

# FRAMEBUILDING NEWS<sup>®</sup>

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JANUARY 2022  
Vol. 34, Issue 1

## FRAME BUILDING EXPO 2022 PREVIEW

- **SPEAKERS & EDUCATIONAL SESSIONS**
- **EXHIBITOR PROFILES**
- **FAMILY-FRIENDLY FUN IN NASHVILLE**
- **NEW PRODUCTS AT THE EXPO**

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**VISIT US AT THE  
FRAME BUILDING EXPO**

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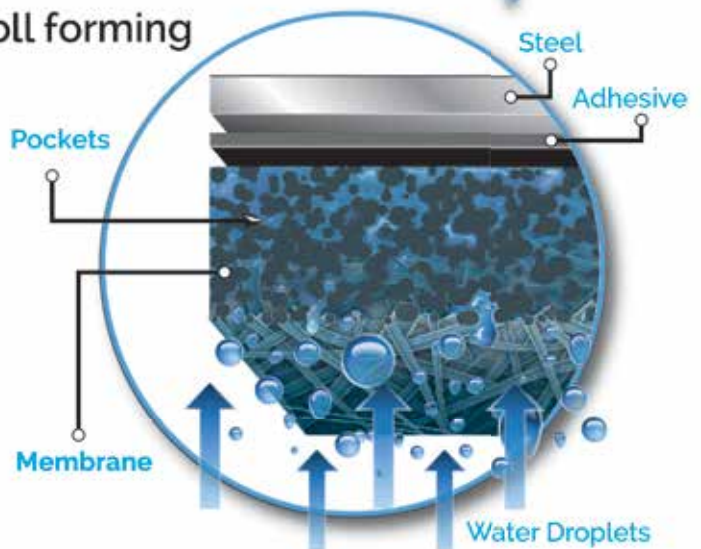
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# Goodbye to '21 - Cheers to '22

**D**ear Readers, Advertisers, Friends and Competitors, 2021 is finally coming to a close. In many ways, throughout the year we all felt like Charlie Brown and Lucy was holding the football. It was 100% an interesting year, and I doubt any of us are sad to see it disappear in the rear view mirror.

Looking back, it wasn't all bad. Sure, there were challenges; many (including a general labor shortage and increased material and energy costs) will continue into the foreseeable future. But there were also many bright spots. A huge one was our industry was spared many of the more dire effects from COVID and the associated regulation. I would like to share a few of the good things we have experienced this year here at Shield Wall Media.

We had the second Construction Roll-forming Show, and were one of the very first live shows when the pandemic less-

ened. Cincinnati lifted its mask mandate on June 2nd and our show started June 4th. We also held the inaugural Garage, Shed & Carport Builder Show.

We completely rebuilt all of our websites from scratch and added a corporate website: [www.shieldwallmedia.com](http://www.shieldwallmedia.com). Now our sites are searchable, articles are formatted to read comfortably on a phone or device, and they can be translated into different languages, including Spanish.

We added a book division, with a series called "Pro Tips On." We will offer books in the areas of construction we have written about for decades that are designed to educate consumers and grow the market share for our corner of the construction industry. The first book, *Pro Tips On: Your Metal Roof*, will be available in January and is 144 pages. Roofers can include their own contact information, pictures and a brief history to use this as personalized sales literature. Subsequent books will be *Pro*

*Tips On: Your Carport*, *Pro Tips On: Your Post Frame Home*, *Pro Tips On: Your Horse Barn*, and *Pro Tips On: Your Portable Shed*.

We also are officially no longer tiny. We surpassed 100,000 active subscriptions in November. To all of our subscribers: Thank you.

The world remains "interesting," but we keep moving forward. I am sure you are moving forward, too. If you have had any successes you would like to share, and have us share, please send them to me at [gary@shieldwallmedia.com](mailto:gary@shieldwallmedia.com). Your hard work and creativity deserve recognition and will serve as an inspiration to us here at Shield Wall Media and our family of readers and advertisers. Let's all go into 2022 together and keep pushing forward.

Merry Christmas, happy anything else you choose to celebrate, and we will make 2022 our year.

Gary Reichert  
[gary@shieldwallmedia.com](mailto:gary@shieldwallmedia.com)

## **EDITOR'S NOTE //**

# See You in Nashville!

**I**f reading through this edition of Frame Building News doesn't get you primed and ready for the Frame Building Expo in Nashville, I don't know what will. One of the features in the special FBE section, which begins on page 33, is an introduction to keynote speaker Lt. Col (ret.) Waldo Waldman. Nicknamed "Wingman," Waldman will deliver his talk "Never Fly Solo!® — Lead with Courage, Build Trusting Partnerships, and Reach New Heights in Business," at 11 a.m. on the opening day of the show. (By the way, Waldman is co-founder of The Wingman Foundation, which raises funds and awareness to help soldiers, vet-

erans, and their families who are in need.)

New for the Expo this year: Free show floor passes are available to builders and contractors! If you want to attend the educational sessions, a purchased show pass is required. However, there will be some educational sessions presented on the show floor.

Also included in the special FBE Show Preview section are profiles of dozens of the exhibitors, and, in case you're bringing your family with you to Music City, U.S.A., we've rounded up some family-friendly activities you may want to explore. (And not all of them are related to music.

As Gary mentions above, the first book

in our consumer book line is nearing completion; we'll officially launch the line at the Expo. The first book is *Pro Tips On: Your Metal Roof*. The one coming down the pike that you may be even more interested in is *Pro Tips On: Your Post-Frame Home*. If you consider yourself an expert in residential post-frame design or construction, and would like to be a resource for the book, reach out to Gary either at the show or via email. We'll be logging miles visiting exhibitors on the show floor, but our home base will be Booth #706. We'd love to hear from you.

Karen Knapstein  
[karen@shieldwallmedia.com](mailto:karen@shieldwallmedia.com)





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### ON THE COVER:

Quality components make for distinctive post-frame buildings. This building is by Graber Post Buildings.

Photo courtesy of MWI Components/ Graber Post Buildings, Inc.

Cover design by Kevin Ulrich



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## Industry Partners



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SEE PAGE 2



**Union Corrugating Holdings to be acquired by Cornerstone Building Brands**

An industry leader serving the residential, commercial, and agricultural roofing and siding markets, announced today that it has entered into a definitive agreement to be acquired by Cornerstone Building Brands, Inc. (NYSE: CNR). Cornerstone Building Brands is the largest manufacturer of exterior building products for residential and low-rise non-residential buildings in North America.

“We’re excited that Cornerstone Buildings Brands is acquiring Union Corrugating Company and the Reed’s Metals brands,” said Keith Medick, President and Chief Executive Officer. “We are confident that this acquisition will benefit our existing customers with access to an unmatched portfolio of products and services. We’ve seen a lot of positive changes over the years, and one thing remains the same, we are focused on delivering quality products, superior service and value for our customers. We’re excited to become a part of the successful Cornerstone Building Brands team.”

The acquisition is subject to regulatory approval and customary closing conditions and is expected to be finalized later this year.

Union Corrugating Company, headquartered in Fayetteville, N.C., is an industry leader serving residential, commercial, and agricultural roofing and siding markets from 10 manufacturing



**More than 300 students visited The Bradbury Company in mid-October.**

*Photo courtesy of The Bradbury Company*

facilities throughout the central and eastern U.S.

Union Corrugating Company manufactures metal roofing that’s durable, efficient and sustainable with minimal environmental impact.

Reed’s Metals, headquartered in Brookhaven, MS, is a provider of metal roofing systems, metal roofing panels, post frame, tube buildings and pre-engineered steel buildings. Comprised of 10 locations (8 manufacturing sites and 2 storefronts) with 3 IAS certified plants utilizing state-of-the-art technology and fabrication methods to provide unprecedented quality and service, with same-day availability on in-stock standard roofing orders and

supplies, on-site roll forming for standing seam projects and job-site delivery.

**Bradbury hosts over 300 students to celebrate Manufacturing Day**

The Bradbury Company (<https://bradburygroup.com>) invited students from 13 local schools in Kansas for factory tours to celebrate Manufacturing Day in mid-October.

“We opened our doors for student tours to share opportunities for rewarding careers in manufacturing and highlight the advanced technology we utilize every day,” says Matt Werner, Senior Manager Sales & Marketing at The Bradbury Company. “Students received a full facilities tour, along with a chance to compete in hands-on skills challenges and explore our career center booths.

“This was our biggest year yet. We had over 300 students tour from 13 local schools. We were also happy to invite our technical school partners, Hutchinson Community College and Flint Hills Technical College.”

Bradbury employees led tours and explained the manufacturing progression from concept to engineering design, fabrication, assembly and testing. Students viewed the fabrication shop, which houses approximately 60 CNC machines,



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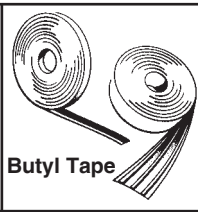






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where Bradbury fabricates the major components required for the construction of Bradbury equipment.

Highlights of the tour included the Doosan lathe, which machines parts from 200 inches long to 30 inches in diameter, the induction heat treat center, the robotic welding cell and the high-definition plasma torch. Tour groups walked through the assembly area to observe the assembly of Bradbury custom-made machines and watched several roll forming lines running formed products.

The companies of the Bradbury Group are known for the cutting-edge technology and reliability built into every product – and for the exceptional service that helps satisfy customers worldwide. Bradbury strives to set the standard for automated production and systems integration in the metal processing industry. Bradbury believes its leveling, cutoff, punch, folding and roll forming machines and automated systems set the highest standard for productivity, reliability and safety in coil processing.

### **ABC Supply Co. Inc. opens location in Baytown, Texas**

ABC Supply Co. Inc. ([www.abcsupply.com](http://www.abcsupply.com)), the nation's largest wholesale distributor of roofing, siding and other select exterior building products, has opened a new location at 101 N. Robert C Lanier Drive in Baytown, Texas.

Ali Charara manages the new location. Charara joined ABC Supply as a seasonal roof loader in 2019. During that time, he was also attending college at Texas A&M University. Before his promotion to branch manager in 2021, Charara traveled throughout the Houston District, helping where needed and learning branch roles.

"We're looking forward to growing relationships and helping contractors add value to their businesses in the Baytown area," said Southwest Region Vice President Jonathan Shepard. "With the help of Ali and his team, contractors will have the tools and materials they need to be successful in the industry."

ABC Supply Co. Inc. is the largest

wholesale distributor of roofing in the United States and one of the nation's largest wholesale distributors of select exterior and interior building products. Since its founding by Ken and Diane Hendricks in 1982, ABC Supply's sole focus has been serving professional contractors and "making it easy" for them to do their jobs by offering the products, support and services they need.

Headquartered in Beloit, Wisconsin, ABC Supply has over 800 locations nationwide.

### **Great Southern Wood Preserving, Inc. acquires Escue Wood Preserving, Inc.**

Great Southern Wood Preserving, Inc., a leading producer of pressure-treated wood for residential, farm, commercial and industrial uses, recently announced that a subsidiary has acquired the assets of Escue Wood Preserving, Inc. of Millwood, Kentucky.

With the asset acquisition of Escue Wood Preserving, Great Southern Wood further strengthens the distribution coverage area for its YellaWood® brand pressure-treated pine, as well as other products, into markets that stretch from the Florida Keys to Texas to Canada, including all or parts of 28 states and the District of Columbia.

"This represents the combination of two leaders in the building products industry," said Jimmy Rane, chairman, president and chief executive officer of Great Southern Wood. "There are many similarities between our two companies. Our organizations have a combined 90+ years in the industry. We share the same values, work ethic, focus on product quality and a genuine passion for customer service. Plus, the addition of such a strong, experienced and dedicated team from Escue Wood Preserving to our organization bodes well for the future. Bottom line, this is a good fit for both organizations and the customers we serve."

Kevin Escue, owner of Escue Wood Preserving, said, "Great Southern Wood's systems, resources and ability to source prod-

ucts on an international scale will benefit Escue's customers for many years to come while providing its employees a similar customer-oriented culture. Our goal has always been to be a trusted resource to the customers we serve while being the kind of company people would be proud to work for. The entire Great Southern organization shares this same mindset which makes this an exciting move for us."

### **The Home Depot Foundation surpasses \$400 million in support of US military veterans**

The Home Depot Foundation ([homedepotfoundation.org](http://homedepotfoundation.org)) has surpassed \$400 million invested in support of U.S. military veterans since 2011, when it first announced a formal commitment to veteran causes. This pledge has since grown to \$500 million by the year 2025, primarily focusing on veteran housing initiatives.

"The Home Depot and The Home Depot Foundation want every veteran to have access to safe, affordable housing that fits their individual needs," said Craig Menear, chairman and CEO of The Home Depot. "We strive to help veterans live independently by conducting critical home repairs, providing mortgage-free smart homes and helping to end veteran homelessness with our nonprofit partners."

Since 2010, the number of veterans experiencing homelessness in the U.S. has decreased by nearly half, according to the U.S. Department of Housing and Urban Development, and 13 cities have ended veteran homelessness. However, more than 37,000 veterans are facing homelessness on any given night, and nearly 3 million live in inadequate housing, according to the latest estimates by the Housing Assistance Council.

For the past decade, the Foundation has focused on ending veteran homelessness, improving veteran housing through critical home repairs; and building accessible smart homes for catastrophically combat-wounded veterans. The \$400 million invested to date has helped the Foundation and its national nonprofit partners build, renovate and enhance



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more than 50,000 veteran homes and facilities and provide critical assistance to veterans and their families in need.

The Home Depot's associate volunteer force, Team Depot, has volunteered more than 1.25 million hours in service to veterans since 2011. Team Depot provides boots-on-the-ground support, investing sweat equity to help nonprofit partners improve veteran homes and housing facilities in communities across the country.

This year, the Foundation recognized 10 years of partnership and impact on veteran issues with organizations like Habitat for Humanity, Volunteers of America, Operation Homefront, Semper Fi & America's Fund and U.S.VETS, among others.

"Since 2011, we've worked with some of the nation's leading veteran service organizations to effect positive change for veterans, many of whom are facing homelessness, housing insecurity or housing that hinders their movement or ability to live independently due to service-connected injuries," said Shannon Gerber, executive director of The Home Depot Foundation. "We're proud to serve alongside our partners who work tirelessly to support veterans. We know there is so much more work to be done, and we are honored to continue serving alongside these incredible organizations."

### **US LBM Foundation commits \$100,000 to housing for wounded veterans**

The US LBM Foundation ([uslbfoundation.org](http://uslbfoundation.org)), a nonprofit organization founded by leading specialty building materials distributor US LBM, has committed \$100,000 to the Gary Sinise Foundation's R.I.S.E. (Restoring Independence, Supporting Empowerment; <https://www.garysinisefoundation.org/>) Program, which builds mortgage-free, specially adapted smart homes for our nation's most severely wounded heroes.

"The work of the Gary Sinise Foundation aligns with two important focus areas of the US LBM Foundation: honoring our veterans and providing housing to those in need," said US LBM

Foundation Chairman and US LBM President and CEO L.T. Gibson. "It is our honor to partner with such a worthwhile organization and to contribute funds and discounted building materials toward building homes for our wounded heroes."

Through the R.I.S.E. program, the US LBM Foundation is supporting the construction of three projects as well as providing discounted building materials through US LBM's network of local building material suppliers. The specific projects are:

- A housing build in Clarksville, Tennessee, for wounded U.S. Army Sgt. Christopher Kurtz. US LBM's K-I Lumber has supplied discounted building materials, such as windows and doors.
- A housing build in Tampa, Florida, for U.S. Army Chief Warrant Officer 3 Romulo Camargo. US LBM's Rosen Materials contributed discounted drywall to the project.
- A house built in San Antonio, Texas, for wounded U.S. Army Staff Sgt. Jason Tabansky. US LBM's Parker's Building Supply has provided discounted building materials, including lumber.

In the last two years, the US LBM Foundation has donated more than \$175,000 to multiple veteran organizations that provide housing to wounded veterans.

Since its inception in 2013, the US LBM Foundation has provided more than \$1 million to support organizations that honor veterans and their families, provide housing for those in need, support the development and health of children, aid victims of natural disasters and promote the prevention and treatment of diseases.

The US LBM Foundation is a registered 501(c)(3) nonprofit organization dedicated to improving the quality of life in communities across the United States. The Foundation was established in 2013 by US LBM to help fulfill the company's mission of giving back in the communities where it operates. The US LBM Foundation supports causes and organizations through financial and in-kind donations that address critical community challenges, including economic development, housing, health care and human services.

