS

EDCO Products Celebrates 75th Anniversary

EDCO Products Inc., an industry leading manufacturer of residential and commercial exterior building products, celebrates its 75th year in business in 2021.

EDCO's inspiring journey began in 1946 when Art Edwards Jr., returning home after World War II, launched a manufacturing company together with his father Art Edwards Sr. and brother John. Their vision was to produce world-class exterior building products that would look great and last a lifetime. That vision remains as true today as it did then.

While there were challenges along the way, the strong support of the Edwards family through the years has enabled EDCO to persevere by focusing on manufacturing the best products in the industry and delivering exceptional service to its customers. EDCO is now in its third and fourth generation of Edwards family ownership.



ArrowLine Slate T-Tone Blend roofing; Traditional Lap Siding and Board and Batten in T-Tone.

"We are incredibly proud to celebrate 75 years of manufacturing excellence," said John G. Lewis, EDCO President and CEO. "Very few companies achieve this milestone. It is a testament to the vision of our founders, as well as the dedication of our employees, that we continue to thrive in this ever-changing industry."

Through the decades, as the industry evolved, so too did EDCO. What customers wanted, how materials were sourced, how products were made—all challenged



Historical image of workers manufacturing siding.

EDCO to adapt and continuously search for ways to improve.

"At 75, we cannot rest on our previous successes. We must continue to find ways to become more efficient while still delivering innovative products and providing a level of service that exceeds our customers' expectations," said Lewis. "We're not slowing down; the next 75 years are going to be even more exciting than the first 75." **MR**

ROOFING ELEMENTS MAGAZINE

The only publication dedicated to the effects of weather and climate on roofing.

Roofing Elements Magazine will deal with the physical environment and how "Elements" like heat, moisture, wind, and sun affect roofing. The Elements need to be considered in every aspect from material choice and design to installation techniques. *Roofing Elements Magazine* will provide both industry white papers and institutional knowledge from the experts who learned their trade in the real world.

**SPRING ISSUE
MAILING IN
APRIL**



3 WAYS TO SUBSCRIBE!



- Scan Code
- www.constructionmagnet.com/subscribe
- Fill out & mail blow-in subscription card in this issue.

ADVERTISING: Gary Reichert, gary@shieldwallmedia.com • 715-252-6360

EDITORIAL: Jessica Franchuk, jessica@shieldwallmedia.com • 920-224-5146



WINNERS

Congratulations to all of the 2021 Metal of Honor winners! The Metal of Honor awards were created to allow metal roofing installers an opportunity to honor those who help them most by providing quality products and excellent service.

- A.B. Martin Roofing Supply
- ABC Supply Co. Inc.
- AceClamp
- AkzoNobel
- ASC Machine Tools, Inc.
- Direct Metals Inc.
- Drexel Metals
- DripStop
- Dynamic Fastener
- East Coast Fasteners
- EDCO Products Inc.
- Englert Inc.
- Isaiah Industries
- Leland Industries Inc.
- Levi's Building Components
- Logan Stampings
- Malco Products SBC
- Maze Nails
- MBCI
- McElroy Metal
- MFM Building Products
- MWI Components
- Titanium / Owens Corning
- PAC-CLAD | Petersen
- RapidMaterials
- Reed's Metals
- Roof Hugger
- S-5!
- Sheffield Metals
- Sherwin-Williams Coil Coatings
- Snap-Z
- Sno-Gem, Inc.
- ST Fastening Systems
- Swenson Shear
- Triangle Fastener Corporation
- Union Corrugating Company
- Ventco Inc.

These companies have been selected by the readers of *Metal Roofing Magazine* as a top supplier in the industry. You, the readers, nominated who you believe has the most:

- Quality products • Excellent service • Dependable delivery • Competitive prices
-

Many companies were nominated by our readers and the top percent of vote recipients—37 in total—make up the 17th class of honorees.
Congratulations to all of the 2021 winners!

2021 METAL OF HONOR WINNER

ABC Supply Co. Inc.

METAL OF HONOR AWARDS: 14 ■ WEBSITE: www.abcsupply.com ■ PHONE: 608.362.7777

Committed to the Professional Contractor

It's no surprise that metal roofing, with its durability and increasingly varied styles, continues to be a popular option for building and remodeling projects. ABC Supply Co. Inc. is the largest wholesale distributor of roofing in the U.S. and one of the nation's largest distributors of siding, windows, and other select exterior building products. The company is a go-to supplier for metal roofing projects both large and small.

ABC Supply offers a range of roofing materials for low-slope and steep-slope applications, including metal roofing systems from industry-leading manufacturers and an extensive inventory of metal sheet products. The company's product portfolio also includes the tools, accessories, and other materials contractors need to tackle their projects.

Since its founding in 1982, ABC Supply has focused on taking care of contractors better than any other distributor and providing the products, services, and support they need to build their businesses. ABC Supply's associates make it easy for contractors by providing expert service and reliable delivery at nearly 800 locations nationwide.

Value-Added Services Make Contractors' Jobs Easier

To make keeping track of orders easier, ABC Supply created myABCsupply. This online order management tool can be accessed 24/7 from the job site or the office. It allows contractors to purchase materials, review their order details, schedule and track deliveries, pay invoices, and more. Contractors can sign up for myABCsupply at www.myabcsupply.com or by downloading the ABC Supply app from the App Store or Google Play. The tool is available in English, Spanish, and Polish.

ABC Supply also offers Freedom



Programs, a selection of value-added services to help contractors market their businesses. Freedom Program services include custom company websites, job site marketing, targeted mail programs, and personalized company apparel and stationery.

Engaged Employees Are Motivated to Help Contractors

ABC Supply is an "employee-first" company that treats its associates with respect and gives them the tools they need to succeed and service their cus-

tomers. It is a 14-time winner of the Gallup Exceptional Workplace Award, which recognizes the best-performing workforces in the world, and is one of only two companies to have earned the honor every year since its inception in 2007. Highly engaged employees like our associates at ABC Supply are committed to their work and our customers' success.

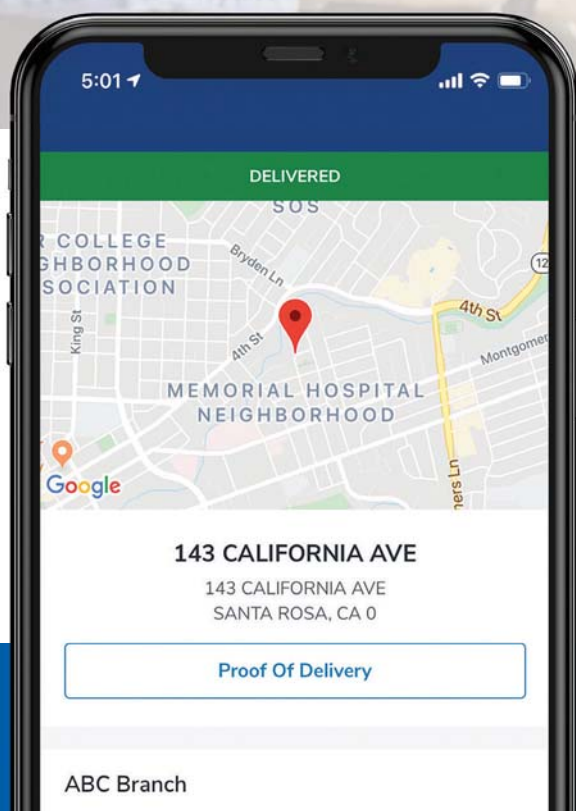
More information is available at www.abcsupply.com. Contractors can also find additional resources to build their businesses at www.abcsupply.com/blog. **MOH**



DO MORE ON THE GO WITH
myABCsupply



**SCAN THE QR CODE
TO SIGN UP TODAY!**



**Your job just got easier,
wherever your projects take you.**

- ✓ Place orders online 24/7
- ✓ Track orders and deliveries
- ✓ Simplify your billing
- ✓ Find an ABC location near you
- ✓ Available in Spanish and Polish

>> DOWNLOAD THE APP



AkzoNobel

METAL OF HONOR AWARDS: 12 ■ **WEBSITE:** coilcoatings.akzonobel.com/us ■ **PHONE:** 614.294.3361

AkzoNobel's CERAM-A-STAR® 1050 Select color palette program makes color complexity a thing of the past and helps drive consistency and availability of popular colors, while reducing the complexity of leading silicone-modified polyester (SMP) technology.

Developed specifically for use with CERAM-A-STAR 1050, the market-leading SMP coating, CERAM-A-STAR 1050 Select ensures the same exceptional product performance and warranty, now with the benefit of a standard color palette program.

CERAM-A-STAR 1050 Select provides businesses with many benefits and helps coil coaters, service centers, distributors, OEMs, and regional rollformers to specifically improve product availability, reduce inventory costs, turn projects around more quickly, and drive concentrated color volume and consistency.

The CERAM-A-STAR 1050 Select program is ideal for customers in the building and construction segment. Comprised of the most popular coil industry colors, the standard color program optimizes business and drives operational efficiency through the entire coil distribution channel.

For coil coaters, CERAM-A-STAR 1050 Select reduces overall complexity and drives volume and demand of standard colors. Longer runs of popular colors and less color switch-outs improves productivity, as customer orders are driven by standard color options. In addition, AkzoNobel optimizes processes through production and delivery and improves cost structure and planning. This all adds up to improved efficiencies and enriched customer satisfaction.



For service centers and distributors of painted coil, CERAM-A-STAR 1050 Select enhances a business to drive operational efficiency by reducing color complexity and increasing demand for high-moving colors. The program drives volume of standard colors and lowers risk associated with stocking slow selling colors. In addition, enhanced color service tools such as the AkzoNobel Canopy app can support and guide distributors through the standard color palette while communicating with customers. Finally, cost planning is improved through color efficiencies and, once again, overall customer satisfaction is improved.

The benefits for OEMs and regional rollformers are also second to none; CERAM-A-STAR 1050 Select takes the industry-leading product performance of CERAM-A-STAR 1050 and combines it with improved availability of standard colors with immediate product availability.

"The CERAM-A-STAR 1050 Select standard color palette program is our latest advancement in the high-performance coil coating market. It enables each step of the value chain to improve product availability and reduce inventory costs through targeted color selections. This in turn speeds up the process on projects and enhances concentrated color volume and consistency," said Manoel Rodrigues, Regional Commercial Director, Metal Coatings, Americas.

The CERAM-A-STAR 1050 Select color program is further supported by AkzoNobel's suite of digital color tools, accessed through its Canopy app. The Canopy app includes information and tools on color selection, color sensor integration, RAL standard search, and color visualization as well as standard color palette tools.

For more information on CERAM-A-STAR 1050 Select, contact a local AkzoNobel representative or visit www.coilcoatings.akzonobel.com/us/ceram-a-star. **MOH**

Make color complexity a thing of the past

- Targeted colors made easy
- Improves availability
- Quicker turns on projects
- Reduces complexity

CERAM-A-STAR® 1050 Select

Leading Coil Coating in a Standard Color Palette Program



AkzoNobel

Drexel Metals

METAL OF HONOR AWARDS: 15 ■ WEBSITE: www.drexelmetals.com ■ PHONE: 888.321.9630

Drexel Metals Provides More Than Tools for Growing Customer Base

Regional roll formers and metal roofing installers are good at what they do: manufacturing and installing metal roofing. Drexel Metals has been reaching out to those quality manufacturers and installers to provide assistance with the other details of the business that make a metal roofing roll forming or installing operation successful.

“We call it ‘Mindless Convenience,’” said Brian Partyka, Drexel Metals Vice President of Sales and Marketing. “As an installer of Drexel products, we become your back office, allowing you to do the things that make you and your company more successful. We offer our contractors virtually everything they need, from pre-bid support to job closeouts. Our top-quality materials in the color you need can be delivered on-demand, allowing you to get started on a job as soon as the contract is signed. No more idle crews waiting for panels to arrive. You’ll have greater flexibility and greater control over your business.”



As your “back office,” Drexel Metals has invested in the testing of the systems you install and backs the warranties of the company’s Certified Installers and Authorized Fabricators. That support has helped Drexel Metals win the prestigious Metal of Honor award from the readers of *Metal Roofing Magazine* for the 15th time. The installers and fabricators that make up the ARM (Association of Regional Manufacturers) of Drexel Metals have taken advantage of local control, more efficiency, freight savings, less scrap, and the ability to provide “metal roofing on-demand.” “These products are 100% Drexel Metals site-certified via our Quality Assurance program and sized to exact dimensions for superior applications,” Partyka said. “As an ARM member, we become your ‘back office’ partner, allowing your team more time in the local market.”

Partyka added that the ARM program provides access to the wide variety of metal roofing products offered by Drexel Metals—approximately a dozen profiles to help contractors satisfy their customers.

These tested products come with the Drexel Metals Certified Installer Program. Highlights of the program include:

- Drexel Metals installer who services a local area by man-



ufacturing and/or installing Drexel Metals Metal Roofing branded systems.

- Drexel Metals acts as the installer’s back office support while the contractor focuses on building the local market through Drexel Metals’ marketing initiatives, code approvals, and full system program.

- Participates in Drexel Metals Weather Tightness Warranties Program.

“Our ARM program takes the production of the metal roof panel from the traditional factory to a local service area or even right to the job site,” Partyka said. “We integrate the entire supply chain from the steel or aluminum mill to the installed roof. We work with owners, architects, designers, and consultants to control every component used from the deck up, to create the complete long-lasting, watertight metal roof system.” Drexel Metals offers its roll formers and installers quality products and support, including:

- Engineered metal roof systems
- Fully tested clips and fasteners
- Complete range of tested systems to complement your offering
- Weather-Tightness Warranty participation and backing
- ES-1 Perimeter Edge Systems
- Full “back office” support, allowing you to focus on growing your business
- Marketing tools and support
- Access to Metal Roofing Alliance membership and leads
- National Account Program participation
- Machine maintenance and QA Program
- Custom fabrication support and supply
- Specification support
- Outstanding customer service...we are customer obsessed!

Drexel Metals is headquartered in Louisville, Kentucky, with locations in Philadelphia, Baltimore, Tampa, Port St. Lucie, Denver, and more than 60 ARM of Drexel Metals’ Authorized Fabricators throughout the U.S. Drexel Metals also has sales offices located throughout the country. For more information, call 888.321.9630 or visit www.drexelmetals.com.

MOH



THANK YOU!

FOR HELPING DREXEL METALS WIN THE
METAL OF HONOR AWARD 15 YEARS IN A ROW!

Year after year, we continue to stand by our commitment to support the growth of installers, manufacturers, and fabricators by offering better local control, greater profits, freight savings, less scrap, and the ability to provide metal roofing on-demand.

We are your back-office partner, allowing you more time in the local market which gives you an advantage over the competition. Being recognized as an industry leader continues to set the bar in the roofing industry and it allows us to provide the best products to our valued partners.



1234 Gardiner Lane | Louisville, KY 40213
drexelmetals.com | Toll Free: 888-321-9630 | Fax: 877-321-9638

DrexelMetals
Roofing Systems + Custom Fabrication
A CARLISLE COMPANY



DripStop

METAL OF HONOR AWARDS: 1 ■ WEBSITE: www.dripstop.com ■ PHONE: 973.660.6646

As a builder or building owner, you may have received a call that began with: **“It’s raining inside my building!”**

It’s probably condensation. Once the building is up, the remedies are fewer, less effective, and more expensive. *The key is to install panels with a condensation control membrane like DR!PSTOP during construction.*

The reason you might not think about condensation until it is too late is... *You can’t see, touch, or feel it, until it’s already a problem.* Understanding what causes condensation and the solu-

tions can be confusing. However, builders who educate their customers about condensation before starting the job can avoid angry phone calls and problems after the build.

It is a simple scientific fact that just as a glass of ice water sweats on a hot day, bare metal roofing sweats under similar conditions. When warm, wet air meets a cold surface, condensation forms water droplets.

In most parts of the country, dripping is almost unavoidable due to seasonal climate changes. There are two different ways builders have typically combatted moisture inside metal buildings. Historically, a layer of insulation has been used to minimize the change in temperature—this helps stop humidity from forming water droplets. More recently, builders have found a new, more efficient way to “control” condensation using a felt membrane to “catch” the moisture as it forms overnight, then “release it” as the sun and air move across the metal roofing panels during the day. DR!PSTOP is the world’s most trusted and used condensation control membrane.



