

Rural Builder

Serving The Construction Trade Since 1967

**FRAME BUILDING
EXPO 2025:**

**KNOXVILLE PREVIEW,
PRODUCTS & PROFILES**

**MARCH 2025
Vol. 59, Issue 2**

**Structural
Insulated
Panels
(SIPs):
Common
Questions
Builders
Ask**

**DESIGNING
LIVESTOCK
BUILDINGS
FOR ANIMAL HEALTH**

SEE US AT THE FRAME BUILDING EXPO
10-PAGE SHOW PREVIEW INSIDE

AMERILUX
INTERNATIONAL
BOOTH #1407

MWI
COMPONENTS
BOOTH #509

UNITED
STEEL SUPPLY
BOOTH #307

PERMA
COLUMN.
BOOTH #1129

Formwright
BOOTH #515 & #529

POST
protector
BOOTH #421

**BENEFITS OF
TIMBER FRAME
STRUCTURES
AND 5 RELATED CODES
AND STANDARDS**

www.ruralbuildermagazine.com

THE MOST VERSATILE, EASY-TO-USE, AND ACCURATE POST FRAME, GARAGE,
AND DECK ESTIMATING SOLUTION - *IS NOW EVEN BETTER*

CM CONSTRUCTION MAESTRO® ENCORE

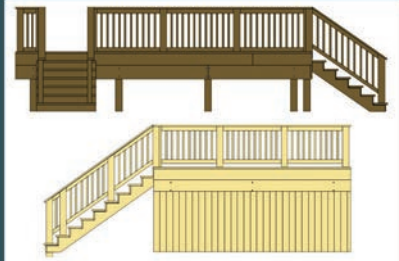
ESTIMATING & DESIGN SOFTWARE



POST FRAME



STUD FRAME



DECK

**INTRODUCING THE ALL NEW CONSTRUCTION
MAESTRO® 6.0 WITH INTERACTIVE 3D MODELING!**

**COMBINE THE POWER AND DETAIL OF CONSTRUCTION MAESTRO®
DESKTOP ESTIMATING SOFTWARE WITH REAL-TIME ONLINE DESIGN!**



symun.com
888-220-6230



**NOW WITH
NEARLY 100
PARTICIPATING
VENDORS**

BY GARY REICHERT

Welcome to the 2025 Frame Building Expo

A long time ago, this was “my” show. I never actually owned it but was responsible for selling booth space and working with the exhibitors along with Kyler Pope. That was a little over a decade ago. Time flies by so fast and everything changes, usually for the better.

Today, I am a paying exhibitor here and somehow ended up owning seven magazines, four trade shows, and most of my day is spent on Excel sheets rather than on the phone.

In life, the one constant is change. In the last year, we added a third show and just announced we are adding the Rural Builder Show for 2026. We launched our first CSI – Annual & Market Report, sharing industry data with all our subscribers. We made our magazines available as audio files and as podcasts, with more new and exciting things coming in the future.

I am not much for sitting in the booth, but please be sure to say hi wherever you find me. Old friends and fresh ideas are the best part of any show, whether you are an exhibitor or the owner. **RB**

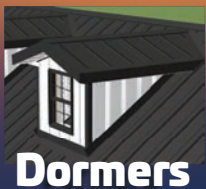


INCREASE YOUR PROFITS IN 2025 ... and beyond!

Revolutionizing Post Frame and Barndominium Bidding

SmartBuild Systems continues to set the standard in post-frame software. This past year, we've added multiple powerful new features to enhance your bidding & design process:

- **Dormers and Lofts** – Add style and versatility to your projects.
- **Interior Walls** – Design detailed interiors with ease.
- **Clear Panel Eave Lights & Skylights** – Bring natural light into your designs.
- **Interactive Door/Window Colors including Woodgrains.**



Dormers

What's Coming in 2025

We're building for the future! Here's a sneak peek at what's on the horizon:

Stairway Design – Automate design and material breakdowns.

Second-Floor Platform Framing – Greater flexibility for multi-level builds.

Many other Barndominium Enhancements – Gutters, Post Wraps, Drawings Improvements & more!

Reach out to Keith at 303-579-6277 www.smartbuildsystems.com

PLUS!

New integration for Blueprints



Come see us in Knoxville!

Clear Panels





42

PHOTO COURTESY OF SIPA

CONTENTS

FEATURES

- 6 MIKE ROWE WORKS FOUNDATION**
Learn, Earn More Freedom, and Grow!
- 10 LIVESTOCK BUILDING DESIGN**
Features That Promote Animal Health and Safety
- 14 REDUCING CONSTRUCTION CALLBACKS**
Steps to Lowering Costs of Rework
- 18 FRAME BUILDING EXPO PREVIEW**
Frame Building Expo Returns to Knoxville in April 2025
- 20 FRAME BUILDING EXPO PRODUCT FEATURE**
A Sneak Peak at Exhibitor Products
- 23 FRAME BUILDING EXPO EXHIBITOR PROFILES**
Check Out These Show Exhibitors
- 30 COMBILIFT DOES THE HEAVY LIFTING**
Allowing You to Focus on Your Business
- 34 CONSTRUCTION EQUIPMENT MANAGEMENT SOFTWARE**
Enhance Efficiency and Cost Savings Digitally
- 36 BENEFITS OF TIMBER FRAME STRUCTURES**
Plus 5 Codes and Standards to Understand When Building With Timber
- 42 Q&A'S ABOUT STRUCTURAL INSULATED PANELS (SIPS)**
Common Questions Builders Ask
- 60 FLASHBACK**
Big, Medium, and Small — From Equine Centers to Run-in Sheds
- 64 PROJECT OF THE MONTH**
Post-Frame Barn Hobby Shop

DEPARTMENTS

Publisher's Letter	3
Business Connections.....	50
New Products.....	53
Industry News	57
Construction Survey Insights..	66



**GO TO PAGE 55 TO
SUBSCRIBE
TO MORE
FREE MAGAZINES**

FOLLOW US AT:

ruralbuildermagazine.com



CONTACT THE EDITOR AT:

dan@shieldwallmedia.com



INDEX OF ADVERTISERS

Company	Page #
AceClamp	63
Acu-Form	23, 50, 64
American Garage Door Factory	33
AmeriLux International	CVR
ASC Machine Tools Inc.	23, 40, 51
ASCO Machines USA.....	52
Atlas Building Products	23
Aztec Washer Company.....	51, 63
Chief Buildings	49
Cold Spring Enterprises	51
CombiLift	31
Construction Maestro/Symun Systems, Inc... IFC,	23
Direct Metals Inc.....	50
Dripstop™	23
Dynamic Fastener	BC
E-Impact Marketing LLC.....	23, 37
Energy Panel Structures.....	24
Englert Inc.	41
Everlast Roofing, Inc.	15, 24, 50
Extrutech Plastics, Inc.	24, 58
FootingPad	24, 57
Formwright.....	CVR, 24, 52
Golden Rule Fasteners.....	50
Graber Post Buildings, Inc.....	25, 38
Hixwood.....	25, 47, 58
I Beam Sliding Doors	25, 39
Kevmar Manufacturing.....	52
Marion Manufacturing.....	25, 51
Maze Nails.....	13, 25
Metal Rollforming Systems	26, 43
Midwest Machinery & Automation	9
MWI Components	CVR, 7, 26
Perma-Column LLC.....	CVR, 21, 26, 50
Pine Hill Trailers.....	50
Planet Saver Industries / GreenPost	51
Plasti-Sleeve	26
Plyco Corporation	26
Post Protector	CVR, 11, 26
Progressive Metals	27
Red Dot Products, LLC	51
rFOIL Reflective Insulation	27, 35, 52
Richland Laminated Columns LLC.....	27
Rigidply Rafters	27
Roll Former LLC	57
Roper Whitney.....	49
Samco Machinery.....	52
Schweiss Doors	52
SFS Group USA, Inc.	28
Shed Windows and More	19
SmartBuild Systems	3, 28
SpeedLap LLC.....	51
Stan Group dba: Liberty Seamless	50
Starwood Rafters.....	54
SteelGrip SAMM, Inc.....	51
Stockade Buildings	52
Storage Xpress Corp.....	52
SWI Machinery	28, 29
Trac-Rite Door	28, 45
United Steel Supply.....	CVR, 28, 50
Ventco by Lakeside	28, 53
Wick Buildings	17

ON THE COVER:

Schembre Barn

Photo by Jana Bannan,
courtesy of B&D Builders.

Rural Builder®

Managing Editor

Dan Brownell
dan@shieldwallmedia.com
920-264-0787

Editorial Staff

Karen Knapstein, Linda Schmid

Circulation/Subscriptions

Barb Prill
barb@shieldwallmedia.com
920-471-4846

Publisher/CEO

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

Director of Sales

David Beckler
dave@shieldwallmedia.com
469-766-8842

Director of Events

Missy Beyer
missy@shieldwallmedia.com
920-216-3007

Executive/Advertising Assistant

Kathy Budsberg
kathy@shieldwallmedia.com

Advertising/Show Assistant

Cari Ullom
cari@shieldwallmedia.com

Graphic Designers

Tom Nelsen
Kevin Ulrich

Social Media Manager/Graphic Designer

Aaron Plautz

Rural Builder (ISSN: 0888-3025) (Volume 59, Issue 2) is published ten times per year (February, March, May, June, July, August, September, Annual, October and December) by Shield Wall Media LLC, 150 Depot St., Iola, WI 54945. Periodical postage paid at Iola, WI, and at additional mailing offices. Canadian Agreement Number: 40665675. POSTMASTER: Send address changes to Rural Builder, Barb Prill, PO BOX 255, Iola, WI 54945. Copyright 2024 Shield Wall Media LLC. Rural Builder and its logo are registered trademarks. Other names and logos referred to or displayed in editorial or advertising content may be trademarked or copyright. Rural Builder assumes no responsibility for unsolicited materials sent to it. Publisher and advertisers are not liable for typographical errors that may appear in prices or descriptions in advertisements. Mailed free to rural contractors and their suppliers throughout North America. Others may subscribe: \$29.98 for 1 year, \$55.98 for 2 years, and \$79.98 for 3 years in the U.S.; \$39.98 for 1 year, \$74.98 for 2 years in Canada.

YOUR PRIVACY IS IMPORTANT TO US

Unrelated third parties often attempt to sell mailing lists for what they say are our publications. You can be assured that **WE DO NOT, HAVE NOT, AND WILL NOT EVER SELL OUR SUBSCRIBER LISTS.** We will also NOT sell the attendee or exhibitor lists from our shows. We do provide attendee lists to the exhibitors free of charge and as a courtesy for their support, but we NEVER provide this or any other information to independent vendors.