### **SES Foam welcomes Edward F. Cassidy, Ph.D., as COO**

SES Foam LLC ([SESfoam.com](http://SESfoam.com)) has announced Edward F. Cassidy, Ph.D., as its new Chief Operating Officer. Charles Valentine, who has served as COO and President for 12 years, will continue as President and CEO.

Ed Cassidy brings more than 40 years of technical experience in the polyurethanes industry, with direct, industrial, hands-on experience in Research and Development Technical Management and Chemical Plant/Pilot Plant roles in the polyurethane, chemical and polymer science industries.

A graduate of the Polymer Institute of the Jesuit University of Detroit (now University of Detroit Mercy), Cassidy worked directly under Dr. Kurt C. Frisch, thesis advisor and second inductee into the Polyurethanes Hall of Fame after Dr. Otto Bayer.

"Joining SES Foam LLC at this period in time has the same level of thrill and excitement as being handed a ticket for a trip to space from Elon Musk, Jeff Bezos or Richard Branson," said Ed Cassidy. "Seeing the tremendous growth of SES over the past few years, learning of SES's future plans and now witnessing, first-hand, the skills and competence of the entire SES team, I am both honored and motivated to contribute to SES's continued success."

Cassidy most recently served as Global R&D Senior Director of Polymer Science at Boral Industries in San Antonio, Texas, with a focus on transformational innovation. Prior history includes roles as Global Process Development Engineering Director, Global Strategic Sourcing Director, and VP of Global R&D for Sealed Air Corporation (SAC).

Born and raised in Brooklyn, New York, Cassidy is proud to call Texas home, adding, "If I was born in Texas, I never would have left Texas." He and his wife, Judith, live on North Padre Island in Corpus Christi. A writer with five published books to his name, he also enjoys traveling, boating, fishing, and hiking. **FBN**



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**Pro Tips On: Your Metal Roof** is a 144-page book designed to teach consumers the benefits of installing a metal roof. Effective communication with their contractor about their roof will result in a quality experience for all involved and result in the roof of a lifetime.

**Chapters include:** *Metal Roofing Essentials, Climate, Facts, Factors, Fashion & Financing, Look Before You Leap and an Inspirational Gallery* full of the gorgeous, quality completed-project images that motivate serious customers to buy.

Our Affiliate Program allows you to customize the book to include content specific to your business. One of your pictures will even be on the cover. Use **Pro Tips On: Your Metal Roof** to educate your prospects and build you own credibility as a renowned and reputable metal roofing company.



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2022**

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- Warranties protections explained
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# Introducing ... **PRO TIPS ON**

**W**e are excited to share some great news with you. Shield Wall Media LLC is launching a new line of books tailored to help both you and your customers build a great foundation for working together. Knowledge is a profitable advantage. It creates great results that develop from mutual understandings and constructive conversation. *Pro Tips On* is a series designed to be exactly that—the educational conduit you need to work with your customers effectively and efficiently. They will understand the benefits of affordable quality, impacts of quality on longevity and what questions they need to ask about the installation process. Being the contractor sharing the information that makes customers comfortable will help you be a deal maker. Upcoming *Pro Tips On* topics include *Your Post Frame Home*, *Your Carport*, *Your Portable Shed* and *Your Horse Barn*. Look for several of these to be released in 2022.

## **Pro Tips On: Your Metal Roof**

Must-know information for customers considering purchasing a metal roof is compiled into this visually stunning, comprehensive 144-page book. Five sections full of inspiration and explanation geared toward building prolific customer/contractor relationships is at your fingertips. Readers will know what to ask their contractors—and contractors can anticipate what they will be asked. A win-win for all looking forward to putting another fabulous metal roof into existence.

The content is segmented into six uniquely focused areas. The book opens with *Section One: Metal Roofing Essentials*, which covers exactly that. Consumer-minded coverage includes:

- Assessing the need for replacement
- Style-Type Picture Guide
- Metal Substrate Options
- Venting
- Environmental Friendliness
- Solar Friendliness

Metal roof enthusiasts will learn how to evaluate when a replacement roof is needed. They will see many of the style options available in the marketplace. Noted experts explain metal substrate options for a quality result and how proper venting is critical for a truly healthy home.

Consumers learn about how putting a metal roof on a home is truly an environmentally friendly decision. Industry respected expertise is shared about great rooftop solar setups for self-sufficient customers choosing to make their dream home more energy friendly and cost-effective.

*Pro Tips On: Your Metal Roof* next moves on to *Section Two: Climate Zones*. Learning about weather so readers can understand the conditions that impact their local county enables them to learn what environmental stressors their roof is likely to face—a big advantage. Climate knowledge helps readers understand why it is better to invest in affordable solid construction such as metal type and thickness in tandem with certain coatings. It makes all the difference in overall happiness in the way your roof not only works, but appears, when a consumer is seeking a long-term positive result by choosing to install a new roof. The section is organized for ease of use with the zones ordered having the largest number of counties first and the least at the end. That is not to say that all Shield Zones are not significant.

Customers will want to know more about the topics in *Section Three: Facts, Factors, Fashion & Financing*. Consumers learn the need-to-know items people should ask about metal roofing including the benefits of choosing a particular metal

and thickness. Experience-rich installation tactics are shared by a professional installer. *Top Myths Dispelled* separates the truth from the misconceptions to help overcome common unfounded objections. Factors that influence cost and financing options are covered to help readers make informed decisions about their roofing selections.

Heading to *Section Four: Look Before You Leap* content shares questions to ask and warning signs to be aware of when selecting a contractor. Warranty coverage loopholes to consider and setting up a work contract are shared so both homeowners and contractors have an understanding that provides both parties the protection they deserve. Additional coverage includes writeups by the Better Business Bureau (BBB), International Code Council (ICC) and UL to help customers understand their function in the industry and benefits the add to consumer protection and clear product quality advantages. Additional coverage includes:

- Pre-hire Installer Questions
- HOAs
- Zoning Requirements
- Building Codes

The book concludes with an Inspirational Gallery that showcases the amazing projects contractors have completed for their clients. Many different looks for many fabulous settings will leave customers eager to create and share their own inspired dream. The Appendix has a glossary to help avid learners become familiar with the terminology of roof construction.

*Pro Tips On: Your Metal Roof* is a one-stop-reference for fast facts and innovative inspiration. Consumers will be eager to effectively communicate with their contractors about their options. Putting a metal roof on a home is a long-term commitment and knowing what you need, what you like and the result quality delivers is only an advantage. **FBN**

**Available  
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2022**

# Beat Heat Transfer

Minimize Unwanted Heat Transfer With Thermal Breaks & Insulation

■ By Karen Knapstein

**C**old is the absence of heat. In a metal building where the air is either heated or cooled, heat is readily transferred through the metal, which, as you well know, is the most-used exterior cladding on post-frame buildings.

Insulating a structure reduces heat transfer. It prevents a building from acting like an oven when it's hot outside, and it reduces the energy needed to heat the building when it's cold outside. No matter how airtight the building envelope, heat will still transfer through the building materials. Insulation helps keep heat where it's wanted.

## Heat Gain/Loss


There are three modes of heat transfer: conduction, convection, and radiation. **Conduction** is direct heat flow through matter. It results from actual physical contact of one part of a body with another part of the same body, or of one body with another. For example, aluminum is a strong, light, and stable material (i.e. it doesn't warp) that is easy to work with. All these characteristics make it a great choice as a window-framing material. However, aluminum transfers heat very well. This means, without a thermal break, an aluminum-framed window would do an excellent job conducting the heat from the inside to the outside of a heated building. The thermal break separates the inside aluminum from the exterior aluminum so the heat isn't conducted through the

frame.

**Convection** is the transfer of heat within a gas or liquid, caused by the actual flow of material. In building spaces, natural convection heat flow is mostly upward and somewhat sideways. For example, a floor warmed with an in-floor radiant heating system loses heat by convection to the cooler air in contact with it. The sideways motion comes from cooler, heavier air rushing in from the side (and perhaps below, depending on the structure) to replace it.

**Radiation** is the transmission of infrared rays through space. Every material for which the temperature is above absolute zero emits infrared radiation. All objects radiate infrared rays from their surfaces in a straight line in all directions until



 **A continuous layer of insulation creates a thermal break between the frame and the exterior metal panels. Shown: MicroFoil by NOFP.**  
*Photo courtesy NOFP, Inc.*

## R-Value

R-value is a number rating that indicates resistance to heat flow. The higher the R-value, the greater the insulating value. To achieve an R-value certification, manufacturers subject their insulation products to the NAIMA (North American Insulation Manufacturers Association) R-Value Certification Program. It certifies to builders, insulation contractors and do-it-yourselfers that the product actually does what it says.

they are reflected or absorbed by another object. Even though the air is cool on a cool day, sunlight still feels warm because of the infrared radiation.

## Thermal Bridging

A thermal bridge (aka cold bridge, heat bridge, or thermal bypass) is an area that has higher thermal conductivity than the surrounding materials. This creates a path of least resistance for heat transfer from the warmer to the cooler materials. Metal is an excellent thermal bridge. Other thermal bridges in post-frame buildings include, but are not limited to, wood-to-wood and wood-to-metal connections, as well as the contact between the ground and concrete. Thermal bridging is prevented with barriers and insulation. A continuous insulation barrier between the purlins and roof panels, between the girts and wall panels, and beneath the concrete floor create effective thermal breaks, which significantly slow or stop heat transfer.



## Fiberglass

Because of its low cost and ease of installation, one of the most commonly used insulation material is fiberglass. When asked how fiberglass insulation works to mitigate heat transfer, Ted Winslow, Product Manager Building Science, Systems & Technical Marketing at CertainTeed, explained, “Fiberglass insulation is essentially to slow the heat transfer through an assembly. This is because glass chemistry and physical construction of the fibers work together to create small pockets of air that reduce conduction and thermal radiation through the cavity. Since heat travels from the warmer area to the cooler area, the fiberglass insulation can slow this process down, which is called its resistance to heat flow. This is more commonly known as the insulation’s R-value, and it can be used to compare the performance of different types of insulation with the higher R-value indicating the higher resistance to heat transfer.”

Fiberglass insulation is typically best installed before installing the finishing surfaces (e.g., drywall) and after all air sealing needs have been addressed. “It is important to note that proper air sealing is key to optimizing the performance of all insulating materials,” said Winslow. “The key thing to understand when it comes to installing fiberglass insulation is to pay attention to details and have a comprehensive understanding of the impact of compression,” he continued. “When properly installed, fiberglass insulation is a great low-cost insulation material; however, when it becomes compressed, it can reduce the thermal performance of the material.”

A vapor barrier is used to damp proof the wall, floor, ceiling, or roof assembly to prevent condensation within the cavity. Winslow explains, “Vapor retarders are driven by state and local building code requirements, based on climate zone needs. Buildings located in Climate Zones 4c and above will typically require a vapor



**Regardless of whether it is fiberglass, cellulose, or another material, blow-in insulation relies on loft to prevent heat transfer. Care must be taken to prevent compaction.**



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retarder be installed. Vapor retarders are a key component to installing many insulation systems because they provide a control layer that prevents moisture transfer through the insulation—helping to optimize its performance and to avoid condensation within the wall cavity. If not managed with a vapor retarder, this moisture can also lead to a variety of moisture-related issues (e.g., mold, rot, etc.) over time.”

### Bubbles and Foil

Reflective insulation helps control unwanted heat transfer and prevents condensation. Products such as Covertch Flexible Packaging’s rFoil®, Plyco Corporation’s Ply-Foil and MWI Components’ Infinity Shield™ drastically reduce that heat gain because most aluminum insulations reflect 95% (or more) of all radiant energy that strike its air-bounded surfaces. The bubble core and metalized film provide an excellent combination of heat reflection and thickness to stop both radiation and convection heat loss/gain. As a bonus: Aluminum foil is one of the few insulating materials that is not affected by moisture, so its insulating value remains constant regardless of humidity and it’s well-suited for installation in post-frame ag buildings.

To take a closer look at one example, Covertch’s rFoil 2500 Series and 2600 Series of metal and post-frame building insulation consist of a layer of polyethylene bubble bonded to and sandwiched between a radiant barrier metalized foil and a white polyethylene sheet with washable



**Installing the foil-faced insulation below the metal roof panels and above the purlins resulting in an effective thermal break. The foil faces the metal panel, which reflects the heat and prevents significant heat gain.** Photo courtesy of rFOIL Covertch.

UV-resistant facing. The 2200 Series is a layer of polyethylene bubbles bonded to and sandwiched between two radiant barrier metalized foil sheets. John Starr, Vice President/Partner at the Toronto-based company said rFoil is a “pretty simple product that solves a major problem. It provides a cost-effective, energy-efficient way to insulate a building, controlling heat gain and loss and condensation.”

“rFoil is pretty easy to work with,” Starr continued. “It’s not thick, it’s lightweight and easy to install. If it tears, it’s easy to repair.” The most common question he answers is “Which side goes up?” He said: “The foil facing side always goes towards the metal.”

Depending on the goals, NOFP’s Solex, MicroFoil and Performance Star insulations also provide the desired reflectivity and thermal barrier needed

to prevent the transfer of heat, giving the owner a better environment for work, house equipment and/or livestock. “Our Barrier™ under concrete insulation works great in agricultural buildings to keep the floor at a more constant and consistent temperature,” says Jason Brown, Sales Manager for Northwestern Ohio Foam Products, Inc. (NOFP).

Additionally, the importance of proper insulation in a post-frame residence cannot be understated. Brown, explains, “In residential applications, insulation becomes a major factor in providing a comfortable climate in the home. The right insulation will contribute to reducing energy consumption and will allow the building to maintain its temperature longer. Our Barrier under concrete insulation allows you to easily implement in-floor heat to keep the floors warm



**An underslab barrier prevents moisture intrusion up through the concrete and unwanted heat transfer. In this case, it also stops radon gas from permeating the concrete. Shown: The Barrier by NOFP.** Photo courtesy NOFP, Inc.



**Reflective insulation can make a huge difference on the internal temperature of a building. It helps limit heat gain in storage sheds, machine sheds, ag buildings, and more.** Photo courtesy of rFOIL Covertch.





during the winter months. Our Solex, MicroFoil or Performance Star all provide the reflective qualities most people find important in insulating their homes.”

### Expanded Polystyrene (EPS)

To prevent moisture migration and heat transfer through concrete, an insulator and/or vapor retarder must be installed between the ground and the concrete. Like a foam cup protects your hand from a hot beverage, expanded polystyrene foam protects concrete from moisture and prevents heat from transferring to the ground — especially when used in in-floor radiant heat applications. NOFP manufactures a family of EPS foam products to serve this purpose. The core of the Barrier™ roll products is made of flexible, recycled expanded polystyrene to provide insulating characteristics. The core has vapor retarding film laminated to both sides as well as a patented self-taping edge and overlapping flange to make the installation seam-free and to reduce thermal bridging. XBoard™ provides similar characteristics in a high-density rigid sheet format for even higher heat stopping power.

The Barrier™ under concrete insulation is a thermal block that insulates the concrete from the cold and dampness of the ground. The Barrier™ product line-up is strong, durable, and won't collapse under the weight of the concrete. Since you can walk on it without the material breaking, installation is easier than using products that break under foot.

### Conclusion

The purpose of the post-frame building and the location will, in large part, determine the insulating plan, and whether the plan includes bubble/foil, fiberglass, EPS, or another form of insulation. Brown concludes, “The main thing is there isn't necessarily a one size fits all approach toward insulation. It's important to consider the use of the building, climate, what direction the building faces, placement of doors and windows and what the owner is looking to accomplish before determining which insulation is right for your project.” **FN**



MWI Components' Infinity Shield™ foil insulation is offered in standard rolls of 4' x 125' Single Bubble Foil/Foil, Double Bubble Foil/Foil, Single Bubble White/Foil and Double Bubble White/Foil. They manufacture a no seam 6' x 125' and 8' x 125' roll version of all the available SKUs. Their foil insulation features a standard crushed edge tab (2") that results in simplified overlapping. The ultra-white bubble — a result of additives throughout all layers of the bubble — provide an opaque finish. Courtesy of MWI Components

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# Out in the Cold

## Prevention, Symptoms and Treatment of Cold-Stress Injuries

**W**hen temperatures drop, the risks for cold stress injury increase. Cold temperatures and wind chill cause heat to leave the body more quickly, putting workers at risk of cold stress. In colder temperatures, it's important to know the dangers and the symptoms of cold-related injuries.