When insulation is installed to specifications, it can be an effective solution. A condensation control membrane like DR!PSTOP offers numerous advantages for both the builders and building owners. As the building is erected, DR!PSTOP arrives already installed on the metal panels. Therefore, there is no time spent installing insulation. This increases job site safety for the builder by eliminating blind steps to purlins covered with insulation. It also saves labor typically spent tacking that insulation down and taping the seams. Since no insulation is being used, windy days become much less of a challenge.

Our membrane will not require cleaning or maintenance. Birds will not peck holes in it and it will not sag or fall off. DR!PSTOP is virtually worry-free.

Most condensation control membranes like DR!PSTOP offer noise reduction to cut down on both impact noise and echoes from inside the building.

DR!PSTOP’s specially designed adhesive barrier also helps protect the steel from corrosion. DR!PSTOP on a properly installed and vented metal roof will perform exceptionally 20-plus years down the road!

Ventilation

There are many potential sources of moisture in a metal building:

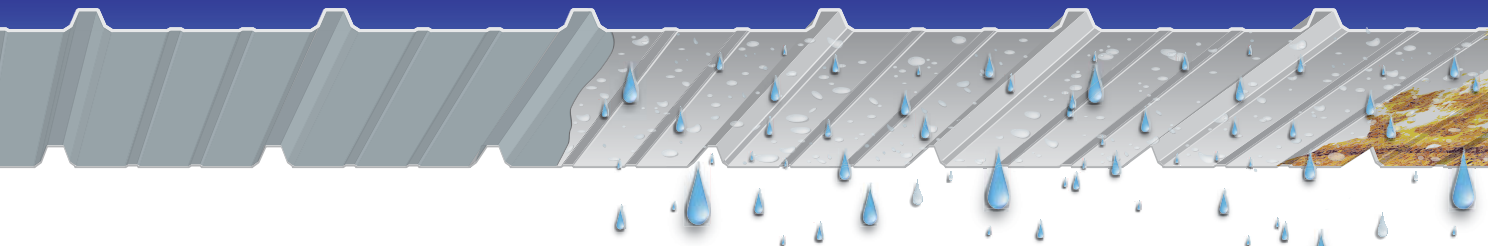
- Fill dirt/gravel
- Concrete
- Livestock
- Poor drainage
- High ground water table
- Use of heaters, propane, kerosene, etc.
- Snow melt from vehicles, or moisture from washing vehicles
- Washing down floor areas
- Storage of firewood, green lumber, or fresh-cut timber
- Hay storage or other farm commodities

Whatever condensation control option you choose, ensure proper ventilation.

We want to thank our partners and customers for their continued trust and service. DR!PSTOP has served our customers for over 25 years and we look forward to serving for another 25.

MOH

Fight Condensation Without Insulation



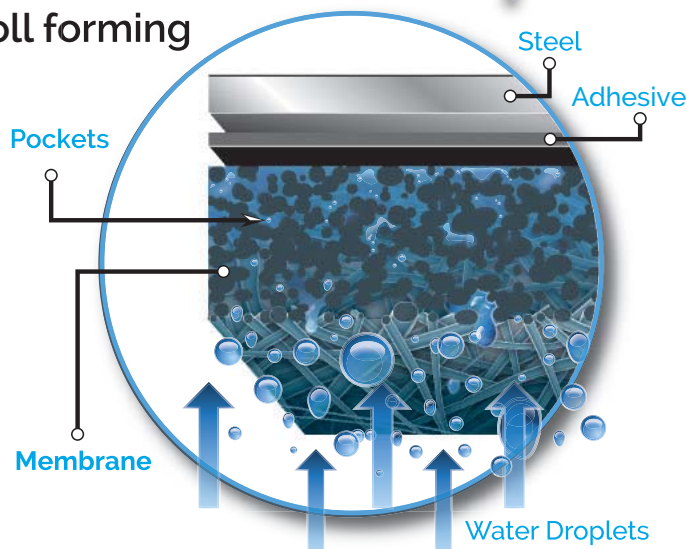
Stop the Dripping from Condensation

Tired of Customers complaining about a dripping roof?

Let DripStop solve your condensation problems before they start.

DripStop is applied at the time of roll forming

- Unmatched Durability
- Prevents Bird Nesting Issues
- Easy to Clean
- Maintenance Free
- Weather Resistant



When condensation occurs, moisture gets stored in the specially designed pockets of the DripStop membrane.

Quicker – Easier – Cheaper

Than other anti-condensation solutions



Dynamic Fastener

METAL OF HONOR AWARDS: 12 ■ WEBSITE: www.dynamicfastener.com ■ PHONE: 800.821.5448

DYNAMIC FASTENER

Everything for the Metal Builder & Roofer®

2020 TOOL & FASTENER HAND GUIDE

WE ARE THE USA!!! Together, we can & will accomplish anything!

MAIN OFFICE
KANSAS CITY
 9911 E. 33rd St.
 Raytown, MO 64133
 816-358-9898 Local
 800-844-1199 Fax
 800-821-5448 Nat

CHICAGO
 2575 W. LeMayne St.
 Melrose Park, IL 60160
 708-615-1450 Local
 708-615-1451 Fax
 800-573-7787 Nat

HOUSTON
 1414 Brittonwood Rd.
 Houston, TX 77043
 713-647-8665 Local
 713-647-8635 Fax
 800-988-5430 Nat

LAS VEGAS
 6435 Dean Metro Dr. "F"
 Las Vegas, NV 89118
 702-566-1555 Local
 702-566-0175 Fax
 800-936-8665 Nat

MEMPHIS
 3700 Cherry Rd.
 Memphis, TN 38118
 901-369-8000 Local
 901-369-0105 Fax
 800-727-0288 Nat

ST. LOUIS
 12800 Fenwick Dr.
 Bridgeton, MO 63044
 314-739-8771 Local
 314-739-8691 Fax
 800-444-0515 Nat

ST. PAUL
 2316 Territorial Rd.
 St. Paul, MN 55114
 651-644-1212 Local
 651-644-1124 Fax
 800-755-2425 Nat

D-F® RIVET BOSS®
 12V RIVET TOOL KIT
 FREE 3rd BATTERY
 2580-22 \$329 PG. 31

D-F® DYNA-CLIPS®
 Play as 99¢
 1000-01 PG. 68

D-F® DYNA-FLASH®
 10+ \$5.50 PG. 61-63

D-F® DYNAGUARD®
 D-F® SNOW RETENTION FOR METAL ROOFS
 PG. 66-69

D-F® DYNA-CLAMPS®
 800+ \$4.95/ea PG. 68

D-F® DYNASTOP®
 LEAKY METAL ROOF?
 PG. 56, 57

D-F® ULTRA-PREMIUM IMPACT-TESTED™ NUT RUNNERS
 With Mag 5/16 x 2-9/16" 10 \$2.50 100 \$1.75 PG. 71

D-F® DW268
 6+ \$168.65 PG. 4

PRICES GUARANTEED UNTIL MARCH 31, 2021 OR WHILE SUPPLIES LAST - SUBJECT TO CHANGE WITHOUT NOTICE
(800) 821-5448 Order online @ www.dynamicfastener.com
 © Copyright 2020 D.F.S.

fastener?" Removing the uncertainty on this very important topic is easy. Specify Dyna-Coat 1,000-hour salt spray premium coating on all screw requirements.

Dyna-Coat is a premium organic polymer coating designed to provide corrosion resistance for metal fasteners. Fasteners coated with Dyna-Coat exhibit excellent resistance to marring, chipping, and abrasion. The color of the coated fastener is metallic silver. Dyna-Coat employs several forms of corrosion resistance, such as replacement, inhibition, envelopment, and electrochemistry. These coated fasteners also have a strong resistance against acid and alkaline chemicals.

Service

Dynamic Fastener is proud to have been chosen to receive the 2021 Metal of Honor Award by the readers of *Metal Roofing Magazine*. That devotion from readers is not an accident.

The company's success rests on its dedication to service, evident in the following areas:

- Standard orders received by 4 p.m. CST will ship that day more than 99% of the time.
- Dynamic Fastener's buying power enables it to competitively and successfully sell nationwide. The company has more than 45,000 customers representing all 50 states and 15 foreign countries.

Catalog

Dynamic Fastener's free 140-page full-color Tool and Fastener Hand Guide (shown at left)

covers fastener applications, engineering data, availability of types, size ranges, and fastener materials.

The Hand Guide also features Dynamic Fastener's flagship products: D-F® screws, Dyna-Guard® snow retention system for metal roofs, Dyna-Clamps® to accommodate many different profiles of standing seam roofs, and 75 million D-F® rivets in stock, of which over 55 million are pre-painted and stocked in bags of 250 pieces.

In addition to discussing screws and anchors, the Guide provides prices and other information relating to flashings, sealants, insulation tapes, safety equipment, hand tools, power tools, and more.

There are seven Dynamic Fastener locations: Kansas City, Missouri (main office); Chicago, Illinois; Houston, Texas; Las Vegas, Nevada; Memphis, Tennessee; St. Louis, Missouri; and St. Paul, Minnesota. **MOH**

What is the definition of long life? The answer would vary greatly depending upon the subject. For instance, the life expectancy of an African elephant on the Serengeti would be substantially different than that of a mosquito on your forearm.

Unfortunately for the metal roofer, the same nebulous and misleading signals are sent when some of Dynamic Fastener's competitors claim their fasteners have a long life coating. Once again, "long life" is just a relative phrase.

To eliminate unnecessary concerns on behalf of its valued customers, Dynamic Fastener quantifies the meaning of "long life." Since Dyna-Coat premium coating passes the 1,000-hour salt spray test, the company proudly proclaims "1,000 Hour" right next to the word Dyna-Coat. Rarely, if ever, does Dynamic Fastener see its competitors touting the tests that their screws pass. That is a suspicious omission.

To paraphrase the famous commercial, "What's on your

DYNA-GUARD®



IT IS TIME FOR A
CHANGING OF THE
GUARD

S-5!® We are discontinu-
ing the line of S-5!®
snow retention products. Closeout/
below cost prices on S-5!®

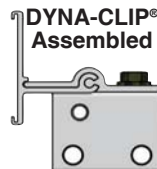
X-Clip™ II	\$2.75
X-Gard™ 1.0 Bracket	\$1.85
X-Gard 2.0 Bracket	\$4.50
S5S Stainless Mini Clamp	13.85
SnoClip™ II	\$1.35

DYNA-GUARD® Snow Retention System installed on a metal roof.

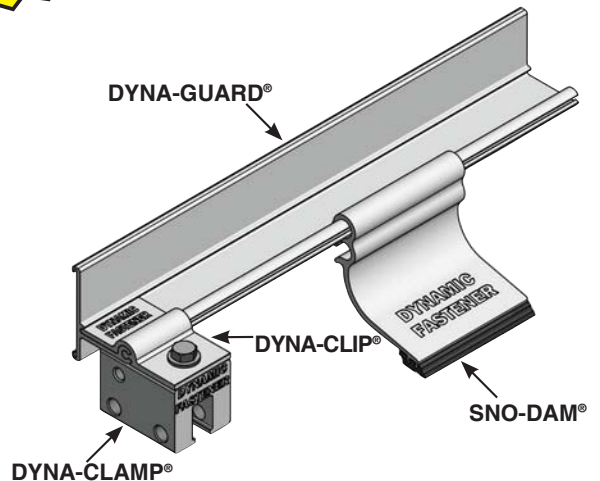
**EXCITING
NEW
ITEM**



DYNA-CLIP®



DYNA-CLIP®
Assembled



Our Dyna-Guard® system comes with a **free** 30-year warranty.

Attention architects / specifiers:

ARCAT® For a CSI 3 part specification and CAD details on
DYNA-GUARD products see our page on Arcat

<https://www.arcat.com/arcatcos/cos50/arc50660.html>



Hover over this code with
your smart device's camera
to land at our ARCAT page.



Englert Inc.

METAL OF HONOR AWARDS: 15 ■ **WEBSITE:** www.englertinc.com ■ **PHONE:** 800.364.5378

Englert was founded in 1966 by Herb Englert when he saw the opportunity to open his own gutter business. He lacked the capital to get started, but a successful investor believed in the business and gave him the money. Englert pioneered the concept of a “total system,” selling not just gutter materials, equipment, and accessories, but also support materials including color cards, literature, and machine maintenance.

Herb’s success enabled him to repay his investor, but he was refused. “Pay it forward,” he was told. “Help others become successful businessmen and we’ll all be better for that.” Herb built his business on the foundation of helping other businesses grow, and Englert continues that tradition today.

Our MetalMan roofing and gutter machines, as well as the technicians and support included with every purchase, are a big part of that. We offer a wide array of gutter machines, seamers, and fixed- and multi-panel roofing machines to meet the needs of every roofer. We recently introduced the Series 56X gutter system. It’s a large capacity gutter that looks like a 5” gutter but performs like a 6”. Response from customers has been good and they’re looking forward to purchasing the machine and growing their business.

From the time a new machine is received at our warehouse in New Jersey, our tech-



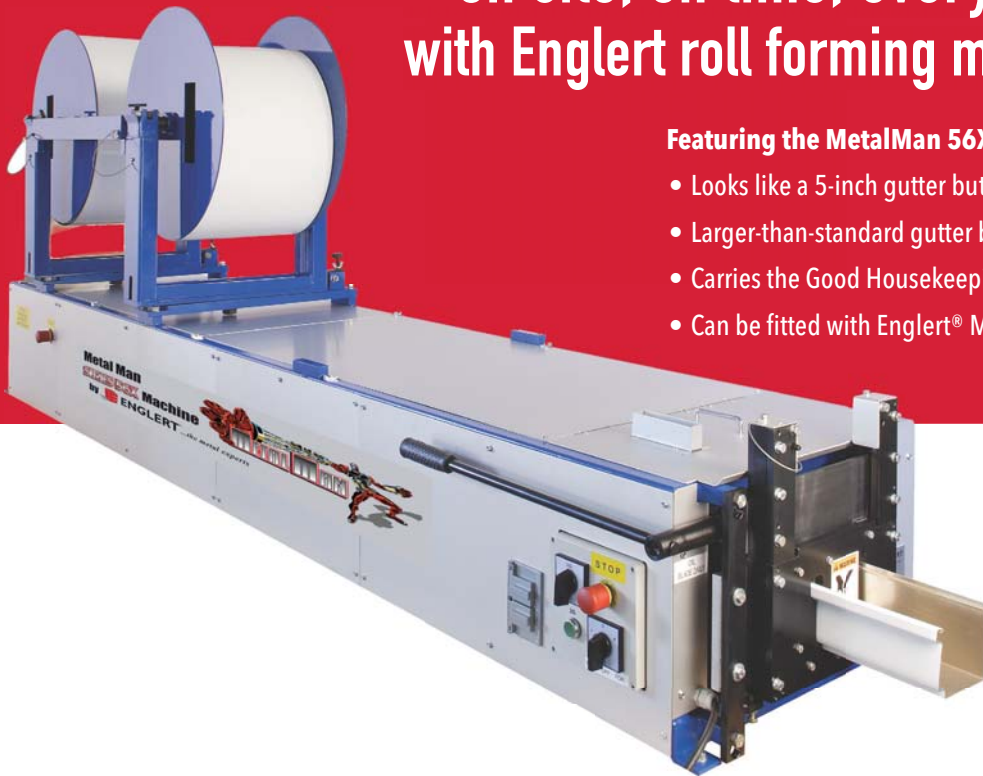
nicians go over every inch of the machine to make sure it’s in perfect condition for our customer. First, the machine is fitted with the dies for the requested profile. Then it’s calibrated, lubricated, and tested before it’s shipped to the customer. We also make sure our customers are properly trained in machine operation, maintenance, and safety so the machines can perform at their best. Our machines are designed for experts, so we offer a total package of support, including a mobile service force, machine training, marketing support, and warranties.

And our techs aren’t just there at the beginning of a machine’s life. We’re there to help

our customers service their machines if necessary. Usually customers will bring their machines to us, but our technicians also have the ability to travel to them if necessary. We always stock Englert parts, so if you bought a machine from us, it can be fixed immediately. But as long as you’re a customer, we’ll even fix machines that you didn’t buy from us. It’s all part of our mission to give our customers the tools they need to succeed. **MOH**



Get the job done right — on site, on time, every time — with Englert roll forming machines.