Gary Reichert,

Publisher, Shield Wall Media



WORK ETHIC CERTIFIED

"If you do the jobs no one else wants to..."

You will learn, and earn more freedom and chances to grow!"

BY LINDA SCHMID

Jacob Kern wanted to be an artist. He enjoyed it throughout elementary and into high school. Kern had a visual challenge with one eye not tracking properly, so he struggled in many classes until therapy made it possible for him to read.

Art didn't rely on his eye tracking perfectly. He contemplated making a career in art, but everyone counseled him that he would be unable to support a family if he pursued art.

Kern decided to pursue engineering, but he found that he struggled with chemistry and math. He realized that if he was determined he could do it, but it would be an uphill battle to pursue something that didn't come naturally. He thought that there must be something that was a better fit for him.

Kern then considered business as a viable path. He had enjoyed the idea of it as a child, painting rocks and trying to sell them in the neighborhood. Then he launched businesses offering pond cleaning and lawn mowing.

He enjoyed business class in college. However, when he left college, he found himself working in dead-end jobs. He felt he didn't have the skills to build a career, at least nothing he could rely on.

One day he was at an auto shop and, while he waited, another

customer started talking to him about his career in welding. He told him there was a lot of money to be made, and that there were so many opportunities because no one wanted to do it.

PURSUING A JOB NOBODY WANTS

Enthusiastically, Kern applied for a welding job at a semi-trailer plant in central Pennsylvania. However, a welding test was part of the application process. He failed miserably and realized that if he wanted to pursue this track, he would have to go back to school. He looked around for the best program in the area and enrolled at Triangle Tech, working for a Specialized Welding Technology degree.

Kern learned to weld, along with a gold mine of tips and tricks and ways to make life easier in a welding career. If the instructors saw that students were truly motivated, they were great mentors and Kern made the most of his time with them.

Students were encouraged to apply for scholarships, and the mikeroweWORKS Foundation Scholarship was recommended. Kern couldn't understand why he was the only one in the

program who applied for the scholarship.

"It wasn't a grueling process, and I looked at the S.W.E.A.T. pledge and thought, *Yes, I can agree to this*," Kern 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. Over 2,000 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."



HORSE STALLS & HARDWARE

MWI's Horse Stalls and Hardware prioritize durability, safety, and functionality for equestrian facilities. Made from premium materials, they provide comfort and security for horses. With customizable features like **stall fronts**, **bale doors**, **grills**, and **sliding doors**, MWI enhances convenience and efficiency. Suitable for both private barns and commercial stables, their innovative designs ensure a safe environment for horses to thrive.

Contact us today to learn more!

800-360-6467
mwicomponents.com
Spencer, Iowa



His motivated, go-for-it attitude paid off; he was awarded a Work Ethic scholarship. At the time, he was the sole provider for the household. He was working at a gas station and not making ends meet, so he went to the Great Dane transportation company and negotiated himself into a part-time welding job. He was the only one in his class who got real work experience while in school, but it was hard. He was working the night shift building trailer frames, going to school at the same time, and not getting much sleep. The scholarship money helped immensely as he paid off some of his debts.

EXPANDING SKILLS

Upon completion of his degree, Kern found that there was not much opportunity in the area, but he saw that Washington state had a lot of opportunities. He applied at six places and was offered a job at each company.

The job he chose worked out well. Kern believes that the company was surprised that he actually made a cross-country move to take the job, but he had the opportunity to weld structural assemblies and work on various other projects. It was a great chance to expand his welding skills.

Then COVID-19 hit and suddenly there was no work. Kern was becoming depressed, but then he remembered that a fellow church member had started a railing business. He contacted him and went to work for him.

Railings and gates are everywhere, and many welders make their bread and butter off of them according to Kern.

His boss took Kern under his wing and taught him so much, and he quickly became shop manager, learning pricing and project management.

The boss moved his company to Arkansas and Kern had to evaluate what he really wanted. He decided he wanted to move back to Colorado, his home state, to spend time with family.

Kern found work at a custom fabricating shop outside Denver, and he found himself working on everything from automotive to railings to ornamental projects. It took creativity and really broadened and pushed his skills to the utmost. There were a lot of failures, picking himself up, and trying again.

As Kern found working for someone else less and less satisfying, he began a welding side business with his wife helping with customer relations, marketing, scheduling, and contracts. Alex has a paralegal background. When their son, Finn, was born in June, 2023, he went to work on his own business full time.

The company is called Madsen Made Welding & Fabrication. Running his own business is not easy Jacob said; on a bad day he asks himself if he really wants to continue. But the answer always comes back to YES, because he thinks that it's the best thing he's ever done. He loves being able to help people using skills he enjoys.

CAREER ADVICE

Looking back at his younger self, Kern said he had an idea in his head about what success looked like, and it definitely involved going to college and getting a white collar job. Now he thinks that

there are definitely other ways to be successful and that he would have been better off working for a while before he went off to school.

"I'm not knocking school; I am working toward a business degree now," Kern said. "but school means more if you are working toward something you really want."

At this more mature stage of life, Kern knows who he is and what he wants, and he is now able to bring together some of his passions into a career. Welding is creative, as is marketing for his business. He always enjoyed the idea of owning his own business, and he has worked very hard to get what he wanted, but it is paying off.

Kern's advice to other young people starting out is to get an apprenticeship or enroll in a trade school if you are not sold on any particular path at a 4-year college.

"Just try it out. Some people knock it, but you can learn a lot," Kern said. "Adopt

the mindset that you are going to learn from every experience and every experienced person who offers you advice or whose criticism doesn't feel constructive; you may still learn something from them.

"If you do one of the jobs no one else wants to do," he added, "and get good at it, you will grow, you will have more freedom and more opportunities to grow and prosper." **RB**



Jacob Kern with his son, Finnley

Correction:

In the February mikeroweWorks Foundation Scholarship column, the wrong photos were inadvertently included. The article was about Aaron Patti, but featured photos of Jake Kern, our current scholarship recipient. We apologize for the error.

Finger Joint Router and Stacker



- 200-300 BFPM
- Automatic finger notcher
- End cut saw
- Cart loading stacker
- Quick-adjust stacker
- 6' to 20' boards
- 2"x6" and 2"x8" boards



Wooden Column Nailing Machines

- 3-ply and 4-ply
- 12' to 40' columns
- 2"x6" and 2"x8" boards
- Adjustable nail spacing
- 3.25" & 4" nail compatible
- Automatic stacker
- Assembly table
- Compatible with planers.



DISTRIBUTED BY:



888.577.3886



Livestock Building Design

Features That Promote Animal Health and Safety

All our livestock, although bred to be domesticated, are descended from animals adapted to live in the wild. As such, they are tough and arguably do best in conditions that are more like those of their forebears.

For reasons of convenience or increased production, these livestock may be housed in buildings for shorter or longer periods or for most of their lives. When this is done, however, it is important to make sure that the structures promote their health and well-being. And the best way to do that is to design and construct them to tick all the boxes of fresh air, sunshine, soft earth underfoot, and cleanliness. In short, as close to their native environment as can reasonably be accomplished.

When asked what key features of his buildings help keep his cows and pigs healthy and injury-free, my friend in Shawano County, Wisconsin, replied, “No sharp edges. Nothing sticking out to poke them. A layout that they flow smoothly through that limits them getting ‘stuck’ physically and mentally.” He added, “From a health standpoint, ventilation is key. Better to be cold

and dry than warm and damp.” There is much to be learned from this simple answer and a lot of ways to accomplish those key items depending on the type of livestock and scale of operation.

BETTER COLD AND DRY THAN WARM AND DAMP

Sunshine and fresh air ventilation are the ideal natural conditions to mimic in a building. A combination of lighting, translucent roofing, and adequate ventilation is the way to go. Essentially, promote health by reducing the three key components of disease: the host, the pathogens, and environments in which pathogens thrive.

Since the livestock (the host) is necessary, and it may not be possible to completely prevent the presence of the pathogen (although ensuring good hygiene will be a major factor in prevention), the best option for disease control is to design an environment that is bad for the pathogen but good for the animals.

Whether an active or passive ventilation system is used, more ventilation is usually better. Curtains, roof vents, or fans and buildings with open ends can all be designed to fit ventilation needs. The general rule for dairy buildings and similar structures is to have air replacement every 15 minutes in winter and every minute in summer. That is a lot of air and a lot of variability to manage seasonally, but a well-designed ventilation system will pay dividends in the animals’ health and longevity.

(ABOVE) This modern livestock building features abundant natural lighting, large fans, adequately spaced stanchions, and raised stall platforms. Manure can be washed from the stalls to collect in the center aisle and then moved to a manure collection tank. The aisle also has grooves to improve traction to reduce animal injuries.

Akin to ventilation is drainage. It is best to keep floors dry as possible to reduce livestock from slipping and to keep their hooves healthy. Since times when water is used for cleaning and when water seeps through doors or vents, an efficient way to move water out of the building is needed. The ideal setup is a system of trench drains (basically gutters in the floor) with strong grates covering them that can't trap livestock hooves. The drainage system needs to be adequate and easily cleaned, as it will routinely get bedding, manure, and dirt in it.

HYGIENE FEATURES THAT REDUCE DISEASE AND PARASITES

A livestock building should also include efficient designs for handling bedding and manure. It isn't healthy to have animals standing or laying in their own excrement. This, of course, creates a challenge because the animals may spend quite a bit of time in the building, but no one likes shoveling manure.

One way to handle manure is to flush it away with a slotted floor and a collection basin beneath the building. This is water intensive but can be very effective. The cleanest looking dairy I

have ever seen had a flushing system like this in which manure was routinely washed down through the slotted floor. That operation used sand bedding that was cleaned and recycled to be used again. Sand may not sound like a great bedding option, but it is quite hygienic for animals and can be recycled.


Other labor-saving options for manure and bedding removal are automated manure scrapers that can be mounted in alleys or covered gutters in the building. These allow the use of organic bedding such as straw or wood shavings, but simultaneously keep parts of the floor clean and clear for better traction. Organic bedding creates a challenge for sourcing materials but is often good for the soil that it's added to. For example, sawdust has been shown to reduce the number of flies. Some operations recycle organic bedding using a heat treatment process to deactivate pathogens and parasites. This can be energy intensive but, in the case of a large operation I observed, can be done using the methane produced with an onsite anaerobic manure digester. Whichever bedding system and manure management system is used will be of great benefit to healthy animals for everything from hooves to fly control.