Those who work outdoors should be on the lookout for dangerous cold stress-related symptoms that could result in illness and injuries such as hypothermia, frostbite, trench foot, chilblains, dehydration, and sunburn. The National Institute for Occupational Safety and Health (NIOSH) has created helpful outdoor work information to identify cold stress illness and injuries, their symptoms, and first aid steps to stay safe. NIOSH also has a list of general suggestions to help workers prepare for cold weather work.

### Hypothermia

When exposed to cold temperatures, the body loses heat faster than it can be produced. Prolonged exposure to cold causes internal body temperature to drop, resulting in a condition called hypothermia. Hypothermia affects brain function, making the victim unable to think clearly or move well (i.e., they may be unable to protect themselves from hazards, or experience slips, trips, and falls). This makes hypothermia particularly dangerous because a person may not recognize the symptoms and will be unable to make life-preserving decisions. Symptoms of hypothermia can depend on how long a person has been exposed to cold temperatures and individual variability.

Early symptoms include shivering, fatigue, loss of coordination, confusion, and/or disorientation.

Late symptoms include no shivering, blue skin, dilated pupils, slowed pulse and breathing, and/or loss of consciousness. If hypothermia is suspected, medical assistance should be requested immediately (e.g., call 911).

#### First Aid:

Take the following steps to treat a worker with hypothermia:

- Alert the supervisor and request medical assistance.
- Move the person into a warm room or shelter.
- Remove any wet clothing.
- Warm the center of the person's body (chest, neck, head, and groin) first, using an electric blanket if available or create skin-to-skin contact with the person under loose, dry layers of blankets, clothing, towels, or sheets.
- Warm beverages may help increase the body temperature,



**Adequate cold-weather gear is the first line of defense against cold-related injuries.**

but do not give alcoholic beverages. Don't try to give beverages to an unconscious person.

- After the person's body temperature has increased, keep him/her dry and wrapped in a warm blanket, including the head and neck.
- If the person has no pulse, begin cardiopulmonary resuscitation (CPR).

### Frostbite

Frostbite is an injury caused by freezing of the skin and deeper tissues, resulting in the loss of feeling and color in the affected areas. Frostbite can permanently damage body tissues, and severe cases can lead to amputation. Examples of risk factors for frostbite include contact with metal or water, dehydration, diabetes, smoking, alcohol abuse, sedating or judgment impairing medications, and prior history of frostbite.

Symptoms of frostbite include numbness; tingling or stinging; aching; and bluish or pale, waxy skin. During treatment of frostbite and trench foot, avoid rubbing or putting pressure on affected areas, since that can damage tissue.

#### Workers suffering from frostbite should:

- Get into a warm room as soon as possible.
- Not, unless absolutely necessary, walk on frostbitten feet or toes — this increases the damage.



- Immerse the affected area in warm — not hot — water (the temperature should be comfortable to the touch for unaffected parts of the body).

- Warm the affected area using body heat; for example, the heat of an armpit can be used to warm frostbitten fingers.
- Not rub or massage the frostbitten area; doing so may cause more damage.
- Not use a heating pad, heat lamp, or the heat of a stove, fireplace, or radiator for warming. Affected areas are numb and can be easily burned.

### Trench Foot

Trench foot is an injury of the feet after prolonged exposure to wet and cold-related conditions. Trench foot occurs because wet feet lose heat faster than dry feet. To prevent heat loss, the body constricts blood vessels in the feet, and then the skin tissue begins to die. Symptoms of trench foot include reddening of the skin, numbness, leg cramps, swelling, tingling pain, blisters or ulcers, bleeding under the skin, and gangrene (e.g., foot turns purple, blue, or gray).

#### First Aid:

- Workers suffering from trench foot should:
- Remove shoes/boots and wet socks.
- Dry and warm their feet.
- In later stages, avoid walking on feet as this may cause tissue damage.

### Chilblains

Chilblains are the painful inflammation of small blood vessels in the skin that occur in response to repeated exposure to cold but nonfreezing temperatures. Small blood vessels in the skin may become permanently damaged by cold temperatures, resulting in redness and itching during additional exposures. Symptoms of chilblains include redness, itching, possible blistering, inflammation, and possible ulceration in severe cases.

#### First Aid:

Workers suffering from chilblains should:

- Avoid scratching.
- Slowly warm the skin.
- Use corticosteroid creams to relieve itching and swelling.
- Keep blisters and ulcers clean and covered.

### Dehydration and Sunburn

Just because it is winter does not mean workers are safe from dehydration and sunburn. Be prepared with water or other liquids and sunscreen.

### General Recommendations

Being aware of specific types of cold stress is important, but there are also general outdoor worker tips to keep in mind. Of course, avoiding exposure to extremely cold temperatures is best. When that's not possible, try to schedule work during the

warmest hours of the day. When that is not an option, follow these basic tips to keep yourself and your coworkers safe during the winter season.

1. Wear appropriate clothing. In most cases wearing several layers of loose clothing is better than fewer layers. Layering provides better insulation.

Tight clothing reduces blood circulation. Warm blood needs to be circulated to the extremities.

When choosing clothing, be aware that some clothing may restrict movement, causing a hazardous situation. In some situations, where better dexterity is needed or where loose-fitting clothing could be dangerous (around machinery), it may be necessary to go with tighter clothes and fewer layers. Alternatively, workers could temporarily remove layers to complete the tasks and put layers back on to warm up. Make sure to protect the ears, face, hands and feet in extremely cold weather.

Boots should be waterproof, insulated, and meet any other safety requirements. Consider layering socks, too.

Wear a hat; it will keep your whole body warmer. (Hats reduce the amount of body heat that escapes from your head.)

2. Move into warm locations during work breaks; limit the amount of time outside on extremely cold days.

Warm your body up and dry out clothes.

Eat warm snacks and drink warm liquids.

3. Be careful when warming up. Temporary warming shelters can be dangerous. If heated incorrectly, they can cause carbon monoxide poisoning. Because it is colorless, odorless, and nonirritating, carbon monoxide can overcome people without causing symptoms. Do not allow the use of or operate gasoline-powered heaters inside buildings or in partially enclosed areas unless gasoline engines can be located outside away from air intakes. Use of gasoline-powered heaters indoors can cause fatal carbon monoxide accumulation.

4. Keep with you cold weather gear, such as extra socks, gloves, hats, jacket, blankets, a change of clothes, and a thermos of hot liquid.

5. Include a thermometer and chemical hot packs in your first aid kit.

6. Avoid touching cold metal surfaces with bare skin.

7. Monitor your physical condition and that of your coworkers. Work with a buddy. If this isn't possible, a supervisor should routinely observe workers for cold stress symptoms.

**More information on outdoor workers and cold stress can be found on the NIOSH website at: [www.cdc.gov/niosh/topics/coldstress/](http://www.cdc.gov/niosh/topics/coldstress/). **FBN****

*Primary source: NIOSH [2019]. Preventing cold-related illness, injury, and death among workers. By Jacklitsch B, Ceballos D. Cincinnati, OH: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health. DHHS (NIOSH) Publication No. 2019-113, <https://doi.org/10.26616/NIOSH-PUB2019113>.*

# Embrace Diagonal BRACING

Why lateral restraint of truss top chords during installation isn't enough

By Sean Shields, Structural Building Components Association

**T**his article series has aimed to make clear metal-plate connected wood trusses are incredibly efficient at spanning large distances, but can buckle out of plane if not handled and braced properly during installation. A previous article (see *Frame Building News*, August 2021, p. 8) explored the guidance provided in the Building Component Safety Information handbook's B1 chapter (BCSI-B1) regarding setting, restraining, and bracing an initial set of trusses to provide a stable system to which subsequent trusses in the system can be braced. This article will look at the industry best practice guidance found in BCSI-B2 on installing temporary restraint and bracing beyond the first truss system.

## Triangulation

BCSI-B2 starts out stating: "Proper truss erection, installation, restraint and bracing requires an understanding of triangulation within and between the various planes of the truss (i.e. top chord, bottom chord and web). It is critical to note that all lateral restraints must be braced. Lateral restraint by itself is not adequate to resist buckling forces in the members to which it is attached

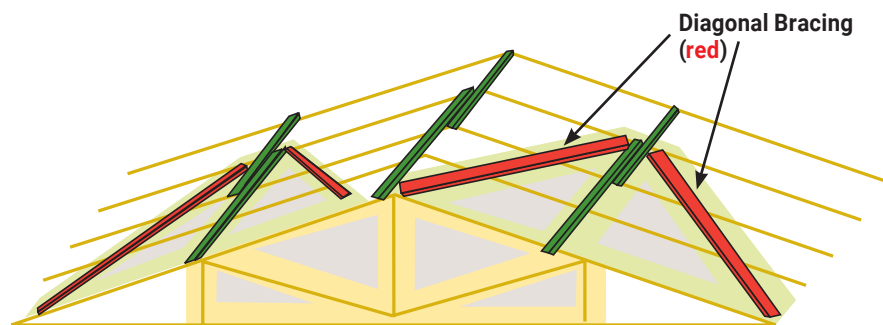


Figure B2-28. GRAPHICS & PHOTOS COURTESY OF SBCA & THE BUILDING COMPONENT SAFETY INFORMATION HANDBOOK



Photo B2-5

without the rigidity provided by bracing. Bracing is typically provided by adding diagonal bracing within the same plane of the lateral restraint or by anchoring the lateral restraint to a lateral force resisting member such as a shear wall."

Lateral restraint is vitally important, as it is the primary mechanism used to keep the trusses in plane during installation as they counteract the lateral (or shear) forces caused primarily by wind or installers as they interact with the trusses. However,



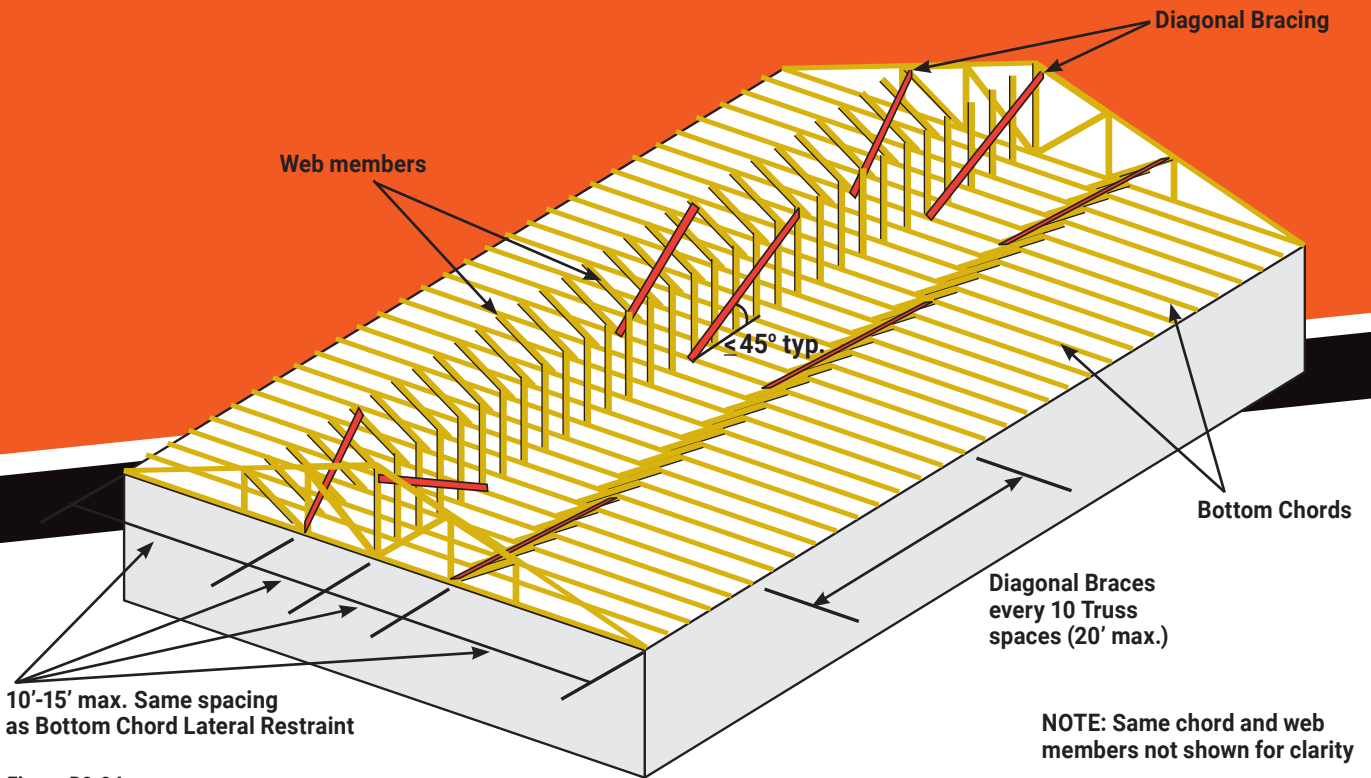


Figure B2-34

the key statement in the paragraph above is, “lateral restraint by itself is not adequate to resist buckling forces,” and this becomes more of an issue the longer the truss span.

The reason lateral restraint is not adequate is due to the way in which load is transferred through the various planes of a roof system during installation. Without exterior sheathing and permanent bracing

installed, shear load will travel primarily parallel to the top chord plane (or bottom chord plane) of the truss system. What this means in practical terms is lateral restraint may appear effective in the short term at keeping individual trusses in plane during installation. But used exclusively, it is not adequate for significant or sustained shear forces because the load is traveling through the system in the same direction as the restraint. In other words, the lateral restraint will not provide sufficient resistance causing the trusses to, at best, buckle out of plane, and at worse, collapse.

As B2 states, triangulation is the key to solving this outcome. By adding diagonal bracing to the lateral restraint (see Figure B2-28 and Photo B2-5), an installer is introducing another path the lateral shear load must travel. Instead of moving in a straight line across the top chord plane, for example, the diagonal bracing will transfer some of that load back on itself and at an angle. Much like how each individual truss uses triangulation to alternate members in compression and tension to transfer load efficiently to bearing locations, the combination of lateral restraint and diagonal bracing transfer lateral shear loads throughout a plane of the roof system.

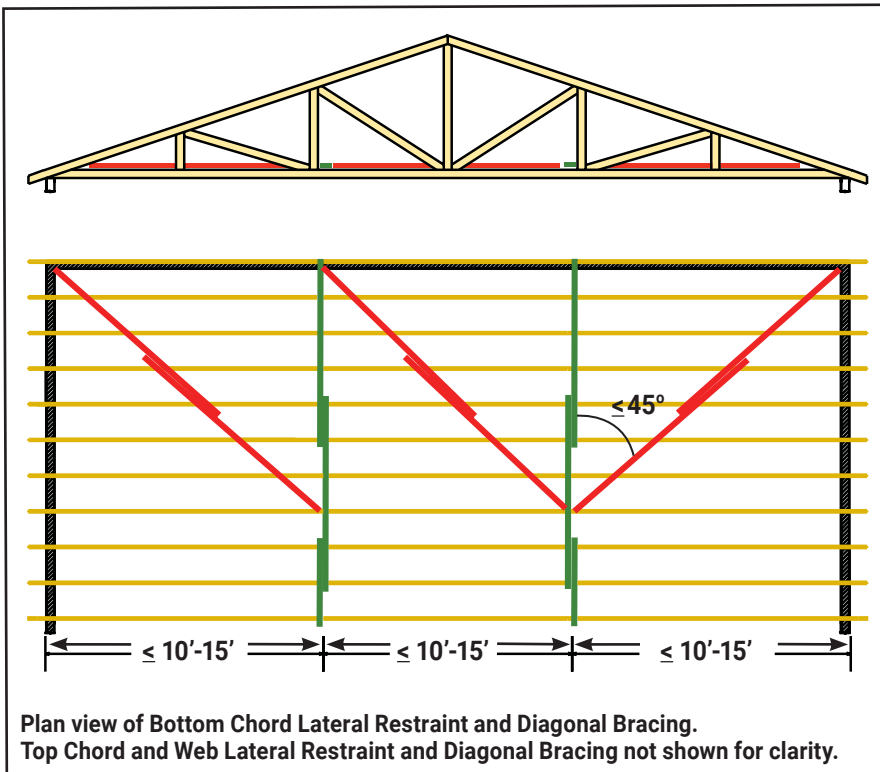


Figure B2-35

## Beyond the Top Chord

B2 also states:

“Diagonal bracing...installed perpendicular to the plane of the trusses and attached to similar web members of adjacent trusses greatly increases the stability of the truss system both during and after installation. The web diagonal braces, acting together with the top chord and bottom chord temporary lateral restraint, from triangulation perpendicular to the plane of the trusses, thus creating additional lateral stability for the trusses.”