Featuring the MetalMan 56X Gutter System Machine

- Looks like a 5-inch gutter but performs like a 6-inch
- Larger-than-standard gutter bottom and downspout
- Carries the Good Housekeeping® Seal
- Can be fitted with Englert® MicroGuard for additional protection



Englert brings metal roof manufacturing to the job site with our line of portable roll forming machines. On-site fabrication eliminates shipping damage, short shipments, and most sizing errors resulting in better products, fewer problems, and lower costs.

Our machines are designed for experts in seamless gutter and metal roof installation. We offer a total package of value-added metal roofing and gutter machines and support, including a service force, machine training, marketing support, testing, warranties, and engineering.



1-800-ENGLERT

www.englertinc.com



MFM Building Products

METAL OF HONOR AWARDS: 7 ■ WEBSITE: www.mfmbp.com ■ PHONE: 800.882.7663

One-Two Punch for Maximum Waterproofing Protection

There has been a growing trend in the world of roofing codes where it has become code in some locales to seal the seams of the roof deck panels before installing the roofing underlayment. Some builders are moving toward this procedure even though it is not code yet. MFM offers a one-two punch in the never-ending battle with Mother Nature.

MFM Roof Deck Tape™

This 40 mil self-adhering flashing tape is designed specifically to seal these roof deck seams. It features a nonslip embossed traction surface and self-seals around roofing fasteners for complete waterproofing protection before, during, and after the metal roofing system is installed.

MFM High-Temp Underlayments

To ensure complete waterproofing protection, complete the job with our Ultra HT or MFM Wind & Water Seal high-temp underlayments. Each is designed for use under metal and is rated to 250°F to take the heat of metal roofing. Perfect for use over our Roof Deck Tape product.

Celebrating 60 Years of Waterproofing Excellence

This year, MFM is celebrating the company's 60th anniversary of service to the construction marketplace. MFM manufactures a full line of self-adhering waterproofing solutions for commercial and residential builders.

Visit Our Website

Check us out at www.mfmbp.com to learn more about our products or to request a FREE sample. **MOH**



MFM Roof Deck Tape™ is designed specifically to quickly seal the seams on plywood or OSB roof deck panels.



MFM Wind & Water Seal™ offers whole roof protection from ice dams and wind-driven rain. An economical choice for high-temp applications.



Ultra HT Wind & Water Seal® is a premium performer and is engineered to take the heat of metal roofing systems.



Split release
liner for
easy valley
applications

Offers 90-Day
UV exposure



Self-seals
around roofing
fasteners



Non-slip,
cross-laminated
traction surface

IT'S WHAT YOU WANT UNDERNEATH.

Ultra HT Wind & Water Seal® high temp underlayment:
the best roof protection under the sun.



MIAMI-DADE COUNTY
APPROVED

Rated for temperatures up to 250°F—Ultra HT is the premium high temperature, self-adhering underlayment engineered to take the heat of metal roofing systems. Discover the advantages of Ultra HT to protect your next roofing project. **MFM Building Products – celebrating 60 years of service to the roofing industry!**



mfm® BUILDING PRODUCTS CORP.

Visit mfmproducts.com for a free sample or call 800.882.7663 today.



Titanium®

METAL OF HONOR AWARDS: 9 ■ WEBSITE: www.ChooseTitanium.com ■ PHONE: 800.567.9727

Titanium Is Tough Under Metal

Titanium® Synthetic and Self-Adhered Underlayment is the premium choice for protection that lasts.

Contractors trust Titanium® synthetic and self-adhered underlayment products for roofing projects that demand performance. Titanium offers roof deck protection from eave to peak. Choose one of the most preferred premium synthetic underlayment brands—and the ideal choice for metal roofing systems.

Best Practice

- Like an asphalt roof, when installing a metal roof, we recommend starting with a clean roof deck. Tearing down to the deck is important to help identify any unseen issues.

- **Picture framing:** Best practice for installation would be to use our Titanium PSU30 along the eaves, rakes, and any penetrations, then use Titanium UDL30 or UDL50 on the remaining deck.

Or, based on local codes, a Self-Adhered (SA) underlayment could be required at the eaves. We recommend that a SA product be used on the eaves, rakes, valleys, and penetrations. These are areas where a large amount of water can gather, and this method helps create peace of mind. The use of a synthetic underlayment can be used in the field of the roof.

Titanium Products

Exceptional Durability and Tear Resistance: Even small holes can lead to leaks. We tested the effects of heavy boot scuffing that can occur during installation. Only Titanium UDL30 maintained its strength and didn't leak! This is important because the underlayment is the last line of defense on a roof deck.

UDL30 and UDL50 are tough and durable. From helping to dry the roof before the metal cladding arrives to resisting tears and scuffing from foot traffic



and metal panels, they can hold up to the use and abuse of a metal roof install.

Increased Walkability: The Sure-Foot® nodular walking surface creates a safe walking surface. Our Titanium PSU30 and UDL30/UDL50 all have the same pattern, which makes it easier to move around the roof deck without having to adjust to different surfaces.

The walking surface is the same between the manually adhered (MA) and SA products. This is unique in the market because most SA products have different

walking surfaces versus MA products. Having the same Sure-Foot® nodular walking surface provides peace of mind for installers. They do not have to change how they walk as they transition between products, or fear that one product will perform differently under their feet. The nodular walking surface helps to provide great footing, both wet and dry.

High-Temp Performance: PSU30 is high temp rated and has a self-sealing lap system. This improves the bond between layers, greatly decreasing the risk of leaks.

Great products to use under asphalt, metal, and tile. **ChooseTitanium.com.**
MOH





Increased Walkability
with Sure-Foot®
Technology



Withstands High Temps
to Help Resist
Dryness and
Cracking



**Exceptional Durability
& Tear
Resistance**

TOUGH UNDER METAL

Titanium® Synthetic Underlayment.
The premium choice for protection that lasts.

Contractors trust Titanium® underlayment for roofing projects that demand performance. Sure-Foot® Technology creates a safer nodular walking surface that resists tearing and keeps working to help prevent moisture damage and cracking under tough conditions. Choose one of the most preferred premium synthetic underlayment brands — and the ideal choice for metal roofing systems.



TITANIUM®

Discover all the benefits of premium synthetic underlayment at [ChooseTitanium.com](https://www.ChooseTitanium.com).

PAC-CLAD | Petersen

METAL OF HONOR AWARDS: 16 ■ WEBSITE: www.pac-clad.com ■ PHONE: 800.PAC.CLAD

A Curved-Roof Conundrum

Like much of the Atlanta metropolitan area, Barrow County, Georgia, has experienced a growth spurt during the past decade, with population up an estimated 20%. New county amenities include an outdoor performance space, the Barrow County Innovation Amphitheater. The amphitheater includes a ticket and concessions building that acts as a gateway to the open-air seating. Metal roofing plays a big role in the new venue's design—especially in the clamshell layout over the stage that required a creative solution and skilled installers.

Two varieties of 24-gauge steel panels from Petersen's PAC-CLAD lineup were required to meet the project's varied demands, outlined in architectural plans by Lindsay Pope Brayfield Clifford & Associates, Inc. of Lawrenceville, Georgia. "I believe the design team wanted the architectural appearance of a 16"-wide Snap-Clad panel on the entrance building," said John Salo, President of the Suwanee, Georgia, installation firm, Saco Systems. "But they also knew they needed a mechanically seamed Tite-Loc Plus panel on the stage roof, due to the radius." All metal material was supplied by CRS: Commercial Roofing Specialties in Doraville, Georgia.

Finding a Solution

The curved radius over the stage proved to be a bit of a puzzle, because the steel structure and structural roof deck were designed as flat components, providing no support for the envisioned clamshell profile. It was thought that plan would have to be scrapped in favor of a more traditional, hipped roof.

That's when Petersen's local rep



stepped in. "Dave Landis of Petersen made a site visit as we were preparing to install the first panel on the stage roof and formulated an installation method that allowed Saco to install the roof in the original design," Salo said. The solution involved using two different types of clips, including $\frac{3}{8}$ " clips that lift the panel off the deck. "Everything worked according to his plan, and the clamshell design turned out perfectly."

Salo shared that one other challenge his team faced involved channeling rainwater off the roof. "The design of the stage structure allowed for only two downspouts, and we knew that... they would be inadequate to handle that kind of volume," he explained. This time, the company turned to its own expertise, custom-fabricating two extra-large collector heads, one for each

of the two columns available for downspout placement.

Building a Partnership

This project is an example of numerous collaborations between Saco Systems and Petersen, Salo said, noting the strong support his company has received from Petersen over the years. "The relationship literally spans decades. Saco considers itself very lucky to be partners with the Petersen office here in Atlanta. From the sales staff to the production floor and the field/technical services, the entire regional office is staffed with top-notch professionals."

Petersen, a Carlisle company, manufactures a wide range of PAC-CLAD architectural metal roofing and cladding products in multiple gauges of steel and aluminum. All are available in Kynar 70% PVDF finish in 46 standard colors that include a 30-year finish warranty. Most colors meet LEED and Energy Star requirements, and are rated by the Cool Roof Rating Council. Custom colors and weathertightness warranties are offered. BIM and CAD documents are available for most products. **MOH**

Durable Design

To Weather the Storm



A shining PAC-CLAD aluminum roof is designed to create that upscale look while standing up to the high winds and pelting rains of a hurricane. Finishes are backed by a 30-year warranty against fading from sun and salt air exposure.

Private Residence, FL Installing Contractor: Moore Roofing Distributor: ABC Supply Photo: hortonphotoinc.com

Snap-Clad
Metal Roof System
Cityscape



PAC-CLAD
PETERSEN

A CARLISLE COMPANY

CASE STUDY @ [PAC-CLAD.COM/MARCO-ISLAND](https://www.pac-clad.com/marco-island)

IL: 800 PAC CLAD MD: 800 344 1400 TX: 800 441 8661 GA: 800 272 4482 MN: 877 571 2025 AZ: 833 750 1935

[PAC-CLAD.COM](https://www.pac-clad.com) | [INFO@PAC-CLAD.COM](mailto:info@pac-clad.com)

Sherwin-Williams Coil Coatings

METAL OF HONOR AWARDS: 8 ■ **WEBSITE:** www.coil.sherwin.com ■ **PHONE:** 888.306.2645

Sherwin-Williams Coil Coatings (formerly Valspar) has been dedicated to bringing customers the latest innovations, the finest quality, and the best customer service in the coatings industry. Sherwin-Williams Coil Coatings' pioneering paints and coatings have enhanced buildings from residential, commercial, industrial, agricultural, and architectural to iconic buildings and the world's best-known brands. As one of the largest global coatings manufacturers in the world, Sherwin-Williams Coil Coatings provides a wide range of coatings in several industries.

Sherwin-Williams Coil Coatings offers a full range of high-performance architectural coatings in PVDF, SMP, and polyester formulas. These superior coatings are available in a full palette of colors and surface textures to meet the most demanding environmental conditions and designs. Fluoron® is their flagship coating, containing 70% PVDF resins and offering premium protection against harmful UV rays, chalk, fade, and chemical degradation. WeatherXL™, the next generation enhanced silicone polyester coating, offers even more advanced protection against weathering to ensure that your design lasts for years to come. Looking for performance you can see and feel? Check out Sherwin-Williams' WeatherXL Crinkle Finish coating for a unique textured appearance. These high-quality coatings are extremely durable and have excellent film integrity and adhesion properties.

No matter what building component you need to protect—roofing, wall panels, canopies, or fascia systems—Sherwin-Williams Coil Coatings has a coating solution to fit your unique needs. They are here to help you create a lasting impression for



you and your customers. Sherwin-Williams offers the color, confidence, and collaboration needed to bring your building project to life.

Sherwin-Williams understands the important role that color plays in building design. They have color experts who are knowledgeable in color trends, color formulation, and color services. Formulating the perfect color demands expertise, laboratory resources, and testing proficiencies found nowhere else in the industry. They offer a full palette of colors to choose from, or allow them to put their advanced color-matching technology to work for you to create your lasting impression.

Sherwin-Williams provides a superior level of customer service to ensure that your project goes as smoothly as possible. From the color-matching process to unmatched delivery speed, Sherwin-Williams doesn't miss a beat when it comes to completing your project quickly and successfully while ensuring that it is beautiful, long-lasting, and functional. To do this, Sherwin-Williams collaborates with your team to understand your project needs and create custom solutions that are guaranteed to perform.

While creating high-performing coatings that meet your needs is Sherwin-Williams No. 1 priority, they work hard to make sure that their coatings are environmentally friendly. Sherwin-Williams Coil Coatings has formed strong relationships with several Green programs such as the Cool Roof Rating Council (CRRC), LEED, and ENERGY STAR to develop testing methods, set product ratings, and weigh in on critical issues affecting both the environment and the coil and extrusion industry. Regardless of what your highest priority is—eco-friendliness, aesthetics, budget, or performance—every factor should be taken into account when it comes to your project.

The scope of your vision should never be compromised. Sherwin-Williams Coil Coatings (formerly Valspar) strives to make your project shine as bright as the day it was imagined. **MOH**





THE BEAUTY'S IN THE DETAILS

Want the latest color? Want color that lasts? At Sherwin-Williams, there's no element too small for us to obsess over. To us color isn't arbitrary. It's human, environmental, emotional. Color is all we think about. That's why we stay one step ahead of color trends. That's why we are obsessed in making each detail count by putting our exterior metal coatings through the wringer. Because that's how to make color tough enough to look its best after Nature's thrown down her worst. So our clients' visions shine for generations to come.

See where color can take you. Contact us at coil.sherwin.com.



SHERWIN-WILLIAMS.
Coil Coatings



Ventco Inc.

METAL OF HONOR AWARDS: 4 ■ WEBSITE: www.profilevent.com ■ PHONE: 833.300.9515

It's already shaping up to be a great 2021 for ProfileVent® from Ventco® Inc. "Thanks to the readers of *Metal Roofing Magazine* for recognizing how hard we all continue to work during these challenging times at keeping our customers happy," said Marty Rotter, Owner of Ventco. "To win a fourth consecutive Metal of Honor award means a lot to all of us."

ProfileVent, available in rolls of 20', 50', and 100', is a single-layer ridge vent designed for metal roofs. It's a strong, durable modified polyester, non-woven, non-wicking, fiber-based matting, designed specifically for metal roofs. ProfileVent is specifically cut to fit more than 50 metal roofing profiles, more than any other ventilation system manufacturer.

Just over two years ago, Ventco relaunched its website at www.profilevent.com with a fresh, uncluttered design, improved navigation, and greater accessibility. Visitors to the new site see products better showcased with features and advantages highlighted in new ways. Content is now being freshened regularly to keep browsers updated on the latest happenings at Ventco.

"We recognize our website is the easiest way for people to find us," Rotter said. "We have invested over \$8 million in facilities and equipment at our 118-acre facility," said Rotter, the owner of more than 70 domestic and international patents and patents pending. "We're com-

mitted to providing ProfileVent and our other products to our loyal customers. Those roofers who haven't tried ProfileVent should give us a try. We believe they'll be pleasantly surprised with how well it works and how easy it is to work with.

"All of our highly skilled employees are cross-trained in all production activities. Our employees have from 18 to 35 years of experience working with non-woven products.

"ProfileVent is simple to install, and saves time and labor," Rotter added. "It

fits under any ridge cap and with any pitch ranging from 2:12 to 20:12. It won't crack, dent, or rust during shipping or installation and, best of all, it can be rolled out and installed by one person.

About Ventco Inc.

Built on proven technology since 1986, Ventco produces ProfileVent, a revolutionary ventilation system for commercial and residential metal roofs. The specially designed equipment precisely cuts the panel profile into the surface. Working at optimum performance within varied roof pitches ranging from 2:12 to 20:12, ProfileVent is custom cut to fit the individual panel profile. ProfileVent's compatibility with a steep roof pitch makes it uniquely suitable for these applications. Maintain the ridge line appearance without the need to raise the ridge cap to accommodate the vent. For more information, visit www.profilevent.com or call 833.300.9515. **MOH**





Superior Quality Superior Value Class A Fire Rated UV Stable

**Proven performance—preferred by
contractors for over 30 years.**

THE ORIGINAL CUSTOM PROFILED RIDGE VENT

Cut to fit **Standing Seam** and **Screw-Down** Panels in over
50 Profiles for Commercial, Agricultural,
and Residential Metal Roofs.