POSTTM protector
1-877-WONT ROT

NEW CONSTRUCTION:
NO GROUND CONTACT OR
EXPOSURE TO THE ENVIRONMENT

Post Protector Skirt-Board Protector

POSTTM proservative
1-877-WONT ROT

EXISTING STRUCTURE:
NO POST PROTECTOR?
"RE-TREAT" IN-SERVICE POSTS

KEEPING ANIMALS FROM GETTING “STUCK” PHYSICALLY AND MENTALLY

A livestock building should allow animals to move freely and be able to turn around in most places. It may be desirable to have partitions and stalls. When they're used, they should be smooth, easy to clean, and corrosion resistant. The structure should include enough space in the stalls that the animals don't feel crowded (20-35 square feet per cow, 8+ square feet per pig, or 3 square feet per chicken). This allows enough room for the animals to stand up, lie down, move about, and groom themselves.

Depending on the operation, buildings may be designed so the animals can come and go from the building with ease at least some of the time. If there is consistent access to the outdoors, a slightly smaller building can be used.

In some places it's best that animals can't turn around. At some point, livestock need to be restrained and examined or treated. This typically requires some type of head gate and chute. Equipment like this allows someone to monitor livestock health, from caring for their hooves and administering injections to checking pregnancy.

The chute should be sized so the animal can't turn around or back up. Ideally, the animals will not be able to see out the sides of the gate, only forward at the animal in front of them or to the head gate or slightly beyond it into an open area. They will



This livestock building has excellent natural lighting, adequate space for the cows to move freely, and slatted floors that are easier to keep clean than solid concrete floors.

naturally want to move forward, especially when they can see an opening. The restricted vision to the sides will decrease distractions from people and other animals. The limited vision keeps animals calm which helps prevent injury to themselves and other livestock.

The floor in a livestock building is a health feature too. In addition to being part of manure and bedding handling, the floor material can aid in an animal's comfort and lifespan. Just as it's hard for humans to stand on a concrete floor all day, it can be hard on animals too. I remember the difference I encountered in college sports with player endurance and injuries when they finally got access to better practice fields instead of the highly compacted overused community fields. Everyone on the team performed better.

Rubber coatings, rubber flooring, or mats can go a long way to reduce fatigue and in key areas improve traction to prevent animals from falling. Some dairy research has shown that rubber flooring not only reduces cows slipping but also allows them to have a more natural and efficient gait (more like walking in a pasture) compared to concrete. In addition, rubber flooring has been shown to reduce the amount of bedding needed compared to concrete (especially if it's organic bedding). It's also easy to keep clean.

There are many small things that add up to a good outcome for animal health in buildings. Paying attention to those details in the design and build phase will help keep livestock healthy and lead to a happy customer in the long term. **RB**

Jacob Prater is a soil scientist and associate professor in Wisconsin. His passion is natural resource management along with the wise and effective use of those resources to improve human life.



A slotted grate floor allows animal waste to drop through immediately, giving the livestock a clean place to stand or lie. It also allows easier and faster rinsing than a solid floor and allows the waste beneath the grate to be washed away to a manure collection tank.



NAIL IT RIGHT EVERY TIME



Maze Premium Post Frame Nails



**Gold Key
of Excellence
Award Winner**



RUBBER WASHER NAILS



HARDENED POST & FRAMING NAILS



STORMGUARD® POST & FRAMING NAILS



STORMGUARD® JOIST HANGER NAILS



1.800.435.5949 | mazenails.com

BY DAN BROWNELL

Best Practices for Reducing Construction Callbacks

Steps to Lowering Costs of Rework

“Measure twice, cut once” is one of the most well-known sayings in construction. Even though it’s a basic, obvious truth, it’s easy to be careless and ignore it. Repeatedly making that mistake can be expensive and cut deeply into profits. In the end, it’s not the revenue that’s brought in that matters, it’s how much of that revenue is retained long-term. A high-profit project can turn into a low-profit job or even a loss because of a few key mistakes. As labor and building materials continue to skyrocket, it doesn’t take much to lead to a repair cost of thousands or tens of thousands of dollars. But there are steps that builders can take to reduce callbacks.

TRACKING CALLBACKS

To reduce callbacks, builders need to accurately track and analyze them with a documentation system. Mistakes that involve time or materials to fix should be noted. Not having a good system in place can lead to a significant underestimation of how losses are adding up. Having a thorough documentation system in place allows project managers to note patterns, such as problems with particular workers or processes, lack of coordination between trades, etc. Getting a big picture overview is important because it’s more cost-effective to find and fix trends than random errors.

Some costs may be more intangible, such as damage to the company’s reputation, which could result in missing out on future jobs. Reputation is everything and customer feedback is king. Potential clients rely more on positive reviews, word of mouth, and testimonials than a company’s own marketing verbiage. It’s not what a company says about itself that matters most. It’s what customers say about the company. Human nature being what it is, people believe and pay more attention to negative than positive feedback. One bad comment can undermine many good reviews. But that also means that a company that guards its reputation carefully has a big advantage over those that don’t.

CHOICE OF CONSTRUCTION MATERIALS

Use quality materials. Saving a little money up front on inferior products may cost a lot more in time and labor in rework. Repair work actually has triple cost because not only is the labor being paid for twice, but there’s also an opportunity-cost in terms of the work not being done elsewhere.

MATERIAL TRANSPORTATION AND STORAGE

Damage to expensive building materials can occur through



B&D Builders uses offsite construction methods to reduce construction callbacks. In controlled factory settings, timber framing components are fabricated to exact specifications, mitigating the impact of weather and on-site variability. Because skilled workers use specialized equipment and repetitive processes, human error is reduced, and any issues are identified early during advanced testing and inspection. This combination of enhanced quality control, modular design, and precise assembly helps prevent the defects, delays, and additional costs that arise from callbacks in traditional, on-site construction. PHOTO BY JANA BANNAN, COURTESY OF B&D BUILDERS.

careless handling and storage because of breakage or exposure to the elements.

EMPLOYEES

To succeed in the construction business, companies need to hire and retain qualified, reliable workers who pay attention to detail. Getting and keeping good employees is a major challenge in a tight labor market, but with all that’s at stake, it pays to think long-term and offer the best pay, benefits, and career development opportunities possible. One way to incentivize employees to produce quality work is to create a performance pay program in which employees can earn bonuses but can also have those bonuses reduced by the number of hours required to fix their work. This creates direct accountability for each employee’s work.

COMPANY CULTURE

Developing a company culture that emphasizes quality rather

QUARTZ FINISH



EVERLAST II®



EVERDRAIN®



COIL



26 GAUGE GRADE 50



AZM® 125
WITH ACTIVATE TECHNOLOGY

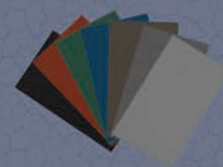


COILS AVAILABLE:

41.2"

20"

13.5" (1,000 L.F. only)



COLOR OPTIONS

The Quartz finish offers a range of colors, from sophisticated neutrals to bold, vibrant hues, making it ideal for any roofing or siding project.

than speed is a good long-term business strategy. Navy SEALs are famous for their saying, “Slow is smooth, smooth is fast.” Careful, deliberate work at a steady pace will typically be completed better and faster than rushed, sloppy work because less rework needs to be done.

TRAINING

Emphasize training. It’s worth the investment of time. This can be done through both formal training sessions and brief opportunities in onsite mentoring. Take advantage of online training. Some manufacturers offer free training and/or certification programs.

Look for employees who have good people skills and are willing and able to mentor. Taking 10 minutes to teach a worker a better or more efficient way to accomplish a task can save far more time over a period of weeks, months, and years. Better yet is to teach several workers that skill at the same time. Encourage mentors to develop other mentors who can pass on their experience and knowledge.

SUPERVISION

Enforcing safety on the job site may seem like a nuisance, but taking it seriously has many benefits. First, it prevents worker injuries and lost time. Second, it reduces the risk of OSHA fines. Third, constant reinforcement of safety rules can help ingrain the idea of the importance of adhering to policies. That carries over to an emphasis on quality in building processes.

“You get what you inspect, not what you expect.” That popular adage sums up why consistent supervision is needed. If employ-



To reduce construction callbacks, New Energy Works recommends that builders rely on clear communication, site visits, full inspections, quality-control practices, post-construction follow-up, and creating a positive work culture. PHOTO BY DON COCHRAN PHOTOGRAPHY, COURTESY OF NEW ENERGY WORKS.

ees get the impression that quality doesn’t matter, then their work will show that. Detailed checklists are vital to ensuring that work is complete and meets code. Just as pilots use checklists to prevent important steps from being overlooked, they provide an essential double check for the project managers.

PROJECT MANAGEMENT

Good project management involves effective and efficient planning, scheduling, coordination, and documentation. In recent years, digital project management software has been developed to make this process far more efficient. Compared to paper and pencil tracking, these programs allow instant updates for all stakeholders whether they’re in the office, on the road, or in the office.

COMMUNICATION

Project management software greatly simplifies and improves the task of keeping all levels of workers and managers on the

Tips from the Field

New Energy Works

Luke Nagle, construction manager at New Energy Works (newenergy-works.com), timber frame, general contract, and off-site construction, offered the following tips:

- 1** Clearly communicate expectations with client and team. This can be done via drawings, 3D models, site meetings, mockups, etc.
- 2** Conduct manager/designer/client site visits, especially an acceptance walkthrough.
- 3** Have the site supervisor and relationship owner do a complete and full inspection of the entire project, check all functionality, etc.
- 4** Develop quality assurance and quality control and commissioning plans, documents, details, and get subs on board early with them.
- 5** Plan to go back to the site 30 to 60 days later. Things often need adjustments after move-in. Doors get swung; cabinets get opened. It’s the nature of the beast. This is also a great client relationship builder.
- 6** DO NOT create an atmosphere where employees/subs are afraid to make mistakes.... It leads to coverups of shoddy or incorrect work. No one is perfect.
- 7** DO create an atmosphere that celebrates quality and excellence in workmanship in all trades. Respect is critical to teamwork.