Adding diagonal bracing in the web member plane provides considerably more stability than applying diagonal bracing on the top and/or bottom chords. This added stability can become increasingly beneficial as the span of the trusses grows and the potential for buckling increases. Applying web member bracing is also beneficial because it does not have to be removed when exterior sheathing is applied, allowing it to become part of the truss system’s permanent bracing (see figure B2-34).

The same can be said of bottom chord temporary lateral restraint and diagonal bracing. When used, it not only provides important stability to the system, but it also helps maintain proper spacing between trusses and ensures the bottom chords of the trusses in the system remain parallel over their entire length. When applied to the top edge of the bottom chords, this lateral restraint and diagonal bracing can also become part of the truss system’s permanent bracing (see figure B2-35).

## Ensure Good Connections

Following this guidance will greatly reduce the chance an individual truss buckles or a truss system fails. This assumes that all lateral restraints and diagonal braces are applied with adequate connections. B2 recommends that unless otherwise specified by the building designer, all restraint and bracing material should be 2x4 stress-graded lumber, or approved proprietary metal restraint/bracing, and affixed using 2-10d, 2-12d or 2-15d nails.

All nails should be driven flush into the restraint and bracing material (see figure B2-12, double-headed/duplex nails can be used for easier removal). Finally,

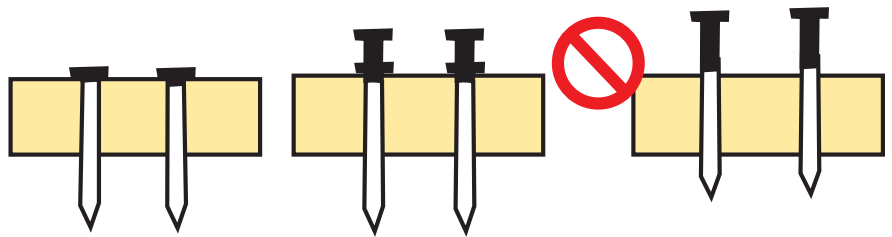


Figure B2-12: All nails should be driven flush into the restraint and bracing material.

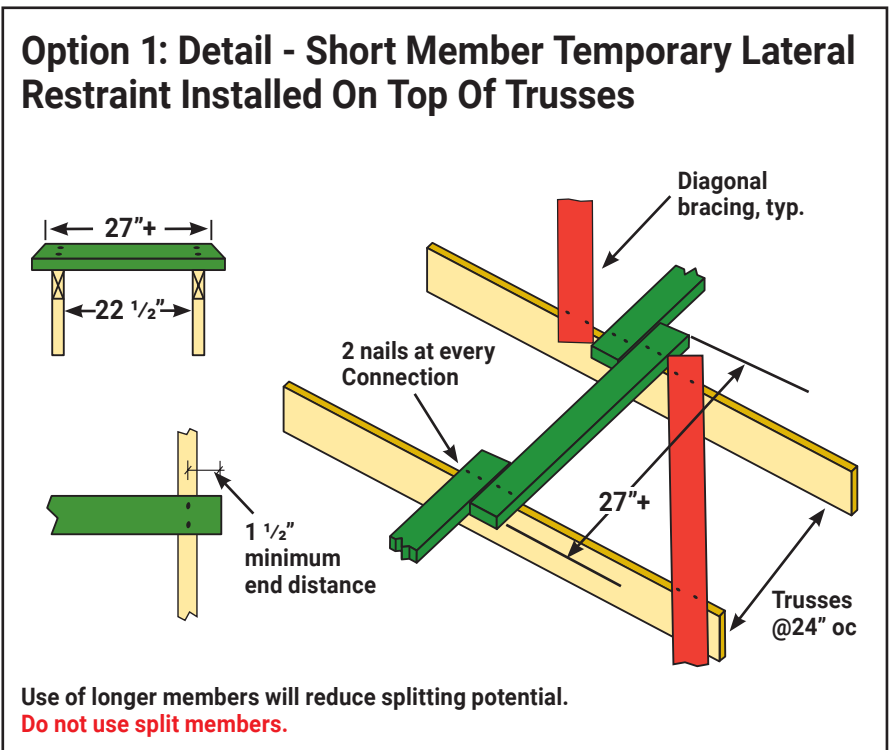


Figure B2-25

a minimum of two nails should be used to attach each restraint/bracing to each truss, being sure not to split the ends of the material. Often, it is advisable to use members slightly longer than necessary to allow a nailing pattern that does not get too close to the end of the material (see figure B2-25).

## Bottom Line

The application of lateral restraint during long-span truss installation is not adequate to resist shear loads. Applying diagonal bracing to the top chord, web members, and/or bottom chords provides necessary resistance through a process called triangulation. Diagonal bracing

applied in the web member plane, and to the top edge of the bottom chords, can provide significant resistance not only during installation but throughout the life of the building. All lateral restraint and diagonal bracing should be affixed using fully-embedded nails of a sufficient size and quantity to ensure they resist lateral shear loads as intended. **FBN**

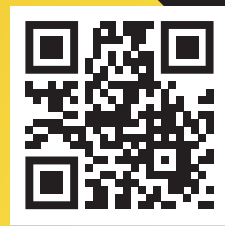
**Sean Shields** is Director of Communications for the Structural Building Components Association (SBCA, <https://www.sbcacomponents.com>) and has authored over a hundred articles focused on structural framing and off-site construction since 2004.



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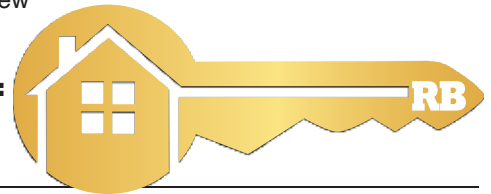


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| <input type="checkbox"/> Everlast Roofing, Inc.        | <input type="checkbox"/> MWI Components              | <input type="checkbox"/> United Steel Supply           |
| <input type="checkbox"/> Express Barns                 | <input type="checkbox"/> Palram Americas             | <input type="checkbox"/> Union Corrugating Co.         |
| <input type="checkbox"/> Extrutech Plastics (EPI)      | <input type="checkbox"/> Perma-Column                | <input type="checkbox"/> Varco Pruden Buildings        |
| <input type="checkbox"/> Fasteners Direct              | <input type="checkbox"/> Petersen (PAC-CLAD)         | <input type="checkbox"/> Ventco                        |
| <input type="checkbox"/> Footing Pad by AG-CO          | <input type="checkbox"/> Plasti-Sleeve               | <input type="checkbox"/> Wick Buildings                |
| <input type="checkbox"/> Graber Post Buildings         | <input type="checkbox"/> Plyco Corporation           |  |
| <input type="checkbox"/> GSSI Sealants                 | <input type="checkbox"/> Post Protector              |  |

**Can't find your favorite suppliers above?**

**Then nominate up to three suppliers in the spaces provided below.**

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2. Company Name & Location \_\_\_\_\_
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Your name: \_\_\_\_\_

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*[www.ruralbuildermagazine.com](http://www.ruralbuildermagazine.com)*

*[www.framebuildingnews.com](http://www.framebuildingnews.com)*

*[www.readmetalroofing.com](http://www.readmetalroofing.com)*

*[www.rollformingmagazine.com](http://www.rollformingmagazine.com)*

*[www.garageshedcarportbuilder.com](http://www.garageshedcarportbuilder.com)*

*[www.roofingelements magazine.com](http://www.roofingelements magazine.com)*



## NEW PRODUCTS //

### New Solar Product From S-5!

S-5!, the leading authority on metal roof attachment technology, introduces its newest addition to S-5!'s PVKIT® direct-attach™ solar solution for metal roofs.

Paired with the PVKIT, the PVKONCEAL module skirt conceals the front face of the solar PV array, protecting all mechanical and electrical components under-neath, as well as creating an attractive, clean finished look. PVKONCEAL also helps to minimize the intrusion of small animals, debris and unwanted objects under the solar array.

PVKONCEAL is made of corrosion-resistant aluminum with a prefinished black high-quality PVDF (polyvinylidene fluoride – the same premium paint finish used to coat metal roofs) made to last the life of the solar array and the metal roof. The versatile lightweight solution can be used in two orientations to cover module frames from 30-46 mm thick.

"We are excited to add the PVKONCEAL to our portfolio of products, offering an aesthetically pleasing solution that protects the solar PV system and the owner's investment," says Rob Haddock, CEO and founder of S-5! "Our team is always focused on responding to the industry's needs as we continue to innovate new and better solutions in a constant product improvement and invention/reinvention mode to bring competitive advantages to our customers."

[www.S-5.com](http://www.S-5.com)



### Bor-Max Series Earth Augers

General Equipment Company has introduced the 2350 Bor-Max™ Series earth augers and auger extension, offering digging performance for small, hand-held type earth auger products. These augers are specially designed to drill through unconsolidated soil classifications, such as loams, sands, soft clays and granular rubbles.

The Bor-Max Series earth augers are engineered with heavy-gauged helicoid-type flighting and axle to better withstand bending and torque loads. Overall, the augers are built to be aggressive with soil penetration, requiring less horsepower to dig a hole. Cupped flighting in combination with an increased flighting pitch is intentionally designed to maximize the amount of soil removed to produce cleaner holes with less spillback.

The cast-steel boring head features an alloy-steel screw bit and heat-treated cutting blade that are easily field replaceable to ensure minimal downtime. The cutting blade's outside edge extends past the boring head and flighting to extend service life of the auger. The augers come in nominal diameters ranging from 2" to 8" (51 to 203 mm). The plain shaft-type auger extension can be used with all auger sizes and increases the digging depth by 15" (381 mm).

The Bor-Max series earth augers are designed specifically for use with products utilizing 1" diameter auger drive connections.

[www.generalequip.com](http://www.generalequip.com)



### Simpson Strong-Tie Adds New Rafter Hanger Sizes

Simpson Strong-Tie has announced it now offers its LSSR rafter hanger in 2x lumber sizes that can install with both miter-cut and square-cut joists for plated truss. The design is patent pending.

The three new models – LSS-R26Z, LSSR28Z and LSSR210Z – feature a ZMAX finish for extra corrosion protection and respectively accommodate 2x6, 2x8, and 2x10 lumber.

Like the original LSSR models, these new sizes are field-adjustable for skews up to 45° and feature an innovative hinged swivel seat that adjusts up to a 45° slope. Plus, LSSR hangers can be installed after all of the rafters have been tacked into place, boosting contractor versatility, productivity, and efficiency on the jobsite.

All LSSR models, including these new 2x sizes, are tested and code listed in IAPMO ER-280. The new models fully replace 2x LSU/LSSU sizes.

[www.strongtie.com](http://www.strongtie.com)



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## NEW PRODUCTS //



### Impact Resistant Gloves

Pyramex has announced it offers six new impact-resistant glove options.

The Leather Driver Glove (GL3004CW) is made of ultra-comfortable grain goatskin, ideal for oil and gas, manufacturing and automotive activities, and glass and steel handling. With a hook and loop closure, and 5mm hi-vis thermo plastic rubber on the back of the hand, the gloves are ANSI/ISEA-rated Impact 1 with the following testing performance levels: Cut A7 |

Abrasion 4 | Puncture 5. The gloves also meet EN388: 2016-3X43FP safety standards.

The Nitrile Dipped Glove (GL609C) is a slip-on HPPE and latex elastic glove, with a nitrile sandy palm coating making for an outstanding grip. The glove features a 13-gauge HPPE liner, TPR on the back of the hand for impact protection plus a reinforced thumb. The gloves are commonly used in steel handling and fabrication, glass handling, mining, oil and gas, and HVAC, warehousing and automotive applications. They are ANSI/ISEA-rated Impact 2 with the following testing performance levels: Cut A6 | Abrasion 6 | Puncture 4. In addition, the gloves also meet EN388: 2016-4X43EP safety standards. Another option is the GL610C model, which offers all the features of the GL609C plus additional nitrile sandy coating on the fingers and knuckles, a hook and loop closure and touchscreen capability.

The Insulated Dipped Glove (GL612C) features a nitrile dipped coating, 13-gauge HPPE outer liner and 10-gauge acrylic inner

liner and offers contact cold protection. This glove which has a slip-on cuff design can be used for construction, masonry work, material handling or petrochemical applications. The gloves are ANSI/ISEA-rated Impact 2 with the following testing performance levels: Cut A5 | Puncture 4 | Abrasion 6. Plus, they also meet EN388: 2016-4X43EP and EN511: 2006- X2X safety standards.

The Corded Glove (GL803C) is a hi-vis glove constructed of corded cotton and spandex. With a polyester liner, hook and loop and neoprene cuff, and thumb saddle, the gloves are perfect for oil rigging, mining, framing, and mechanical, automotive and electrical applications. The gloves are ANSI/ISEA-rated Impact 1 with the following testing performance levels: Cut A2 | Puncture 3 | Abrasion 1. In addition, the gloves also meet EN388: 2016-1121BP safety standards. The Insulated Corded Glove (GL804C) adds a fleece lining and water-resistant bladder for contact cold protection.

[www.pyramexsafety.com](http://www.pyramexsafety.com) **FBN**

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## EVENTS CALENDAR //

Before making travel arrangements, check with the show producer to confirm there have been no changes to event dates, venue, or show hours. To have events included here, contact Karen Knapstein, 715.513.6767, karen@shieldwallmedia.com.

### 2022

#### January

**11**, Wisconsin Lumber Dealers Leadership Conference, Glacier Canyon Conference Center, Wisconsin Dells, Wisconsin. [www.nlassn.org/page/LeadershipCon](http://www.nlassn.org/page/LeadershipCon), 888-544-6822

**18-20**, Frame Building Expo, Gaylord Opryland Resort & Convention Center, Nashville, Tennessee. [nfba.org](http://nfba.org)

#### February

**1-2**, NLA Expo Nebraska, Embassy Suites Hotel & Conference Center, LaVista, Nebraska. [www.nlassn.org/page/expos](http://www.nlassn.org/page/expos), 888-544-6822

**1-3**, International Roofing Expo, Ernest N. Morial Convention Center, New Orleans, Louisiana. [theroofingexpo.com](http://theroofingexpo.com)

**3-4**, NLA Expo Iowa, Sheraton West

Des Moines Hotel, West Des Moines, Iowa. [www.nlassn.org/page/expos](http://www.nlassn.org/page/expos), 888-544-6822

**8-10**, National Association of Home Builders (NAHB) International Builders' Show (IBS), Orange County Convention Center, Orlando, Florida. <http://www.buildersshow.com/>

#### March

**7-8**, NLA Expo North, River's Edge Convention Center, St. Cloud, Minnesota. [www.nlassn.org/page/expos](http://www.nlassn.org/page/expos), 888-544-6822

**10**, 37th Annual BFBA Post Frame Expo, Heritage Community Center, 3558 US Route 62, Millersburg, Ohio. <http://ohiopostframe.org/>

#### July

**19-22**, FRSA's 100th Annual Convention and the Florida Roofing

& Sheet Metal Expo, Ocean Center - Daytona Beach, Florida. <https://www.floridarooft.com/>

#### September

**12-16**, NFC Framer Summit/Building Component Manufacturers Conference (BCMC), Greater Columbus Convention Center Columbus, Ohio. <https://www.bcmshow.com/>

**24-26**, Western Roofing Expo, Paris, Las Vegas. <http://westernroofingexpo.com/>

#### October

**26-27**, 3rd Annual Construction Rollforming Show, Ernest N. Morial Convention Center, New Orleans, Louisiana. [www.constructionrollformingshow.com](http://www.constructionrollformingshow.com). 715-252-6360 **FBN**



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<https://blunierbuilders.com>

## PROJECT DETAILS

**Builder:** Blunier Builders, Inc., Eureka, Illinois

**Location:** East Peoria, Illinois

**Size:** 42'x64'x16' w/ 8'x64'x8' porch w/ cedar columns

**Overhead Doors:** Raynor 12'x14', insulated; Raynor 9'x8', insulated

**Walk Doors:** Plyco Corp. 6'x6'8" S20 Steel insulated; Plyco Corp. 3'x6'8" Steel insulated with 40-Year Kynar

**Wall & Roof Panel:** McElroy Metal Max-Rib Ultra Steel, 80,000 psi tensile strength

**Windows:** (6) 4'x3' A.J. Manufacturing Harmony vinyl frame, thermal insulated Low-E sliders with grids

**Insulation:** 14" (R38) fiberglass blown in (ceiling), 6" (R19) fiberglass batt with poly vapor barrier (walls)

**Ventilation:** Continuous vented ridge, vented soffit

**Other:** (2) 3'x3' cupola with weathervane; stone wainscot

# PROJECTS THAT SHOW OFF THE BENEFITS OF POST-FRAME CONSTRUCTION

## Buildings of the Year



FRAMEBUILDING NEWS

If you have a nice building project you'd like considered for inclusion in the April issue of **Frame Building News**, we're looking for finished post-frame projects, along with information about the building and the components used in its construction. **There are 4 categories:** Agricultural, Residential, Commercial, and Special Purpose.