Full Inventory—Ready-to-ship.

- 40-year limited warranty
- Glue spots prevent slipping during installation
- Fits under any ridge cap
- Class A Fire Rating—WILL NOT BURN
- One person roll-out installation
- Over one million installed—zero call backs
- Miami-Dade approved Noa No.: 17-0821.09



**Also Available in
3' Hi Rib Stick ¾" and
R Panel Sticks 2" or 3" wide.**



ProfileVent®
THE RIDGE VENT CUT TO FIT



**Please check out our new website: www.profilevent.com
Toll Free 833-300-9515 • customerservice@ventcoinc.com**

2021 METAL OF HONOR WINNER

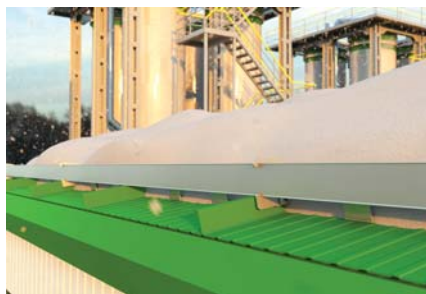
AceClamp

METAL OF HONOR AWARDS: 7 ■ WEBSITE: www.aceclamp.com ■ PHONE: 860.773.4144

AceClamp® is a U.S.-based manufacturer of fast-installing, precision-engineered snow retention and solar mounting solutions.

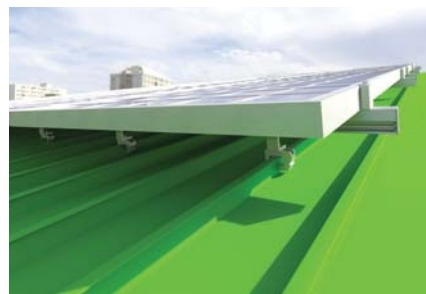
Compatible with almost any roof type, including metal, membrane, slate, and asphalt, our patented, non-penetrating “slide-pin” clamp design eliminates the need for set screws. This unique design protects the metal roofing panel’s finish from installation damage and therefore preserves the warranty.

Our “Snap-In” ice flags for our snow retention product line install “in a snap” and help prevent ice from sliding off the metal roof. If you’re familiar with our popular Color Snap® snow rail system, you should see our new



heavy-duty, commercial-grade snow retention system: Snow Titan™. It’s our most robust and straightforward snap-together snow retention system on the market.

For solar mounting needs, our latest innovation in solar racking is Solar Snap™. Solar Snap uses the already



familiar and trusted Ace clamps, making assembly a breeze—just *Snap, Slide, and Secure*®. Our factory-assembled clamps save you time on the job site.

Simplify inventory with one set of clamps for all your seams, whether you’re installing snow retention or solar. Make the switch to AceClamp. **MOH**

SOMETIMES IT'S GOOD TO JUST BLEND IN



INSTALLS IN A SNAP & LETS YOU MATCH
YOUR SNOW RETENTION TO YOUR SSMR!

No Set Screws • High Strength 6061 Alloy • Pre-Assembled

860-773-4144 | AceClamp.com

COLOR
Snap®

by **ACECLAMP**®

2021 METAL OF HONOR WINNER

ASC Machine Tools, Inc.

METAL OF HONOR AWARDS: 1

WEBSITE: www.ascmt.com ■ **PHONE:** 509.534.6600

WHICH PANEL ROLLFORMING LINE FITS MY NEEDS?

The decision to purchase the right Panel Rollforming Line for your current and future needs is not easy! Each configuration has advantages and disadvantages depending on the application and existing setup in your plant.

ASC is proud to offer three Panel Rollforming Lines, which all feature High Quality Cast Rollformer Stands and multiple Pre- and Post-Cut Options. All Lines come with a Touchscreen Controller with optional Upload/Download of Orders, and Remote Support.

1. The ALPHA SERIES™ is a feed-to-stop Rollforming Line and the lower-cost option for customers with reduced production volumes. The Line features a close-coupled front end or a hydraulic Post-Cut Shear, both keeping the line footprint under 40'!



2. The SELECT SERIES™ is designed for customers with increased production needs and offers a variety of additional features to improve throughput and efficiency. Depending on the product and Cut-Off System, the Line offers production speeds between 150 and 250 FPM!



3. The CLASSIC SERIES™ has been the strongest workhorse in the industry for decades! Paired with ASC's Mechanical Press, the line offers the highest Net Throughput speed in the Industry with up to 400 FPM on 10' panel lengths!



All of these lines are proudly designed and manufactured in the U.S. in Spokane, Washington, since 1949. **MOH**

WWW.CONSTRUCTIONMAGNET.COM



PREMIUM QUALITY COIL HANDLING & ROLLFORMING MACHINERY



PANEL ROLLFORMER



TRIM ROLLFORMER



PURLIN LINES



PURLIN STACKER



DECKING LINES



CHANNEL LINES



GARAGE DOOR LINES



HEAVY GAUGE LINES



GRAIN BIN LINES



CUSTOM DESIGN



WWW.ASCMT.COM
TEL: (509) 534-6600



2021 METAL OF HONOR WINNER

Logan Stampings

METAL OF HONOR AWARDS: 4 ■ WEBSITE: www.loganstampings.com ■ PHONE: 547.722.3101

Providing You With All of Your Precision Metal Products

For over 50 years, Logan Stampings has been providing the highest quality metal building components, clips, parts, and assemblies worldwide. We proudly combine our history in the industry with new technology to allow us the versatility to grow with the ever-changing needs of today's customers.

Our commitment to exceeding our customers' expectations is what makes us a leader in the metal stamping and fabrication industry.

With an impressive 170,000+ square feet of state-of-the-art equipped facilities, we supply metal building components to

everyone from the large metal building manufacturers to the independent, on-site roll-formers.

Logan Stampings manufactures roof clips and accessories for BPD, which offers a full line of clips for standing-seam (roll-formed) panels, including those produced by New Tech Machinery, Englert, Knudson, Quadro Pro, Ultra Seam, and Zimmerman Metals roll-forming machines.

We are very pleased to have been chosen once again as a Metal of Honor award recipient by the readers of *Metal Roofing Magazine*.

The employees of Logan Stampings believe that our success is a direct result

of our personalized service that we give to each and every client—something that can easily be taken for granted in today's fast-paced world. We are problem-solvers and take great pride in using our wealth of knowledge, cultivated over the past 50+ years, to satisfy each client's individual needs.

Proud to Provide Material Manufactured in the USA

Logan Stampings believes in the importance of keeping materials manufactured in the United States. This value is and has always been a central focus of our company and our clients.

MOH

METAL ROOFING MAGAZINE METAL OF HONOR 2021

Thank You

Supplying clips and accessories for the Metal Roofing industry!

From our entire team - Thank you for awarding us with the Metal of Honor!

547-722-3101
LoganStampings.com

LOGAN STAMPINGS

LSI GROUP INC.
METAL BUILDING COMPONENTS

ROOF HUGGER

bpd

LOGAN STAMPINGS

2021 METAL OF HONOR WINNER

Roof Hugger

METAL OF HONOR AWARDS: 6 ■ WEBSITE: www.roofhugger.com ■ PHONE: 800.771.1711

Roof Hugger, LLC is proud to have been chosen again as a recipient of this year's *Metal Roofing Magazine* Metal of Honor award. We are thrilled to be celebrating our 30th year in business. In the beginning, we could only dream of what the future would bring for us, as we watched those first Huggers get "fabbed" into shape and shipped out the door.

Now, Roof Huggers have been installed on over 100 million square feet of existing metal roofs. No other competitor can make that claim. With our Roof Hugger framing system, you can install any brand-new metal roof over an existing metal roof. The Z-shaped Huggers are notched to fit over almost all exist-

ing metal roof profiles, and are attached directly into the existing purlins. This direct attachment is proven to add strength to the existing building purlins.

If you have an existing corrugated roof panel, we have a Roof Hugger system for that, too. Our Corru-Fit system is adaptable to any corrugated roof panel.

With a Roof Hugger system, you can install virtually any new metal roof panel regardless of rib spacing and height.

If you have a project where the new metal roof needs to meet the requirements of today's building codes for wind uplift and snow load, you can request a quote for a Roof Hugger engineered system.

Building owners, installing our Roof

Hugger system will not disrupt your daily operations, it is environmentally friendly by keeping old metal roofing materials out of landfills, and reduces energy costs with the ability to add insulation between the old and new roof. Your building stays warmer in the winter, and cooler in the summer.

Whether you're a contractor, a design professional, or building owner, we have a system that will fit your existing metal roof.

Visit our website, and let us show you how a metal roof retrofit outperforms all lesser roof covering options, and gets you a roof system with up to a 60-year life with the lowest maintenance requirements. Get a quote today at www.RoofHugger.com. **MOH**

METAL ROOFING MAGAZINE
METAL OF HONOR
2021

Thank you

Supplying Retrofit Metal Roof Subframing Systems For 30 Years.

Thank you for voting Roof Hugger into the 2021 Metal of Honor for Retrofit Roof Products 4 years in a row.

ROOF HUGGER

800-771-1711
RoofHugger.com

LSI GROUP INC.
METAL BUILDING COMPONENTS

ROOF HUGGER

LOGAN STAMPINGS

2021 METAL OF HONOR WINNER

Direct Metals Inc.

METAL OF HONOR AWARDS: 1 ■ WEBSITE: www.directmetalsinc.com ■ PHONE: 855.800.8878

Direct Metals Inc. (DMI) supplies fasteners, solid and vented closures, and other building accessories to the commercial, agricultural, industrial, and residential building industries. Key to its objective of bringing value to all its business partners is its commitment to a high level of product quality and customer service. DMI has an extensive network of authorized distributors to whom product is shipped from 2 convenient distribution centers in Fort Myers, Florida, and Plymouth, Indiana.

The core of the DMI product line is its extensive line of 304 SS cap SCAMP and zinc-aluminum alloy head DIRECT SEAL metal roofing fasteners for resi-

dential, post-frame, and pre-engineered metal buildings. Coatings and paint systems are now very sophisticated on metal roofing panels. DMI's long-life fasteners provide a 40-year warranty against red rust and match the panel warranties, giving building owners peace of mind that their investment is secure.

There is also a complete line of DMG85 coated PAN CLIP Pancake and Wafer head screws, panel clips, and painted rivets for standing seam roof systems. The 304 SS SCAMP and PAN CLIP all meet strict Dade County requirements for corrosion resistance. Solid 3' foam closures and vented 10' and 20' rolls provide protection and ventilation in roof

systems. A complete line of butyl mastic, tube sealants and adhesives, Dade County listed concrete anchors, Florida Building Code approved pipe flashings for metal and shingle roofs, PVC and polycarbonate panels for skylights, and reflective foil insulation round out the product offerings.

Direct Metals Inc. is truly a one-stop shop for all fasteners and accessories on a building project. We would like to thank the readers of *Metal Roofing Magazine* for this Metal of Honor recognition. We will continue to work hard to earn our customer's trust as we continue to pursue our mission of bringing value to all of our business partnerships. **MOH**



Whether your metal roofing or metal building project is new construction or replacement, make sure you specify the most versatile long-life fastener available today—

#12 SCAMP STEELZIP/WOODZIP

- 304SS Cap & EPDM washer combination provides lifetime protection for your metal roof. WOODZIP SCAMP includes a 304 SS/EPDM bonded washer for enhanced strip out prevention in light density wood.
- WOODZIP HI-LO Type 17 thread design is larger than traditional #12 diameter. It is designed for maximum strip out in OSB & other light density wood.
- #12 WOODZIP is an excellent choice for new construction or replacement of #9/#10 fasteners that have loosened.
- 5/16" HWH provides exceptional pullover strength versus a traditional 1/4" HWH on metal to wood screws.



- STEELZIP self-drilling point is designed to drill 10-16 gauge steel purlins consistently with no "point walking". The 1/4" diameter stitch screw securely fastens 26 gauge side laps & other light gauge trim.
- DMG85 corrosion resistant coating over zinc plating provides additional protection on fastener shank. Meets Dade County, FL requirements for corrosion protection. Both parts are ideal for coastal high corrosion areas & are available in many powder coated colors for additional protection.

855-800-8878

www.directmetalsinc.com

2021 METAL OF HONOR WINNER

East Coast Fasteners

METAL OF HONOR AWARDS: 7 ■ WEBSITE: www.plyco.com ■ PHONE: 800.558.5895

East Coast Fasteners Wins Seventh Metal of Honor

This is getting to be a regular occurrence and that's a good thing. East Coast Fasteners is proud and excited about being recognized by the readers of *Metal Roofing Magazine* as one of the top suppliers in the industry for a seventh time.

It's satisfying to know we're keeping our customers happy. We're committed to providing the highest quality products and service to the commercial construction and post-frame industries with a growing variety of fasteners designed to deliver the best product for each specific project.

Introduced in 2019, East Coast Fasteners received our patent last year for the Ply-Lo Driller design intended to

be more forgiving than other fasteners when installing at a slight angle. The Ply-Lo Driller is available in colors to match virtually any panel as a #10 fastener in lengths of 1", 1½", 2", 2½", and 3".

The Driller is getting great reviews from our customers. Its design drills quickly as well as minimizes dust and pigtails. The Driller has also been designed to reduce the likelihood of "walking," thereby reducing the chance of ruining your panel during installation.

East Coast Fasteners constantly tests and improves its products to ensure we are delivering the best products available in the market. This attention to detail provides the strongest and most effective building components for fastening wood,

aluminum, steel, roof deck, and plywood.

Another recent innovation from the company, introduced in 2018, is its 40-year Ply-Lo fastener, The Ply-Lo EXTREME, a fastener designed for extreme environments. Ply-Lo EXTREME has all the features and benefits of the original Ply-Lo and has a 40-year warranty. Ply-Lo EXTREME is available in #10, #12, and #14 diameters.

East Coast Fasteners has also upgraded the original Ply-Lo fastener—the Ply-Lo EXTENDED is the fastener designed exclusively for the post-frame industry and now has a 12-year warranty.

To find the best fastener or closure for your project, contact an East Coast/Plyco territory manager. **MOH**

BUILDING CONNECTIONS



East Coast Fasteners produces durable, long lasting fasteners for all combinations of building materials.

- Quick Ship Program
- Extended Warranties
- Colors to match any rollformed steel
- High quality products for any application

East Coast Fasteners...**Building Connections** for the construction industry.



800.558.5895 • www.plyco.com

The FASTEST, SHARPEST, CLEANEST Drilling Fasteners Available!!

Ply-Lo Extended • Ply-Lo Extreme • Ply-Lo Driller • Ply-Fast • Metalfast
Stainless Steel • Ply-Lo Low Profile • Flashers • Closures • Wood Deck



2021 METAL OF HONOR WINNER

Leland Industries Inc.

METAL OF HONOR AWARDS: 5 ■ WEBSITE: www.lelandindustries.com ■ PHONE: 800.263.3393

Leland Industries domestically manufactures a complete line of fasteners for the metal roofing and cladding industry. We produce self-tapping and self-drilling sealing fasteners up to 12" in #10, #12, and #14 diameters.

Leland Industries' fasteners are 100% North American made in carbon or stainless steel. Our exclusive JS1000 plating is an industry leader in corrosion protection, and our Powder Coating is available in 100s of colors to match any panel (plus, we offer a warranty to match the life of the panel).

Leland has the ability to manufacture fasteners to meet the demands and needs of our customers, from standards to specials. We understand that product availability is paramount for our partners and we have been bringing the nut and bolt fastener business back home since 1984. Please visit our website for more information. **MOH**

OVER 4,500 PALLET LOCATIONS IN STOCK



LELAND Specialty Fasteners

Master Grippers® Grippers MDP®



For the post frame building industry
MDP metal panel to wood or light steel girt or purlin.

Master Tappers®



Roof panel to panel - roof sheet to structural A - AB - B points available, type F, type 23, type 1, BP & more. Lengths to 8" available.



AVAILABLE: A325 STRUCTURAL BOLTS

A325 Heavy Hex Structural Bolts assembled and unassembled in our convenient 1/4 Keg Pails. Manufactured in 1/2", 5/8" & 3/4" diameters in lengths from 1-1/4" to 6".