B&D Builders

Daniel Glick, co-founder and co-owner of B&D Builders (banddbuilders.com), a construction company that uses offsite construction methods, explained the benefits of using standardized factory methods to produce building components:

“The most consistent way we reduce construction callbacks is through offsite construction. Especially when using timber framing, we can leverage factory precision, streamlined assembly, and rigorous quality checks. In controlled factory settings, timber framing components are fabricated to exact specifications, mitigating the impact of weather and on-site variability. Standardized modules ensure that pieces fit together seamlessly once delivered, minimizing errors and rework. Because skilled workers use specialized equipment and repetitive processes, human error is reduced, and any issues are identified early during advanced testing and inspection. This combination of enhanced quality control, modular design, and precise assembly helps prevent the defects, delays, and additional costs that arise from callbacks in traditional, on-site construction.”

same page. However, personal communication is also essential to ensuring a smooth workflow. It's critical to communicate information and expectations clearly and often. Repetition is important because not everyone may be present for all communication all the time. And it can be easy to miss or forget important details. That's one good reason to pass communication in multiple forms — oral, print, email, text, etc. Using multiple formats can help ensure that critical information isn't missed. Also, having information documented will help reduce the chance of misinterpretation or disputes about the details of what was communicated.

WALKTHROUGHS WITH CLIENT

After the project is complete, doing a thorough walkthrough with the client, carefully listening and documenting concerns for follow-up is essential to maintaining the customer's trust and earning positive feedback and testimonials. If the client notes that the manager is taking the review seriously and not treating it as a rushed formality, that can help set a positive climate for any callback work that needs to be done. This is a time to reinforce in the client's mind that the client and builder have a cooperative relationship, not an adversarial one.

Maintaining a positive relationship with the client can have other benefits as well. If the client decides on remodeling work or for additional features to be added in the future, a positive experience can help lead to landing that additional work. Also, a happy client is likely to recommend the company to others.

POST-PROJECT REVIEWS

Post-project team reviews can be helpful in creating a process of continuous improvement by identifying problem areas, developing solutions, and making a plan to implement them in future projects to ensure the problems aren't repeated.

CONCLUSION

Implementing good management and

work practices can help reduce the number of construction callbacks and associated financial costs. Efficient practices can also help boost a company's reputation and lead to more opportunities for con-

tracts. Developing and honing these processes can take significant time and effort but should pay off in increased success and profits. **RB**



QUALITY, VALUE & SERVICE

Your customer expects the best from you.
You should expect the same from your building partner.
Join our team!

WICKBUILDINGS.COM 800-356-9682



POST-FRAME IN TENNESSEE

Frame Building Expo Returns To Knoxville in April 2025

The Frame Building Expo returns to the Knoxville Convention Center [701 Henley Street, Knoxville, TN 37902] from April 2-4, 2025. The event, sponsored by the National Frame Building Association, features an exhibition hall filled with more than 150 exhibitors, as well as informational seminars and special programs specifically for the post-frame construction industry.

Expo Hours

On-site registration will be open from 4-7 p.m. Tuesday, April 1; from 6:30 a.m.-5 p.m. Wednesday, April 2; from 7 a.m.-5 p.m. Thursday, April 3; and from 8-10:30 a.m. Friday, April 4. So attendees can select the options that best suit their needs, educational tracks, which are offered from Wednesday through Friday, are divided into three categories: Business Management, Sales & Marketing, and Technical & Safety. In addition to the educational programming, the aforementioned Expo floor will also be open Wednesday through Friday. Expo floor hours on Wednesday are 1-5 p.m.; Thursday from 12-4:30 p.m.; and Friday from 8:30 a.m.-12:30 p.m.

Attendee Registration Details

Pre-show registration for NFBA members is \$100 for full conference access and \$250 for non-members. On-site registration will be \$120 for members and \$290 for non-members.

If builders are attending the conference for only one day, the registration cost for the conference is \$65 for members and \$150 for non-members.

Builders can enjoy free admission to walk the Expo floor. Free admission is limited to builders and only admits attendees to the Expo floor.

The registration rate for non-exhibiting supplier members is \$420. Registration for non-member, non-exhibiting suppliers is \$930.

Getting There

Courtesy of guidance from the NFBA, visitors traveling Eastbound on I-40 should take Exit 388 onto 441 South (Henley Street) to downtown Knoxville. The Convention Center is on the right at the corner of Henley Street and Clinch Avenue.

If traveling Westbound on I-40, take Exit 387. Turn right onto Western Avenue. At the third traffic light turn right onto Henley Street. The Convention Center is on the right at the corner of



The Expo floor at Frame Building Expo, scheduled for April 2-4, 2025 in Knoxville, Tennessee, will feature many supplies and solutions for post-frame builders. PHOTOS BY SHIELD WALL MEDIA.



Henley Street and Clinch Avenue.

If traveling to the convention center by way of Southbound I-275, at the I-275/I-40 interchange, bear right onto 441 South (Henley Street/downtown Knoxville). The Convention Center is on the right at the corner of Henley Street and Clinch Avenue.

Those traveling Northbound on U.S. Highway 129 (from McGhee Tyson Airport), take 129 North. Take ramp to I-40 East (Asheville), stay in the right lane to Exit 388 onto 441 South (Henley Street) into downtown Knoxville. The Convention Center is on the right at the corner of Henley Street and Clinch Avenue

Need More Help?

Anyone with questions or looking for more information can contact the NFBA's Sherry Freier at sfreier@nfba.org or 800-557-6957. See you in Knoxville in April! **RB**



HOME DESIGN EXTRAS

 **Shed Windows and More®**
www.shedwindowsandmore.com | (843) 399-1820

**Experience the Beauty of Clarity
From Your Own Home**

Residential Windows ~ New Construction Windows ~ Replacement Windows

Call Today to Get Your Window Quote!

843-399-1820



**Enhance Your View and Give
Your Home that Needed Facelift**

Residential Doors ~ Sliding Glass Doors ~ Steel & Fiberglass Doors



Get the Goods in Knoxville

Find These and More Post-Frame Products at Frame Building Expo 2025

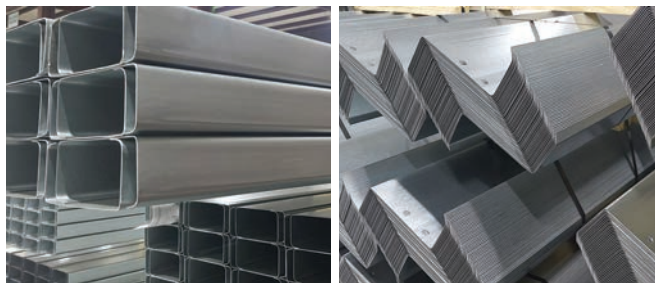
The 57th Annual NFBA Conference and Expo takes place at the Knoxville Convention Center from April 2-4, 2025 in Knoxville, Tennessee. More than 150 companies will fill the expo space, including A.J. Manufacturing, ASC Machine Tools, Atlas Building Products, MWI Components, Maze Nails, Strongwall Columns, and many more.

Builders 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. Here is a preview of a few of the materials and components you'll find on the Expo floor.



Booth 1303: Best Buy Metals Craftsman steel board and batten siding.

Best Buy Metals (Booth 1303) is introducing four stunning new wood-grain color options for its Craftsman steel board and batten siding, soffits, and more. Choose from Driftwood, Cypress Wood, Tiger Wood, or Zebrano. These pre-painted, durable steel options offer the beauty of wood with the low-maintenance benefits of metal. The new options are perfect for both residential and commercial projects.



Booth 216: BETCO Cee and Zee purlins.

BETCO (Booth 216) offers premium components for metal buildings of all sizes, including roof and wall panels, roll-up doors, Cee and Zee purlins, and more. BETCO's components are manufactured in-house for fast delivery and exceptional quality.



Booth 222: Extrutech Plastics Extrutech FORM.

Extrutech Plastics (Booth 222) is exhibiting its Extrutech FORM, which is a patented, stay-in-place concrete wall form system for basement walls. The FORM panels provide a bright white, smooth, non-porous finish for both interior and exterior surface. Panels resist mold and mildew, will not rot, rust, or flake, are 24" wide, widths of 6", 8", and lengths to 20'. Panels are pre-cut to project specifications and arrive at your location ready for setup. With strong snap-together, E-locking edges, panels can be set up side-by-side to connect them. Uses standard rebar installation and bracing, resulting in a bright white, easy-to-clean finished wall. ICC-ES Listed, Evaluation Report ERS-4250.

Janus and DBCI (Booth 315) highlight the Model 2500 heavy-duty roll-up door that's built for durability and convenience. Pre-lubricated springs are enclosed in a steel tube for protection,

PRODUCT FEATURE



Booth 315: Janus and DBCI Model 2500 26ga. heavy-duty roll-up door.

while its 26-gauge galvanized steel construction, coated in polyester paint with 30+ color options, ensures lasting performance. The door can be paired with an ATA motor-operator for seamless operation — perfect for frequently used doors, offering time savings, efficiency, and effortless day-to-day use.



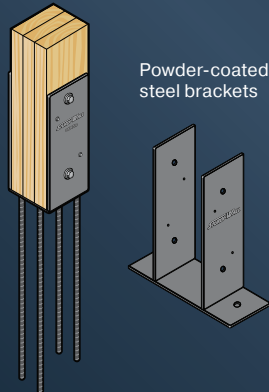
Booth 1434: Marco Industries LP2 Ridge Vent strip.

The LP2 Ridge Vent strip by **Marco Industries (Booth 1434)** is a patented, premier custom-cut vent strip that includes polyester vent material inserts for a snug fit and optimum ventilation at a cost lower than traditional fans and louvers. Available in a variety of profiles.



Precast concrete
3X stronger than
standard concrete

POST-FRAME PROFESSIONALS BUILD ON PERMANENT FOUNDATIONS



Powder-coated
steel brackets

Elevate your building projects with engineered foundation solutions that combine the economy of post-frame construction with the durability of a concrete foundation.

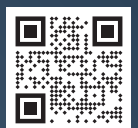
- Eliminate wood in the ground
- Maximize post-frame building life
- ICC-ES-certified code compliant

Build better. Build stronger. Build to last.
Contact your distributor today!



Certified by the International
Code Council to meet residential
and building codes

 **PERMA
COLUMN**
permacolumn.com



SteelBinder metal-to-metal roofing screws by **ST Fastening Systems (Booth 412)** are specially designed for securely attaching metal roof panels to the underlying structure. They feature self-drilling and self-tapping design, making installation faster and more efficient. Additionally, their corrosion-resistant properties and threaded design ensure a long-lasting, watertight seal, providing structural stability and protection against leaks in metal roofing systems.