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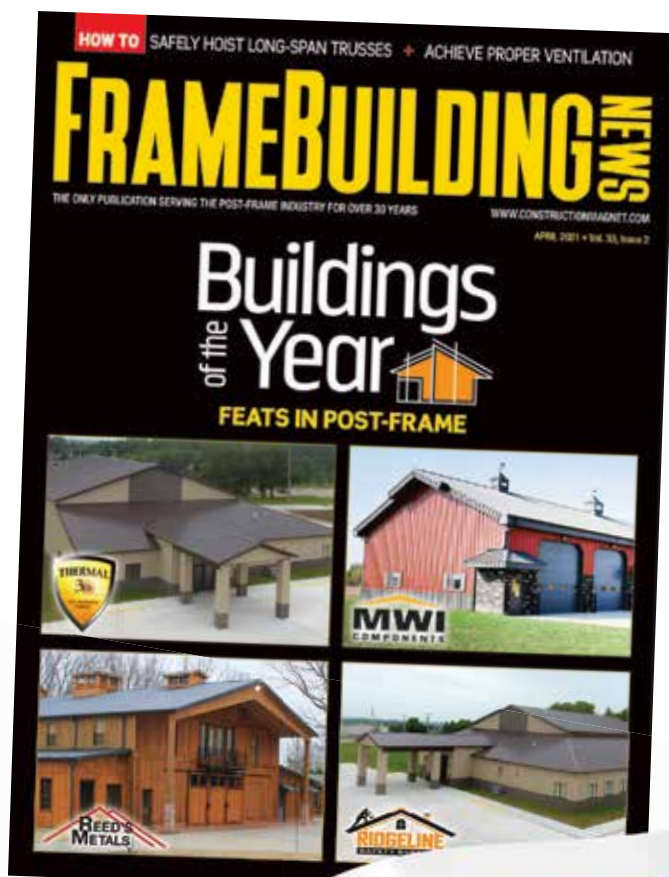
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**Deadline for FN  
Buildings of the Year:  
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Projects received after that date will be kept on file for possible publication as a Project of the Month.





# 2022 FRAME BUILDING EXPO PREVIEW

January 18-20, 2022

Gaylord Opryland Resort & Convention Center

**34:** Welcome & Keynote

**36:** Exhibitor Profiles

**53:** New Products

**54:** Family-friendly  
Fun in Nashville





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## 'Wingman' to Deliver Keynote Address

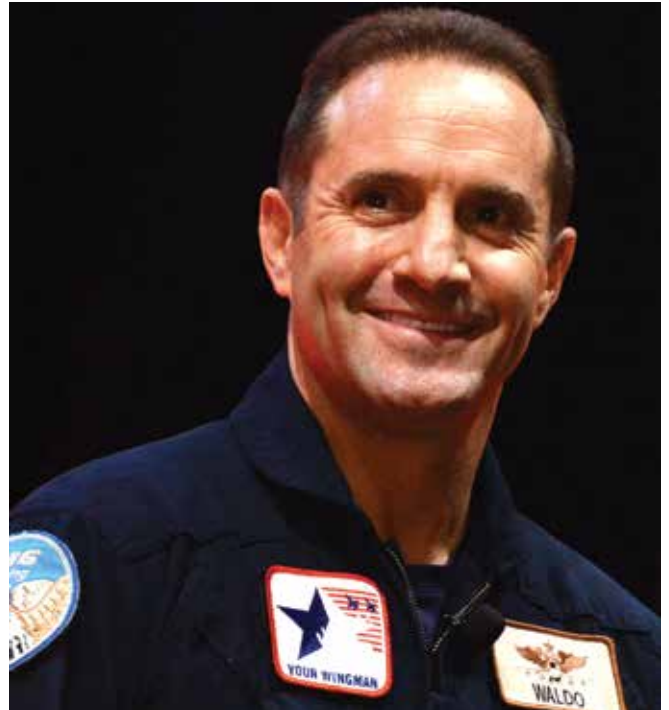
**T**he 54th Annual National Frame Building Association Conference & Expo ([www.nfba.org](http://www.nfba.org)) will be held January 18-20, 2022, at the Gaylord Opryland Resort & Convention Center in Nashville, Tennessee. Touted as the premier event for building professionals, attendees will find everything needed to build their business. With the great success of the February 2020 show in Des Moines, Iowa, and then the forced cancellation of the 2021 Conference & Expo (which marked the 50th anniversary of the event), the NFBA board, committees, and staff have been working hard to keep up the momentum putting all their efforts into planning a great show in Nashville.

The event's keynote speaker is decorated fighter pilot, New York Times bestselling author, executive coach, and Hall of Fame Speaker Lt. Col (ret.) Waldo Waldman ([www.YourWingman.com](http://www.YourWingman.com)). Waldman will deliver the keynote address, "Never Fly Solo!® - Lead with Courage, Build Trusting Partnerships, and Reach New Heights in Business," from 11 a.m.-12:30 p.m. on Tuesday, January 18 (Tennessee C Ballroom). He will share insights on how to overcome obstacles, break performance barriers, and take charge of change during adverse times. You'll discover how to re-commit yourself to excellence and collaborate with your partners, coworkers and customers with trust, courage, and mutual support.

Builders and contractors can walk the Expo floor free of charge. Free Expo passes are good for any individual engaged in the business of constructing post-frame buildings. Full registration must be purchased to access educational sessions.

Keep an eye out for new educational sessions both on and off the trade show floor, as well as product demonstrations, hands-on experiences, and enhanced technology-based interaction with the Mobile Conference App.

Just a few of the Frame Building Expo 2022 educational sessions include, but are not limited to:



**Lt. Col (ret.) Waldo Waldman will present the keynote address for the Frame Building Expo at noon on January 18.** PHOTO COURTESY NFBA

"The Power of Attitude," presented by Marvin Montgomery; "Four Secrets from Industry Experts On Choosing the Right Technology for Profitability," presented by Giri Addanki; "Train the Trainer," presented by Josh Nowlin; and "The Professional Customer Approach," presented by Marvin Montgomery. If you're struggling with your online marketing, don't miss the talks, "How to Make Google Love Your Business Website," presented by Chris Nastav and "Social Media Strategies for Bottom-Line Results," by Ted Janusz. Technical & Safety sessions include, but are not limited to, "Post-Frame Design and Construction: Learn from the Mistakes of OTHERS," presented by Aaron Halberg (who will also be presenting the talk "Snow Load Collapse"), and "Cost Effective and Code Conforming Wood-Framed Fire-Rated Construction," presented by Tim Royer. (Schedule and topics subject to change.)

In addition to the keynote speaker and educational programs, attendees can also look forward to food, drinks, and contests with cash prizes. Attendees can expect to make all the connections necessary to make smarter business decisions, grow their bottom line and enhance the credibility of their business.

We hope to see you in Nashville January 18-20! **FBN**



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#### Booth 714

1628 Troy Rd.  
Ashland, OH 44805  
800-321-6977

Atlas Bolt & Screw, the industry leader, has the widest selection of metal and wood fasteners, closures, venting, sealing, flashing and exterior building performance solutions. Headquartered in Ashland, Ohio with manufacturing and distribution located in Ohio, Texas, Oregon and North Carolina. Atlas is a member of the Marmon Group, a Berkshire Hathaway Company and a part of the Marmon Construction Fastener Company.

### Bay Insulation Systems

#### Booth 233

2929 Walker Dr.  
Green Bay, WI 54311  
920-406-4200  
mbisales@bayinsulation.com  
www.bayinsulation.com

Bay Insulation Systems is a leading supplier of insulation and systems to the post-frame industry of North America. With 24 facilities strategically located throughout the U.S. and Canada, our experience, quality, and service are second to none. We offer BayFoil™ reflective insulation, liner systems, semi-rigid and rigid board products, tapes, trims, skylights, doors, and windows.

### BECK America

#### Booth 821

105 Industrial Dr.  
Muscle Shoals, AL 35661  
www.beck-america.com  
Info@beck-america.com  
800-239-TOOL (8665)  
256-381-6659

We are proud to be the North American distribution arm for the vast range of tools, parts and fasteners manufactured by BECK, a company with over 115 years of experience in providing products of consistent quality and innovation. Each of our fasteners is carefully engineered to precisely fit the broad array of all common air-driven fastening tools. Our experienced staff of strategically located regional territory managers around North America is focused on providing excellent customer service and providing unmatched product knowledge to every customer to satisfy their unique needs.

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ASHLAND, OH | FLAT ROCK, NC | HOUSTON, TX | SALEM, OR

# FRAME BUILDING EXPO EXHIBITORS

## Borkholder Buildings & Supply

### Booth 450

786 US 6 West

Nappanee, IN 46550

[www.borkholderbuildings.com](http://www.borkholderbuildings.com)

Borkholder Buildings and Supply has been designing and supplying buildings since 1962. The home office is located in Nappanee, Indiana, and includes the corporate offices, engineering center, full-line lumberyard, custom truss and post manufacturing plant, and delivery fleet. This gives them ready access to all the components needed for each building package and quick shipment. Borkholder's goal is to provide customers with sustainable, attractive and affordable building solutions. By applying fifty years of experience in the building industry and incorporating the efficiency principles they've learned over the years, they continue to develop more efficient structures for their customers' benefit.



THE BRADBURY GROUP

## The Bradbury Group

### Booth 645

1200 E Cole

Moundridge, KS 67107

620-345-6394

620-345-6381 (fax)

[bradbury@bradburygroup.com](mailto:bradbury@bradburygroup.com)

[www.bradburygroup.com](http://www.bradburygroup.com)

The Bradbury Group provides roll forming, cut-to-length, levelling, automated production systems, insulated panel equipment, metal tile roofing systems, and controls for entry-level operations up to full-scale facilities. Our machines and systems are known for their reliability, high productivity, and scrap reduction. Our product lines offer a variety of roll formers designed for fast tooling and section changes including panel, purlin, trim, steel framing and portable roll formers, roll-forming tools and dies, advanced hydraulic levelers with e-Drive™ technology, cut-to-length lines, high-speed presses and shears,

hydraulic punch and cutoff systems, insulated panel and mineral wool systems, embossing and calendaring equipment, metal tile roofing systems, and automation controls. Bradbury's roster of trim shop equipment includes hydraulic long folders, Panther Cub II™ Slitter/Shears, uncoilers and recoilers, stand-alone sheet slitters, coil tipper, gutter machines and hemmers.

## Capital Forest Products

### Booth 128

222 Severn Ave.

Bldg 14, Suite 100

Annapolis, MD 21403

800-255-3405

410-280-6108

[www.capitalforest.com](http://www.capitalforest.com)

[marketing@capitalforest.com](mailto:marketing@capitalforest.com)

For more than 30 years, Capital Forest Products has been a leading distributor of lumber and shed manufacturing materials for the shed and outdoor utility building industry. Our exclusive relationships with our European and Canadian sawmills allow us to deliver only premium products to you. It is our mission to supply our customers with quality products from leading vendors in the industry. Allow us to be the resource that puts you a step ahead of your competitors.

## Central States Manufacturing

### Booth 527

C302 Jane Place

Lowell, AR 72745

479-770-0188

[www.centralstatesmfg.com](http://www.centralstatesmfg.com)

Central States manufactures metal building components for the post-frame, light-gauge, architectural, residential, and commercial markets. Offerings include both exposed and concealed fastener panel profiles, as well as trapezoidal standing seam panels in a selection of gauges, colors, and warranties. Trim and purlins are also available. Complete mini, boat, and RV storage packages are available through the Central Storage Works division.

## County Line Concepts, dba Tough Trade Tools

### Booth 844

211 N Lansing St.

Mt. Pleasant, MI 48858

[www.ToughTradeTools.com](http://www.ToughTradeTools.com)

989-859-2168

[info@toughtradetools.com](mailto:info@toughtradetools.com)

The construction business is a Tough

Trade. Hard work, day and night. Estimates need to be done and projects need to be completed. Tough Trade Tools understands that and has developed tools to make your job more efficient, safer and accurate. Our Ridge-3:10 helps to accurately pre-punch holes in the metal panels, The Ridge-L series keeps angles accurate. These, along with our other innovative tools can be found at our website: TOUGHTRADETOOLS.com.



## Direct Metals Inc.

### Booth 738

1719 Baseline Court

Fort Myers, FL 33905

[www.directmetalsinc.com](http://www.directmetalsinc.com)

[orders@directmetalsinc.com](mailto:orders@directmetalsinc.com)

855-800-8878

239-599-8545 (fax)

Direct Metals Inc. supplies fasteners, foam and vented closure strips and other roofing accessories to the post-frame and residential metal roofing industries. Primary products include long-life Dade County code compliant SCAMP 304 SS Cap metal to wood fastener as well as PANCLIP Pancake & Wafer head screws and panel clips for standing seam metal roofs. Additional products include pipe flashings, butyl mastic for side laps, 304 SS rivets, windows, reflective insulation and polycarbonate panels for skylights. The new PHANTOM translucent sealant for painted metal panels reduces the need to stock a multitude of colors.



COURTESY OF  
DIRECT METALS  
INC.





**DRIPSTOP**

**Booth 551**

10118 Settlement House Rd.  
Dayton, OH 45458  
www.dripstop.com  
info@dripstop.com  
937-660-6646  
937-999-3927

For over 25 years, DRIPSTOP has been the absolute best way of dealing with condensation on non-insulated metal roofs. It has been tried and tested in every climate condition across the globe and has proven to be a simpler and more economical way. The membrane will absorb the water caused by condensation, thus preventing dripping from the roof. DRIPSTOP serves as an

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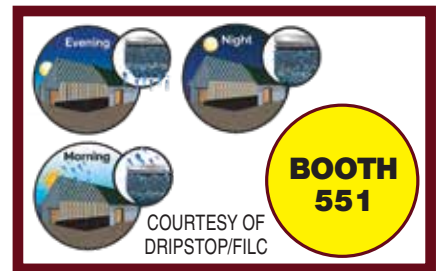
**East Coast Fasteners**

**Booth 502**

500 Industrial Dr.  
Elkhart Lake, WI 53020  
800-558-5895  
800-257-5926 (fax)  
www.plyco.com

East Coast Fasteners is committed to providing the highest quality products

and services to the post-frame and commercial construction industries. The company offers a variety of fasteners to deliver the best product for each specific project. East Coast Fasteners produces durable, long-lasting fasteners for all combinations of building materials and is dedicated to producing the fastest, long-life drilling products with the highest quality. For assistance in finding the best fasteners for your task, contact a Plyco/East Coast Fasteners building components professional today.



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# FRAME BUILDING EXPO EXHIBITORS

## Eastside Machine Company

### Booth 711

845 34th St. N  
Fargo, ND 58102  
800-234-7834  
701-280-5963 (Direct)  
701-232-6666 (fax)  
austin.chisholm@eastsidemachine.com  
www.eastsidemachine.com

Eastside Machine Company is proud to design, engineer, and manufacture rugged, reliable roll-forming machines here in the U.S. Our new Snap Lock Roofing Machine is designed specifically for residential and light commercial applications. Our 6/8/10 Combo Seamless Siding Machine is capable of manufacturing over 20 seamless profiles, and can easily convert from 6" to 8" or 10" jobs in a matter of minutes. No matter your needs, Eastside Machine will help you roll out the profits for years to come!



## Energy Panel Structures, Inc.

### Booth 211

306 N Van Gordon Ave.  
Graettinger, IA 51342  
www.Epsbuildings.com  
712-859-3219  
712-859-3275

ttorreson@epsbuildings.com  
Energy Panel Structures is a recognized leader in the manufacturing of engineered buildings that are custom designed to fit your needs, and then built for you by our network of professional builders. EPS manufactures engineered buildings for residential, agricultural, commercial, and cold storage projects. EPS is headquartered in Graettinger, Iowa with an additional manufacturing location in Perryville, Missouri. We are an employee-owned company and have been manufacturing superior building components since 1981.



