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publisher's note

BY GARY REICHERT

Looking back at '21 and ahead to '22

DEAR READERS, ADVERTISERS, FRIENDS AND Competitors,

2021 is finally coming to a close. In many ways, throughout the year we all felt like Charlie Brown with Lucy 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 lessened. 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. 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. 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

editor's note

BY LINDA SCHMID

Happy Holidays!

Enjoy the gift of practical information

THE END OF THE YEAR is right around the corner. Between trying to get my feet under me, helping get a few editions out the door, and attending my first trade show in South Bend, Indiana, the time has flown.

I enjoyed meeting some of you at the show. I asked many of you how you felt about working with Shield Wall Media, and you can see a few of the answers I received at right.

This edition of Rural Builder is a preview for the Frame Building Expo that will be held January 18-20, 2022 in Nashville, Tennessee. You will find information about what to do in Nashville, expo speakers, profiles of the exhibitors, and a few of their new products on pages 42-63.

Many practical issues are addressed

in this edition also. First, if you have ever wondered what structural insulated panels (SIPS) could do for you, check out our article on page 14 and learn about their pros and cons. Discover how some suppliers and builders limit waste and save money on page 40. Find out how you may be able to secure your jobsite without a hefty pricetag on page 22.

Finally, we've highlighted four versions of construction visualizers, each featuring different functions with a variety of benefits for users. Head to page 26 to compare and see how they could be of use to your business.

Linda Schmid,
managing editor
linda@shieldwallmedia.com

GARAGE • SHED • CARPORT BUILDER SHOW

Here are a few quotes from Garage, Shed & Carport Builder attendees:

"Working with Gary and being treated fairly is like a breath of fresh air." - **Qora Cladding**

"I've been to three Shield Wall Media shows and we've had good payback." - **DMI**

"Working with Shield Wall is a win/win." - **Dr!pStop**

...Hopefully you think so too!



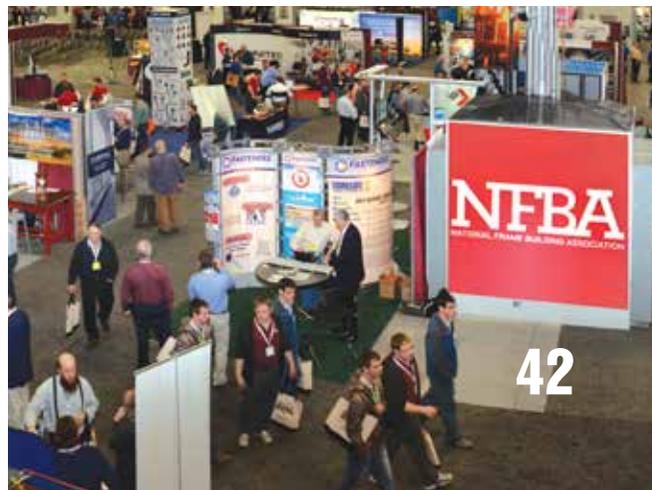
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Residence in Clayton, Indiana



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Corrections

In the October edition of Rural Builder, MWI Components was incorrectly listed as MWI Corporation.

In the Product Profiles in Rural Builder's Buyers' Guide, we incorrectly listed Greiner Buildings' phone number. The correct phone number is: 888-466-4139, as shown below. Rural Builder regrets the errors.



www.greinerbuildings.com
888-466-4139



ON THE COVER:

Post Frame Home in Clayton, Indiana, our Project of the Month.
PHOTO COURTESY OF GRABER POST

Cover Design by Tom Nelsen

QUESTION OF THE MONTH

?

What do you foresee happening with supply lines in the new year?

Drop me a line at Linda@shieldwallmedia.com or mail to Rural Builder Editor, P.O. Box 255, Iola, WI 54945

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Portrait of a Go-Getter

This mikeroweWORKS Foundation Scholarship Winner Lives the S.W.E.A.T. Pledge Every Day.

By Linda Schmid

MEET AARON AUMICK. HE'S A WORKER. In fact, he is so busy working all the time that we almost didn't connect for an interview. But, luckily, he made time to talk to me so you can meet him, too.

Aumick was introduced to work at an early age. Both his father and grandfather practiced carpentry in their spare time, after the workday was done. Aumick enjoys it, working with his hands and creating buildings. "I like the sense of accomplishment at the end of the day when you see what you've done."

GETTING STARTED

After high school, Aumick enrolled in college, but he didn't have a lot of funds. He found the Mike Rowe Scholarship Foundation fund online and decided to apply. I asked him if it was hard to apply; were there a lot of hoops to jump through? He said no. He mainly had to create a video about community service he had performed in his hometown.

What kind of community service did he do as a kid? Plenty. He worked his way up to Eagle Scout which requires community service. His Eagle Scout project was to create a Veteran's Memorial in the park. He built forms, poured concrete, drilled it out and placed the plaques. He also served as a volunteer firefighter and EMT, more work that Aumick found satisfying.

"Creating the video and completing the requirements was just enough to show the Foundation that an applicant was willing to do what was needed to acquire what they want. But it wasn't too much," he said. "It wasn't like some scholarship applications that require a 600-page paper. Some people just aren't cut out for that; people who go into carpentry would rather be outside."

Another requirement of receiving the scholarship was taking the S.W.E.A.T. Pledge. That is: the Skill & Work Ethic Aren't Taboo pledge. It's not for the faint of heart, but taking the pledge was nothing for Aumick to sweat about; "That's every day of my life," he said.



As a result of a collaboration with mikeroweWORKS Foundation (www.mikeroweworks.org), *Rural Builder* is featuring profiles of Work Ethic Scholarship recipients in each of its issues. Hundreds of scholarships have been awarded to trade-school students who value hard work and taking personal responsibility. *Rural Builder* applauds these students and wants to acknowledge their choice to apply their talents to skilled trades. Thank you, mikeroweWORKS Foundation, for your continuing efforts to close the skills gap and "reconnect the average American with the value of a skilled workforce."



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THE S.W.E.A.T. PLEDGE

The pledge that Aaron and every scholarship winner takes is as follows:

1. I believe that I have won the greatest lottery of all time. I am alive. I walk the Earth. I live in America. Above all things, I am grateful.

2. I believe that I am entitled to life, liberty, and the pursuit of happiness. Nothing more. I also understand that “happiness” and the “pursuit of happiness” are not the same thing.

3. I believe there is no such thing as a “bad job.” I believe that all jobs are opportunities, and it’s up to me to make the best of them.

4. I do not “follow my passion.” I bring it with me. I believe that any job can be done with passion and enthusiasm.

5. I deplore debt and do all I can to avoid it. I would rather live in a tent and eat beans than borrow money to pay for a lifestyle I cannot afford.

6. I believe that my safety is my responsibility. I understand that being “in compliance” does not necessarily mean I’m out of danger.

7. I believe the best way to distinguish myself at work is to show up early, stay late, and cheerfully volunteer for every crappy task there is.

8. I believe the most annoying sounds in the world are whining and complaining. I will never make them. If I am unhappy in my work, I will either find a new job or find a way to be happy.

9. I believe that my education is my responsibility and absolutely critical to my success. I am resolved to learn as much as I can from whatever source is available to me. I will never stop learning and understand that library cards are free.

10. I believe that I am a product of my choices – not my circumstances. I will never blame anyone for my shortcomings or the challenges I face. And I will never accept the credit for something I didn’t do.

11. I understand the world is not fair, and I’m OK with that. I do not resent the success of others.

12. I believe that all people are created equal. I also believe that all people make choices. Some choose to be lazy. Some choose to sleep in. I choose to work my butt off.

Aumick made good on his pledge; he graduated from Alfred State College of Technology with a 4.0 GPA and he earned the Dean’s Award for Excellence.

HARD WORKER AND HERO

These days, Aumick continues to prove that he believes in the pledge. He has become a full-time firefighter; it was his childhood dream to do so. On his days off, though, in fact *every* day off, he still pursues carpentry. When asked why, he said he was brought up that way; he always has to be doing something productive

because that’s what his parents taught him. “They were always pushing for me to be doing something constructive, not to be lazy, sitting around on my butt. That’s why it is hard at the end of the day to sit down. I think there must be something else that needs to be done,” he said.

Experience in construction is helpful for a firefighter, he said. He can often predict what is behind a wall which is a big advantage when working in a building he doesn’t know.

Aumick is currently in negotiations to buy into Thinkco, the business that he works with on his off-days. He still refers to it as his hobby, not because he doesn’t take it seriously, but because he enjoys it so much. However, they have work throughout the state of South Carolina and 99% is through word of mouth; they must be doing something right.

“I want to get it right the first time. I don’t want to have to come back and fix anything. We want to be a reliable company,” he said.