Made in Canada

092220_12e

Master Drillers®



Attach metal panel to metal girt or purlin,
stitching & structural applications. Lengths to 8" available.

Powder Coating

No FADING • No CHIPPING



Our Powder Coated paint system allows us to match
your painted steel supplier's warranty.



1.800.263.3393
www.lelandindustries.com



2021 METAL OF HONOR WINNER

Levi's Building Components

METAL OF HONOR AWARDS: 1 ■ WEBSITE: www.levisbuildingcomponents.com ■ PHONE: 877.897.7020

Levi's Building Components® began as a small operation in Bird-in-Hand Pennsylvania. Founder Levi Fisher developed innovative solutions to common problems facing the metal roofing industry, such as Snow Defender snow guards and the ReGrip™ screw, originally made to replace failing nails. Today, under the leadership of Levi's son, Steve Fisher, the company has grown to become a nationwide supplier of metal roofing accessories with a rapidly growing catalog of products.

In late 2020, construction on the new home for Levi's Building Components was completed. With a vastly larger facility, a big-



ger team, and a continued commitment to our customers, we are equipped to meet the needs of any supplier of metal roofing and post-frame components and accessories. **MOH**

Our Newest Fasteners and Accessories



Find out more at
levisbuildingcomponents.com
or call 877-897-7020



2021 METAL OF HONOR WINNER

Malco Products SBC

METAL OF HONOR AWARDS: 6 ■ WEBSITE: www.malcotools.com ■ PHONE: 320.274.7387

Malco is in the business of designing and manufacturing innovative, work-saving trade tools that set the standard for efficiency, lasting quality, and safety on the job. This strategy, and the employee owners that make it happen, is at the heart of our success.

Malco innovation is a never-ending journey. The original two-hand-operation TurboShear, for example, was introduced in 2003. It was the first of many more good ideas that spawned a category of drill attachments and air tools that, today, number 17 models for cutting and fabricating a broad range of building materials and sheet metal, including a full line of TurboShears for the Metal Roofing Trade.

The beefy, wide-opening jaws of our TurboShearHD navigate precise cuts in 18-gauge steel, including tight patterns and seams. The slender, elongated jaws of our TurboShearCM easily follow corrugated and trapezoidal profiles of building and roofing panels. And a compact TurboShearMD double cut head navigates 90° outside angles and is ideal for cutting around standing seam profiles.

Visit our online catalog at www.malcotools.com to discover all that our employee owners have to offer the Metal Roofing Pro. **MOH**



Turn your Drill into a **TurboShear!** FOR CORRUGATED METAL ROOFING

Patent No. 9,649,702



Malco®

Work. Perform. Outlast.



TSCM

Malco's Corrugated Metal TurboShear works faster than manual metal roofing shears. This portable attachment fits a drill you already own to make easy cross, lengthwise, and precise circular and square outlet cuts in pattern corrugated metal roofing and (box) pattern metal roofing panels. Featuring elongated blades with compact jaws to create a steep 75-degree offset for a nearly vertical approach when starting a cut. **Scan the QR Code above for a quick video!**

Malco Products, SBC • Annandale, MN. U.S.A.
www.malcotools.com ©2021

Drill Not Included.



2021 METAL OF HONOR WINNER

McElroy Metal

METAL OF HONOR AWARDS: 16 ■ **WEBSITE:** www.mcelroymetal.com ■ **PHONE:** 318.747.8000

McElroy Metal is a third-generation family-owned components manufacturer that works hard to help its customers succeed. McElroy Metal customers are working in a variety of construction markets, ranging from post-frame buildings to high-rise offices and hotels.

One area of success in recent years has been the roof re-cover market, specifically, the metal-over-metal roof re-cover. McElroy Metal developed the 238T symmetrical standing seam roofing system to allow roofers to re-cover existing metal roofing systems that have outlived their service life without a tear-off, protecting the contents within the building and allowing the operations under the roof to continue.

McElroy Metal offers multiple methods of metal roof re-cover that feature the 238T system, setting a new standard for performance with ease of installation, outstanding wind uplift and strength characteristics, individual panel replacement capability, and job site roll forming for long length panels. To meet the demand for specialty panels, 238T is also available tapered and curved.

Because the panels are symmetrical, 238T can be installed from either end of the roof or even from the center out. Symmetrical panels also allow for individual panels to be removed and replaced if they become damaged. Galvalume, 238T's standard substrate, has a roof life expectancy approaching 60 years, so having the ability to replace one or two damaged panels, as opposed to an entire roof, could offer significant savings for the building owner during that time. **MOH**



2021 METAL OF HONOR WINNER

MWI Components

METAL OF HONOR AWARDS: 14 ■ WEBSITE: www.mwicomponents.com ■ PHONE: 800.360.6467

MWI Components is thrilled to receive the Metal of Honor award from the readers of *Metal Roofing Magazine*!

After a crazy year, our goal is to continue providing products that will please all types of builders—teaming with them as they tackle new projects and structures requiring metal roofing.

We specialize in roofing accessories and ventilation products, such as Ridg-Vents®, Uni-Vent®, and decorative cupolas. Plus, we've recently started manufacturing our own foil insulation, Infinity Shield™. Our foil has an extremely beneficial 2" crushed-edge tab, which eliminates measurement guessing when overlapping. Also, there is no seam on 6' and 8' rolls!

Uni-Vent® and Universal Ridge Clips

offer the most convenient method for venting standing seam and corrugated roofing panels. With Uni-Vent® II, there is no need to be profile specific, since the product conforms to the rib panel. For those who prefer profile-specific systems, our Uni-Vent® Pro-Series is available for 6" OC 7-rib, 11.66" OC 4-rib, or 9" OC. Our Uni-Vent® III provides the same conforming benefits as Uni-Vent® II, but this product is applied directly to the ridge (prior to fastening the ridge). Finally, our Universal Ridge Clip will provide assistance with standing seams by eliminating the need for "Z" closure installation.

Cupolas offer the perfect decoration for any metal roofing project. We offer 24", 36", 48", and 66" square cupolas as well as 48" and

84" octagon cupolas. All models are available with or without windows to decorate a commercial, residential, or specialty project.

MWI also has route trucks in many areas, so customers can conveniently combine products to reduce freight costs, inventory, and challenges.

Thanks to our outstanding customers, we have been able to support the post frame and metal roofing industry for over 35 years while becoming a leading manufacturer/supplier of cupolas, Ridg-Vents®, steel and aluminum soffits, trim, horse stalls, Dutch and sliding doors, door track, polycarbonate skylight panels, and foil insulation.

Once again, we offer our sincerest appreciation for awarding us with a 2021 Metal of Honor! **MOH**

REAL YEAR.
reels of stories.
BUT MOSTLY... Real Honored.
Thank you to our customers for your continued support!

METAL ROOFING MAGAZINE
METAL OF HONOR
2021

800.360.6467

MWI COMPONENTS

QR CODE: www.mwicomponents.com

2021 METAL OF HONOR WINNER

Reed's Metals

METAL OF HONOR AWARDS: 1 ■ **WEBSITE:** www.reedsmetals.com ■ **PHONE:** 800.581.4645

For over 23 years, Reed's Metals, headquartered in Brookhaven, Mississippi, has been an industry-leading provider of metal roofing systems, metal roofing panels, pole barns, and pre-engineered steel buildings in the South. Reed's is comprised of 9 sites utilizing state-of-the-art technology and fabrication methods to provide unprecedented quality and service—offering same-day availability on standard roofing orders and in-stock supplies, on-site roll-forming for standard seam projects, and job-site delivery within 72 hours on most projects.

Our offerings include pre-engineered metal buildings, post-frame structures, tube building structures, and stor-



age solutions. Our quality products come with an industry-leading warranty and we have a huge selection with over 20 colors and 10 metal panel profiles available.

The continued growth and success of Reed's Metals is due to our dedicated employees and our loyal customers who have chosen and installed our resi-



dential, agricultural, commercial, and industrial products all across the region. Customer service is and will remain our top priority!

For additional information, please visit www.reedsmetals.com or call today at 800.581.4645. **MOH**

REED'S METALS

reedsmetals.com

FEATURES & BENEFITS

- Metal Roofing, Post Frame and Tube Buildings, Pre-Engineered Metal Buildings & Storage Solutions
- Up to 45-Year Written Paint Warranty
- Weather Resistant, Durable & Quality Products
- Fast and Reliable Deliveries

Order Today, Pick Up Today on most in-stock items! • Buy Direct and Save!



Headquarters - Brookhaven, MS 601-823-6516 • Benton, AR - 501-776-3825 • Florence, AL - 256-764-7943 • Horseshoe Beach, FL - 352-498-0100
Jackson, TN - 731-300-3200 • Jasper, TX - 409-384-5777 • Scott City, MO - 573-803-4700 • Sulphur, LA - 337-625-5051 • Tupelo, MS 662-869-7797



2021 METAL OF HONOR WINNER

S-5!

METAL OF HONOR AWARDS: 11 ■ WEBSITE: www.s-5.com ■ PHONE: 866.468.1334

The Right Way® is not just a slogan—it is our credo and rule of conduct. Having served the industry since 1991 as the original inventor of an all-new and distinctive product category, we have the knowledge, research, engineering, testing, production capability, ingenuity, and expertise to develop and manufacture our products like no other.

Simple Solutions: With 60 issued patents and a track record of 30 years as the industry's leading provider of metal roof attachment technologies, S-5! is dedicated to offering permanent solutions for the life of the metal roof. It's our *only* business.

Continuous Innovation: S-5! continues to innovate new and better solutions and is in a constant improvement, invention/reinvention mode within the space we originally created.

100% Made in the U.S.A.: Made in our own automated facility, S-5! products are sold in 40 countries and installed on

2+ million metal roofs worldwide with never a single documented product or system failure.

Certified Material; Certified Manufacturing: Our manufacturing plant represents state-of-the-art equipment and automation, certified to ISO 9001-15 quality assurance standards. We use only certified raw material and are regularly audited.

Certified Testing: We use only ISO 17025 accredited testing labs following strict ASTM standards. Accepted by the International Code Council, S-5! established the industry's testing protocols and has conducted 3,000+ individual load tests on every conceivable metal roof profile in numerous gauges and materials.

Warranties: S-5! confidently stands behind its quality assurances with the industry's only lifetime product and performance warranties on all goods sold. **MOH**

ColorGard®

**Tested.
Trusted.
Engineered.**

S-5!®
The Right Way!®

- Fully engineered systems, Registered PE stamp available in all 50 states
- Proven Performance Since 1992
- Limited Lifetime Performance Warranty available*
- NEW Project Configurator tool to help design projects from start to finish
- Load tested for holding strength on 500+ different roof profiles, materials & gauges

*Visit our website for warranty details



OFTEN IMITATED, NEVER DUPLICATED

The Metal Roof Experts™

888.825.3432 | www.S-5.com

Contact your S-5! distributor to learn more about ColorGard.

2021 METAL OF HONOR WINNER

Snap-Z

METAL OF HONOR AWARDS: 6 ■ WEBSITE: www.standingseamroofvent.com ■ PHONE: 717.572.0910

The journey began in 2014 when a customer requested an alternative ridge vent. Since what they were looking for did not yet exist, this sparked our desire to engineer and manufacture a revolutionized ridge vent. The new product needed to satisfy the demands of the market and speed up the installation process on a standing seam roof.

Our goal has always been to simplify the installation process for standing seam ridge vents. We make it our highest priority to deliver a quality product that not only meets, but exceeds, the standard expectations in the standing seam roofing industry. We strive to provide innovative, time-efficient products to ease the difficulty of installing standing seam

ridge ventilation systems.

Our simple commitment: We follow the commands of Christ and commit to treating you like we want to be treated. We will do our best to deliver fast, quality service, every time you need it.

The Snap-Z product allows installers to vent the peak of a standing seam metal roof in a way that air is allowed to flow, yet water and snow infiltration are restricted. The design of the Snap-Z is unique in the marketplace, a new product designed in-house by Snap-Z to work with 1" open-hem metal ridge caps. It fits between the ribs of standing seam roof panels. A simple, unique, two-step process makes installation of the Snap-Z a breeze, and saves both time and money with its speed

and efficiency: 1. Using screws, install one Snap-Z on each side of the ridge of the roof. 2. Take the ridge cap and slide it onto the Snap-Z. Then fasten the ridge cap to the Snap-Z with a minimum of three pairs of pop rivets per 10' of ridge cap.

Snap-Z is cut to the length desired by each customer. Product specifications include:

- Net Free Area: Up to 15 square inches per 1 linear foot of ridge
- Snow Infiltration: 0
- Withstands 120mph wind-driven rain
- Withstands winds up to 110mph
- Air Flow: 730 cubic feet per min (per 10' ridge)
- Rib Height: 1", 1½", 1¾", 2"

For more information, call us at 717.572.0910. **MOH**



Standing Seam Metal Roof Ventilation Systems "Done Right"



"24 Hour Turn-Around"



Order Snap-Z In Black and we will ship it the next business day!
("The color contrast is hidden in the shadow line")

**Order With
Preapplied Butyl Tape**



**Precut to Fit Your
Standing Seam Panel!**

**Now Offering
Prepunched Fasteners**



**Made For
1", 1.5", 1.75", 2" Rib Height!**

www.standingseamroofvent.com

**Call For More Information
717-572-0910**



ST Fastening Systems

METAL OF HONOR AWARDS: 10 ■ WEBSITE: www.stfasteningsystems.com ■ PHONE: 800.352.4864

ST Advantage...Value Added Innovation



Your Total Source for Fastening and Sealing Systems



ST Fastening Systems is a leading supplier of threaded fasteners to the pre-engineered metal building and post frame building industries. Product is shipped from two convenient service centers in Tyler, Texas, and Cincinnati, Ohio.

The heart of the ST Fastening product line is the MAXX SteelBinder® self-drilling screw. Its drill point design consistently penetrates high tensile steel with no "point walking." The KWIKSEAL WoodBinder® MB with micro-bit engineering has a unique drill point that replaces the Type 17 sharp point. The micro-bit is more consistent in its drilling. It will drill multiple thicknesses of steel commonly found in metal roof ridge cap applications more consistently than a sharp point. Metal "pig tails" caused by sharp points are eliminated.

Zinc plating and clear chromate is standard on all metal building and post frame building screws. State-of-the-art Powderful® powder coating paint is an environment-friendly process that uses no chemical solvents and provides a tough barrier coat shell.

For metal roofs offering a 40-year or longer written warranty, the ZXL SteelBinder® and ZXL WoodBinder® MB micro-bit drill point complete the system. Both have a ZAMAC zinc aluminum alloy molded head. A written warranty is available upon request. Pipe flashings, solid and vented foam closures and rolls, wafer and pancake screws for standing seam roofs, and other accessories are available. Rounding out the 2021 ST product line is the new #12 T-17 WoodBinder® and ZXL for OSB applications, and the newly introduced MultiVent20™ ventilation material. Call for more information.

ST Fastening would like to thank the readers of *Metal Roofing Magazine* for awarding it a Metal of Honor award in 2021. **MOH**

ST Fastening Systems
A Division of The Hillman Group

www.stfasteningsystems.com
Call Today! 800.352.4864
Built Strong Through Innovation



2021 METAL OF HONOR WINNER

Triangle Fastener Corporation

METAL OF HONOR AWARDS: 17 ■ **WEBSITE:** www.trianglefastener.com ■ **PHONE:** 800.486.1832

Triangle Fastener Corporation has been supplying a full line of fasteners, sealants, tools, and accessories for the commercial construction industry since 1977. From our 23 locations and 7 paint shops, we specialize in high-performance standard and specialty products used in a wide range of roofing applications.

We offer job site and technical support, inventory management, and delivery programs. Select from a wide array of popular commercial-grade products, including our high-performance TFC SPECIFIC™ brands.

Call us toll-free for more information:
800.486.1832. **MOH**

Corporate Office:

Triangle Fastener Corporation
1925 Preble Avenue
Pittsburgh, PA 15233

Phone:

800.486.1832

Fax:

412.321.7838

Website:

www.trianglefastener.com



ATTENTION BUILDER AND SPECIFIER

TRIANGLE FASTENER offers the largest selection of fasteners, tools and accessories for the metal construction industry.

We stock over 20,000 different standard and specialty items that are available from any of our 23 locations.