Booth 412: ST Fasteners SteelBinder metal-to-metal roofing screws.



Booth 1213: Trac-Rite Door steel roll-up garage and shed doors.

Employee-owned **Trac-Rite Door (Booth 1213)** is exhibiting what it's best known for: high-quality, 100% American-made steel roll-up doors designed specifically for sheds, garages, carports, and other frame building applications. The company can also provide all necessary components to support construction projects, ensuring a seamless, worry-free process.

True Board and Batten Steel Siding by **True Metal Supply (Booth 207)** offers the beautiful look of realistic vertical wood siding, without the preventative maintenance. This 26ga or 24ga, 10" coverage, 3/4" batten steel siding features crinkle textured paint or wood-grain prints on a concealed-fastened panel for a seamless finish. Unlike wood siding, steel Board and Batten isn't susceptible to termite damage, chipping, cracking, or splitting, doesn't need repainting, and is extremely energy efficient.

Ventco by Lakeside (Booth 322) has launched its latest product, the ProfileVent2. PV2 meets the demands of both residen-



Booth 207: True Metal Supply True Board and Batten Steel Siding.

tial and commercial applications. Engineered with precision and crafted from premium materials, it ensures optimal airflow, protecting roofs and interiors from moisture buildup, heat damage, and other environmental challenges. The design not only enhances airflow but also reduces energy consumption, aligning with modern sustainability goals. PV2 features a user-friendly design that simplifies the installation process while ensuring a secure and durable fit. Its robust construction is tested to withstand extreme weather conditions, ensuring consistent performance and long-term reliability. It is made in the USA from recycled materials and is recyclable after use.



Booth 322: Vento by Lakeside ProfileVent2.

The best place to learn about solutions to your post-frame challenges is the trade show floor. Find them in person during Frame Building Expo at the Knoxville Convention Center April 2-4. **RB**

2025 NFBA CONFERENCE & EXPO EXHIBITORS

**Knoxville, TN
April 2-4, 2025**

The Frame Building Expo in Knoxville, TN is a gathering of world-class goods and service providers for the post-frame industry.

Exhibitors and or booth spaces are subject to change.



Acu-Form

Booth #536

10550 Township Road 262
Millersburg, OH 44654
330-674-4003
330-674-4035 (fax)
wayne@acu-form.com
www.acuformequipment.com

Acu-Form has been the trusted name for premium roll-forming machines in the steel roofing industry. Our unwavering commitment to tried-and-true manufacturing processes, founded on proven design principles and strict quality control checks, sets the foundation for the Acu-Form promise – quality, reliability, and longevity. When you choose Acu-Form, you're choosing a partner dedicated to your success.



ASC Machine Tools, Inc.

Booth #416

900 North Fancher Road
Spokane, WA 99212
509-534-6600
509-536-7658 (fax)
salesupport@ascmt.com
www.ascmt.com

Established in 1949, ASC specializes

in roll-forming machinery, tooling, and associated equipment utilized for metal processing. We offer a variety of panel lines, single and multi-trim roll formers, cz purlin lines, garage door and roll-up door lines, track lines, channel lines, bottom bar roll former and custom designed roll-forming lines – Made in Spokane, Washington USA!



Atlas Building Products

Booth #428

1628 Troy Rd.
Ashland, OH 44805
www.AtlasFasteners.com

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



Construction Maestro/ Symun Systems, Inc

Booth #212

www.symun.com

For nearly 25 years, Construction Maestro estimating and design software from Symun Systems has been known for its detail, accuracy, and ease of use. It automates the process of generating all necessary field-ready plans and materials lists within just a few minutes for a post-frame or stud-frame building.



Construction Rollforming Show

Dayton Convention Center,
Dayton, OH

October 1-2, 2025

920-216-3007 - Missy Beyer
missy@shieldwallmedia.com
www.constructionrollformingshow.com

Join us for the sixth annual show to be held in Dayton, Ohio, from October 1-2, 2025. Presented by Rollforming Magazine, this show is the only show devoted exclusively to the construction roll-forming industry. The show offers the latest in machinery and best business practices for the professional.



Freudenberg Performance Materials LP

Booth #1412

3500 Industrial Dr.
Durham, NC 27704
937-660-6646
chris@dripstop.com
www.dripstop.com

For over 25 years, Dripstop™ has been the absolute best way of dealing with condensation on non-insulated metal roofs. It has been tried and tested in every climate condition. Dripstop™ absorbs condensation as it forms and traps it in specially designed pockets within the membrane, thus preventing dripping from the roof.



E-Impact Marketing

Booth #1529

42 S Prince St.
Lancaster, PA 17603
717-929-8780
sales@eimpact.marketing
www.eimpact.marketing

E-Impact Marketing helps post frame companies reach customers and generate leads online. Do you show in search results for "pole barn builders" in your area? If not, we can help! From strategy to implementation, we are your partner for online business growth. Bring your marketing questions to our booth!

2025 NFBA CONFERENCE & EXPO EXHIBITORS



Energy Panel Structures, Inc.

Booth #1428

603 N. Van Gordon Ave.

Graettinger, IA 51342

712-859-3219

epsmarketing@epsbuildings.com

epsbuildings.com

Energy Panel Structures is a manufacturer of engineered buildings, recognized for quality and innovation. Each EPS building is custom-designed and engineered to meet your needs. EPS offers a range of engineered building packages, including single-family and multi-family residential options, commercial, cold storage, livestock facilities, and shop or storage projects.



Everlast Roofing, Inc.

Booth #917

10 Enterprise Court

Lebanon, PA 17042

888-339-0059

717-270-6569 (fax)

marketing@everlastroofing.com

www.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 CECI® 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. 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.



Extrutech Plastics, Inc.

Booth #222

www.epiplastics.com

Extrutech Plastics is an ISO Certified American Manufacturer since 1992 with ICC-ES listed products. Our bright white tongue and groove wall and ceiling panels are perfect for incidental food contact applications. Panels install quickly with no exposed fasteners, providing a smooth easy-to-clean surface. EPI has suspended ceiling panels, doors, and 8" thick stay-in-place concrete FORM panels for poured structural walls. The 8" thick Extrutech FORM is 24" wide with a bright white smooth easy-to-clean surface on both sides.



FootingPad Post Footings

Booth #1135

400 Carol Ann Lane

Ossian, IN 46777

800-522-2426

customerservice@footingpad.com

www.footingpad.com

FootingPad post foundations are the only tested and certified code compliant footings for use below grade to support posts and columns. Easy to transport and use, FootingPad saves valuable time and increases profits. FootingPad can be used under wood posts, laminated

columns, PermaColumn and concrete piers. Sizing charts are available on footingpad.com to ensure you have the right FootingPad to support your building. Load capacity up to 9,327 lbs per footing.



Formwright

Booth #515 & 529

1195 S. 250 W.

LaGrange, IN 46761

260-463-4010

260-463-4011 (fax)

Formwright is the Midwest's leading dealer for NewTech Machinery (NTM) standing seam rollforming machines. We specialize in complete package setups, which include machines, custom trailers, and all the tools and accessories needed for the ultimate metal roofing outfit. Our expertise focuses on the SSQII Multi-Pro, SSR Multi-Pro Jr, and Mach II Gutter machines, offering up to sixteen unique profiles for both commercial and residential needs. Our heavy-duty trailers are specifically designed for the rollforming industry and NTM machines. In addition to equipment, we provide phone support and on-site service, ensuring your operation runs smoothly. Partner with Formwright for superior products and best in class service.



Frame Building News

Booth #1507

PO Box 255

Iola, WI 54945

469-766-8842 (David, advertising)

715-513-6767 (Karen, editor)

karen@shieldwallmedia.com

www.framebuildingnews.com

Frame Building News is a business-to-business publication that covers the news, companies, products, and information that professionals involved in post-frame building need. It provides readers with constructive help through five issues each year, in the form of technical information, practical tips and tricks, ideas and solutions to problems.

2025 NFBA CONFERENCE & EXPO EXHIBITORS



Garage, Shed & Carport Builder Magazine

Booth #1507

PO Box 255
Iola, WI 54945
469-766-8842 (David, advertising)
920-264-0787 (Dan, editor)
dan@shieldwallmedia.com
www.garageshedcarportbuilder.com

Garage, Shed & Carport Builder Magazine is the industry's only trade publication that addresses all aspects of small, special-use residential buildings. We disseminate information to construction professionals about small, special use buildings including sheds, carports, and garages.



Graber Post Buildings, Inc.

Booth #431

7716 N 900 E
Montgomery, IN 47558
800-264-5013
info@graberpost.com
www.graberpost.com

Graber Post Buildings is a leading distributor and manufacturer of post-frame and metal roofing materials. We produce 6 different roofing/siding profiles, trims and components, engineered wood trusses, nail-laminated columns, and much more. We also are distributor of steel coils and specialize in custom slit widths for your siding machine.



Hixwood

Booth #834

N14685 Copenhagen Ave.
Stanley, WI 54768
715-644-0765
715-644-0994 (fax)
www.hixwood.com

Hixwood... Quality you can count on! Since its inception in 1998, Hixwood has focused on providing premium quality building products to the post-frame, commercial and residential industries. Our offerings include coil, blank flat stock, and custom slit coil. Available in 36+ colors.



I-Beam Sliding Doors

Booth #1023

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

Founded in 2013 by Jon Fehr, a Post Frame Builder in Central Illinois with frustrations with industry standard sliding door components. I had 2 door failures with just gusty winds in 2011 that industry standard couldn't back up, and gave up completely on the junk in 2012. In 2013 I made a door system that is an absolute game changer and now in 2025 I made it even better, AND cheaper! I'm leaving you with less options with 1 solution, an actual wind rated and warrantied door system that out performs them all! With a reputation that backs it up, the most reliable, easiest to assemble, 4 moving parts, simple rock solid ideal game changer!!



Marion Manufacturing

Booth #1216

201 S. Coble St.
Marion, KS 66861
620-382-3751
620-382-2322 (fax)
sales@marionmanufacturing.com
www.marionmanufacturing.com

Form your future with a machine from Marion Manufacturing, Inc. Trim Machines, Panel Machines, Shears, Decoilers, Hemmers, Rebar Hot Heading Lines, Flashing lines and more. Let us help you add the value to the metal!



Maze Nails

Booth #1138

100 Church St.
Peru, IL 61354
800-435-5949
www.mazenails.com

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.