I asked what kind of talent it takes to be that kind of company. “Talent?” Aumick asked. “Anybody is capable with the right education. You are capable if your head is in the right space and you are motivated to do it. It’s skill more than talent.”

IN THE FUTURE

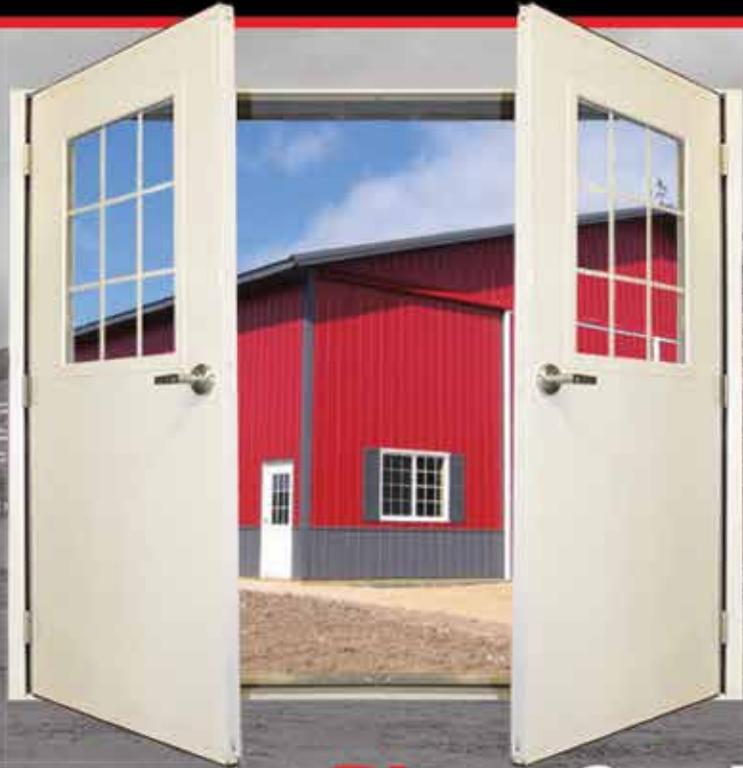
Aumick has no children, but he would be glad to have his future children enter the trades. “There are shortages there,” he said. “There is always something that needs to be done, instead of paying \$300,000 for an education that may never get you a job.” He hopes his children will have similar experiences and expectations as he has had.

His advice for young people is this: “Find something you want to do, something that you can feel proud of and show your kids some day. Find motivation and enjoy your work while enjoying a good way of life. Don’t feel that college is your only option.” **RB**

The First Look into Your Building



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Building the Labor Force

Simpson Strong-Tie collaborates with the Building Talent Foundation (BTF)

COMPANIES ARE STRUGGLING TO FIND good help, particularly in the construction trades, but the BTF is doing something about it and Simpson Strong-Tie has joined them.

BTF has been working to encourage youth to enter the construction industry since 2019 when twenty residential construction companies began working together to build the talent pipeline. They create awareness through school events and by helping schools develop curriculum that will develop the talent that the industry is looking for, then connecting that talent with employers. Finally they support the use of technology to develop better practices for recruiting, hiring, managing, and retaining workers.

Roger Dankel, President of North American Sales at Simpson Strong-Tie, said, “As a leader in the construction industry, one of our giving priorities is to contribute to the quality of Construction Trades Education and the promotion and advancement of the Trades. This is exactly what Building Talent Foundation does, so it’s an ideal partnership for us.”

Simpson Strong-Tie is no stranger to helping build next-generation talent. They sponsor the Strong-Tie Undergraduate Fellowship. “Every year, 100 juniors or seniors in Architecture, Civil/Structural Engineering or Construction Management across the country receive a \$2,000 scholarship to help them with education expenses. Along with the scholarship, they receive informal mentorship from our Outreach Coordinators, and we bring them out to California to give them more familiarity with who we are, what we do and our place in the industry,” said Dankel.

Dankel went on to say that Simpson Strong-Tie has partnered with other school, trade, and membership organizations like BTF and, “we’ve seen firsthand how these students make connections in the industry, network with each other and form good relationships, even before they get jobs. And when they do become part of the workforce, they’re motivated to develop a great career and move up into management. Some of these students have even gone on to form their own companies, which is amazing.”

Dankel sees training as a key piece of the Simpson Strong-Tie alliance with BTF.

“Simpson Strong-Tie provides world-class training to the industry, usually at no-cost. We want people to be knowledgeable about the work they do, along with how to use our products safely and correctly. Much of our training provides professional development hours (PDH) and continuing education units (CEU) through a variety of states and organizations.”

By joining BTF, Simpson Strong-Tie has joined a coalition of employers and educators scattered across the nation. They are donating \$600,000 to the Foundation as part of a 3-year commitment to help develop 100,000 new skilled trades workers by 2030.

BTF has just issued its Annual Impact Review of the foundation’s progress toward building the workforce. The report highlights include 387 events in 2021 including hiring and career events, job fairs, and presentations. The website, Jobstobuild.com was launched in March. It seeks to unite job seekers with coaches and employers. To date, BTF has placed 436 qualified candidates with employers. **RB**



**Roger Dankel, President,
North American Sales,
Simpson Strong-Tie**



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Pressure
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Post
Frame

Log Home
Spike



Dream Designs Brought to Life

THE WINNERS OF THE DESIGN and construction project photo competition were announced at METALCON's annual conference and tradeshow held in Tampa, October 6-8.

Architects, designers, contractors, manufacturers and owners were invited to submit high-quality photos of their best, coolest, most interesting and inspiring projects that feature metal in the interior OR exterior design in one of the following categories: Roofs; Walls; Interiors; and Ornamental/Architectural Features.

The winners are:

- **Roofs:** Rheinzink, Project 24: Bezier Curve House/A-House
- **Walls:** ATAS International, Project 18: David Rubenstein Forum at the University of Chicago
- **Interior:** Gotca Group, Project 2: Museum of Tomorrow
- **Ornamental/Architectural Features:** Gotca Group, Project 2: Museum of Tomorrow
- **Grand Prize Winner:** ATAS International, Project 18: David Rubenstein Forum at the University of Chicago

A panel of judges comprised of the Metal Construction Association (MCA) council chairs and other metal construction and design industry experts determined one winner in each of the four categories with one grand-prize winner. Entries were judged based on the use of metal in design and construction communicated through photographs, not photo composition.

Top entries were displayed in the METALCON Metal in Architecture Gallery at the Tampa Convention Center. Photos selected for inclusion in the gallery were automatically entered to win, and the grand-prize winner was awarded a \$1,000 cash prize.

“We were excited to receive such a great response, enabling us to create a beautiful display on-site of projects that illustrate the beauty, durability and functionality of metal in all kinds of architecture, from fire houses and truck stops to museums,” said Judy Geller, METALCON’s Vice President of Tradeshow. “We are grateful to all of those who participated and to ATAS International for donating back the grand prize win of \$1,000 to Feeding Tampa Bay as part of our annual giving back



Grand Prize Winner: ATAS International, Project 18: David Rubenstein Forum at the University of Chicago

program.”

METALCON 2022 takes place in Indianapolis, Indiana from October 12-14 at the Indiana Convention Center. Established in 1991, METALCON is an annual tradeshow and conference devoted exclusively to the application of metal in design and construction. Contractors, architects, developers, owners, fabricators, manufacturers and suppliers from more



Gotca Group, Project 2: Museum of Tomorrow

than 50 countries attend each year. Industry experts from 200 leading companies exhibit the latest products, solutions and game-changing technologies. METALCON’S success is based on a dynamic exhibit hall, extensive educational programs and interactive learning opportunities. Produced by PSMJ Resources, Inc., this was the event’s fifth time in Tampa. **RB**

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One Secret for Easier, Faster Builds

Are Structural Insulated Panels (SIPs) Right For Your Project?

BUILDING WITH SIPs IS ON the rise according to Lee Bergum, District Sales Manager at Energy Panel Structures, Inc. (EPS) and Mike Mattison, Sales and Marketing Manager. EPS sells other, more traditional post frame materials as well as SIPs, but in the last couple of years, they have seen a significant increase in residential builds using SIPs. Here are some of the reasons why more builders taking advantage of this type of construction.

ADVANTAGES ON THE JOB SITE

Structural insulated panels (SIPs) are created by sandwiching insulation between two coated surfaces to create one solid panel. They have many advantages: They come pre-measured, pre-cut, and pre-drilled so much of the work is done before it gets to the work site, which reduces labor costs. This saves on time and error, too, according to Bergum.

“Heated farm buildings, shops, commercial buildings, multi-family housing and everything in between — more and more

people are leaving post frame panels and moving to structural insulated panels,” Mattison said. “For barndominiums and shouses, SIPs are the perfect choice, particularly in rural areas where rodents can be a big consideration.” Mattison went on to say that any insulation properly installed will deter rodents, but SIPs leave fewer opportunities for them due to the tight nature of the construction.”