Call us toll-free, and you will be connected to the most knowledgeable application specialist.



- Standard and Specialty Products
- Engineering Support
- Inventory Management
- Product Training
- Job Site Assistance
- FAST SERVICE!



TFC
TRIANGLE FASTENER CORPORATION

800.486.1832
www.trianglefastener.com



FASTENERS

- METAL
- WOOD
- CONCRETE
- DRYWALL



SEALANTS

- SEAL
- FLASH
- COAT
- ADHERE



TOOLS

- DRILL
- CUT
- SAW
- INSTALL

2021 METAL OF HONOR WINNER

Union Corrugating Company

METAL OF HONOR AWARDS: 1 ■ WEBSITE: www.unioncorrugating.com ■ PHONE: 888.685.7663

For three-quarters of a century, Union Corrugating Company, headquartered in Fayetteville North Carolina, has served the metal building components market. Fast forward to 2021, and Union Corrugating Company is proud to celebrate 75 years as an industry leader serving the residential, commercial, and agricultural roofing and siding markets from 10 manufacturing facilities located throughout the central and eastern U.S.

Union Corrugating Company manufactures metal roofing that's more durable, efficient, and sustainable with minimal environmental impact. Our unique distribution system provides the fastest and most reliable deliveries in the industry. Our support network ensures you'll get what you need, when you need it. Your Roof. For Life. On Time and Complete!

We've seen a lot of changes over the years, but one thing remains the same: we are focused on delivering quality products, superior service, and value for our customers. We appreciate



our customers, partners, suppliers, and vendors for their loyalty and support during the last 75 years.

Most recently, Union Corrugating Company was awarded a 2021 Metal of Honor Award and Lowe's 2020 Building Material Supplier of the Year. We are truly honored. For additional information on Union Corrugating products or services, please call 888.685.7663 or visit www.unioncorrugating.com. **MOH**



*Your Roof. For Life!
On Time and Complete!™*
www.unioncorrugating.com



- Metal Roofing, Metal Panels, and Metal Building Solutions
- Up to 45-Year Written Paint Warranty
- Industry leader serving the residential, commercial, and agricultural roofing and siding markets
- Durable, Efficient, and Sustainable
- Over 20 colors and 15 metal panel profiles to select
- Superior Customer Services
- No Coastal Set Backs

Headquarters - Fayetteville, NC - 888-MTL-ROOF, 888-685-7663 • Morrison, TN - 931-668-4393 • Tifton, GA - 800-962-9131 • Tipp City, OH - 877-615-9812 • Orange, VA - 800-762-6785
Ocala, FL - 800-331-3584 • Vicksburg, MS - 888-661-0577 • Yukon, OK 73099 - 866-373-5286 • Dunmore, PA - 570-383-2847 • Janesville, WI - 877-615-9812



PHOTO COURTESY OF
JAMAICACOTTAGESHOP.COM



GARAGE • SHED • CARPORT **BUILDER SHOW**

CENTURY CENTER • SOUTH BEND, INDIANA
NOVEMBER 4-5, 2021

PRESENTED BY SHIELD WALL MEDIA,
PARENT COMPANY OF GARAGE, SHED & CARPORT BUILDER MAGAZINE

SPONSORED BY:



FOR MORE INFORMATION CONTACT GARY REICHERT:
gary@shieldwallmedia.com • 715-252-6360

Ventilation and Moisture Control

Industry experts share their tips and tricks for the selection and installation of ventilation and moisture control for metal roofing assemblies

We asked manufacturers and suppliers of roofing ventilation and moisture control products for their top recommendations when choosing and sourcing these items, as well as for general tips for their installation. Here is the information they provided:



www.dripstop.com

Two important aspects metal roofing contractors should consider when choosing and sourcing ventilation and moisture control products:

- The time to talk about moisture control and ventilation is *before* construction. Afterward, solutions are limited and can become costly.
- Consider the area's climate, building use/purpose, and building contents, both now and in the future. Ventilation and moisture control solutions will be dependent on these.

Two general tips or tricks that metal roofing contractors should know regarding the installation of ventilation and moisture control for metal roofing assemblies:

- Ventilation requires both "input" and "output" to work. Insufficient eave venting is a common problem.
- If powered ventilation is chosen, consider adding a hygrometer, which monitors humidity levels and activates the system as needed.



Roofing Ventilation & Accessories

www.marcoindustries.com

When choosing ventilation and moisture control products, roofing contractors should follow these guidelines:

- You must correctly calculate the amount of ventilation required for the application (based on local building code requirements), then determine the best ventilation product to use based on that calculation.
- The slope and layout of the roof are important. Make sure the

ventilation product you choose is acceptable for your roof slope. Some metal roofs are approved for low slopes and these sometimes require special ventilation considerations. Hip roofs can be tough to get adequate ex-take ventilation on due to the lack of ridge at the top of the roof. Long, narrow structures with longer ridges are good candidates to add too much ex-take ventilation.

The top two installation problems to be aware of are:

- Not calculating the ventilation required correctly, or choosing an incorrect ventilation product, can lead to an imbalance in the intake/exhaust, stifling the airflow. This stagnant air will cause an eventual moisture buildup in the attic, which can then lead to mold and other expensive costs—up to and including replacement of the current roof system.
- Avoid too much ex-take ventilation for the amount of intake. This can turn your ex-take products into intake instead. Spend the extra time it takes to calculate the ex-take needs properly based on attic space and specifications of your intake vents.



BUILDING PRODUCTS CORP.

www.mfmbp.com

Our general tips for ventilation and moisture control are brief, but still very important:

- When using a self-adhered underlayment, remember that these are also air and moisture barriers—you have to allow for proper ventilation of the roof deck when using these types of underlayments.
- Proper ventilation of the roof deck will extend the service life of any underlayment that is applied under metal roofing systems.



Regarding ventilation and moisture control for metal roofing, our recommendations are:

- Proper ridge ventilation and the use of foil insulation are

PRODUCT FEATURE

preventative measures worth exploring when considering moisture control. The relationship between intake and exhaust is crucial with relation to moisture control.

- Always consider the intake-to-exhaust relationship; in the event the intake and exhaust are not equivalent, a slightly larger intake than exhaust is preferred.

When installing ventilation and moisture control products, refer to these tips:

- One should always consider the architectural specifications with respect to building size and scope, as every build is different.
- Avoid the thought process that “bigger is better”—always aim to match the ventilation system to your building’s needs and consult an expert if you are unsure. For example, improper use of a high-profile ventilator/ridge vent on a building that does not require a high-profile ridge vent can lead to the suction of elements (snow, rain, etc.) into the building through the ridge, causing moisture concerns and possible damage.
- It’s also important to note/be aware that foil insulation is a useful (yet inexpensive) vapor barrier. Because traditional insulation absorbs heat, it also absorbs moisture. This reduces the R-value over time as traditional insulation compresses from moisture. Meanwhile, foil insulation utilizes reflectivity rather than absorption.



www.plyco.com

Essential considerations for choosing and sourcing ventilation and moisture control products:

- Proper ventilation is critical but it is not a “one size fits all” situation. The building end use, temperature regulation needs, and air quality requirements are all important in determining the amount of airflow required.
- There are a number of ways to improve airflow and ventilation, so typical roofing products such as ridge vents and cupolas should be considered in conjunction with doors (walk doors, slide doors, and overhead doors), windows, wall louvers, and mechanical ventilation products.

Tips for the proper installation of ventilation and moisture control products:

- For proper flow of air out of the ridge vent, equal amounts of make-up (intake) air must be provided into the attic or building. We recommend soffit vents, louvers, or windows spaced along both sides of the building to provide make-up air year-round.
- Use simple calculations to determine the amount of airflow needed. Then ensure you size the products to match, verifying the length, width, and height, as these measurements will determine the airflow.



www.roofaquaguard.com

Important factors to note when choosing ventilation and moisture control products:

- The ventilation concerns of residences are greater than the typical concerns of larger structures. You can “get by” with ventilation in buildings with large open spaces and lots of air movement, but you can’t do that with residences.
- The stakes are high. Houses are “tighter” than ever before, increasing the need for ventilation. If you sell a roof for a home, you really need to concern yourself with ventilation—make it clear to the property owner if they have potential concerns, and give them options to rectify those concerns.

General tips for the installation of ventilation and moisture control for metal roofing assemblies:

- Ridge vents are common leak points on roofs and must be firmly sealed to the roof system.
- Having inadequate intake vents in the attic can cause ridge vents to work in reverse, actually drawing in air and weather—never a good thing.



www.profilevent.com

Regarding the importance of ventilation and moisture control products:

- Condensation can become a problem during the colder months if you don’t have the necessary attic vents. This can lead to a range of issues including stained ceilings, mold, and structural damage to the rafters and trusses. The roof decking may swell, buckle, or rot, reducing the amount of weight it can bear. Excessive moisture can also lead to poor indoor air quality, which can result in respiratory issues.
- Reduce the likelihood of ice dams, which form at the edge of the roof and prevent melting snow from flowing off the roof. Ice dams occur when the higher parts of the roof are warmer than the lower parts. To prevent ice dams, you need metal roof ventilation that balances the temperatures on the interior and exterior of the home.
- The longevity of a roof depends on more than the roofing that is chosen. Regardless of whether in a warm climate or a cold one, you need to ensure that the roof ventilation is up to par. Vents allow fresh air into the attic and let stale air out. With proper ventilation, not only will the roof last longer, but many of the interior and exterior issues that result from poor ventilation can be avoided. **MR**

To Reroof or Recoat?

A look into the market's opposing opinions

When a metal roof begins to fail, most building owners assume they need a full new roofing assembly, whether or not the current one has reached its anticipated lifespan. Luckily, that is not always the case. Roof coatings have come a long way toward extending a roof's life; retrofit systems can also save the hassle of removing the old, existing roof. Here, we dive into details on both sides.

"Team Recoat"

By Tim Simpson of Ames Research Laboratories

When choosing to recoat a metal roof, there are numerous factors to consider. First is selecting the proper coating system. It must bond well to the present metal roof, protect the roof from further deterioration, solve leak issues, and offer the desired finished appearance. The process begins with a roof survey to identify the condition of the existing roof, with the goal of addressing the following:

- What type of surface currently exists? Metal roofs can be made up of a variety of materials, including galvanized iron, baked-on enamels, fluoropolymer, or powder-coated metal, or could have been previously coated with aftermarket materials.
- The roof may need repairs to seams, fasteners, connections, penetrations, or surface-mounted item connections.
- The building owner may wish to reduce solar heat transmission into the building to lower climate control expenses.

Due to the many variables in metal roofs and their factory-applied coatings, one roof recoating system may be a good fit for a certain type of roof while another may not. Existing coating technology, such as factory-applied fluoropolymer, was created from high-performance resins and fluoropolymer lubricants. These types of coatings are virtually self-cleaning, maintain a high gloss finish, and have excellent resistance against solar exposure. Recoating over this type of prefinished roof needs a careful approach, as cleaning, preparing the surface, applying a special bonding primer, and finish coating are imperative to create a finish that will adhere and perform well. This is due to the fluoropolymer additives in the existing coating that create a slick, hard-to-adhere-to surface. Install test areas of the proposed coating on the existing roof to confirm good bonding, etc.

When coating older galvanized metal roofing panels, the roof needs to be power-washed to remove any pollen, dirt, or loose oxidation of the zinc galvanizing. Newer galvanized metal panels also need to be checked for thin film oils, applied at the factory to prevent sticking of the panels during transport, and premature formation of white rust.

When coating existing metal roof panels that may have baked-on enamel, powder coating, or aftermarket paints, the surface also needs to be pressure-washed and tested for adhesion. The existing coatings may have oxidized over the years, leaving a visible film that can rub off. A rule of thumb is if oxidized residue rubs off on your finger, the surface needs to be cleaned thoroughly—possibly with the assistance of a detergent.

If the metal roof has seam, fastener, flashing, or penetration issues, the manufacturer's recommendations for completing detail repair work need to be adhered to. On a deteriorated roof, this detail work can get quite extensive, taking as long to com-



Coatings can be applied to older (even rusted) roofing panels if the necessary preparation steps are completed. Photo courtesy of Ames Research Laboratories.

plete as the actual coating's application (or longer).

Properly applying the coatings is the next step, while keeping these considerations in mind:

- Have you applied a field sample or panel so the owner can approve the product choice? They will want to see the sheen, color, texture, and overall uniformity of the surface.
- If roller-applying, the nap of the roller can change the reflective values and apparent sheen of the finished product. If too much texture exists to apply by roller, then spraying may be the best option. However, spraying triggers an additional set of concerns, such as overspray, which may require extensive masking.
- Weather is always a consideration when coatings are being applied to metal roofs. The coating manufacturer's recommendations need to be followed closely during both the application and cure time. Too-cool weather could slow or prevent proper curing, and too-hot weather could create sheen and

texture issues. Extremely hot weather can prematurely cause coatings to surface skin over before the material has properly evaporated its solvents or water. This can create entrapment of uncured material under the surface—considered a coatings failure.

The benefits of recoating an existing metal roof in lieu of installing a brand-new metal roof are many:

- Recoating of existing metal roofs is less expensive than replacement.
- Applying solar reflective coatings to an existing roof can give better energy performance than simply replacing one metal roof with another.
- There is less disruption to many facilities when a roof is recoated, as material staging areas are smaller and the overall work footprint is reduced.
- Site debris and pollutants are drastically reduced.
- Less overall energy is consumed in recoating than in a full tear off and replacement.
- Exposing the roof to leaking while the roof is removed is not a consideration when over-coating the existing roof. In some areas subject to frequent precipitation, this can be a big concern.

Although some repairs may be needed with roof recoating projects, there is a point where a full replacement should be considered, such as:

- The metal has deteriorated to the point of being structurally unsound.
- The existing roof has been deemed “uncoatable” by coating manufacturers.
- The roof has been damaged by hail or is otherwise no longer aesthetically viable if visible to the public.
- The combined cost of repairing and recoating the roof is greater than the cost to replace the roof.

When considering warranty requirements for owners, available warranties can vary depending on the number of coats applied, if the coating system required detail work that has been completed, and if certain quality control measures have been followed. Manufacturers’ warranties are frequently for material performance, and the

VS-150



- 1" & 1-1/2" "Mech Lock" Standing Seam
- Snap Lock Panels & more!
- Quick and Easy profile changeover
- Buy Now and receive a **FREE** Decoiler



ROLL FORMER CORPORATION

Ph: 215.997.2511 • Fx: 215.997.5544 • www.rollformercorp.com

Email John Dumke - jdumke@rollformercorp.com

Our most versatile, multiple profile machine.....forming seven 1" and 1-1/2" profiles.



1" & 1 1/2"

STANDING SEAM

FIX ROOF LEAKS GUARANTEED

Manufacturing the Very Best Contractor-Grade Roof Coatings!

BUTYL LIQUID RUBBER



Key Benefits

- Will take ponding water 365 days a year!
- One-Coat Application
- Never a primer needed
- Withstand temps from -40-250F
- Forms a 100% seamless membrane
- Solvent Based System
- ASTM Tested
- Energy Star Rated
- Cool Roof Rated Council
- Self-levels to a seamless membrane
- Withstands ponding water 365 days a year



EPDM
coatings

WWW.EPDMCOATINGS.COM

**25 YEAR HISTORY
OF SUCCESS**

PH: **610.298.1989**

Contractor Pricing Available!

contractor applying the materials is responsible for issuing an installation and service warranty.

Metal roofing contractors often deal with many repeat customers and rely on making well-informed recommendations. Installing a metal roof may result in the same customer calling years later for advice on replacing, repairing, or recoating the roof. Common sense would dictate that the best value for your client is also the best for *you* in the long run, as satisfied customers tend to lead to referrals. Recoating of aged metal roofs can be a valuable tool in your tool pouch for creating additional sales.

“Team Reroof”

By Dale Nelson, President of Roof Hugger, LLC

Every year, building owners and contractors coat many millions of square feet of existing metal roofs with several different products. Why do they do this and what do you gain by coating?

The reasons are varied, but basically can be boiled down to a few major problems:

- Roof leaks (the most common)
- Desire to improve the thermal efficiency of the existing roof

Right: This roof was likely not prepared properly before coating, leading to blisters and peeling.