2025 NFBA CONFERENCE & EXPO EXHIBITORS



Metal Rollforming Systems

Booth # 1229

4511 N. Freya Street
Spokane, WA 99217
888-284-6794
509-467-5631 (fax)
info@mrsrollform.com
www.mrsrollform.com

Metal Rollforming Systems designs and manufactures industry leading rollforming equipment and accessories. Our complete in-house design and manufacturing facility allows us to price our equipment at a very competitive price, making us a leader in rollforming equipment manufacturing. MRS' product lines consist of single and double deck rollformers, single and multitrim rollformers, slitters, sheet stackers and much more. We take great pride in our customer support both before and after the sale.



MWI Components

Booth # 509

1015 32nd Ave W
Spencer, IA 51301
800-360-6467
www.mwicomponents.com

MWI Components offers premium products like Arcadian Sliding Doors, Uni-Vent®, Ridg-Vents®, Dutch Doors, Cupolas, and Round & Square Track, and more for post-frame construction. Based in Spencer, IA, we serve the U.S. and Canada, delivering cost-effective, high-quality solutions to builders of garages, equestrian complexes, and metal-clad buildings.



Perma-Column, LLC

Booth # 1129

400 Carol Ann Ln.
Ossian, IN 46777

800-622-7190

sales@permacolumn.com
www.permacolumn.com

Perma-Column® is a patented line of precast concrete and steel products. Certified by ICC, the authority on building code compliance, enabling builders to more quickly attain approvals and permits. Perma-Column is designed to solve the industry-wide problem of rotting wood in post-frame foundations. In addition, the Sturdi-Wall steel anchor bracket system, "The Best Post-Frame Bracket in the Industry," allows for construction on traditional concrete foundations. Build Better, Build Stronger, Build to Last!



Plasti-Sleeve/Homework Design Inc.

Booth # 1319

26740 Hwy. 169
Zimmerman, MN 55398
763-856-5555
sales@plastisleeve.com
www.plastisleeve.com

With 30 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 Short-Sleeve, for shortened below grade post protection, and Plasti-Skirt, an economical, easy to use, plastic skirt board protector.



Plyco Corporation / East Coast Fasteners

Booth # 703

500 Industrial Drive
Elkhart Lake, WI 53020
800-558-5895
marketing@plyco.com
www.plyco.com

For over 70 years, Plyco has been a

leading supplier of products to the post-frame, metal clad building and commercial construction industries. Providing metal doors, windows, horse stall systems, ventilation products, reflective insulation, fasteners and closures, and more.

POST-FRAME BUILDER SHOW

Post-Frame Builder Show

Spooky Nook Sports
2913 Spooky Nook Rd
Manheim, PA 17545
920-216-3007 - Missy Beyer
missy@shieldwallmedia.com
www.postframebuildershow.com

Post-Frame builders face the same business needs and challenges. Our Second Annual Post-Frame Builder's show is all about resolving them. We're bringing together the suppliers, industry leaders, and technological solution providers in one space. Come mingle with the experts, shop for solutions, and make connections in Manheim, June 25-26, 2025.



Post Protector, Inc.

Booth # 421

PO Box 187
Pottsville, PA 17901
570-624-7030
570-624-7031 (fax)
ken@postprotector.com
www.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.

2025 NFBA CONFERENCE & EXPO EXHIBITORS



Progressive Metals

Progressive Metals

Booth #1218

PO Box 685

Cornwall, PA 17016

855-835-9762

www.progressivemetals.com

Progressive Metals aims to meet and exceed all customer coil needs. Offering a wide variety of colors in high quality 28 gauge coil and 26 and 24 gauge slit coil, excellent customer service, and exceptional delivery across the United States. We also offer a full line of accessories to finish your build.



rFOIL Reflective Insulation

Booth #1222

279 Humberline Dr.

Etobicoke, ON M9W 5T6

Canada

800-837-8961

www.rFOIL.com

Balcan Innovations is the largest manufacturer of reflective insulation in North America. Our rFoil brand products are lightweight and easy to install, and moisture resistant so they won't harbor mold and mildew. There is no fiber in the product so installers don't need personal protective equipment when installing this insulation.

RICHLAND LAMINATED COLUMNS LLC

Richland Laminated Columns LLC

Booth #729

8252 State Route 13

Greenwich, OH 44837

419-895-0036

419-895-0062 (fax)

Travis.Wilson@richlandcolumns.com

We are your "One Stop Pole Shop" manufacturer/wholesaler. We manufacture and distribute the NEW Precast Concrete Skirt Board, Glulam Poles, Nail-Lam Poles, Perma-Column, Sturdi-Wall Brackets, GreenPost (Polyethylene Plastic Wrap), Post Protector/Grade Guard Sleeves and The FootingPad. With several different foundation options available for your post-frame building; Richland Laminated Columns offers the most trusted and recognized products available.



Rural Builder Show

Gatlinburg Convention Center

234 Historic Nature Trail

Gatlinburg, TN 37738

920-216-3007 - Missy Beyer

missy@shieldwallmedia.com

www.ruralbuildershow.com

The all new Rural Builder Show debuts January 21-22, 2026 at Gatlinburg Convention Center. The 2026 show will run in conjunction with the Garage, Shed & Carport Builder Show. The Rural Builder Show is a complement to the long-running Rural Builder Magazine and is a business-to-business show, including all categories in the low-rise construction market.

Garage, Shed & Carport Builder Show

Gatlinburg Convention Center

234 Historic Nature Trail

Gatlinburg, TN 37738

920-216-3007 - Missy Beyer

missy@shieldwallmedia.com

www.garageshedcarportshow.com

The Garage, Shed & Carport Builder Show takes place January 21-22, 2026 at the Gatlinburg Convention Center in Gatlinburg, Tennessee. This show is all about meeting the business, material and technology needs of those who build small, special-purpose residential structures. Whether an add-on or a freestanding building, small buildings face unique design challenges. If you are looking for best practices or products catering to this niche, you should be in Gatlinburg for the show.



Rigidply Rafters

Booth #937

PA Location

701 E. Linden St.

Richland, PA 17087

717-866-6581

MD Location

1283 Joni Miller Rd.

Oakland, MD 21550

301-334-3977

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.

2025 NFBA CONFERENCE & EXPO EXHIBITORS

Rural Builder

Rural Builder Magazine

Booth #1507

PO Box 255

Iola, WI 54945

469-766-8842 (David, advertising)

920-264-0787 (Dan, editor)

dan@shieldwallmedia.com

www.ruralbuildermagazine.com

Rural Builder provides the news, features, products and how-to's geared towards builders and suppliers of primarily low-rise agricultural, small retail, municipal, and residential structures. Rural Builder serves a horizontal market targeting all types of low-rise construction in cities with a population of 250,000 or less. Published eight times annually, this trade resource has served the industry for over 55 years.



SFS Group USA, Inc.

Booth #1119

1045 Spring Street

Wyomissing, PA 19610

610-376-5751

us.construction@sfs.com

us.sfs.com

SFS is the premier manufacturer and supplier of fasteners for post frame and metal buildings. We offer wood screws and self-drilling fasteners in a variety of materials, thread styles, and point geometries. Visit us at the NFBA to see our newest products: The Woodgrip+, capable of piercing multiple metal panel layers, and the WoodMAC XG for optimal corrosion resistance.



SmartBuild Systems

Booth #1134

PO Box 20627

Boulder, CO 80308

303-443-8033

303-443-8033 (fax)

kdietzen@smartbuildsystems.com
www.smartbuildsystems.com

SmartBuild is the construction industry's only complete design system for all-metal buildings. Our user-friendly, web-based software quickly generates 3D models, material lists, pricing, proposals, and construction documents for almost any structure including BARNDOMINIUMS. SmartBuild supports post frame, sheds and carports. SmartBuild's Roofing Passport does metal roofing.



SWI Machinery, Inc.

Booth #1203

85 Howell Ave

Fairburn, GA 30213

770-766-0880

info@swimachinery.com

www.swimachinery.com

SWI Machinery is known for state-of-the-art sheet metal machinery that provides superior, dependable solutions for both large and small organizations throughout the industry. SWI's line of Simplex and Duplex folders, Marxman manual and automatic slitters, recoilers, uncoilers, including our CX5 multi-station Auto Decoiling & Storage System are fast, flexible, and easy to operate. Each features advanced reliable mechanical design and has a reputation of robust, high quality construction that allows for decades of trouble-free operation with minimal maintenance. Our mission is to provide high up-time equipment at a competitive price.



Trac-Rite Door

Booth #1213

314 Wilburn Road

Sun Prairie, WI 53590

800-448-8979

tr@tracrite.com

www.tracrite.com

Trac-Rite manufactures durable, 100% USA-made steel roll-up doors for garages/carports, sheds, self-storage, and pole barn applications. With a focus

on quality, longevity, and exceptional customer service, we provide complete solutions for your project needs. Trac-Rite is North America's trusted door manufacturer with over 40 years of experience and is 100% employee-owned.



United Steel Supply

Booth #307

248 Addie Roy Road, Suite C200

Austin, TX 78746

512-263-0954

www.unitedsteelsupply.com

Welcome to United Steel Supply, your first choice for steel. 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. Brands: 22-, 24-, 26- and 29-ga. flat rolled 40-year painted coil inventory. Acrylic coated in 22-, 24-, 26- and 29-ga.



Ventco by Lakeside

Booth #322

5500 Quaker Rd.

Wrens, GA 30833

706-547-9011

customerservice@profilevent.com

www.profilevent.com

ProfileVent® Ridge Vent is a durable, easy-to-install ventilation solution. Engineered for superior airflow and weather resistance, it helps regulate temperature and moisture, enhancing roof longevity. Ideal for metal roofs, ProfileVent® ensures performance, energy efficiency, and reliable protection for residential, commercial, and agricultural projects.



CX5 – Auto Decoiling
& Storage System

Every once in a while, a player comes along and changes the game forever.



When was the last time your team effortlessly selected and lifted a 12,000lb coil of steel, transported it, and seamlessly added it to your slitter or rollforming machine, all remotely? In the sheet metal manufacturing game, only the best team can help you achieve true champion status in the industry. So if that's a little above your crew's capabilities, then we suggest an automated solution with the kind of player the likes of which you've never experienced before – our CX5 Auto Decoiling and Storage System.

The CX5 is fast: featuring typical coil change times of less than 3 minutes. And it can easily be coupled with SWI Automatic

Slitters and most rollformers to produce automatic coil changes with a customizable range of stations.