Further, SIPs can save even more errors when you have the whole building pre-engineered as one building system that fits together perfectly. That is an EPS specialty with roofing, walls, and floors pre-measured, cut and drilled, ready to be put together like a gingerbread house.

Scott Foley, President of Ultimate Construction in Cottage Grove, Wisconsin stated that almost everything he builds is created with SIPs, and they are exclusively SIPs from EPS. Foley said that the package that he gets from EPS with everything from trusses to flooring makes building easier, it cuts down on



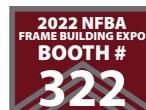
Building constructed with structural insulated panels (SIPs).
PHOTO COURTESY OF ENERGY PANEL STRUCTURES, INC.



THE BEAUTY'S IN THE DETAILS

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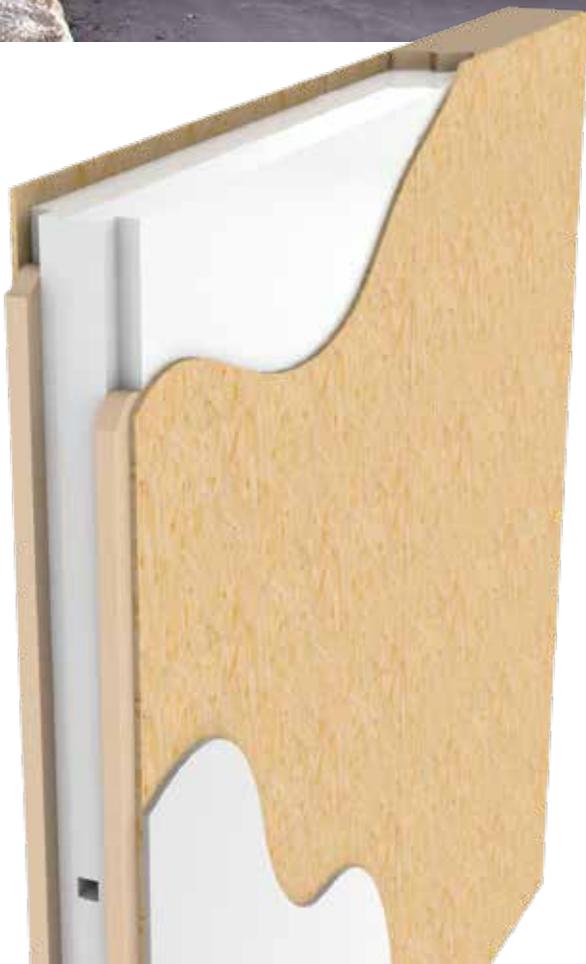
See where color can take you. Contact us at coil.sherwin.com.





(LEFT) SIP cutaway showing composition.
(ABOVE) Residence built with SIPs.

ALL PHOTOS COURTESY OF ENERGY PANEL STRUCTURES, INC.



labor costs, and even cuts comp claims. “It’s all engineered and designed to go together. EPS takes the building codes of each location into consideration and the zone they are building in, which determines what kind of snow load the building needs to handle. They plan everything, and then they send me a manifest with everything listed and they ship me everything I need to do the job.”

“When everything comes pre-engineered, there are fewer guys on the build and there is less back pain and fewer shoulder problems since there isn’t as much bending down. My guys don’t want to work on a stick-frame house,” Foley continued, “they are believers in SIP building, too. And with the problems with the labor force, you have to do what you can to keep the good ones.”

ADVANTAGES THAT LAST

Energy efficiency, the main reason for insulation, can be greatly increased by 40% to 60% with SIPs, which, of course, impacts comfort, providing a cooler environment in the hot season, and a warmer space in the cold season.

Mattison explained that the reason SIPs are more energy efficient is because they are “constructed without traditional



Residence built with SIPs.



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framing, so there is about 6% to 7% lumber in the wall compared to the approximately 30% to 35% lumber in a stick frame wall. The lumber brings the R value down in an effect called thermal bridging.”

Foley said that he does testing on every build site to prove the higher energy rating. “A blower door test or air exchange test on a standard Energy Star home has a rating of .30, but we generally bring that down to .06. A .09 rating is a bad rating for us. That’s like a third of the standard.”

Further, because of the pandemic, Mattison has seen that people are more focused on healthier environments since they have been spending more time in their homes. According to Foley this is another reason to build with SIPs, since stick-built homes can let moisture through OSB and drywall, but SIPs don’t really leave moisture a chance so mold cannot develop. Further, wooden SIPs don’t produce the type of off-gassing seen in other building materials.

ARE SIPs ALWAYS THE BEST CHOICE? PROBABLY NOT.

“Of course, as with any building material, there are other

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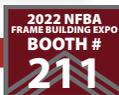
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SIPs were used to build this commercial space. As a result, the owner will see energy savings throughout the life cycle of the building. PHOTO COURTESY OF ENERGY PANEL STRUCTURES, INC.

considerations. First, there is more pre-planning; since everything comes pre-cut and pre-engineered, you have to plan ahead for every window and every door,” Bergum said.

Another drawback for some builders is simply that they are comfortable with the way they build. They may feel that they will have to retrain themselves and their crew and they may not be comfortable with that.

SIPs also cost more up front, so that is another thing to consider. Foley points out that there are some builds where the extra cost is not gaining you anything. For instance, if you are building a storage building that will not be heated, it’s probably not worth the extra expense.

IN THE END

So are the advantages worth the drawbacks on eligible builds? Bergum, Mattison, and Foley think so.

Bergum said the builders who have changed to SIPs love them and don’t want to go back. They are spending most of their time building, not dealing with errors.

When it comes to the expense, “You have to look at the cost over the lifetime of a building,” Mattison said, referring to the energy efficiency achieved by this type of build.

Foley added that his buildings boast a return on investment that’s usually 6-7 years. So in addition to having a building that’s healthier, warmer, and stronger, you have a building that’s also cost effective.

Bergum added a word of caution: “Make sure you get the ‘core’ or exterior envelope right. You can’t change it once it’s done, like a counter top or carpeting.”

A healthy, strong, and cost-effective building environment is something your clients can all appreciate. **RB**

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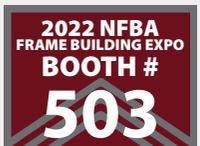
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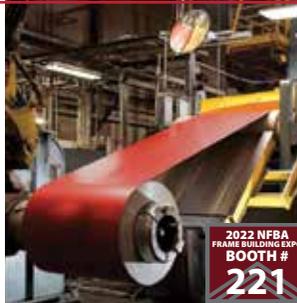
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Protect Your Assets

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JOBSITE THEFT VALUED AT OVER one billion dollars is reported annually. And it costs companies more than just the value of the equipment and the time it takes to remedy the situation. Since insurance may not entirely cover the cost of stolen equipment, replacing it may cost additional money. And while the equipment is missing, it's not available to do the job, which costs even more.

Since the pandemic hit industry supply lines, businesses are more at risk than ever. Take Travis Steffan, owner of Fargo-based SKS Construction, as an example. When the jobsite his concrete crew was working was "hit," the dump trailer they used was stolen leaving his crew without the equipment needed to do the job. Then, when he tried to replace the trailer, there weren't any available. There weren't any available locally, or even regionally; he had to look out of state to find what he needed.

Matters are further complicated when insurance companies pay only the depreciated value of a piece of stolen equipment, which means the owner has to come up with the difference. If the item was customized in any way, the customized functionality is lost as well, "leading to layers of disappointment and inconvenience," said Dave Batcheller of The Galeo Group.

AFFORDABLE SOLUTIONS

Jobsite security equipment would appear to be the answer to this dilemma, yet many find the cost too high. That's where the Galeo Pro comes in. "It was developed for businesses that have a small volume of assets to protect, so it's not cost prohibitive for small contractors," Batcheller said. Galeo Pro is a tracking device that can be used on trailers, trucks, mowers, and other compact construction equipment. It uses GPS and a cellular connectivity to track and keep you apprised of your equipment's movement and whereabouts.

The simplicity of the system also makes the Galeo Pro especially suited to small jobsites and crews. It's small, about 5" x 3", and it can be set up for push notifications, an alert when motion is detected. Small though it may be, it's rugged. It is bolted to equipment or installed with Very High Bond (VHB) tape. It operates in extreme temperatures from -40°F to 185°F, in sand,

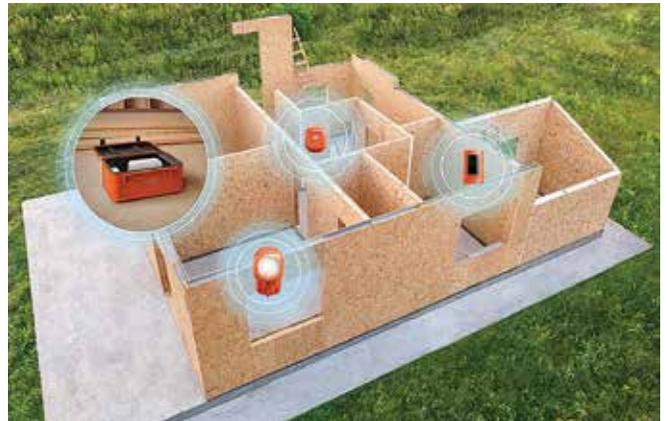
wind, and dust; it's built to withstand desert environments, the frozen North, and everything in between according to Batcheller.