## Everlast Roofing, Inc.

### Booth 427

10 Enterprise Court  
Lebanon, PA 17042  
www.everlastroofing.com  
888-339-0059  
717-270-6569 (fax)

marketing@everlastroofing.com  
For more than 20 years, Everlast Roofing, Inc. has continued to push the metal building component industry forward, leading to the creation and introduction of CECl® and Heat Forming. Understanding how essential quality roofing and siding is to your structure, Everlast shapes their steel roofing with laboratory-tested technologies such as AZM with Activate Technology and COLORBOND. These technologies allow for a self-sealing, protective barrier in the most vulnerable spots, such as scratches and cut edges, while providing a superior paint system tested in some of the harshest regions and formulated against the weather. It is easy to see why Everlast Roofing, Inc. continues to be the most innovative on the market.

## Fasteners Direct/ CondenStop Fasteners

### Booth 444

Mike Asher  
812-293-3606  
812-286-6024 (fax)  
CondenStop  
Mike Shelburne, Sales Manager USA  
502-548-4631

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condensation. CondenStop offers an affordable & high capacity absorption solution of market-leading quality. Certified by international research institutions to outperform other products by 20-60%, the unique benefits of CondenStop are recognized by our many global clients who use millions of square feet each year.

## Flack Global Metals

### Booth 718

425 West Lakeside Ave., Ste 200  
Cleveland, OH 44113  
216-456-0700

questions@flackglobalmetals.com  
www.flackglobalmetals.com  
FGM designs and fulfills custom supply chains for OEMs using flat rolled steel, aluminum and stainless. FGM was established to fill a void in the steel industry. It provides customers with a geographically agnostic steel distribution process and offers industry-leading risk management services to OEMs. FGM is headquartered in Scottsdale, Arizona, and maintains offices in Cleveland, Chicago, and Atlanta.

## Free State Lumber Co.

### Booth 550

41542 Highway 195  
Haleyville, AL 35565  
205-486-4000

Since 1973, Free State Lumber has supplied customers with quality products in a timely manner, contributing to its success. Free State has many years of experience supplying a variety of materials to distribution facilities, retailers, post-frame, agricultural, and shed builders. It has one of the largest inventories in the Southeastern U.S. and offers CCA and MCA treating; custom millwork (a variety of tongue-and-groove patterns) on 2' and 3' lumber; precision end trimming; custom re-sawing; dado-joined 4" x 6" runners for buildings; from 1" x 4" boards to 12" x 12" posts.





**Graber Post Buildings, Inc.**

**Booth 545**

7716 N. 900 E.  
 Montgomery, IN 47558  
[www.graberpost.com](http://www.graberpost.com)  
[info@graberpost.com](mailto:info@graberpost.com)  
 800-264-5013  
 812-636-4936 (fax)

Graber Post Buildings has been manufacturing and supplying building materials for over 45 years. Everything needed for your next post-frame project can be purchased from one location! We have a delivery fleet of over 50 trucks that are able to deliver projects to your business or job site. Graber Post can save you time and money. We offer free quotes.

**H&H Metal Products Inc.**

**Booth 446**

Michael Primavera,  
 General Manager/Partner  
 812-748-6050  
 812-256-0444 (fax)

H&H Metal Products, Inc. manufactures and distributes quality metal roofing and siding products for post-frame buildings, architectural projects and the ever-growing residential roofing market. H&H Metal Products has grown to become a successful company by focusing on one main goal...Customer Satisfaction.



**Hershey's Metal Meister**

**Booth 410, 611**

420 Progress Dr.  
 Mattoon, IL 61938  
 877-289-3030  
 217-234-4702 (fax)

We are a small family owned and

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# FRAME BUILDING EXPO EXHIBITORS



## Hixwood

### Booth 726

N14685 Copenhaver Ave.  
Stanley, WI 54768  
715-644-0765  
715-644-0094 (fax)  
www.hixwoodmetalinc.com

Hixwood is the premier source for all your coil, blank flat stock, and slit coil needs. We specialize in supplying the industry with products that are at the top of the spectrum. We have been proudly serving West Central Wisconsin, manufacturing quality building components for the past 23 years.



## I-Beam Sliding Doors

### Booth 702

1000 E US Rte. 24  
Chenoa, IL 61726  
815-945-3667  
815-945-7073 (fax)  
info@ibeamdoor.com  
www.ibeamdoor.com

I-Beam Sliding Doors is a company founded on building heavy-duty, lightweight sliding doors for the post-frame industry. The company prides itself on supplying doors to fit your needs. "Doors That Work!" is its promise. Doors are now available with the 6000# Ultra Glide track and trolley system. The trolley adjuster system allows for accurate and easy adjustment for our Ultra Glide trolley. It cannot come out of adjustment. Enjoy a lifetime unlimited warranty on ultra-glide track and trolley systems! The real game changer is the Incredible Swing Door on display again this year with many improvements to the structure and operating system. This is a game-changing system for the door industry. The True automatic mode system has obstruction detection and full velocity

command mode built into the system for ultimate operation safety. It self-adjusts closed positioning so that call-back and never-ending adjustment frustration is over!

## Janus International Group

### Booth 232

135 Janus International Blvd.  
Temple, GA 30179  
www.JanusIntl.com  
678-379-4475

Janus International is the leading global manufacturer and supplier of turn-key self-storage, commercial and industrial building solutions including: roll up and swing doors, hallway systems, re-locatable storage units, and facility and door automation technologies. The Janus team operates out of several U.S. locations and five locations internationally. Our team of experts are the ultimate resource for every aspect of your project, ranging from the exploration of planning phase all the way through an easy installation.

## Kennedy Insulation Group

### Booth 603

16800 Fir Rd.  
Carthage, MO 64836  
www.kennedyinsulationgroup.com  
877-358-4580  
417-358-4589 (fax)

Kennedy Insulation Group has been in the reflective insulation industry for almost two decades, we produce Versola Reflective Insulation right here in the USA in our Midwest manufacturing facility. We pride ourselves on our top quality products and short lead times on orders. Our dedicated, state of the art 7 layer bubble film lamination machine produces 4' and 6' seamless rolls in 3 edge configurations. Insulation is ALL we do. Highest industry standards. ASTM and RIMA certified. We aren't the cheapest, but we are the best!

## Klauer Manufacturing Company

### Booth 102

1185 Roosevelt St. Ext  
Dubuque, IA 52001  
www.Klauer.com  
563-582-7201  
563-582-2022 (fax)  
smsales@klauer.com

Klauer Manufacturing has been a trusted leader in the building products industry since 1870. K-Rib Roofing and Siding comes in 7 profiles and 18 colors,

produced from 29 gauge, full hard, grade 80 substrate and coated with Sherwin Williams Weather XL Silicone Modified Polyester paint. Five profiles of 3-foot wide coverage panels are available in custom lengths along with matching trim and accessories. 1-1/4" and 2-1/2" corrugated panels have 24" wide coverage and are available in 3 gauges of steel and standard lengths from 3" to 30". All painted products include a 40-year warranty.



## Leland Industries, Inc.

### Booth 121

www.lelandindustries.com  
95 Commander Blvd.  
Toronto, ON M1S3S9 Canada

Leland manufactures a complete line of fasteners for the wood frame, metal roofing and steel frame industries. We are one of North America's largest manufacturers and suppliers to the post-frame market. We offer self-tapping and self-drilling sealing fasteners in lengths to 12 inches in #10, 12 and 14 diameters. Leland's fasteners are 100 percent North American made, in carbon or stainless steel and can be plated, coated or powder coated to match any panel color. Leland will match any steel painted panel warranty. NZF3000® Series Zinc-Flake plating will revolutionize corrosion protection. Hexavalent Chromium Free, ROHS and DFARS compliant.



COURTESY OF  
HIXWOOD

**BOOTH  
726**





## Levi's Building Components

### Booth 633

400 Burkholder Dr.  
Ephrata, PA 17522  
877-897-7020  
717-656-2558 (fax)

[www.levisbuildingcomponents.com](http://www.levisbuildingcomponents.com)  
[sales@levisbuildingcomponents.com](mailto:sales@levisbuildingcomponents.com)

Levi's Building Components is a nationally recognized metal roofing accessories supplier, for all of your wholesale supply needs. Whether you're constructing a pole building or installing a metal roof on your garage, we have all the metal building supplies you need. If you're looking for a metal building supply company, contact us today! As a roofing material wholesaler, we specialize in snow guards, fasteners and accessories for metal roofs. Our metal roof supplies are vast and speak for themselves in quality. We also proudly serve our customers with prompt shipments, 75% of which ship complete same or next day.



## Marion Manufacturing

### Booth 346

401 S. Coble St.  
Marion, KS 66861  
620-382-3751

[www.marionmanufacturing.com](http://www.marionmanufacturing.com)

Marion Manufacturing Inc. adds the value to the metal. The company designs, fabricates, and installs custom manufacturing equipment, specializing in roll formers, decoilers, shears, stackers, etc. Also offered is a full service machine shop, with service on other brands of roll-form equipment provided.



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# FRAME BUILDING EXPO EXHIBITORS



## Maze Nails

### Booth 104

100 Church St.  
Peru, IL 61354  
[www.mazenails.com](http://www.mazenails.com)  
800-435-5949

Maze Nails is the exclusive manufacturer of Stormguard® double hot-dipped galvanized nails with a lifetime warranty against rust. In business since 1848, Maze offers a full line of specialty nails in bulk for hand driving and in collated sticks and coils for popular pneumatic nailers. Maze has been serving the post-frame industry for many years, providing painted rubber washer nails for corrugated roofing and siding. Maze post-frame nails meet ASTM F1667 specification. In addition, Maze manufactures nails for fiber cement siding products, cedar and redwood sidings, fencing, decking and roofing. All Maze Nails are proudly 100% made in the USA.

## McElroy Metal

### Booth 332

1500 Hamilton Rd.  
Bossier City, LA 71111  
[www.mcelroymetal.com](http://www.mcelroymetal.com)  
800-562-3576  
[info@McElroyMetal.com](mailto:info@McElroyMetal.com)

Designed for post-frame and residential applications, Mesa is a patent- and copyright-protected panel with a nearly invisible lap. Mesa's standard paint system is PVDF, the industry's best coating for long-term protection against chalking and fading. Matrix soffit panels, now available in 16-inch widths, are offered in colors that match McElroy's wall and roof panels. McElroy Metal, a leading supplier of metal roofing and wall products to the post-frame industry, is a participating supporter of the National Frame Building Association.



## Metal Rollforming Systems

### Booth 703

4511 North Freya St.  
PO Box 6246  
Spokane, WA 99217  
888-284-6794  
[info@msrollform.com](mailto:info@msrollform.com)  
[www.mrsrollform.com](http://www.mrsrollform.com)

Metal Rollforming Systems (MRS) designs, manufactures, and sells innovative rollforming equipment. Established in 1993, MRS continues to develop its business through dedication to equipment innovations and reliability to its customers. MRS understands quality is important. By choosing MRS, you will be working with a company that knows quality and reinforces it in their equipment. We do it all: Development, manufacturing, and assembly are all done in-house. This allows us to price our equipment very competitively, making it affordable for our customers. Our product line includes roll formers, trim roll formers, and much more!

## Metal Sales

### Booth 720

545 South 3rd St., Suite 200  
Louisville, KY 40202  
[www.metalsales.us.com](http://www.metalsales.us.com)  
800-406-7387  
[rgage@metalsales.us.com](mailto:rgage@metalsales.us.com)

Since 1963, Metal Sales has earned a reputation as the premier provider of innovative metal roofing, metal siding, building components and accessories. Metal Sales serves the entirety of the building market. These sectors include agricultural, commercial, architectural, and residential. We manufacture the widest array of products, systems, accessories, and services.



# METALFORMING

## Metalforming Inc.

### Booth 103

100 International Dr.  
Peachtree, GA 30269  
[www.metalforming-usa.com](http://www.metalforming-usa.com)  
770-631-0002  
[ametoff@metalforming-usa.net](mailto:ametoff@metalforming-usa.net)

MetalForming provides the most high-tech and durable folders, shears, roll formers, handbrakes and long folders in the industry. We focus on providing the most innovative technology available, no matter what your fabricating needs. The NEW Schechtl MAX-F folder is one example of the cutting-edge equipment we offer. Our customer experience starts with optimizing your process with the right equipment for the job. We don't stop there; our experienced team will install your equipment, train your employees, and provide services (remotely or in person) for programming, maintenance, and repairs. Don't just buy a machine; get the support you need and deserve!

## Midland Door Solutions

### Booth 721

1021 7th St. NE  
West Fargo, ND 58078  
[www.midlanddoorsolutions.com](http://www.midlanddoorsolutions.com)  
701-277-8836  
800-921-7008  
701-277-8961 (fax)  
[info@midlanddoorsolutions.com](mailto:info@midlanddoorsolutions.com)

Midland Door Solutions is the unparalleled leader in the design, manufacturing and installation of bi-fold and hydraulic doors. Since 1995, Midland has been providing solutions to customers' big door needs. Along with state-of-the-art manufacturing, Midland offers turnkey installation on all doors. This allows the builder to do what they do best, "construct buildings." As a total solution provider, we are personally there every step of the way to design your door, install it, and make sure it keeps working for years to come. We guarantee the best customer service and lowest total cost of ownership within the industry.







**Midwest Perma-Column, Inc.**

**Booth 528**

7407 N Kickapoo Edwards Rd.  
 Edwards, IL 61528  
[www.midwestpermacolumn.com](http://www.midwestpermacolumn.com)  
 800-798-5562  
 309-589-1199 (fax)  
[info@midwestpermacolumn.com](mailto:info@midwestpermacolumn.com)  
[sales@midwestpermacolumn.com](mailto:sales@midwestpermacolumn.com)

Located in the heart of the Midwest, we helped start a revolution in 2004 by manufacturing the patented precast Perma-Column as a cost effective way of achieving a concrete foundation. Midwest Perma-Column led the way again in 2019 by achieving ICC Certification to satisfy code and quality requirements. In between, the Sturdi-Wall concrete bracket system has become the gold standard. A complementary line, Best Products, offers laminated wood columns, foundation pad systems and the patent pending precast center posts for sliding doors.



**MWI Components**

**Booth 327**

1015 West 7th St.  
 Spencer, IA 51301  
 800-360-6467 Ext. 5  
 800-361-3452  
[info@mwicomponents.com](mailto:info@mwicomponents.com)

MWI is a leading manufacturer/supplier of post frame products. With 100+ steel colors, almost 30 aluminum colors and 50+ powder coat colors, the combinations are endless. Create beautiful buildings with MWI's cupolas, ridge-vents, soffit, trim, round/square track and accessories, and stall systems and complete your building's aesthetic with Dutch or Arcadian Sliding Doors. They also supply Uni-Vent®, sealants and retrofit products, and polycarbonate/PVC panels. Plus, MWI recently began manufacturing their own foil insulation, Infinity Shield™!

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**START OFF ON THE RIGHT FOOTING**

Concrete foundations are the new standard in the industry, and ICC-ES certified Perma-Column® is the most convenient, durable, and economical option. Wood in the ground will rot. Concrete will not. Perma-Column® precast piers elevate wood out of the ground, creating a permanent foundation so your post-frame building will last for generations—guaranteed.



**The Perma-Column® System**  
 Permanent post-frame foundations



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 Drill set for cured foundations



**Sturdi-Wall Plus™ Brackets**  
 Wet set for poured foundations

Perma-Column® is honored to be an 9-time recipient of the Rural Builder Gold Key Award for serving the industry with consistently high standards.

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400 Carol Ann Lane, Ossian, IN 46777 | Tel: 800 622-7190 | Fax: 260 622-7192

# FRAME BUILDING EXPO EXHIBITORS

## **NOFP, Inc.**

### **Booth 210**

725 Enterprise Ave.  
Wauseon, OH 43567  
www.nofp.com  
419-335-4850  
419-335-2380 (fax)  
info@nofp.com

NOFP, Inc. is a leading manufacturer of high performance reflective and under concrete insulation. Our Solex, MicroFoil and Performance Star products are ideal for insulating metal buildings, while our under concrete Barrier line is the perfect solution to insulate your slab. Below grade or above, we have a product to meet your insulation needs.