Below: Retrofit systems installed over an existing roof allow for added insulation. *Photos courtesy of Roof Hugger, LLC.*



- Extending the remaining life of the existing metal panels to put off replacing the roof

So why recoat an existing metal roof as opposed to installing a new metal roof?

- The first answer is easy: Coating an old metal roof is cheaper than installing a new metal roof.
- The reflectivity of the roof is increased.
- The surface corrosion is slowed.
- In the case of liquid-applied roofing, you have the above benefits plus the roof leaks have been stopped.

That all sounds great, but is there a catch? Yes, there are several:

- Before you coat anything, remember many metal roofs have 25-year (or more) finish warranties. Coat it, and you will void any warranty that may exist.
- A simple roof coating is not intended to stop roof leaks—it

may for a while, but it will be short-lived.

- The cost is between 25% and 70% of a new metal roof.
- The reflectivity achieved when the coating is new is typically reduced by 60% by the end of the first year without regular maintenance.
- All coatings must be applied to a clean, dry, and oil-free surface. Badly rusted metal roofs are very difficult to properly prepare. Prep and good application are critical to getting a good bond. Metal roofs have lots of edges and irregular shapes to cover: fasteners, penetrations, end-laps, side laps, ridge caps, rake edges, etc. Blisters, pinholes, fish eyes, craters, and other imperfections are common in coating applications.
- Metal roofs are always moving. A typical 26-gauge steel roof will expand about 1" per 100' of panel run. When the roof heats in the sun or a cloud passes over or it gets rained on, the metal moves. This thermal cycling occurs all day, every day, so the coating must stretch and contract also.
- Constant movement and UV exposure leads to the coating breaking down and cracking (some very quickly).



- Imperfections from application problems and thermal/UV cracking will trap moisture between the coating and the metal roof. This trapped moisture will actually accelerate corrosion of the metal and reduce the remaining life of the panels.

So why would a new metal roof be better than coating the old one? A few reasons to consider:

- A new metal roof can often be installed over the existing metal roof, minimizing disruptions to ongoing operations.
- It will increase the thermal efficiency of the roof. Retrofitting over the top of the existing roof creates a cavity that can be insulated and/or ventilated to increase the energy efficiency of the building.
- The new roof will be compliant with current building codes. Many old roofs were designed to withstand 80 to 110 mph winds. The new codes start at 110 mph and go up to 175 mph and beyond.
- The new roof will meet the current snow load requirements (that have also increased in many parts of the country).
- A new zinc-aluminum (Galvalume or equal) coated metal roof has a 60-year service life. Twenty-five years and beyond weathertightness warranties are available.
- Old screw-down roofs can be upgraded to new standing seam roofs, which are also the ideal platform to add future photovoltaic systems.

Why spend 25% to 70% of the cost of a proper, fully code-compliant metal roof for a short-term solution that only moves the repair back a couple years? You can put a patch on an old, bald tire and it may last for a little while longer, but you still have an old, bald tire. Coating will not make an old metal roof a new metal roof—only a new metal roof will do that. **MR**

project of the month

www.drexelmetals.com

Project Overview

Location: Perkiomenville, Pennsylvania

Roofing Panels: Drexel Metals 450SL 1½" Snap Lock Panel Roof System

Panel Gauge and Substrate: 24-Gauge Galvalume

Panel Finish: Fluropon® 70% PVDF in the shade of Inkwell (low gloss) by Sherwin-Williams Coil Coatings

Installer: Global Home Improvement



Victorian Residence Poses Unique Challenges

When his elaborate Victorian-style home was in need of a new roof, one Pennsylvania homeowner jumped at the opportunity to elevate the residence's aesthetics and add to the building's already-distinctive architecture.

The answer was found in Drexel Metals' 450SL Snap Lock Panel Roof System in a trendy charcoal gray named Inkwell. Due to the roof's complex structure, custom fabricated panels and flashings were required on the entire project. Combined with a coordinating clip, the selected Snap Lock profile creates a continuous interlocking system that can be installed quickly. "Quick" is a relative term on a project like this, where completing the turret required the use of a 40' boom for access.

The roof system is also designed with a concealed fastener and clip application, which allows for the necessary thermal expansion and contraction to help keep the beautiful roof straight and true. **MR**



(ABOVE) After.
(LEFT) Before.
(BELOW) During.



GET MORE INFORMATION ABOUT PRODUCTS & SERVICES SEEN IN THIS ISSUE. HERE'S HOW:



If you are looking for more information from companies featured in this issue, fill out this form.

Mail the completed form to us, and we will have those companies get in touch with you. There's no need to fill out multiple forms; we'll do the legwork for you.

Name (please print) _____

Signature (required) _____

Company _____

Address _____

City _____ State _____ Zip _____

Telephone (_____) _____

E-mail _____ Date _____

Please check one or more boxes to subscribe FREE/Renew for 3 years:

- ☐ *Garage, Shed & Carport Builder Magazine* ☐ *Frame Building News* ☐ *Metal Roofing Magazine*
☐ *Rural Builder* ☐ *Rollforming Magazine* ☐ *Roofing Elements Magazine*

I would like to receive my subscription: ☐ By Mail ☐ Digitally

☐ Check this box if you wish to receive our Builders' Express newsletter and offers from our partners.

☐ Check this box if you wish to receive our Roofers' Express newsletter and offers from our partners.

Email address is required to receive newsletter.

**CONTACT NAME & EMAIL (OR) NAME & PHONE NUMBER ARE REQUIRED.
WITHOUT THIS INFORMATION WE WILL NOT PROCESS THE REQUEST.**

CHECK WHICH TITLE APPLIES TO YOU:

- ☐ President
☐ Owner
☐ Partner
☐ General Manager
☐ Sales Manager/Rep
☐ Engineer/Architect
☐ Vice President
☐ Foreman
☐ Installer
☐ Other _____

PLEASE CHECK THE PRIMARY CATEGORY THAT DESCRIBES YOUR BUSINESS:

- ☐ Builder, Dealer, Remodeler
or Installer
☐ Roofing Contractor
☐ Metal Roofing Contractor
☐ Building Material Dealer/Distributor
☐ General Contractor/Remodeler
☐ Manufacturer/Rep of Manufacturer
☐ Architect/Specifier
☐ Construction Consultant/Engineer
☐ Building Owner/Developer
☐ Other (Please Specify) _____

ENGAGED IN THE FOLLOWING APPLICATIONS:

- ☐ Gutters/Accessories
☐ Institutional
☐ Residential
☐ Agricultural
☐ Commercial
☐ Industrial

**SELECT A MAXIMUM OF 5 COMPANIES
TO REQUEST INFORMATION FROM:**

Company Name: _____ PAGE: _____

Company Name: _____ PAGE: _____

Company Name: _____ PAGE: _____

Company Name: _____ PAGE: _____

Company Name: _____ PAGE: _____

I understand that by providing the above information I hereby consent to receive communication regarding my subscription via US Mail, telephone, and e-mail sent by *Metal Roofing Magazine*.

Valid until June 30, 2021

MR APRIL 2021

Send to: Barb Prill • P.O. BOX 255 • Iola, WI 54945; barb@shieldwallmedia.com

INDEX OF ADVERTISERS

ASK THESE ADVERTISERS ABOUT THEIR PRODUCTS TODAY!

Company	Page #	Company	Page #	Company	Page #
ABC Supply.....	12, 13	Malco Products.....	42	Titanium.....	26, 27
Ace Clamp.....	CVR, 34	Marion Manufacturing.....	59	Triangle Fastener.....	49
Acu-Form.....	8	McElroy Metal.....	CVR, 43	Union Corrugating.....	CVR, 50
AkzoNobel Coatings Inc.....	CVR, 14, 15	Metal Rollforming Systems.....	6	United Steel Supply.....	8
ASC Machine Tools.....	8, 35	MFM Building Products.....	24, 25	Universal Tube & Rollform Equipment Co. 9	
Bradbury Group, The.....	8	Michiana Quality Roofing.....	8	Ventco.....	32, 33
Direct Metals.....	8, 38	MWI Components.....	44		
DrIpstop - FILC.....	18, 19	Petersen PAC-CLAD.....	28, 29		
Drexel Metals - Carlisle Construction Group.....	16, 17	ProVia.....	IFC		
Dynamic Fastener.....	20, 21	Rapid Materials.....	CVR		
East Coast Fasteners.....	39	Raytec Manufacturing.....	7		
Englert Inc.....	22, 23	Reed's Metals.....	CVR, 45		
EPDM.....	55	Replications Unlimited.....	9		
Express Barns.....	8	Roll Former Corporation.....	55		
Golden Rule Fasteners.....	8	Roof Hugger.....	37		
I Beam Sliding Doors.....	3	S-5!.....	46		
International Roofing Expo.....	67	Safeway Door.....	9		
Leland Industries Inc.....	40	Sherwin-Williams Coil Coatings.....	30, 31		
Levi's Building Components.....	41	Snap Z.....	47		
Logan Stampings.....	36	Snow Stoppers.....	9		
		ST Fastening Systems.....	48		



**MARION
MANUFACTURING**

- Automation Systems
- Metal Construction Rollformers
- Coil Processing
- Forming & Fabrication
- Recondition Existing Machines

WE ADD THE VALUE TO METAL

1-888-865-8740 www.marionmanufacturing.com

**A WHOLE NEW
EXPERIENCE!**

**METAL ROOFING
2021 ONLINE
BUYERS' GUIDE**



**TAKE A
LOOK FOR
YOURSELF!**

www.metalroofingmag.com

**OR SIMPLY SCAN
THE QR CODE**

**ON ANY AD WITH YOUR PHONE
AND PICK AN OPTION TO
CONNECT TO MANUFACTURERS.**



**DOWNLOAD OUR
FREE BACK ISSUES**

<https://bit.ly/3r8ZDov>



ROOFING

technologies

■ DEDICATED TO TECHNOLOGY IN THE ROOFING INDUSTRY ■

THERMAL CAMERA



R

FORWARD-LOOKING INFRARED

SEEING "THROUGH" THE ROOF

CONSTRUCTION ROLLFORMING SHOW — COMING JUNE 2021



2021

LIVE IN LAS VEGAS
AUGUST 10-12

MANDALAY BAY CONVENTION CENTER

CONNECTING THE INDUSTRY

THE PREMIER EVENT FOR THE INDUSTRY

The International Roofing Expo is where contractors, remodelers, and builders connect with manufacturers to discover the latest products, technologies, and services on the market while further developing their professional and technical skills.

Content is curated, vetted, and presented by trailblazers in the roofing and exterior construction industries. **Our goal is to help professionals improve their business through education, exhibitions, and networking.**

CONNECT AT THE #1 EVENT

WHY ATTEND?

THEROOFINGEXPO.COM/ATTEND

WHY EXHIBIT?

THEROOFINGEXPO.COM/EXHIBIT



Official Show Sponsor:



Official Show Publication:

**ROOFING
CONTRACTOR**

Visit our COVID-19 Resource Page at www.theroofingexpo.com for the latest information on your on-site experience.

TABLE OF CONTENTS

- 3** Industry News
- 4** Thermal Technology for Roofing Applications
- 7** New Products
- 8** Construction Rollforming Show Update



INDUSTRY NEWS

2021 MVP Award Winners

The Roofing Alliance, celebrating 25 years as the foundation of NRCA, announced the winners of its 21st annual Most Valuable Player Awards during NRCA's Industry Awards Virtual Ceremony.

The winners in the outstanding on-the-job performance and workmanship category include: Riann Cayaban, Foreman for Commercial Roofing & Waterproofing, HI, Inc. of Waipahu, Hawaii; and Mike Crawford, Foreman for ABC Roofing, a Tecta America Company, LLC of Portland, Oregon.

The winners in the outstanding performance/other noteworthy contributions outside the workplace category include: Jeffrey Doll, Warehouse Employee for CentiMark Corporation of Canonsburg, Pennsylvania; and Tim Hollo, Field Worker and Foreman for 1st Choice Roofing of Cleveland, Ohio.

Winners in both categories include: Heath Baker, Superintendent for KPost Roofing & Waterproofing of Dallas, Texas; Arturo Lopez, Foreman for Stiles Roofing Inc. of Lebanon, Missouri; and Bakay Omorov, Foreman for Deer Park Roofing of Cincinnati, Ohio.

The Best of the Best Award winner was also announced during NRCA's Industry Awards Virtual Ceremony. Arturo Lopez, Foreman for Stiles Roofing Inc. of Lebanon, Missouri, won the Best of the Best Award. Lopez earned this award based on his extraordinary contributions to the roofing industry.

The MVP Awards program and the Best of the Best Award special category recognize and honor outstanding roofing workers who achieve work-related and personal goals to which others aspire. For more information about the MVP Awards program, visit www.roofingalliance.net/programs/mvp. **RT**



Thermal Technology for Roofing Applications

We recently discussed the technology of forward-looking infrared and how roofing contractors can use it to offer inspection services. John Anderson, Product Manager of Security Solutions for FLIR Systems, shared his knowledge here:

Roofing Technologies (RT): Let's start with the basics. What is thermal imaging and how does it work?

John Anderson (JA): Normal, human vision is limited to a very narrow, "visible" band of the entire electromagnetic spectrum. The infrared spectrum, also called thermal energy, has a longer wavelength than visible light. A thermal imager/camera is essentially a heat sensor that is capable of detecting tiny differences in temperature, both hot and cold. Thermal imaging cameras enable anyone to see thermal energy (heat), essentially giving the user superhuman sight. With thermal imaging, the portion of the spectrum we perceive is dramatically expanded, helping us "see" heat even in the absence of light.

Everything in the known universe emits, reflects, or absorbs thermal radiation. A thermal camera converts the "heat" data it measures into visible images. In addition to seeing in the dark and detecting invisible heat sources, the thermal technology helps users see through fog and smoke. The image produced is known as a thermogram and is analyzed through the process of thermography.

RT: How can this technology be used by roofing contractors?

JA: Thermal imaging is a popular non-destructive inspection technique used

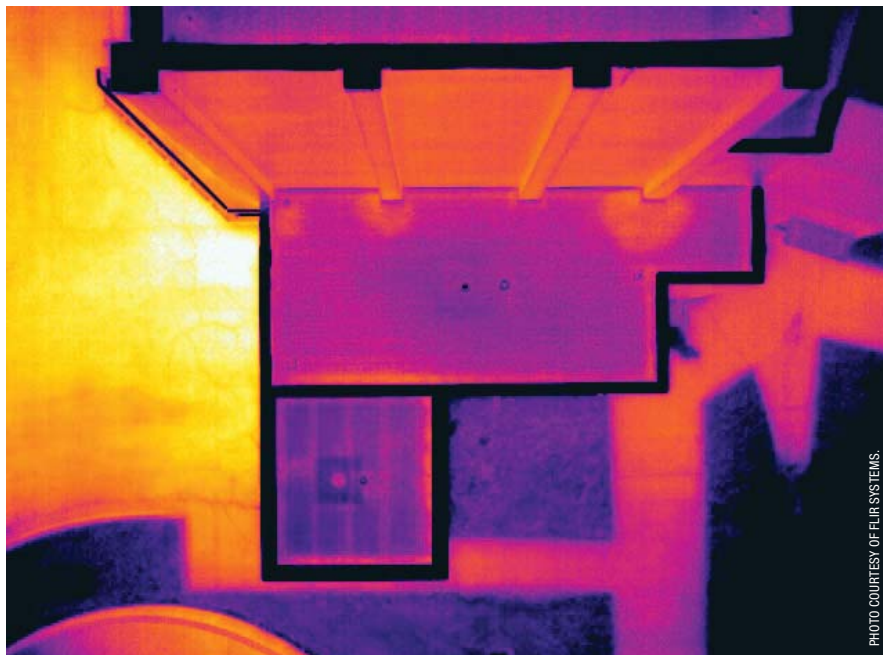


PHOTO COURTESY OF FLIR SYSTEMS

within the construction trades. If a flat roof experiences a leak, damage typically goes unnoticed as water penetrates and soaks the decking and insulation over time. Rot often develops, which can weaken the roof structure and lead to expensive repairs down the road. Given how difficult it is to find a water leak with the naked eye, thermal cameras can help roofing professionals pinpoint water intrusion, find moisture beneath the surface, and document dryness with accuracy and confidence. As thermal imaging is much quicker than visual inspection, it allows inspectors to focus on the whole roof, not just the at-risk areas. It also permits nighttime and shadowed area inspection, as it does not require visible light.