One of the things that makes Galeo Pro different is the battery. "It's optimized for long battery life of 3-5 years. We believe that people don't want to be recharging security equipment all the time," he said.

If you feel that you need more than motion detectors on a few select items, Ring, a home security company founded in 2013, has partnered with Home Depot to produce Ring Jobsite Security, another affordable option. This security system offers cameras, video surveillance, and motion sensing. Ring acts as a hotspot for wi-fi and can be used to run laptops and tablets, too.

When someone tampers with an item, the sensor triggers devices to light up, deterring the intruder, while the Ring App allows you to see what is happening and speak to people on camera in real-time. A handy feature is that all the pieces — the





base station that connects everything to the internet, portable security cameras, spotlights, motion sensors, and the spotlight camera with siren — are light and portable and can be moved from jobsite to jobsite with ease.

“Additionally, Ring Alarm Pro has an internal battery backup as well as cellular backup for alarm signals (with Ring Protect

Pro) so it can continue sending alerts even if it’s unplugged or moved from its original location,” said Mike Harris, COO of Ring. “Ring Jobsite Security is a bundle of Ring devices repurposed for jobsites...it leverages Ring’s existing infrastructure to provide builders peace of mind that so many customers have experienced – for all jobsites, big and small”. **RB**



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Introducing... **PRO TIPS ON**

We 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 bringing 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 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 helps readers to understand the conditions that impact their local county, enabling them to learn what environmental stressors their roof is likely to face. This is a big advantage for everyone. Climate knowledge helps readers understand why it is better to invest in affordable solid construction such as certain metal types and thicknesses in tandem with certain coatings. It makes all the difference in overall happiness about the way the 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 they 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 how to set 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 they 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. **RB**

**Available
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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.



**Available
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- 144 Pages
- Written by industry experts
- Checklist for customers to evaluate their roof needs
- Gallery of beautiful, completed metal roof installations
- Coverage of need-to-know basics, climate factors, myth fact from fiction
- Warranties protections explained
- Beneficial contract inclusions

What Can Visualizer Software Do For You?

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VISUALIZERS SEEM TO BE ALL the rage in the world of construction. Visualizer software provides 3-D renderings based on the choices the user enters. You want a post-frame building 20' long x 15' wide with a 36" x 80" entry door front and center, with a standing seam metal roof, 1:4 pitch? Enter this info, and there is your building on the screen in front of you. Want to add windows? Choose where and the size and style and they will appear on your drawing. This is a lot of fun, but how does it help? After all, builders have been putting up buildings for hundreds of years without the aid of visualizers.

We asked Neil Burkholder of NC Automation this question in relation to his software, Building Creator. His response: "It's a

presentation tool; it helps make the sale."

Burkholder knows about the challenges of making the sale; he has a building supply company as well as a building company. "This tool was developed from the contractor standpoint, for the construction pro who is not very tech savvy. It's easy to use on your laptop, and you can create the building plan and make changes to it live, before the customer's eyes. In fact, you can toggle back and forth between half a dozen designs when making decisions."

Building Creator is also affordable, Burkholder said. It requires a one-time fee that is half to a quarter the price of many other visualizers, so it is a good option for the small contractor who



Shed Pro's Augmented Reality Shed seems to place the building you've designed in its planned environment. www.shedpro.co



The ShedPro team at the Garage, Shed & Carport Builder Show.

does mainly post-frame construction.

James Price, CEO and co-founder of ShedPro thinks that his visualizer, ShedPro's AR Shed, could be a game changer for some builders by helping them compete against big box stores. ShedPro's AR Shed combines 3-D design with augmented reality. Once the shed is designed, it can be projected with a handheld device, like a tablet or a phone. The program even allows the designer or customer to "enter" the virtual reality building and look around. (When he demonstrated it for me, it felt like I had entered a fantasy world.)

"This system allows you to go to the website, design your dream shed, then download it onto an app on your personal device, take it out to your backyard and see what it will look like in its true setting," he explained.

One of the things that Price and ShedPro are focused on is customer service. They have the capabilities to help shed builders create a site of their own, equip it with 3-D visualization, and also provide digital marketing.

IdeaRoom has a visualizer that is part of its online 3-D sales suite; it features clear, sharp images of buildings specified by customers and designers. Jordan Miller, IdeaRoom Vice President of Marketing, agrees with Burkholder and Price that the visualizer, or "configurator" as they call it at IdeaRoom, helps close the deal.

"Before configurators, customers and salespeople had long back-and-forth conversations about their project, but now those conversations can be condensed literally into minutes," Miller said. "It means more sales accomplished more efficiently."

IdeaRoom has assimilated a lot of features into its ShedView configurators that allow consumers to self-educate and self-serve, Miller said. For example, instant price estimates and checkout are included in some models. Quote tracking and integration with your customer relationship management (CRM) system are features that can make a builder's sales and marketing easier also.

Building Information Modeling (BIM) is software that starts



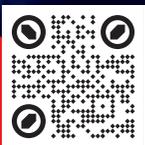
IdeaRoom's configurator allows customers to create their own building and even complete the sale. www.idearoominc.com

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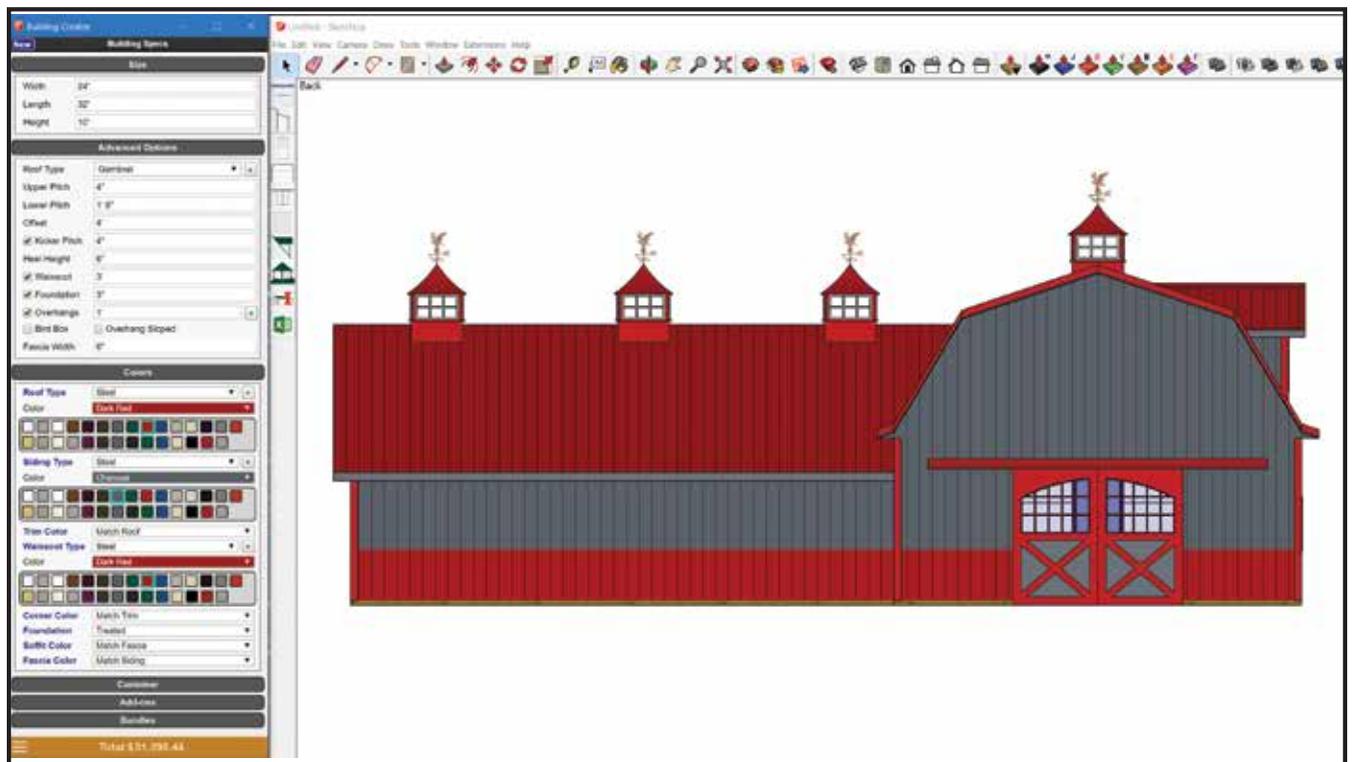
with a visualizer for ease of contractor bidding and adds other functions. Brendon Studholme from SmartBuild Systems demonstrated the software recently. As he entered the specs for a building, the software generated a price, which changed as he made changes to the building design. When he was finished, he could generate a list of materials and labor required. The program can also develop 2-D drawings from the 3-D model.