## **Novagard**

### **Booth 122**

5109 Hamilton  
Cleveland, OH 44114  
www.novagard.com  
216-881-8111  
800-380-0138  
216-881-6977 (fax)

Novagard is a leading manufacturer of silicone sealants and has been meeting the needs of construction professionals for 40+ years. NovaFlex Multi-Purpose Adhesive Sealant, is a neutral cure formulation that allows for permanent flexibility and excellent adhesion to most building materials. NovaFlex Metal Roof Sealant is V.O.C. compliant, does not shrink or crack and is used most frequently as a seam sealant or joint filler in metal roof systems. Novagard is a privately held Women's Business Enterprise.

ISO 9001:2015 (QMS with Design) | IATF 16949:2016 (QMS with Design) | Certified WBE | Visit us - Booth 122 | novagard.com



## **Palram Americas**

### **Booth 710**

9735 Commerce Circle  
Kutztown, PA 19530  
800-999-9459  
contactus.usa@palram.com  
www.palram.com/us

With more than 55+ years experience, Palram Americas is a leading manufacturer of Polycarbonate and PVC sheets. In addition to our highly popular daylighting solution, SUNSKY® polycarbonate panels for skylights and sidelights, Palram now offers PaLIGHT™ Trimboard. This complete line of PVC trim and accessories includes boards and sheets, profiles, column wraps, bead boards, corner boards, decorative mouldings and milled trim for siding and window surrounds. Palight Trimboard won't rot, split, or get damaged by insects – because it's made from long-lasting, low-maintenance, free foam PVC. And it's available with EverClean™ protective film to keep the product in pristine condition!

Palram also offers DURACLAD™ Multiwall Interlocking PVC panels for interior wall and ceiling cladding. Duraclad's tongue-and-groove edges allow for rapid installation and a smooth

and hygienic finish able to withstand aggressive chemicals and cleaning. For a highly reflective and chemical resistant liner panel, Palram's AG-TUF corrugated PVC panels are maintenance-free and ideal for agricultural interior cladding.



## **Perma-Column, LLC**

### **Booth 627**

400 Carol Ann Ln.  
Ossian, IN 46777  
www.permacolumn.com  
800-622-7190  
Mark.Stover@permacolumn.com

Perma-Columns are 5-foot precast concrete columns that keep wood out of the ground, ensuring your building's foundation will never rot. They are the first product to combine the economy of post-frame construction with the durability of a concrete foundation.



## **Planet Saver Industries, LLC**

### **Booth 247**

New Holland, PA 17519  
www.advancedpostsolutions.com  
610-377-3270  
717-355-9813 (fax)

GreenPost from Planet Saver Industries offers a unique non-toxic concept for protecting in-ground wood from the harmful effects of ground-contact decay, at the same time providing uplift restraint. GreenPost is laboratory proven, termite tested and building code compliant and is applied to posts using a specialized production machine so posts arrive ready for installation. GreenPost also complements pressure-treated posts by providing an environmentally friendly barrier, helping to keep the preservatives in the post longer.

**CHECK OUT THE NEW  
FRAME BUILDING NEWS  
WEBSITE**

**WWW.FRAMEBUILDINGNEWS.COM**



# 3RD ANNUAL Rollforming Construction Show



**OCTOBER 26-27, 2022**

**New Orleans Ernest N. Morial Convention Center**



**SCAN FOR  
UPDATES**

**FOR MORE INFORMATION  
CONTACT GARY REICHERT:  
[gary@shieldwallmedia.com](mailto:gary@shieldwallmedia.com)  
715-252-6360**



# FRAME BUILDING EXPO EXHIBITORS



## Plasti-Sleeve/Homework Design Inc.

### Booth 120

26740 Hwy. 169  
Zimmerman, MN 55398  
[www.plastisleeve.com](http://www.plastisleeve.com)  
763-856-5555

With more than 25 years in production, the original Plasti-Sleeve is a leader in post protection for buildings, offering economical, versatile and easy slide-on installation for 20 different post sizes. Made in the USA from the highest quality black HDPE plastic, Plasti-Sleeve offers unparalleled in-ground durability. Also available is Plasti-Skirt, an economical, easy-to-use, plastic skirt-board protector available for 2 x 8 and 2 x 6 skirt boards.



### Booth 302

500 Industrial Dr.  
Elkhart Lake, WI 53020  
800-558-5895  
[www.plyco.com](http://www.plyco.com)

PLYCO manufactures the most durable and dependable building components for the post-frame, metal building, commercial and light-commercial industries. Plyco's full-line of walk doors and windows are engineered to meet today's building codes. From commercial to agricultural to outbuildings, Plyco manufactures quality products to fit your construction needs. Contractors across North America trust Plyco's full line of track, SDR, ridge vents, cupolas, slide doors, Dutch doors, Champion doors, Equus products and Ply-Foil. One company for durable and reliable building components makes Plyco the easy choice for contractors.

A division of Plyco is East Coast Fasteners, offering a variety of fasteners to deliver the best product for the specific project and dedicated to producing the highest quality, long-life and fastest drilling products. For assistance in finding the best fasteners for your task, contact a Plyco/East Coast Fasteners building components professional.



## Post Protector, Inc.

### Booth 544

PO Box 187  
Pottsville, PA 17901  
[www.postprotector.com](http://www.postprotector.com)  
570-624-7030  
570-624-7031 (fax)  
[ken@postprotector.com](mailto:ken@postprotector.com)

Post Protector is a slide-on barrier system, delivering serious post-decay protection. Post Protector tackles post longevity concerns by eliminating both soil/concrete-to-post contact and chemical migration. Post Protector retains the simplicity, affordability, speed and strength of typical post-in-ground construction techniques. Horizontal perimeter ribs, in conjunction with provided hardware, yield substantial post uplift protection, and best of all, installation is a snap. It's simple: By keeping soil out and treatment in, Post Protector dramatically improves post-frame foundations.

## Precoat Metals

### Booth 526

635 Maryville Center Dr., Ste. 300  
St. Louis, MO 63141  
[www.precoatmetals.com](http://www.precoatmetals.com)  
314-802-5800

Precoat Metals, the largest independent metal coil coater in North America, provides speedy, dependable service and the highest standard of quality to a broad range of industrial customers. Precoat Metals has been in the coil coating industry for over 60 years. A leader in the application of decorative and protective coatings to continuous coiled steel for use in commercial buildings.



**PRO TIPS ON**

## Pro Tips On

### Booth 706

PO Box 255  
Iola, WI 54945

If you do quality work, one of the keys to successful selling is an educated consumer. Buyers need to understand

the benefits of what you offer. They need to appreciate the value of quality materials and workmanship. Otherwise, you compete solely on price. You do not have time to conduct a Master Class for every prospective customer and cannot just give away a quality product. Metal Roofing, Rural Builder and Frame Building News have provided information to contractors for 50 years. Now we write for consumers. *Pro Tips On* is a line of books designed to educate your potential customers. We cover materials, techniques and questions buyers need to ask. We are your master's class. "Your Metal Roof" is available today! "Your Carport" and "Your Post Frame Home" release Q2 of 2022. Let us show you how the *Pro Tips On* series will close more business.

## Qora Cladding

### Booth 132

750 Edelweiss Dr NE  
Sugarcreek, OH 44681  
[www.qoracladding.com](http://www.qoracladding.com)  
301-223-2266  
[marketing@arcitell.com](mailto:marketing@arcitell.com)

Qora Cladding gives buildings the premium look of stone cladding without the traditional weight and hassle of masonry products and installation methods. Easily install Qora over existing materials such as metal, wood, or masonry for knee wall, accent wall, and wainscot applications. Because Qora Cladding comes in easy-to-handle 20" x 48", 48" x 18", and 48" x 36" panels, it's designed to install with basic carpentry tools and fit together seamlessly with disguised joints, saving you time and labor costs. New Qora Cut LedgeStone TightStack is now available in 3 colors.



COURTESY OF  
POST PROTECTOR

**BOOTH  
544**



## RAS Systems, LLC

### Booth 803

1135 Dividend Court  
 Peachtree City, GA 30269  
[www.ras-systems.com](http://www.ras-systems.com)  
 770-487-7300

RAS manufactures CNC folders and shears for the sheet metal industry. RAS Systems has been the leader in metal folding since 1991. For producers of large parts, the XXL-Center has proven to be most accurate, productive, and cost effective folder on the market, with the same technology available in the 10-foot XL-Center. The TURBOend and the SMARTcut shear are the perfect setup for the smaller trim shop. Easy to program, with step-by-step directions to produce trim parts that fit like a glove in the field.



## Reed's Metals

### Booth 932

19 E. Lincoln Dr. NE  
 Brookhaven, MS 39601  
 1-800-581-4645  
[www.reedsmetals.com](http://www.reedsmetals.com)

[kblanton@unioncorrugating.com](mailto:kblanton@unioncorrugating.com)  
 For over 23 years, Reed's Metals has been an award-winning, industry-leading provider of metal roofing systems, metal roofing panels, post-frame, tube buildings and pre-engineered steel buildings. Comprised of 10 locations (8 manufacturing sites and 2 storefronts) with 3 IAS certified plants utilizing state-of-the-art technology and fabrication methods to provide unprecedented quality and service, offering same-day availability on in-stock standard roofing orders and supplies, on-site roll forming for standing seam projects and job-site delivery within 72 hours on most projects. We've got what you need at Reed's Metals where you can BUY DIRECT and SAVE!



## rFOIL Insulation (Covertch)

### Booth 740

279 Humberline Dr.  
 Etobicoke, ON M9W 5T6  
 Canada  
 800-837-8961  
[www.rFOIL.com](http://www.rFOIL.com)

rFOIL Reflective Insulation is the leading manufacturer of reflective insulation to the post-frame, metal building and metal roofing industry. rFOIL is specially designed to reduce radiant heat gain/loss and eliminate condensation in metal buildings. rFOIL utilizes a metalized aluminum surface(s) for outstanding thermal resistance, and an inner core of high-strength bubble to reduce

condensation. rFOIL's white interior facing contains UV inhibitors and antioxidant additives for long-term durability and resistance to cracking or flaking. rFOIL products are RIMA-Verified and tested to the highest ASTM standards.



COURTESY OF  
 rFOIL

**BOOTH  
 740**

## PRECAST CENTER POSTS FOR SLIDING DOORS

Eliminate wood stub failure

Bolt pattern accommodates your choice of center guide

1/2" steel top plate and shield for rugged reliability

Precast concrete column with rebar reinforcement

Threaded rod and footer plate simplify height adjustment

**3x STRONGER THAN STANDARD CONCRETE**

**2022 NFBA FRAME BUILDING EXPO BOOTH # 528**

**Patent Pending**

800-798-5562

**Installation is fast and easy!**

- Auger minimum 12" hole to 44" depth
- Attach adjustment rod and footer plate to the Center Post
- Place Center Post into hole
- With top plate being level, check for desired location
- Rotate Center Post clockwise until desired height is reached
- Double check top plate for level and correct location
- Back fill with concrete mix covering the bottom 6" of Center Post
- Finish backfilling hole after concrete has set up
- Backfill in 12" lifts and tamp each lift
- Attach center guide bracket to top plate with 3/8 bolts
- Avoid driving on Center Post until concrete has completely cured

**MIDWEST PERMA-COLUMN**  
**BEST PRODUCTS**  
[www.midwestpermacolumn.com](http://www.midwestpermacolumn.com)

# FRAME BUILDING EXPO EXHIBITORS

## Richland Laminated Columns LLC

### Booth 445

8252 State Route 13  
Greenwich, OH 44837  
419-895-0036

We recently added an all-new Glulam Pole to our list of products. Customers can now choose what foundation option they want: Glulam, Nail-Lam, Perma-Column, GreenPost, Sturdi-Wall, Post Protector or Grade Guard and The Footing Pad. Whatever foundation system you want, we've got you covered! Contact us: "Your One-Stop POLE Shop." Serving dealers throughout the Midwest since 2005 with mixed loads, stock programs and jobsite deliveries.



## Rigidply Rafters

### Booth 320

PA Location  
701 E. Linden St.  
Richland, PA 17087  
717-866-6581

MD Location  
1283 Joni Miller Rd.  
Oakland, MD 21550

[www.rigidply.com](http://www.rigidply.com)

Rigidply Rafters has improved the quality of post-frame buildings by manufacturing and distributing the original 100% glue-laminated post. By specifying Rigidply Posts, you guarantee the labor-saving and quality advantages of true glulam posts. Not only are glulam posts lighter, straighter, and stronger than solid-sawn posts, but they minimize cracking and splitting. When planning your next building project, Rigidply Rafters promises to supply integrity, quality, and service with your glulam posts.

## Royal Crowne Cupolas

### Booth 126

4 Township Dr.  
Paradise, PA 17562  
[www.royalcrowne.com](http://www.royalcrowne.com)  
[info@royalcrowne.com](mailto:info@royalcrowne.com)  
717-288-2630

Royal Crowne Cupolas' cupola selection features maintenance-free cellular PVC-vinyl cupolas, Western red cedar cupolas, copper cupolas, premium grade white pine cupolas, and metal cupolas. We have standard cupola and custom cupola sizes for any application. We stock weathervanes and finials in dozens of designs and sizes to provide that finishing touch to any rooftop, turret, or cupola. Royal Crowne is a wholesale manufacturing company that caters to trade professionals, lumberyards, and retailers nationwide. Our cupolas and outdoor décor have been manufactured and shipped to many locations worldwide.

## S-5!

### Booth 729

8750 Walker Rd.  
Colorado Springs, CO 80908  
[www.s-5.com](http://www.s-5.com)  
888-825-3432  
719-495-0045 (fax)  
[info@s-5.com](mailto:info@s-5.com)

Since 1992, S-5! has been the leading authority on metal roof attachment solutions. S-5!'s zero-penetration clamps attach ancillary items to standing seam and exposed-fastened metal roofs, while maintaining roof integrity and warranties. S-5! solutions are engineered for a variety of roof-mounted applications from snow retention to solar arrays, fall protection and wind performance systems, satellite dishes, service walkways, HVAC and more. Made in the U.S.A., S-5!'s products have revolutionized the metal roofing industry and are now installed on more than 2 million metal roofs worldwide. Tested. Trusted. Engineered.



## Safe-Way Garage Doors LLC

### Booth 344

3814 E. US 30  
Warsaw, IN 46580  
[www.safewaydoor.com](http://www.safewaydoor.com)  
[bthompson@safewaydoor.com](mailto:bthompson@safewaydoor.com)  
574-267-4861

Safe-Way Garage Doors is a leading manufacturer of quality residential, commercial, and industrial overhead garage doors in steel, wood, and aluminum. Headquartered in Indiana,

Safe-Way also operates facilities in Tennessee and Missouri with distribution throughout North America and Canada. Residential and commercial doors are available in multiple configurations including polyurethane and polystyrene insulated, un-insulated, up to 11 colors in steel, and multiple powder coat colors in aluminum.

## SFS Group USA, Inc.

### Booth 310

1045 Spring St.  
Wyomissing, PA 19610  
610-376-5751  
[www.us.sfs.com](http://www.us.sfs.com)

SFS is a premier manufacturer and supplier of fasteners for post-frame and metal building industries. Our wood screws and self-drill fasteners in a variety of materials, thread styles and point geometries meet the requirements and demands of today's buildings. ConnexTite™ structural wood screw is ideal for single and multi-ply truss, column header and joist applications. Accessories include VistaVent® ridge ventilation, VistaFoam® closures, tapes and sealants, and pipe flashing making SFS a one-source supplier for metal panel attachment solutions.



## Sherwin-Williams Coil Coatings

### Booth 322

[www.coil.sherwin.com](http://www.coil.sherwin.com)  
888-306-2645  
[coilhelp@sherwin.com](mailto:coilhelp@sherwin.com)

Sherwin-Williams has been a leader in the art and science of metal coatings that excel in both beauty and function. High-quality, field proven options including Fluropon®, a 70% PVDF, and WeatherXL™, an SMP coating, each known for its time-tested reliability. Each coating comes to life through a full palette of colors and textures to meet the most demanding environmental requirements and designs. We provide protection against weathering and damage that allows your project to endure.



## SmartBuild Systems

### Booth 217

Boulder, CO  
www.smartbuildsystems.com  
303-579-6277  
kdietzen@keymark.com

SmartBuild Systems is the pole barn industry's only complete design system for post-frame structures, including garages and sheds. Simple enough for anyone to use, this web-based software quickly generates a 3-D model, material lists, pricing, proposals, and construction documents for almost any post-frame building. For garages and sheds, new functionality displays and takes off multiple layers of materials for roofs and walls, displays multiple types of roofing and siding materials, and generates floor construction materials for sheds.