Having a machine like the CX5 to minimize the potential for any damage by eliminating the need for moving coils manually is crucial. Not only does the CX5 system take efficiency to the next level, its safety features parallel with what the industry has come to expect from all SWI machines.

Experience what this unprecedented, automated coil-handling system can do for your business. Request a quote by calling (770) 766-0880 or visit swimachinery.com today.

SWI Completes Any Metal Fab Shop:



Marxman Plus & Marxman Pro



Duplex Dual Beam Folder / Slitter



Uncoiler & Recoiler



For Full Catalog or Quote: (770) 766-0880 • info@swimachinery.com • SWImachinery.com

BY LINDA SCHMID

Combilift Does the Heavy Lifting

Allowing You to Focus on Your Business!

Robert Moffett was instrumental in engineering and producing the Moffett Mounty, a forklift that could attach to a semi-truck, making loading and unloading much easier. Moffett worked in the family business, Moffett Engineering in Monaghan, Ireland, a world-renowned company, for many years. Martin McVicar worked there also; he was hired for a summer job and ended up becoming the head engineer before he was 20 years old. When the family decided to sell the business, Moffett and McVicar worked together to design the world's first internal combustion engine powered, all wheel drive, multi-directional forklift. And, in 1998, Combilift was begun.

A PRODUCT WITH A DIFFERENCE

The first forklift, the Trutractor was invented in 1917. This vehicle was like a tractor with an attachment, but in the 1920s, hydraulics and a vertical lifting mast were added. Through the years, the forklift was enhanced to handle heavier loads and safety features were added. The lift also branched out to different fuel-based applications.

The difference with the Combilift machine was the incredible maneuverability and the added safety features.

Early on, educating people regarding why they should trade in their traditional forklifts for these advanced lifters with enhanced safety features was quite a chal-

lenge. In fact it continues to be so today. In-person demonstrations were more effective, so they were shipping machines and people across Europe.

BUSINESS TODAY

While the company provides material handling equipment for many industries, building materials is their biggest market. Many of their customers are in the rollforming and post-frame market. They work with the raw material suppliers, manufacturing firms, and distributors.

"We can help anywhere along the distribution channel," said Paul Short, President of the North American division.

Their products, particularly the C-Series, the Combi CB-Series and the Aisle Master are the machines used in construction. These machines give the ability to carry long loads, like engineered wood products. Their multidirectional wheels make it possible to make sharp turns, carrying the load. They include



Combi C-Series Multi-directional Forklift handles long loads. ALL PHOTOS COURTESY OF COMBILIFT

sideloaders and counterbalanced narrow aisle forklifts, making material handling much easier.

Offering a high level of customization, the company will create a machine to accommodate any specific needs. Often when they have customized a machine for one customer, there are other applications for it in the industry. The company offers a service of helping customers with layouts to maximize their space and create efficiencies that can be realized with the material handlers.

Their customers are scattered across the globe, residing in 95 different countries.

UPLIFTING COMPANY CULTURE

Over 800 employees work at the facility in Ireland, about 60 employees in the United States, and 100 more around the world.

McVicar, CEO and cofounder, is very entrepreneurial and his spirit is infectious. Everyone listens carefully to customers to understand their particular needs and solve their problems. If they do not have the solution for the customer, they create it. Short said there is a strong “can-do” attitude among employees.



The Combilift Manufacturing Facility.

COMBiLiFT
 LiFTING INNOVATION

UNLOCK EVERY INCH OF YOUR STORAGE SPACE!



ENHANCE THE SAFETY, STORAGE & EFFICIENCY OF YOUR LOGISTICS WITH COMBILIFT

Combilift's range of multidirectional forklifts, pedestrian reach trucks, straddle carriers and container loaders will allow you to maximize the capacity, improve efficiency and enhance the safety of your facility.

CONTACT US TODAY

To find out how Combilift can help you unlock every inch of your storage space.

combilift.com



Aerial View of the Combilift Facility, Monaghan, Ireland

“Several of our employees have been with us from the beginning,” Short said. “Between the positive mindset, good benefits, a new facility built in 2018, everything you could need to do your job, plus hot meals available in the canteen, it’s a good place to work.

“There is also room to grow in the company, and many avenues to pursue,” Short said.

But how do they find employees in the first place? The nearby technical college offers apprenticeships at the facility. They also bring students into the facility for tours so they can get a feel of the different roles that they could fill someday. They help students to understand that they don’t have to go to a traditional university to find employment. The company is located in a rural area, so recruiting nearby youth is an important part of finding employees.

CHALLENGES AND KEYS TO SUCCESS

During the COVID-19 pandemic, the company doors were closed in Monaghan for about three weeks. Then they had to figure out how to move forward with serving their customers. In the meantime demand went wild.

The company pulled together as a team, splitting into different shifts and putting people to work in different zones to avoid too many people interacting.

Since that time, business has been strong; it is a continuing challenge to stay ahead of the demand, Short said.

“As an engineering and manufacturing company, our path to success means listening to customers and improving their storage and work flow. Innovation is very important, and we will go to any length to solve that problem. We treat every customer like they are our very first customer,” Short said.

People and product are the keys to a successful business, Short



Combi MG Coil Handling.

said. Your service and the quality of your product are what can set you apart from other companies, he added.

ON THE HORIZON

Short believes that in the next few years, more and more businesses will be looking for efficiencies from automation as well as storage solutions. Many of their products are automated, and they will be continuing down that road.

Combilift has an overall goal of becoming the greatest exporter within their niche. Their five-year plan is to double their sales, and they are very focused on North America. They see great opportunities in the United States and Canada, and they have accepted the challenge. **RB**



→ **FACTORY DIRECT** ←

WE ARE THE MANUFACTURER

**MADE IN ARIZONA
U.S.A**

CONSTRUCTION

- 2" NON INSULATED
- 2" SUPER POLY INSULATED
- 2" SANDWICH STEEL INSULATED



Shown with Rusty Orange Patina

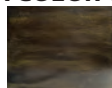
5 PATINA COLOR CHOICES!



BLACK PATINA



YELLOW PATINA



BROWN PATINA



RED BROWN PATINA



RUSTY ORANGE PATINA



CARRIAGE LONG PANEL WITH WR-109 LC WINDOWS

FINISH TEXTURES

- STANDARD WOODGRAIN
- TRUE-LOOK TEXTURE
- SPECIAL SMOOTH FLUSH

MULTIPLE COLORS TO CHOOSE FROM



SHOWN: BLACK FLUSH

**NATIONAL SALES: SHIV DASS 619-456-8689
SALES@AMGDF.COM**

PLANT DISTRIBUTION

BOUSE, ARIZONA

MIDWEST DISTRIBUTION

SULLIVAN, MISSOURI

www.AmericanGarageDoorFactory.com

8 Benefits of Construction Equipment Management Software

Enhance Efficiency and Cost Savings Digitally

Construction equipment management software is a highly effective tool that helps improve efficiency, cut costs, and streamline operations within construction projects. By blending modern technology with proven management strategies, it enables contractors and project managers to better plan, organize, and oversee project activities. This results in smoother processes and more successful project outcomes. Some of the major benefits of using construction management software include:

In an industry as dynamic and competitive as construction, managing equipment efficiently is crucial for the smooth running of projects. Clue's construction equipment management software (CEMS) offers a solution that not only enhances operational efficiency but also reduces overall project costs. Following are nine benefits of using construction management software.

1. Real-Time Equipment Tracking for Maximum Productivity

One of the standout benefits of construction equipment management software is the ability to monitor equipment in real time. Knowing the exact location and status of every piece of machinery allows you to make informed decisions and allocate resources more effectively.

You no longer need to worry about underused or idle equipment, and it becomes easier to shift machinery where it's needed most. This cuts down on unnecessary delays, ensuring higher productivity on-site. As an added benefit, tracking helps prevent equipment theft or loss, which is a costly problem for many contractors.

2. Preventive Maintenance and Reduced Downtime

Breakdowns are expensive. They not only incur repair costs but also halt work, resulting in delays that affect the entire project timeline. CEMS integrates preventive maintenance schedules, ensuring that equipment is serviced before issues arise.

With automated alerts and detailed maintenance records, construction managers can ensure that equipment is always in peak condition. Fewer unexpected breakdowns mean less downtime, helping projects stay on schedule and within budget.

3. Optimized Equipment Usage Reduces Rental Costs

Construction projects often involve renting additional equipment to meet short-term demands. Without clear data, you might

end up renting more than necessary or for longer periods. CEMS provides usage data that helps project managers optimize equipment schedules.

You can determine exactly what equipment is needed and for how long, which prevents over-renting and saves money. In fact, efficient equipment usage can significantly cut down on rental fees, reducing one of the biggest operational costs in construction.

4. Improved Fuel Management Leads to Cost Savings

Fuel is a major operating expense for any construction project. With CEMS, you can monitor fuel consumption across your entire fleet. The software tracks fuel usage and provides insights into how efficiently each piece of machinery is running. For example, it can flag equipment that consumes more fuel than expected or identify patterns of excessive idling. By managing fuel consumption better, you not only cut costs but also reduce your carbon footprint, a win for your bottom line and the environment.

5. Data-Driven Decision Making Enhances Project Efficiency

The power of data cannot be underestimated. CEMS gives construction managers access to valuable insights regarding equipment performance, usage trends, and cost factors. Armed with this data, you can make decisions that improve overall efficiency. Whether it's choosing when to replace outdated equipment, identifying bottlenecks in project timelines, or finding opportunities to cut costs, data-driven decision-making results in more streamlined and effective project execution.

6. Enhanced Safety Through Equipment Monitoring

Safety is paramount on any construction site. Poorly maintained equipment or incorrect usage can lead to accidents and costly legal issues. With equipment management software, you can monitor the health and performance of all machinery. Automated alerts notify you of any potential safety risks, such as malfunctioning parts or overdue inspections. Additionally, by ensuring that operators are assigned the right equipment and certified to use it, you minimize the risk of injury. Safer equipment means fewer accidents, less downtime, and lower insurance premiums — yet another way to reduce costs.

7. Automated Compliance and Regulatory Reporting

Staying compliant with industry regulations is a necessary

but time-consuming task for construction firms. CEMS simplifies this process by automating the collection and reporting of compliance data. With built-in reporting features, construction managers can ensure that equipment inspections, maintenance records, and certifications are up to date. This eliminates the need for manual tracking and reduces the risk of non-compliance penalties. Furthermore, automated reporting saves valuable administrative time, freeing up resources for more critical tasks.