This price generated is based on the data each company loads into the program, which includes their inventory list (including unit pricing) and the cost of labor. The engineering aspects are also entered, such as span tables for trusses, and package controls in which you can specify rules, such as how many fasteners you use per square foot of roof. All of this means that you can create an accurate estimate and building plan.



SmartBuild's visualizer is just a small part of what this BIM program can do. www.smartbuildsystems.com

Studholme said, "Once people use the system and understand what it can do, they never regret the initial investment. They end up wondering how they did this before ... they had to create 2-D designs, generate a separate list of materials and a list of labor, and keep track of everything." **RB**



NC Automation's Building Creator is an easy-to-use sales tool.

■ CORNERSTONE BUILDING BRANDS ACQUIRING UNION CORRUGATING

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 Building 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, NC, is an industry leader serving residential, commercial, and agricultural roofing and siding markets from 10 manufacturing 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 & 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 qual-

ity 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.

■ ATLAS TO COMPLETE NEW SHINGLE LAMINATING LINE

Atlas Roofing Corporation’s (www.atlasroofing.com) production of a new state-of-the-art shingle laminating line is on track for completion in the fourth quarter of 2021. The new line at the company’s Ardmore, Oklahoma facility, will allow for a significant increase in Atlas’ production of laminate shingles and create efficiencies to increase throughput.

“We are in the first phase of construction on the project. We are constructing the laminator for our HP42™ shingles and working on the electrical components for it,” explains Rick Stevenson, manager of the Ardmore plant. “The second phase will be completing the test runs, which we are on schedule to begin in late October.”

The increased capacity will aid in the expansion of the Pinnacle® Pristine line of Scotguard™ Protector products. According to Stevenson, materials from the new line should hit the market in the first quarter of 2022.

■ TRIANGLE FASTENER GRANTED A PATENT ON BURR BUSTER® SCREWS

Triangle Fastener Corp. (TFC) has been granted a patent on its BURR BUSTER® screws by the US Patent and Trademark Office. The Triangle Fastener Corporation now has patent protection on screws that use the BURR BUSTER® thread and point design like the PANEL-TITE® metal-to-wood self-piercing screws. The design produces exceptional performance:

- The point greatly reduces the amount burrs/chips (swarfs) that are caused when the screw penetrates the steel. These chips can damage the sealing washer and rust on the panel.
- The low-angle thread helps eliminate over-driving and improves the resistance to back-out.

TFC, a member of SFS, has 24 locations servicing the commercial construction markets since 1977 with a full line of high-performance fasteners, sealants, flashings, and tools for constructing building envelopes, plus interior applications including steel framing and sheet metal.

■ GREEN KNIGHT METAL ROOFING MAKES INC.’S 5000

Green Knight® Metal Roofing is ranked number 2268 on Inc. magazine’s recently released annual Inc. 5000 list. The list reflects the nation’s fastest-growing independent small businesses, ranking companies according to the percentage of revenue growth from 2017 to 2020. Green Knight® Metal Roofing’s (www.greenknight.com) ranking comes on the heels of three-year revenue growth of 188 percent.



“Green Knight is thrilled and honored to have made the Inc. 5000 List. This is a testament to our focus on providing an outstanding product and service delivery experience. We thank our customers and our amazing staff for making this possible,” said Joel Kenty, Partner of Green Knight® Metal Roofing.

All told, the companies that appear on Inc.’s 5000 list added more than 610,000 jobs over the past three years.

Complete results of Inc.’s 5000, including company profiles, appear on www.inc.com/inc5000. The site also allows for sorting the listings by industry and region, among other criteria.

■ METAL PANELS, INC. SENDS SURPLUS MATERIALS TO THOSE IN NEED

Since 2016, Metal Panels Inc. (MPI, www.metalpanelsinc.com) has partnered with Cross Catholic Outreach (www.crosscatholic.org) to get surplus materials such as metal panels, fasteners and

accessories into the hands of struggling families impacted by hurricanes and floods in Central America and the Caribbean.

So far, MPI, with the help of industry partners, has shipped 24 truckloads of materials to the needy, and according to MPI founder and president Mitchell Hentkowsky, the need is far greater.

“I believe there are many business owners like me who want to do something for those in need. However, the daunting task of moving materials from your business into countries that most need it, will cause them to decide that it can’t be done.”

That’s where Cross Catholic Outreach comes in. The nonprofit ministry includes dedicated specialists experienced with the ins and outs of international shipping. The charity also has an extensive network of in-country partners around the world

who know local community needs and can distribute donated materials.

Through the coordination of Cross Catholic Outreach, MPI and other manufacturers in the US have a way of offering a helping hand that can be an easy and straightforward process. When MPI has built up enough inventory for a truckload (by volume and weight) they simply contact Cross Catholic Outreach to schedule a pick up. At the set time, the ministry’s flatbed tractor-trailer arrives and is loaded, and the responsibility for coordinating delivery – containers, travel, customs, taxes, and distribution – are transferred to Cross Catholic Outreach. Truckloads leaving Tulsa arrive at the international port of choice, where the loads are containerized, and shipped to destination ports in Central America or the Caribbean.

From humble beginnings in 2001,

Cross Catholic Outreach has grown significantly, and is celebrating a \$3 billion-plus impact on poverty in this anniversary year. Its reach extends from Central and South America through the Caribbean to parts of Africa and Southeast Asia, touching thousands of lives by meeting basic needs for food, safe water, educational opportunities, shelter, and spiritual support.

■ CARRIER TEAMING UP WITH BUILDING TALENT FOUNDATION

Carrier (NYSE: CARR) is partnering with Building Talent Foundation (BTF, www.buildingTF.org) to attract and advance the next generation of HVAC technicians.

Carrier joins BTF’s 20 founding partners as a Scaling Partner, with the goal of striving to support the sustainability of the

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sector's workforce.

"There will be an estimated shortage of 400,000 HVAC technicians over the next decade," said Justin Keppy, President, NA Residential & Light Commercial, Carrier.

"Carrier is on a mission to empower the next generation of HVAC technicians. By joining forces with BTF, we can expand our efforts and impact the lives of people in our communities."

Along with a substantial financial commitment from the Carrier Foundation, Carrier will also be actively involved in BTF's HVAC Industry-Education Skilled Trades Council. The Council brings together leading HVAC skilled trades employers, educators, and HVAC manufacturers to better align future talent development with industry hiring needs and trends.

"Carrier's commitment to supporting and investing in the development of its people extends beyond their workforce, to all those who are yet to discover the vast opportunities in the heating, ventilation, and air conditioning sector," says Branka Minic, CEO of BTF. "Together, we will focus on promoting those opportunities and engaging youth and adult job seekers in exploring careers, skill-building, and meaningful employment."

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KWIKSEAL™ MB™ Better	✓	X	✓	X

ALQUIST AND HABITAT FOR HUMANITY COLLABORATE ON 3D PRINTED HOME

Alquist (www.alquist3d.com), a 3D printed home construction company and Habitat for Humanity Peninsula and Greater Williamsburg are partnering to build a 3D home in Williamsburg, Virginia. This project marks Habitat for Humanity's first 3D printed home on the East Coast, following in the steps of a house build that began in Tempe, Arizona, in the spring of 2021.

This 3D home will be approximately 1,200 sq. ft., with three bedrooms and two full bathrooms. Every new home built by Habitat for Humanity Peninsula and Greater Williamsburg is EarthCraft certified. EarthCraft is a voluntary green building program that serves as a blueprint for healthy, comfortable homes and works to both reduce utility bills and minimize environmental impacts.

"As we continue our mission to build more affordable homes for the communities that need them most, Habitat for Humanity Peninsula and Greater Williamsburg is the perfect partner bringing our shared vision to life," said Zachary

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Mannheimer, Founder and CEO of Alquist. “Using 3D printing allows us to speed up the construction of a home while also lowering building costs, solving two housing challenges at once: the rising price of new homes and the speed at which they’re built.”

Construction of each home built by Habitat for Humanity Peninsula and Greater Williamsburg is a cooperative effort between volunteers, house sponsors, and the home’s buyers. Participating families provide at least 300 hours of work toward building their own and other families’ homes, called sweat equity.