## Snap-Z

### Booth 637

330 Swamp Rd.  
Morgantown, PA 19543  
717-572-0910  
info@standingseamroofvent.com  
www.standingseamroofvent.com

Most standing seam ridge vents are too complicated to install. With SNAP-Z, installation is easy, and you can relax knowing that it won't fail over the lifetime of the roof and will vent adequately, in turn giving you satisfied customers and no call-backs. SNAP-Z has undergone rigorous testing by independent labs to ensure its standing seam ridge vent will withstand the worst elements and maintain the beautiful hidden fastener look that everyone wants. SNAP-Z currently supports 1", 1-1/2", 1-3/4", and 2" profiles. Have a more complex ventilation situation? Get in touch with SNAP-Z to see what can be specifically designed for you. "Do It Right."

## Steel Dynamics

### Booth 115

7575 West Jefferson Blvd.  
Fort Wayne, IN 46804  
www.steeldynamics.com  
615-429-0751

SDI Flat Rolled Group has an annual capacity of 11 million tons. Plants are located in Indiana, Pennsylvania, Mississippi and Texas. Products include Galvalume, Galvanized, Hot Rolled and Plate. By 2023, SDI will have 13 Metallic Coating Lines and 6 Paint Lines.



*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.



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# FRAME BUILDING EXPO EXHIBITORS



## ST Fastening Systems

### Booth 605

6357 Reynolds Rd.  
Tyler, TX 75708  
[www.stfasteningsystems.com](http://www.stfasteningsystems.com)  
800-352-4864  
800-352-3940 (fax)

ST Fastening Systems manufactures steel-frame and post-frame fasteners for agricultural, industrial, commercial and residential metal roof and sidewall applications. Product strengths are drill point quality and corrosion resistance, as shown by the WOODBINDER MB drill point and ZXL zinc-aluminum alloy molded head. Both products are enhanced by a powder coating paint system. Solid and vented closure strip systems, pipe flashings, and other accessories round out the product line.



## SWI Machinery

### Booth 503

85 Howell Ave.  
Fairburn, GA 30213  
[www.swimachinery.com](http://www.swimachinery.com)  
770-891-4388  
[info@swimachinery.com](mailto:info@swimachinery.com)

SWI, an international leader in cut-to-length sheet metal machinery, utilizes state-of-the-art technology to drive our superior Simplex and Duplex Folders, Marxman Automatic Slitters, Uncoilers, and Recoilers. SWI is recognized as the go-to provider for reliable, efficient technology, as evidenced by countless machines in operation today across the globe. Our machines are fast, flexible, and easy to operate, and with a host of advanced high-end features, you'll be amazed at what they can do to maximize your production time. Effective and reliable mechanical designs make SWI a number one choice for your most demanding sheet metal needs.

## Trac-Rite Door

### Booth 810

314 Wilburn Rd.  
Sun Prairie, WI 53590  
[www.tracrite.com](http://www.tracrite.com)  
[tr@tracrite.com](mailto:tr@tracrite.com)  
800-448-8979  
608-824-6745 (fax)

Trac-Rite Door manufactures quality steel roll-up doors for a multitude of uses including self storage, residential, agricultural, and commercial. Trac-Rite is dedicated to providing customized, worry-free, low maintenance products delivered with uncompromising service.



## Triangle Fastener Corporation

### Booth 220

1925 Preble Ave.  
Pittsburgh, PA 15233  
800-486-1832  
412-321-7838 (fax)  
[www.trianglefastener.com](http://www.trianglefastener.com)

Since 1977, TFC has supplied a full line of fasteners, sealants, tools, and accessories for the commercial construction industry. From 24 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 TFC SPECIFIC™ brand.



Your Roof. For Life!  
On Time and Complete!™

## Union Corrugating Company

### Booth 845

701 S. King St.  
Fayetteville, NC 28301  
888-685-7663

[www.unioncorrugating.com](http://www.unioncorrugating.com)  
[kblanton@unioncorrugating.com](mailto:kblanton@unioncorrugating.com)  
Visit Union Corrugating at Frame Building Expo Booth #845! Today, Union Corrugating Company, based in Fayetteville, N.C., is an award-winning industry leader serving the residential, commercial, and agricultural roofing and siding markets from 10 manufacturing facilities located throughout the central and eastern US. We manufacture metal roofing and metal siding/panels that are more durable, efficient, and sustainable. Our unique distribution system allowed us to grow rapidly from our roots in the Southeast by providing the fastest and most reliable deliveries in the industry. Our support network ensures you'll get what you need, when you need it. We have over 10 panel profiles and 20+ colors available. Ask about our 45-year SMP paint warranty.



## United Steel Supply

### Booth 221

248 Addie Roy Rd., Suite C200  
Austin, TX 78746  
512-263-0954  
[www.unitedsteelsupply.com](http://www.unitedsteelsupply.com)

United Steel Supply provides high quality flat rolled steel coils. We offer superior customer service, competitive pricing and just-in-time delivery, allowing us to achieve the highest level of customer satisfaction. United Steel Supply furnishes Galvalume®, galvanized, and prepainted steel coils for metal roofing and siding applications to the agricultural, commercial, industrial, and residential markets. **FBN**



## ■ MWI COMPONENTS BOOTH 327

Visit MWI's booth at the NFBA's Frame Building Expo to see our foil insulation, Infinity Shield™! This reflective insulation is offered in standard rolls of 4'x125' Single Bubble Foil/Foil, Double Bubble Foil/Foil, Single Bubble White/Foil and Double Bubble White/Foil. We also manufacture a no seam 6'x125' and 8'x125' roll version of all available SKUs. Infinity Shield™ is extremely cost efficient and hassle-free. Additionally, the additives throughout all layers of the ultra-white bubble result in a more opaque finish, and the standard crushed edge tab (2") will result in simplified overlapping. Come check out this newly manufactured product from MWI at the 2022 Frame Building Expo in booth #327!

[www.mwicomponents.com](http://www.mwicomponents.com)



## ■ BRADBURY PANTHER CUB III™ BOOTH 645

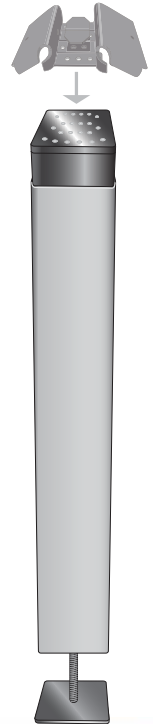
The Bradbury Panther Cub III™ light gauge slit, cut-to-length unit is ideal for trim shop work and lighter roll forming applications. It allows you to slit and shear or slit and recoil. Features include a moving front end allowing operators easy access to slitter knives, a handwheel adjust lead-in, precision depth control, the ability to stop and move slitter knives to reduce scrap, an upcut shear for sheet-on-sheet stacking, and the Beck Automation Cobalt control.

[www.bradburygroup.com](http://www.bradburygroup.com)

## ■ BEST PRODUCTS / MIDWEST PERMA-COLUMN BOOTH 528

Best Products, a subsidiary of Midwest Perma-Column, is proud to introduce Precast Center Posts for Sliding Doors. Visit booth #528 and find out how much time and hassle you can avoid with this easy-to-install sliding door post, which eliminates wood stub failure and simplifies height adjustment. This pre-cast concrete column with reinforcement is 3 times stronger than standard concrete, too. Midwest Perma-Column is known for products that ensure the structural integrity of a building, and this door center post is no different.

[www.midwestpermacolumn.com](http://www.midwestpermacolumn.com)



## ■ QORA CLADDING BOOTH 132

Experience the difference of Qora Cut LedgeStone TightStack. Qora Cut LedgeStone TightStack brings the timeless quality of stacked stone and the beauty of a modern, textured finish in a lightweight, easy-to-install, panelized cladding system. With Qora Cut LedgeStone TightStack, builders, architects and homeowners can achieve the look and feel of genuine stone, without the time and expense often associated with masonry. In fact, it can be installed with general carpentry tools. It's the immediate cladding solution to achieve an indistinguishable, stacked stone aesthetic that is ideal for exterior accents, knee wall and wainscoting applications. Available in three distinctive colors; Charcoal, Gunstock, and Lexington, there is a Qora Cut LedgeStone TightStack panel to complement any application. Qora Cut LedgeStone TightStack will not burn, rot, buckle or delaminate and comes with a 20 year warranty.

[www.qoracladding.com](http://www.qoracladding.com)





From country to the blues, there is something for everyone! And we're not just talking music-wise. There is plenty to keep the whole family entertained. And there's so much more to enjoy...parks, museums, great eats, even a ghost or two!



## DELICIOUS DINING

Delicious food and drink with kid-friendly choices means a good time for everyone.

- The Aquarium– Don't miss The Mermaid Show!
- Breakfast and Lunch are good fun at the Pfunky Griddle where kids add their own ingredients.
- The Market House presents many choices from southern bbq to filled crepes, a juice bar, beer and more.
- Savor authentic NY style pizza and the kids will love playing with a hunk of dough while you wait at Five Points Pizza.
- Go for a casual burger and fries (chef designed!) at Joyland.
- Find relaxed dining with a Mexican menu and children's choices at Nada.



*Enjoy The Mermaid Show at The Aquarium Restaurant.*

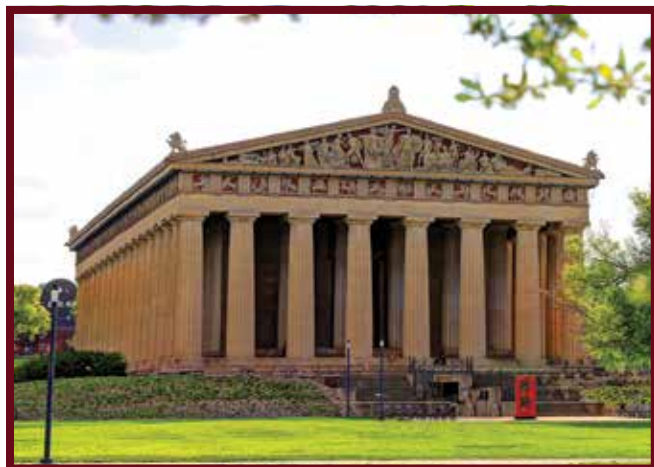


*Check out the Sculptures on Music Row.*

## **FAMILY FUN**

There are some really amazing ways to entertain kids and adults in Nashville...

- Haunted Nashville's All-Ages Ghost Walking Tour
- The Frist Art Museum for viewing and the Martin ArtQuest Gallery for creating
- Nashville Scavenger Hunt—you'll discover pieces of culture, history, and art.
- The Adventure Science Center and Sudekum Planetarium are great fun!
- Bike down Music Row—Bike rentals are \$5 and you'll find musical sculptures along this route.
- Enjoy a golf cart ride while viewing art on a Mural Tour
- Centennial Park offers beautiful hiking around the pond, through gardens and you can visit the Parthenon (a full scale version of the original in Athens)
- Go line dancing— lessons are free at Wildhorse Saloon.
- Float down the River on General Jackson's Showboat and enjoy the show, midday or evening!
- Let kids fly at the Urban Air Trampoline Park! (Virtual Reality play, ropes courses, and climbing wall too!)



*Visit the Parthenon (a full scale version of the original in Athens).*

## **AND OF COURSE...MUSIC!**

Everyone knows about The Grand Ole Opry, but there are many other interesting venues including:

- Listening Room Cafe— It's acoustic Americana or country music with a few other genres thrown in.
- Rhyman Auditorium is a great place to listen to music as the acoustics are perfect. Try the backstage tour if you are a country music fan.
- The Bluebird Cafe is popular for up-and-comers, but you need reservations.
- Schermerhorn Symphony Center brings classical, jazz, and pop to Nashville's musical repertoire.
- The Country Music Hall of Fame and Museum is an interactive way to learn about music!
- 3rd & Lindsley is a restaurant and famous eclectic music venue.
- Something truly different— The Caverns—it's a real cavern where people enjoy bluegrass performances. (Note: Requires some planning as it is over an hour away and reservations are needed.)



*Enjoy bluegrass performances at The Caverns.*



# Recognition Earned

## Building Progress Award Recognizes Trade Professionals

**T**he Shield Wall Media Building Progress Award has been launched to recognize individuals who have made significant impacts on the growth and/or development of the construction trade.

The new award replaces, and builds upon, two previous awards from our sister publications: The Rural Builder Hall of Fame and the Metal Roofing Magazine Hall of Fame awards. Both were long-standing programs. The Rural Builder Hall of Fame ran from 1982-2020. The Metal Roofing Magazine Hall of Fame ran from 2007-2019.

Both of these Hall of Fame programs have now come to a close and have been replaced by the Building Progress Award program.

### Details about the Building Progress Award Program

In this program, one award will be presented each year, beginning in 2023. Anyone can nominate one or more individuals who have had a significant impact on some facet of the low-rise construction trades serving the town and country market (population of 250,000 or less).

As the name implies, the Building Progress Award will be bestowed upon someone who has spent their career bettering and advancing the low-rise construction industry. Those advancements may include innovating products or processes, developing solutions to significant problems in the trade, influencing young people entering the workforce or people from other professions to join the construction trades, supporting trade education efforts, or any number of other ways to positively influence the construction industry.

### Nomination & Voting Process

The nomination process is non-exclusionary; anyone who has a vested interest in the construction trade may nominate a candidate who has made an impact on the low-rise construction industry. Builders, manufacturers, public relations and media professionals, and anyone else who comes in frequent and close contact with construction trade leaders and influencers are in an

excellent position to make nominations.

Candidates must have made exceptional, enduring contributions to the success of the industry and must have been active in the industry for a minimum of 10 years. Individuals who have received entry into the Metal Roofing Hall of Fame or Rural Builder Hall of Fame are also eligible for the Building Progress Award.

Once a nominee's qualifications have been reviewed and vetted, the candidate's professional profile will be published on all Shield Wall Media branded websites and in all Shield Wall Media magazines (time permitting).

The nomination period for the Building Progress Award cycle closes Dec. 31 each year. To accommodate late-cycle nominations, voting will commence February 15 and will close June 30. Ballots will be published in each of our magazines, distributed via email, and voting will be available online on each of the Shield Wall Media websites.

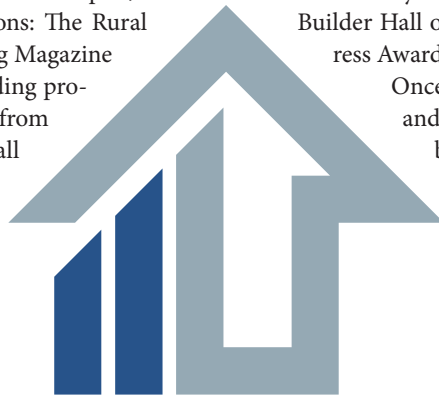
Voting is open to everyone over the age of 18, but is limited to one vote per person.

The winner will be announced through publication in Shield Wall Media magazines, on its websites, through its newsletters, and on its social media accounts. This person will have the distinction of being honored with the inaugural Shield Wall Media Building Progress Award. In addition to receiving an award, Shield Wall Media will donate \$1,000 to the charity of the recipient's choice. The charity is subject to approval and must be a 501(c)(3) organization.

All non-winning candidates will be rolled over and included on the next year's ballot, making repeat nominations unnecessary.

Download the form online at <https://bit.ly/BuildProg21> or by scanning the QR code shown. Questions may be addressed to Karen Knapstein ([karen@shieldwallmedia.com](mailto:karen@shieldwallmedia.com); 715-513-6767).

Due to extenuating circumstances of 2020-2021, the nomination period for the inaugural award will continue through December 31, 2022. **FBN**



## Shield Wall Media BUILDING PROGRESS AWARD







# *Official Nomination Form*

---

Name of Nominee: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
Email address: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Company/Position: \_\_\_\_\_  
If retired, most recent position held: \_\_\_\_\_  
Professional Achievements: \_\_\_\_\_  
Association Affiliations & Offices Held: \_\_\_\_\_  
Years in the Construction Industry: \_\_\_\_\_

Nominated By (name): \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
Email address: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Title/Company: \_\_\_\_\_  
Relationship to Nominee: \_\_\_\_\_

Please describe why this person should receive the Shield Wall Media Building Progress Award.  
How have they influenced or advanced the construction industry?

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

---

**Email the completed form to one of the editors.**

**Questions? Contact an editor:**

Karen Knapstein: 715.513.6767; karen@shieldwallmedia.com  
Linda Schmid: 920-659-6319; linda@shieldwallmedia.com

**Mail To:**  
Shield Wall Media  
ATTN: Editors – Building Progress  
PO Box 255  
Iola WI 54945

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