RT: What are the limitations of forward-looking infrared? How can one

produce the most accurate results?

JA: There are a number of factors that can affect the performance of thermal cameras and ultimately the outcome of an inspection:

- While a thermal camera can quickly identify potential moisture issues, it is recommended to also confirm/verify the issue with a moisture meter.
- Thermal cameras come in a variety of resolutions, therefore, different cameras have different limitations. A lower resolution camera will require the operator to get very close to a potential problem area to pinpoint an issue, whereas a camera with higher resolution will provide greater detail and clarity throughout an inspection. However, higher resolution cameras generally cost more than lower resolution, so the operator will have to consider what resolution is best for their

needs depending on when, where, and how they plan to use the device.

- Thermal readings may be affected by interior heat sources or differences in insulation thickness.
- The optimal time for scanning a roof, often referred to as the “thermal window,” occurs when the roof is either warming or cooling, usually early- to mid-morning and then again shortly after sunset. Ideally, most roof inspections are conducted shortly after sunset during a cooling stage to avoid daytime shadowing and solar reflection issues on the roof.

Furthermore, the best time to conduct thermal imaging roof inspections are when there is high contrast between the air temperature outside versus inside the building. This makes it easier to spot potential anomalies. It’s also best to avoid inspections on windy days, as the wind and pressure changes associated can make it difficult to pinpoint issues. Meanwhile, excessively sunny, warm days can create solar loading effects on the roof that could mask problem areas.

RT: What types of infrared products are best for roofing contractors just starting with this technology?

JA: While handheld thermal cameras have been used by roofing professionals for years to pinpoint water intrusion, find moisture beneath the surface, and document dryness, the job is time-consuming and physical for roofers of all experience levels. Of the many types of handheld thermal cameras, we recommend ruggedized devices that can handle the potential moisture and dust intrusion, as well as any drops onto hard surfaces. Additionally, contractors should use a thermal camera with radiometric capabilities that will allow them to capture the temperature of every pixel in the scene, which will better enable the operator to pinpoint specific problem areas for further inspection or repair.

Now, many roof inspectors are utilizing unmanned aerial drones equipped with both thermal and visual cameras,

as they can easily fly over large areas and provide a thorough view of an entire roof in just a few minutes, which is especially useful for hard-to-reach or dangerous areas. Inspectors may still have to go onto the roof and use traditional test methods to further assess the problem, but the overall time compared to doing a handheld thermal inspection alone is greatly reduced, and potentially much safer as the drone pilot can keep their feet safely on the ground.

RT: What kind of training or regulations are required for operation of these devices?

JA: Laws and regulations defining who can make roof damage recommendations vary from state to state. Thus, if using a drone equipped with a thermal camera, operators should familiarize themselves with local requirements and always work with a licensed professional to ensure the scans hold real, actionable value. Additionally, there’s a national standard defining the methodology thermographers using handheld cameras to inspect roofs should be using. The standard, ASTM c1153-10 (2015) Standard Practice of Location of Wet Insulation in Roofing Systems Using Infrared Imaging, applies to drone operators as well.

FLIR also partners with the Infrared Training Center (ITC) to provide certification courses that teach best practices and techniques. It’s important that roofers understand the way the camera “sees” different roof materials, and learn techniques for knowing when, for example, a “cool” spot in the scene is just cool air, or water under the roof membrane. It is important to know how each layer in the roof system affects thermal patterns. The user must understand the assembly of the roof so they can understand if what they are seeing is an issue or just part of the structure.

RT: What is the life span of a typical device if used and cared for properly?

JA: There are multiple factors that play into the life span of a thermal camera.

For roofing applications, it’s necessary to have a ruggedized camera that can handle the environmental factors present on a roof, such high heat or bitter cold, as well as handle drops onto hard surfaces or from one floor level to the next.

Many thermal cameras come equipped with a rechargeable lithium-ion battery. Therefore, camera operators must take care to ensure the device and its batteries remain away from high heat (such as on the dashboard of a truck in the middle or summer), or left out in freezing temperatures—all factors that can significantly impact the performance of the battery and thus the life of the camera. A device for roof inspections, if cared for properly, can last many years.

RT: What software is required and how can contractors access the information gathered by the camera?

JA: Software is not required to use a device, but is a recommended add-on for editing images and creating comprehensive inspection reports. Users have various options for software—there are free versions available that provide basic image editing and quick reporting, then there are paid versions that offer advanced measurement and image analysis, as well as editing and customized reporting.

Depending on the software, operators can adjust the colors, apply spot meters, isolate certain locations within a scene for further inspection, or manipulate an image in post-processing to better interpret a scene to be included in a post-inspection report. For large-scale roof inspections, FLIR offers a paid software option that allows customers to batch edit a large number of images, saving a lot of time.

RT: What variables on the forward-looking infrared devices themselves should contractors be aware of?

JA: For roofing applications, there’s a national standard defining the methodology thermographers using handheld cameras to inspect roofs should be using

2ND ANNUAL Construction Rollforming Show

Presented by the Publishers of Rollforming Magazine

June 3-4, 2021 • Duke Energy Center • Cincinnati, OH



FOR MORE INFORMATION CONTACT GARY REICHERT:
gary@shieldwallmedia.com • 715-252-6360

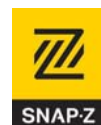
SPONSORED BY:



DYNAMIC FASTENER



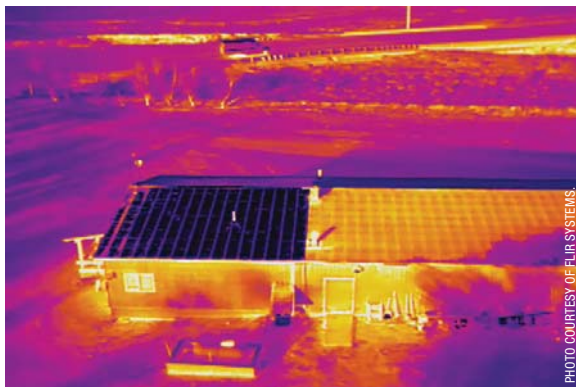
UNITED STEEL SUPPLY



(the aforementioned ASTM c1153-10 (2015)).

For the device itself, there are a few good rules of thumb for roofers to consider when considering a handheld thermal camera. These include:

- A radiometric thermal camera, meaning the camera can detect and measure the temperature of every pixel in the respective camera's field of view
- One that has an IP65 rating or higher—a camera that is dust-proof and able to perform in the rain or snow
- A camera that allows one to take and record both photos and video, for post-processing or review after the inspection, as well as one that offers additional software features like multiple spot temperature meters, including the ability to adjust the temperature gain within specific ranges
- One that includes an ergonomic gun trigger that makes a camera easy to operate with one hand, versus a touch-screen device that often requires two hands to operate. At times,



these can be difficult or impossible to use while wearing heavy gloves.

About FLIR Systems

FLIR Systems was established in Tigard, Oregon, in 1978 to pioneer the development of high-performance, low-cost infrared (thermal) imaging systems. However, the history of the company goes back even farther, to the 1950s, when Agema of Sweden (later purchased by FLIR in 1998) developed the

first commercial thermal cameras, primarily for inspecting power infrastructure. Those first thermal cameras were so large and heavy, they were mounted onto the back of a car or truck.

Today, FLIR offers a diversified portfolio that serves a number of applications in government and defense, industrial, and commercial markets. Thanks to major advancements in the size, weight, power, and cost of thermal imaging cameras, FLIR thermal cameras can be found in cellphones all the way to large gimbals on military or search and rescue aircraft. For more information, visit www.flir.com. **RT**

NEW PRODUCTS

Hi-Lo Fastener Now in New Lengths

Dynamic Fastener has added additional lengths to partner with their very popular 12-16 x 1½" T-17 Hi-Lo fastener. Lengths are now available in 2", 3", and 4". All lengths are available with a T-17 point, Hi-Lo threads, and a 5/16" hex washer head. This screw is used to attach up to 18-gauge sheet metal to wood. The screw can also be used to plug a previous #9 or #10 pole barn screw or anytime a slightly larger fastener is desired. The screw is available with a 9/16" outside diameter sealing washer or without. It also comes standard with our **Dyna-Coat®** 1000-hour salt spray premium coating.

www.dynamicfastener.com



snap-locked into place or mechanically seamed one time.

The 2" Snap Seam panel provides superior weathertightness along with its unique installation advantage. Available in 22- and 24-gauge colors and finishes, this panel is a hybrid of our 2" Mechanical Lock and 1.75" Tru Snap panels because of the way it snaps into place (like Tru Snap), and can then receive a folded seam (like Mechanical Lock). This panel has been tested for wind uplift when just snap-locked; when mechanically seamed, it's also been tested for air leakage, water penetration, and structural performance.

The 2" Snap Seam panel is available in finished coverages of 12", 16", and 17½" and in both flat and striated options to fit any project's needs. Ideal for low-sloped roofs and able to be run in long spans, the versatility and durability of 2" Snap Seam makes it perfect for a wide range of projects in both the commercial and residential markets.

www.bridgersteel.com

Bridger Steel Introduces Panel to Lineup

Bridger Steel recently launched a brand-new product: the 2" Snap Seam metal panel. This innovative panel provides a much quicker and easier installation compared to traditional, mechanically double-seamed panels because of the panels' ability to be

Plans Being Finalized for June 3-4 Construction Rollforming Show

By Sharon Thatcher

The 2021 Construction Rollforming Show (CRS) registration is now open, including guest hotel registration at reduced rates.

The show is scheduled for June 3-4 at the Duke Energy Convention Center in Cincinnati, Ohio.

Canceled last December due to COVID-19, pandemic restrictions are now lifting, restoring confidence that the CRS will be able to safely resume this year.

For registration details, go to www.constructionmagnet.com/construction-rollforming-registration. There you will also find updated information on exhibitors and guest hotel lodging, plus a list of educational programming.

Topics for the educational sessions are shown on the opposing page, with topics including rollformer basics, paint 101, the pros and cons of buying versus leasing equipment, coil and coating warranties, metal types and uses, software, packaging, shipping and delivering products, and much more.

Speaker From Building Homes for Heroes to Give Keynote Address

The exhibit hall will open to attendees at 12:30 p.m. on Thursday, June 3, with a keynote address from Jim Rogers, Director of Development for Building Homes for Heroes, to follow at 1:00 p.m. on the trade show floor.

Building Homes for Heroes organizes the modification and building of mortgage-free homes gifted to injured veterans and their families. Rogers has spent nearly a decade helping the organization grow,

building upon his successful career of more than 20 years in the U.S. Air Force serving in locations around the globe.

Rogers shares the Building Homes for Heroes message around the country while speaking to Fortune 500 companies, businesses, and organizations, and participating in television and radio interviews.

He holds a master's in leadership and enjoys spending time with his family on their 50 acres of natural forested property and restoring his family's nearly 200-year-old historic farmhouse in the Mohawk Valley of upstate New York.



Jim Rogers

Building Homes for Heroes

Building Homes for Heroes was founded by Andy Pujol in 2006, inspired after volunteering in the search and rescue operations following the 9/11 terrorist attacks.

According to Building Homes for Heroes Vice President Kimberly Vesey, one day, Pujol heard young veterans talking on the radio about the struggles they were dealing with and decided he would build a home and gift it to a veteran.

Vesey said it took Pujol time to incorporate and find his way, but after that first home was adapted and gifted, he thought, "Why stop now?" So the goals grew, and the organization grew.

Based in New York, Building Homes for Heroes is a 501(c)(3) nonprofit organi-

zation that now serves the entire country. "We've gifted veterans in 33 states with home gifts and modifications," Vesey said. "We're attempting to get to every state; that's the goal."

While home gifting is the largest program, Building Homes for Heroes offers many other types of assistance. These additional programs include financial planning, sponsorships for athletic programs, emergency support, and more.

During the COVID-19 pandemic, the nonprofit acted quickly and initiated a new program—it sent \$500 checks to veterans for emergency funding.

"Psychological wounds cause veterans to fear for their lives," explained Vesey. Due to COVID-19, those who suffer from PTSD are "afraid now for their spouse, children, and parents. They're afraid now for the people that they love."

Partnerships with national distributors are critical for the organization because those companies can ship directly to the building site, Vesey explained. Sponsors who provide materials get deductions for donating products and they are included in the promotional coverage.

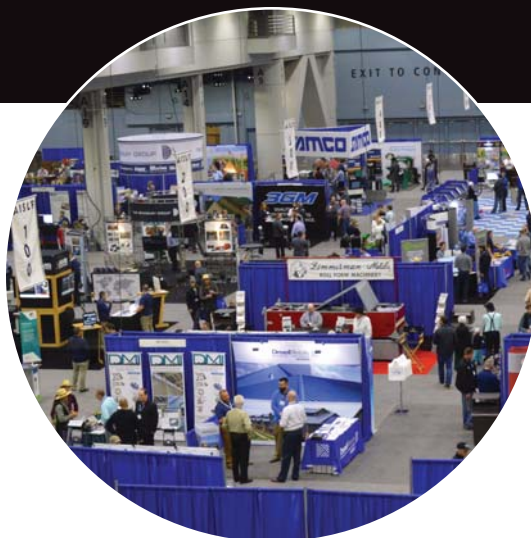
At the local level, the organization is dependent on builders and architects to donate labor or time. When a suitable home location has been selected, Building Homes for Heroes

partners with local builders and then pulls in those national product sponsors.

Building Homes for Heroes has set the bar high; on average, they seek to gift one home every 11 days. With continued support, the organization hopes to reach its 300th home gift by the end of 2021. **RT**



Construction Rollforming Show



Educational Seminars & Show Schedule

THURSDAY JUNE 3, 2021

TIME	LEVEL 2, MEETING ROOM AREA	LEVEL 2, MEETING ROOM AREA	LEVEL 2, MEETING ROOM AREA	SHOW FLOOR - DEMO AREA	Exhibitor Setup Hall Closed to Attendees
7:00-8:45	Continental Breakfast - Hallway Near Meeting Rooms (If Allowed)				
8:00-9:00	Social Media	Which Rollforming Line Works Best for Me?	Buying Versus Leasing Equipment	Off	
9:00-10:00	Fasteners for Metal Panels	Software for Optimum Production	Packaging and Shipping Metal Panels	Off	
10:00-11:00	Warranty Management for Coil Coatings	Buying a Business or Planning an Exit	Ways to Improve Your Panel Line Throughout	Off	
11:00-12:00	Off	Off	Off	Off	Exhibit Hall Open 12:30 to 5:30
1:00-2:00	No Classes			Keynote Address: Jim Rogers, Director of Development for Building Homes for Heroes	
2:00-3:00	Differences in Coil	Other Rollforming Production Line Machines	Paint 101: An Introduction to Coil Coatings	Open	
3:00-4:00	No Classes			Coil Purchasing	
4:00-5:00	Metal Types and Uses	Used and Reconditioned Equipment	Sales Basics	Open	
5:00-6:30	Happy Hour - Entryway in Front of Exhibit Hall Entrance - Duke Energy Convention Center				Exhibits Closed
7:00-11:00	Thursday Mixer - Hilton Cincinnati Netherland Plaza				

FRIDAY JUNE 4, 2021

TIME	LEVEL 2, MEETING ROOM AREA	LEVEL 2, MEETING ROOM AREA	LEVEL 2, MEETING ROOM AREA	SHOW FLOOR - DEMO AREA	Exhibit Hall Open 9:30 to 1:30
7:00-8:45	Continental Breakfast - Hallway Near Meeting Rooms (If Allowed)				
8:00-9:00	Closures and Ventilation	Trailers and Towing Portable Rollformers	Political Landscape and Business Climate	Open	
9:00-10:00	No Classes			Solutions to Problems Cold Forming Metal	
10:00-11:00	Moisture and Condensation Control	Benders and Brakes	The Role of Associations	Open	
11:00-12:00	No Classes			Rollformer Maintenance	
12:00-1:00	No Classes			Open	
THE FINAL EDUCATIONAL SEMINAR SCHEDULE WILL BE POSTED AT THE SHOW					Tear Down Starts 1:30

THE FINAL EDUCATIONAL SEMINAR SCHEDULE WILL BE POSTED AT THE SHOW
TIME SLOTS MAY CHANGE BASED ON SPEAKER AVAILABILITY