Once completed, this home will be sold to April and her family of two. Although April has worked at a local hotel for almost five years supervising the laundry facilities, her income is still less than 80% of the area median income, which has made it difficult to save enough to become a homeowner.

“Going forward, her monthly mortgage payments will be no more than 30 percent of her income, including her real estate taxes and homeowner’s insurance,” said Janet V. Green, CEO for Habitat for Humanity Peninsula and Greater Williamsburg. “Once the house construction is complete, she will close on her new home with a local attorney and repay her no-interest mortgage to us here at the local Habitat, illustrating Habitat for Humanity’s objective to give families a hand up rather than a hand out.”

Each Alquist home comes equipped with Virginia Tech’s proprietary Raspberry Pi-based monitoring system, which monitors the indoor environment, provides security and emergency management, optimizes energy consumption, and analyzes occupant comfort and space use. Alquist’s future projects include 3D printed homes in rural communities in Arkansas, California, Iowa, North Carolina, North Dakota, Pennsylvania, and others. **RB**





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Making Wise Use of Building Materials

Take It Back, Jack, and Use It Again

IT IS ESTIMATED THAT 600 million tons of construction and demolition (C&D) debris was generated in the United States in 2018, more than twice the amount of municipal waste. Of that 600 million, about 144,000 went into landfills according to the EPA. Large amounts of waste are to be expected from C&D, but is the amount that is simply thrown away necessary?

CUTTING DOWN ON STEEL WASTE

Travis Lane, the General Manager of 3GM Steel, a company that supplies steel coils to metal roofing and building manufacturers, has received feedback from their customer base that they find that some steel waste is inevitable, but not much. Small companies just starting out may have a fair amount, but over time they learn how to manage waste, and they save money for their efforts. In general



they find they have less than one percent waste.

One cause of waste is that the outer wrap on the metal coils they use is exposed to elements and becomes damaged, so they run the wrap off and sell that section of coil as a lower grade metal. This means

that what might have been thrown out as trash is instead sold at a lower price to someone who doesn't require perfection for a project. "There has always been a market for 'blemished' steel, so even before the supply shortages came along, selling secondary steel has been part of their activities."

Steel waste is also avoided through ever advancing technology. Lane said, "For example, trim profiles can have mistakes, but the new slicers bring more accuracy in cutting. The more automated things are, the less human error you have and the less waste is produced."

RECYCLING STEEL

Recycling is, of course, an important part of reducing waste. Lane relates that another way waste is created is in the changing of the rolls on the roll forming machine. There can be variations of widths, but manufacturers have

minimized landfill trash by taking those pieces of coil that are the wrong width and selling them to the scrap yard.

“Steel is the most recyclable material on earth,” Lane said. “Steel’s chemical composition of its core properties (iron and carbon), make it easy to melt and recast without the loss of strength, durability, or quality. Recycled steel goes to a processing plant where it’s separated from other metals and then re-melted and recast for a new purpose. In theory, the steel going up to build your new barndominium in Tennessee could have once been used to build a skyscraper in New York. Steel is favored as a recyclable material because of its strength and longevity of each use—steel products often stay in use for decades.”

QUALITY PRODUCTS = LESS WASTE

Lane’s final word regarding minimizing waste is that if you manufacture/use quality material, the products last a very long time. Metal coils last longer; some even have lifetime guarantees. “The expected lifespan of a metal roof is 40-70 years, compared to 12-20 years for traditional asphalt shingle roofs, which often end up in landfills. Overall, a metal roof can be a significant investment for a homeowner, but it represents a high quality option that also reduces waste associated with home building, since you’re not replacing it as often, and when it is replaced, it is recycled.”

Besides making less trash, you are doing yourself a favor, he said. If you put on a roof, and five years down the road it has problems, you are going to have unhappy customers. Over the long-term, quality materials build up your brand, and if enough people have a good experience it will strengthen the industry overall.

CARDBOARD & OTHER C&D WASTE

Scott Foley, President of Ultimate Construction is another firm recycler. However, he finds that it isn’t really a



simple thing. “You have to have enough containers to sort everything and you need space to store it until you save up enough recyclables to make it worth taking it in.”

Cardboard can be one of the more difficult items to recycle. Foley bales it and puts it in local recycling bins, but there is no return on that. Renting dumpsters can be expensive, according to Foley, but so can labor costs for sorting materials if it’s inconvenient to sort on site. “Vinyl siding is another problem child; nobody will take it,” he said.

Ease or difficulty of recycling varies according to the services offered in

different areas of the country, also. “Oklahoma, for one state, doesn’t recycle,” he said.

Foley, however, is determined not to add to the landfill if it can be helped. “I have grandchildren,” he said. “I don’t want them to have no decent space left on earth. If everyone is just a little more conscious of what they are throwing away, we can improve things.”

One thing Ultimate Construction has going for it is that they build with structural insulated panels (SIPs), which are pre-measured and pre-cut to fit together perfectly on site. “With SIPs you don’t have near the waste you would have on stick-built projects,” he said. (See page 14 for more information about SIPs.)

However, there are still many things that can be recycled, and Foley recycles them. Some items go to Habitat ReStore, and Foley figures that this year alone he has saved \$3,500 on recycling the cut ends of steel sheets. Some big companies make a lot of money on recycling, he says, but with some creativity everyone can save some money. **RB**

To find out what C&D recycling assistance is available in your area, visit <https://cdrecycling.org/directory>. The EPA’s resources website can also be helpful: <https://www.epa.gov/smm/organizations-working-reduce-disposal-construction-and-demolition-cd-materials>.



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BY RURAL BUILDER STAFF



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Elemental Hardwoods has expanded its exotic hardwood flooring line with the addition of Black Mesquite, a hard to source wood species known for its extreme stability, durability, distinctive character and grain patterns. Sourced sustainably from the high desert Chaco region of Northern Argentina and Paraguay, Black Mesquite is now available for adding warm, rustic flavor to home and office flooring applications.

John McGlocklin, owner and founder of Elemental Hardwoods said, “Algarrobo, or Black Mesquite as it is commonly known, is the latest entry into the Elemental product line, a unique collection of exotic hardwoods.”

Dense, with a silky texture, wild grain and character, Black Mesquite possesses a range of lustrous brown and gray-brown colors that will darken some with age. Its extreme stability, rivaling the most stable woods on the planet, makes it not only highly workable, but also a top choice for glue or nail down applications, especially in difficult environments.

www.elementalhardwoods.com

JTS 1 JOINT & TERMINATION SEALANT NOW AVAILABLE IN CLEAR

Mule-Hide Products Co. has added Clear to the color palette for JTS 1 joint and termination sealant, allowing contractors to quickly and easily complete projects that would otherwise require meticulous, time-consuming color matching.

JTS 1 is a 100% solids, moisture-cure urethane joint and termination sealant that is ideal for use in applications where



significant movement or vibration is expected. It adheres to dry and wet surfaces with no sagging or shrinking and minimal odor.

The sealant delivers excellent adhesion to concrete, masonry, EPDM, PVC, wood, vinyl and most other common building materials. TPO membranes must be primed with Mule-Hide Si TPO Primer before application of JTS 1. When it is applied to vertical surfaces, the bead stays in place, rather than oozing out.

Exceptional workability allows quick, easy application. A tack-free time of just 30 minutes further enhances crew efficiency.

JTS 1 has minimal odor, and its volatile organic compound (VOC) content of less than 10 grams per liter makes its use allowable in areas with VOC restrictions.

www.mulehide.com



ROCKLER DRILLING GUIDE

Rockler Woodworking and Hardware has a new jig for installing cabinet knobs and pulls that uses the hardware itself dur-

ing setup, ensuring quick, easy and accurate drilling of mounting holes every time.

Unlike many jigs on the market that rely on measurements, the Rockler JIG IT® Knob and Pull Pro Drilling Guide allows the user to mount the actual drawer pull or knob to the jig to set the adjustable drilling guides, so the spacing is guaranteed to be perfect. Instead of simply marking the locations of the holes with a center punch, the Drilling Guide includes a 3/16” split-point drill bit and hardened steel bushings that let the user skip straight to drilling.

“If you need to install pulls on a bank of drawers or doors, this jig is going to make your life a whole lot easier,” said Dan Wenning, Rockler’s senior director of product development. “Once you set it, you can move from location to location quickly and get repeatable accuracy.”

The Drilling Guide has a fence that registers against an edge of the drawer front or door, plus two vertical legs. One of the legs adjusts side to side to fit pulls with posts spaced up to 7-1/2” from center to center, accommodating a large variety of hardware. The vertical legs and the fence both feature interlocking teeth that allow the adjustable rail to move but keep the fence and legs square to each other for proper alignment.

Interlocking teeth also help perfectly align the adjustable drill guide carriages with each other on the vertical legs after the hardware has been attached and the drill guides have been moved up or down to set the mounting distance from the fence. An adjustable indexing foot with a stop collar can be set on either side of the jig for quicker repeat drilling operations.

The Drilling Guide’s range of adjustment allows hardware to be mounted anywhere from 1” to 8-1/4” from the edge of the drawer front or door in one direction and as much as 6” from the edge in the other direction.

The fence of the Drill Guide includes onboard storage for the included drill bit and hex wrench for adjusting the stop collar.

www.rockler.com **RB**

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Recognition Earned

Building Progress Award Recognizes Individuals' Accomplishments

THE 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 e-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; 715-513-6767).

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





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2022 FRAME BUILDING EXPO PREVIEW

January 18-20, 2022

Gaylord Opryland Resort & Convention Center

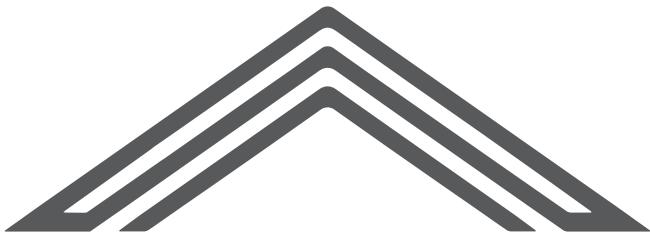
43: Welcome & Keynote

44: Exhibitor Profiles

61: New Products

62: Family Friendly Fun
in Nashville





NFBA NATIONAL FRAME
BUILDING ASSOC.

‘Wingman’ to Deliver Keynote Address

THE 54TH ANNUAL NATIONAL FRAME Building Association Conference & Expo (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.

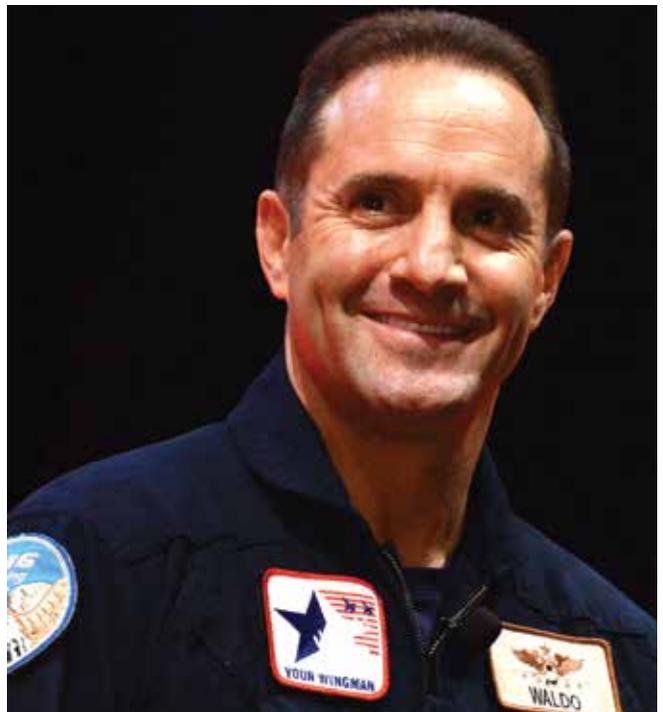
The event’s keynote speaker is decorated fighter pilot, New York Times bestselling author, executive coach, and Hall of Fame Speaker retired Lt. Col Waldo Waldman (www.YourWingman.com). Waldman will deliver the keynote address, “Never Fly Solo!® - Lead with Courage, Build Trusting Partnerships, and Reach 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:

“The Power of Attitude,” presented by Marvin Montgomery;



Retired Lt. Col Waldo Waldman will present the keynote address for the Frame Building Expo at noon on January 18. PHOTO COURTESY

“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! **RB**

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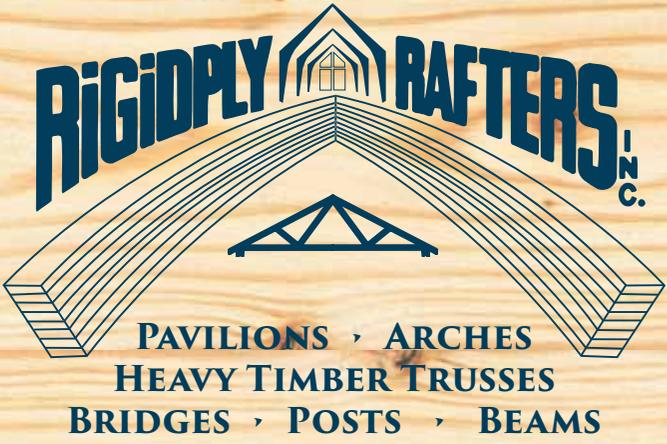
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Borkholder Buildings and Supply has been designing and supplying buildings since 1962. The home office is located in Nappanee, Indiana, and includes the corporate offices, engineering center, full-line lumberyard, custom truss and post manufacturing 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

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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 calendering 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
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

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
989-859-2168
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.

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Patent Pending

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Direct Metals Inc.

Booth 738

1719 Baseline Court
Fort Myers, FL 33905
www.directmetalsinc.com
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.



DRIPSTOP

Booth 551

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

For over 25 years, DRIPSTOP has been

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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.

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

CondenStop for metal roofing panel manufacturers and suppliers, contractors and storage owners who need to protect their roofs, investments and assets from the hazards of naturally occurring 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

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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
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.

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I-Beam Sliding Doors

Booth 702

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

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Levi's Building Components

Booth 633

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877-897-7020

717-656-2558 (fax)

www.levisbuildingcomponents.com

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.

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Marion Manufacturing

Booth 346

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

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.



Maze Nails

Booth 104

100 Church St.
Peru, IL 61354
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
800-562-3576
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.
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Spokane, WA 99217
888-284-6794
info@mscrollform.com

www.mscrollform.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
800-406-7387

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 Drive
Peachtree, GA 30269
www.metalforming-usa.com
770-631-0002

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

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West Fargo, ND 58078
www.midlanddoorsolutions.com
701-277-8836
800-921-7008
701-277-8961 (fax)

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.

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Midwest Perma-Column, Inc.

Booth 528

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www.midwestpermacolumn.com
800-798-5562
309-589-1199 (fax)
info@midwestpermacolumn.com
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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

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™!

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
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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.

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Palram Americas

Booth 710

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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.



Plasti-Sleeve/Homework Design Inc.

Booth 120
 26740 Hwy. 169
 Zimmerman, MN 55398
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.

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2022 NFBA
FRAME BUILDING EXPO
BOOTH #
627

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www.permacolumn.com

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

FRAME BUILDING EXPO EXHIBITORS



PLYCO Corporation

Booth 302

500 Industrial Dr.
Elkhart Lake, WI 53020
800-558-5895

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
570-624-7030
570-624-7031 (fax)
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
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
301-223-2266
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.



RAS Systems, LLC

Booth 132

1135 Dividend Court
Peachtree City, GA 30269
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
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

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.



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

ON TIME AND COMPLETE!

For All Your Metal Roofing and Metal Building Needs Call

1-888-685-7663



WWW.UNIONCORRUGATING.COM



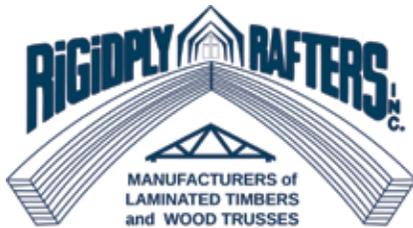
FRAME BUILDING EXPO EXHIBITORS

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

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
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
888-825-3432
719-495-0045 (fax)
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
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

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
888-306-2645
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 Fluoropon®, 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.

Buildings of the Year



FRAMEBUILDING

April 2022





10550 Township Road 262
Millersburg, Oh 44654
Phone 330-674-4003
Fax 330-674-4035
Acu-form@safecommail.com
WWW.ACUFORMEQUIPMENT.COM

- ◆ Ag Panels
- ◆ Ridge Caps
- ◆ Hemmers
- ◆ Slitters
- ◆ Uncollers
- ◆ Corners
- ◆ J Channels
- ◆ Rat Guards
- ◆ Wrappers
- ◆ Slit Lines
- ◆ Rolls and Tables
- ◆ Post Cut Shears
- ◆ We can also match your Profiles



Manufacturer of metal forming equipment, for Commercial and residential construction use,
 Using D2 tool steel as a standard for our tooling.
 Operational choices are: Electric, Hydraulic or Mechanical




2022 NFBA
 FRAME BUILDING EXPO
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732



715-644-0765 — Fax: 715-644-0994

Hixwood Metal is the premier source for all your steel coil, blank flat stock, and slit coil needs.

- Striving every day to meet the most stringent demands of our quality minded coil customers.
- We have over 20 smooth and 15 textured colors available in the ever popular BeckryTech H.D.P.E paint system.





2022 NFBA
 FRAME BUILDING EXPO
 BOOTH #
726



Give us a call for all your coil and building accessory needs!

FRAME BUILDING EXPO EXHIBITORS



ST Fastening Systems

Booth 605

6357 Reynolds Rd.
Tyler, TX 75708
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
770-891-4388
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
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

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.

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**TAKE A
LOOK FOR
YOURSELF!**

www.ruralbuildermagazine.com



*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
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

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. **RB**



■ 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



■ BRADBURY PANTHER CUB III™ BOOTH 645

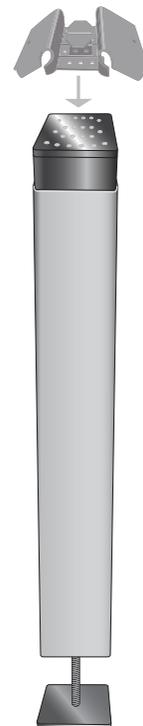
The Bradbury Panther Cub III™ light gauge slit, cut-to-length unit is ideal for trim shop work and lighter roll forming applications. It allows you to slit and shear or slit and recoil. Features include a moving front end allowing operators easy access to slitter knives, a handwheel adjust lead-in, precision 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

■ 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



■ 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



Welcome To Music City...

NASHVILLE

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

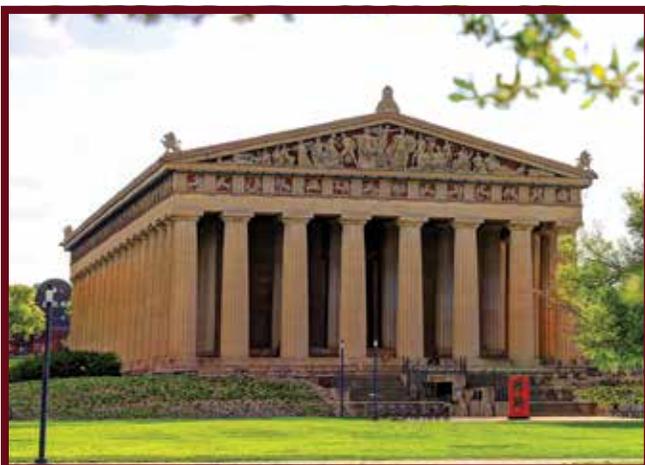
There are some really amazing ways to entertain kids and adults in Nashville...

- 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!)

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.)



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



Enjoy bluegrass performances at The Caverns.

YOUR VOTE COUNTS!

GOLD KEY

of Excellence Awards

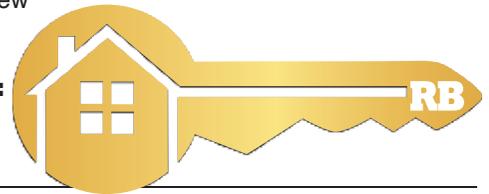


**VOTE
ONLINE**

In July, *Rural Builder* magazine will present its **Gold Key of Excellence Awards** for the 40th time. Help us determine the names of suppliers of building materials and/or construction equipment who do the best job of providing you with all of the services and products you need to run your business successfully. **Take a minute to submit your vote today.** You can select up to three suppliers from the following list or nominate someone new in the spaces provided below.

CRITERIA TO CONSIDER WHEN MAKING YOUR CHOICES INCLUDE:

- Quality of customer service
- Product quality
- Within budget
- On-time delivery
- Warranty procedures
- No surprises



- | | | |
|--|--|--|
| <input type="checkbox"/> A.J. Manufacturing | <input type="checkbox"/> H&H Metals | <input type="checkbox"/> Reed's Metals |
| <input type="checkbox"/> ABC Supply | <input type="checkbox"/> Hershey's the Metal Meister | <input type="checkbox"/> Richland Laminated Columns |
| <input type="checkbox"/> Acu-Form | <input type="checkbox"/> Hixwood Metal | <input type="checkbox"/> RigidPly Rafters |
| <input type="checkbox"/> AkzoNobel Coatings | <input type="checkbox"/> I Beam Sliding Doors | <input type="checkbox"/> Roll Former Corp. |
| <input type="checkbox"/> Arcitell | <input type="checkbox"/> Janus International | <input type="checkbox"/> Royal Crowne Cupolas |
| <input type="checkbox"/> ASC Machine Tools | <input type="checkbox"/> Kevmar | <input type="checkbox"/> S-5! |
| <input type="checkbox"/> Atlas Bolt & Screw | <input type="checkbox"/> Klauer Manufacturing Co. | <input type="checkbox"/> Safe-Way Garage Doors |
| <input type="checkbox"/> Becker Specialty Corporation | <input type="checkbox"/> Leland Industries | <input type="checkbox"/> Sherwin-Williams Coatings |
| <input type="checkbox"/> Beck America (Fasco) | <input type="checkbox"/> Levi's Building Components | <input type="checkbox"/> Sioux Steel |
| <input type="checkbox"/> Bradbury Company | <input type="checkbox"/> Malco Tools | <input type="checkbox"/> Snap-Z |
| <input type="checkbox"/> Building Products Development | <input type="checkbox"/> Marco Industries | <input type="checkbox"/> ST Fastening Systems |
| <input type="checkbox"/> Chief Buildings | <input type="checkbox"/> Marion Manufacturing | <input type="checkbox"/> Starwood Rafters |
| <input type="checkbox"/> Covertch/rFoil | <input type="checkbox"/> Maze Nails | <input type="checkbox"/> Steel Dynamics |
| <input type="checkbox"/> DECRA Roofing Systems | <input type="checkbox"/> McElroy Metal | <input type="checkbox"/> Stockade Buildings |
| <input type="checkbox"/> Direct Metals Inc. (DMI) | <input type="checkbox"/> Menards | <input type="checkbox"/> Sukup Manufacturing |
| <input type="checkbox"/> DripStop | <input type="checkbox"/> Metal Rollforming Systems | <input type="checkbox"/> Swenson Shear |
| <input type="checkbox"/> Dynamic Fastener | <input type="checkbox"/> MFM Building Products | <input type="checkbox"/> Trac-Rite Doors |
| <input type="checkbox"/> East Coast Fasteners | <input type="checkbox"/> Mill Steel | <input type="checkbox"/> Triangle Fastener Corporation |
| <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.

1. Company Name & Location _____
2. Company Name & Location _____
3. Company Name & Location _____

Your name: _____

Company: _____ Location: _____

(Your information will remain confidential.)

**PLEASE
RETURN
YOUR BALLOT
NO LATER THAN
April 1, 2022!**

**Rural
Builder**

• **MAIL TO:** Shield Wall Media, P.O. Box 255, Iola, WI 54945 • **E-mail:** linda@shieldwallmedia.com



Single-Level Residence

Clayton, Indiana



PHOTOS COURTESY OF GRABER POST BUILDINGS, WWW.GRABERPOST.COM

THE DETAILS:

Building: Residence

Size: 36' x 60' x 9', plus 8' post-supported porch

Foundation: Concrete Stemwall

Insulation: Wall: 6" Batt; Attic: R38 Blown-in

Framing: Traditional Stud Framing

Roof Trusses: GPB Custom Manufactured Trusses

Roof & Walls: Graber Post G-Rib Ag Panel, 29 ga., 40-year paint system

Ventilation: Vented Soffit and Vented Ridge Cap/
Marco Industries Vented Closures

Doors: CHI Overhead Doors Therma Tru

Fasteners: ST Fastening Systems ZXL WoodBinder

Windows: Pella 250 Series, double hung, multiple sizes

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



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

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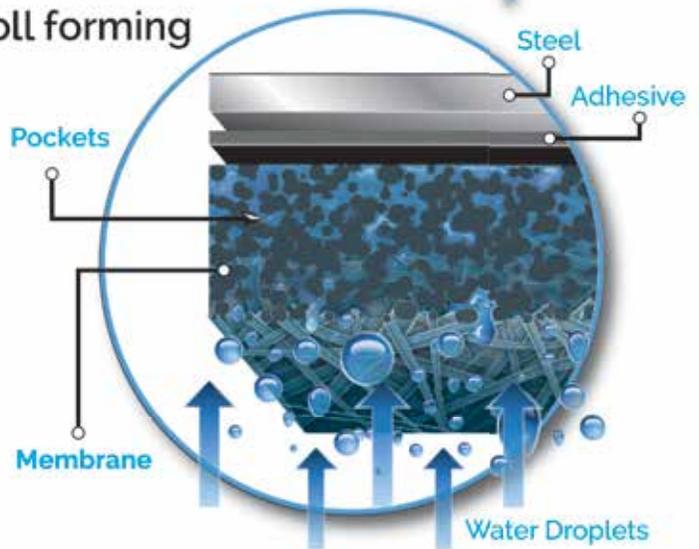
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