8. Integration with Other Management Tools for Streamlined Operations

The best construction equipment management software integrates seamlessly with other project management tools, creating a unified platform for managing every aspect of a construction project. From inventory management to payroll and procurement, CEMS can be a central hub for all operations. This level of integration ensures that all teams are working with the same data, preventing miscommunication or delays caused by outdated information. Streamlined operations reduce overhead, improve productivity, and ensure projects stay on budget.

TO SUM UP

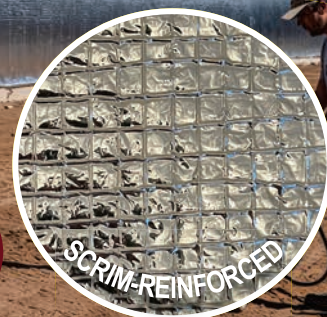
Construction Equipment Management Software goes far beyond simple tracking. It's an essential tool for increasing efficiency and reducing costs across the board. From preventive maintenance to optimizing equipment usage, it addresses some of the biggest challenges faced by contractors today. As the construction industry becomes more complex and competitive, adopting such technology is no longer optional but a critical component of staying ahead. **RB**

Clue (GetClue.com) is construction equipment software that simplifies management, maintenance, and tracking. It automates schedules, manages work orders, and ensures timely inspections to boost equipment performance and work efficiency. Its key features include unified monitoring, dispatching, and comprehensive inspections. Clue integrates with GPS providers, OEM telematics, and offers strong API support for seamless data synchronization. Its software has helped to reduce construction costs for companies like Palmetto Corp, which saved \$1 million by improving equipment utilization and reducing downtime.

TRANSFORMING THE WAY YOU INSULATE

Max-NT

"NO-TEAR"



- Great Tear-Strength
- UV-Resistant and Durable
- No Protective Clothing Needed

- Blocks Radiant Heat Gain/Loss
- Controls Interior Condensation
- Environmentally Friendly NO ITCH!

- Holds Securely when Stapled
- Warranty Covers: REPLACEMENT and LABOR!
- Will Not Harbor Mold, Mildew or Fungi



REFLECTIVE
PRODUCTS

800-837-8961
www.rFOIL.com



Benefits of Timber Frame Structures

And 5 Codes and Standards to Understand When Building With Timber

Choosing to build with timber offers a multitude of benefits that go beyond aesthetics. From its sustainability as a renewable resource to its structural versatility, building with timber is a smart and responsible choice. Mid-Atlantic Timberframes explains five benefits of building with timber.

SUSTAINABILITY AND ENVIRONMENTAL BENEFITS

Timber framing offers a multitude of sustainability and environmental benefits, making it an eco-friendly choice for construction. One key advantage is its renewability; timber comes

from responsibly managed forests, where new trees are planted to replace those harvested. This process ensures a continuous supply of building material without depleting natural resources. Additionally, timber acts as a carbon sink, sequestering carbon dioxide throughout its lifecycle, thus reducing greenhouse gas emissions.

AESTHETIC APPEAL AND DESIGN VERSATILITY

Timber framing offers unparalleled aesthetic appeal and design versatility, making it a popular choice for architectural enthusiasts and designers alike. The natural beauty of exposed timber beams and posts imparts a timeless charm and warmth to any

5 Codes and Standards to Understand When Building With Timber

Build more efficiently and sustainably with off-site fabrication

The building and construction industry continues to face stringent decarbonization policies and unpredictable scheduling disruptions. Timber framing provides a solution that supports sustainability while using off-site fabrication to reduce construction times. Although the popularity of both commercial and residential timber construction continues to rise, understanding the unique building requirements surrounding the material can be a complex challenge. Mid-Atlantic Timberframes, manufacturers of heavy and mass timber structural framing, shares five codes and regulations builders should know before approaching a timber frame project.

International Building Code (IBC): Guided by the International Code Council, IBC regulations provide specific building allowances and fire safety requirements for the use of cross-laminated timber (CLT), heavy timber, mass timber, and tall mass timber construction including the application of energy, sound transmission, and structural loads. The 2021 IBC guidelines provided allowances for fire resistance in timber buildings based on structural height: 18 stories, 12 stories, and 9 stories. In their 2024 update, the codes reflect new allowances for exposed timber walls and ceilings.

American Wood Council (AWC) Standards: The AWC publishes standards and guidelines for wood construction in buildings. Its specifications help calculate the structural capacities of heavy timber.

Forest Stewardship Council® (FSC® C164575) Certification: The FSC® (FSC® C164575) is an international, nongovernmental organization that promotes environmentally appropriate, socially beneficial, and economically viable management of the world's forests. Partnering with an FSC®-certified timber supplier can help to enhance the environmental qualities of a project and can contribute to LEED points.

Local Building Codes: Local building codes may adopt specific provisions related to heavy timber construction. Additionally, local building officials and authorities having jurisdiction play a crucial role in interpreting and enforcing these codes based on regional variations and specific project conditions. Engage with local officials as early in the building design process as possible.

National Fire Protection Association® (NFPA) Standards: NFPA standards require fire resistance and noncombustible protection unique to timber construction in relation to building height. This includes the protection of shafts, exterior walls, concealed spaces, and connections with noncombustible materials.

As codes and regulations continue to evolve around mass timber, heavy timber, and timber framing, it is important that all involved parties stay informed.

space. The organic textures and grains of the wood create a sense of authenticity, bringing a touch of nature indoors and creating a comforting ambiance.

BIOPHILIA

Timber framing aligns perfectly with the biophilic design principles, harnessing the innate human connection with nature to create harmonious and health-promoting spaces. Biophilia recognizes the profound psychological and physiological benefits of incorporating natural elements into the built environment. Timber, as a natural material, embodies biophilia's essence by bringing the outdoors inside.

STRUCTURAL STRENGTH AND DURABILITY

The inherent strength of wood, especially when using high-quality hardwoods or engineered timber products, allows timber frame structures to withstand significant loads and stresses. Timber's excellent load-bearing capacity makes it suitable for both



Glulam beams manufactured by Mid-Atlantic Timberframes enhance the organic qualities of the Semans-Griswold Environmental Hall at Washington College in Chestertown, Maryland.

ONLINE SUCCESS

doesn't just happen by chance...

Getting leads online can be difficult. It takes planning and effort to reach the right audience, bring them to your website, and turn them into customers. At E-Impact Marketing, we manage your online marketing so you can focus on what you do best: running your business.



Search Engine Optimization



Social Media Posting & Growth



Paid Ads with Google, Bing, & Social Media



Automated Email Marketing & CRM



Keyword & Competitor Tracking



Marketing Strategy



Scan the QR code to **schedule a free consultation!**



(717) 929-8780
sales@eimpact.marketing
www.eimpact.marketing



“

Navigating the complexities of marketing and its ever-evolving nuances felt daunting at first. Having a trusted partner like E-Impact, who not only excels in marketing but also takes the time to deeply understand our unique industry, has been an immense relief. It's clear that they truly care about each client and are committed to helping us succeed!

Tim Troyer,
Troyer Post Buildings

52.8K
Total in
Organic Clicks*

68%
Increase in
Quote Requests*



small residential dwellings and large commercial buildings. Additionally, timber possesses a natural ability to flex and distribute loads, enabling it to endure seismic movements and extreme weather conditions.

ENERGY EFFICIENCY AND INSULATION

Timber framing excels in energy efficiency and insulation, offering significant advantages for eco-conscious builders and occupants alike. The natural insulating properties of wood create a thermal barrier, reducing heat transfer and energy consumption. Timber frame structures boast excellent thermal performance, maintaining comfortable indoor temperatures throughout the year.

CUSTOMIZATION AND PERSONALIZATION

From the initial planning stages, timber frame structures can be tailored to suit specific needs and preferences. Clients can collaborate with architects and designers to create custom floor plans that reflect their lifestyle and optimize the use of space. The open concept of timber frame construction provides the flexibil-

ity to accommodate various interior layouts, ensuring each room serves its intended purpose seamlessly. **RB**

Mid-Atlantic Timberframes (matflc.com) is a timber manufacturer located in Lancaster County, Pennsylvania. MATF crafts heavy and mass timber, designs timber frames, and builds timber frame structures for a variety of projects, including commercial and municipal buildings, high-end custom homes, and equestrian facilities. As an authority on timber manufacturing, Mid-Atlantic Timberframes lends the expertise of third-generation woodworkers and craftspeople, designers, CNC machine operators, and timber framers to client projects, industry education gatherings, and trade association collaborations.



For more titles, check out Shield Wall Media online: www.shieldwallmedia.com



DEALER/INSTALLER OF:
C.H.I.
OVERHEAD DOORS

WE KNOW POST-FRAME

EXPERIENCED SALES STAFF

The experience of our salespeople is important to Graber Post. Many companies provide excellent customer service, but they might not have first-hand job-site experience or know how certain products are actually used. In actuality, we have the best of both. We'll see to it that you have exactly what you need for your roofing or building project.

QUALITY PRODUCTS

Our guiding principle has always been to offer the greatest products at competitive prices. In 2025, we continue to put our products to the test to make sure we are providing our clientele with just the best. From the steel mills all the way to the fasteners, we only partner with the best.

**Metal Panels • Nail-Lam Columns • Windows/Doors • Coil Sales
Trim Components • Custom Wood Trusses • Full Job Pack Delivery**



www.graberpost.com



800-264-5013

MAKE SLIDING DOORS GREAT AGAIN!!

New Door System coming to NFBA 2025!! Booth #1023



www.ibeamdoor.com

Do you have a project to show off in the 2025 RURAL BUILDER SOURCE BOOK?

In addition to advertising opportunities, the Source Book offers a great opportunity to show everyone what you can do as a builder or supplier. If you have a nice project you'd like considered for inclusion, we're looking for finished post frame and metal building projects, with information about the building and the products used in its construction. If your project or product makes it into the magazine, you can highlight that recognition in all your promotional materials!

Send projects to: dan@shieldwallmedia.com
• 920-264-0787

For advertising opportunities contact
dave@shieldwallmedia.com • 469-766-8842

Project Deadline: May 1, 2025



Premium Quality ROLLFORMING MACHINERY

Made in the USA since 1949

PANEL LINES
TRIM ROLLFORMER
PURLIN LINES
ROLL UP DOOR LINES
SEAMING STATIONS
ROLL UP STATIONS
TRACK LINES
DECKING LINES
COIL UPENDER
DOUBLE HEMMER

... and much more!

TEL (509) 534-6600

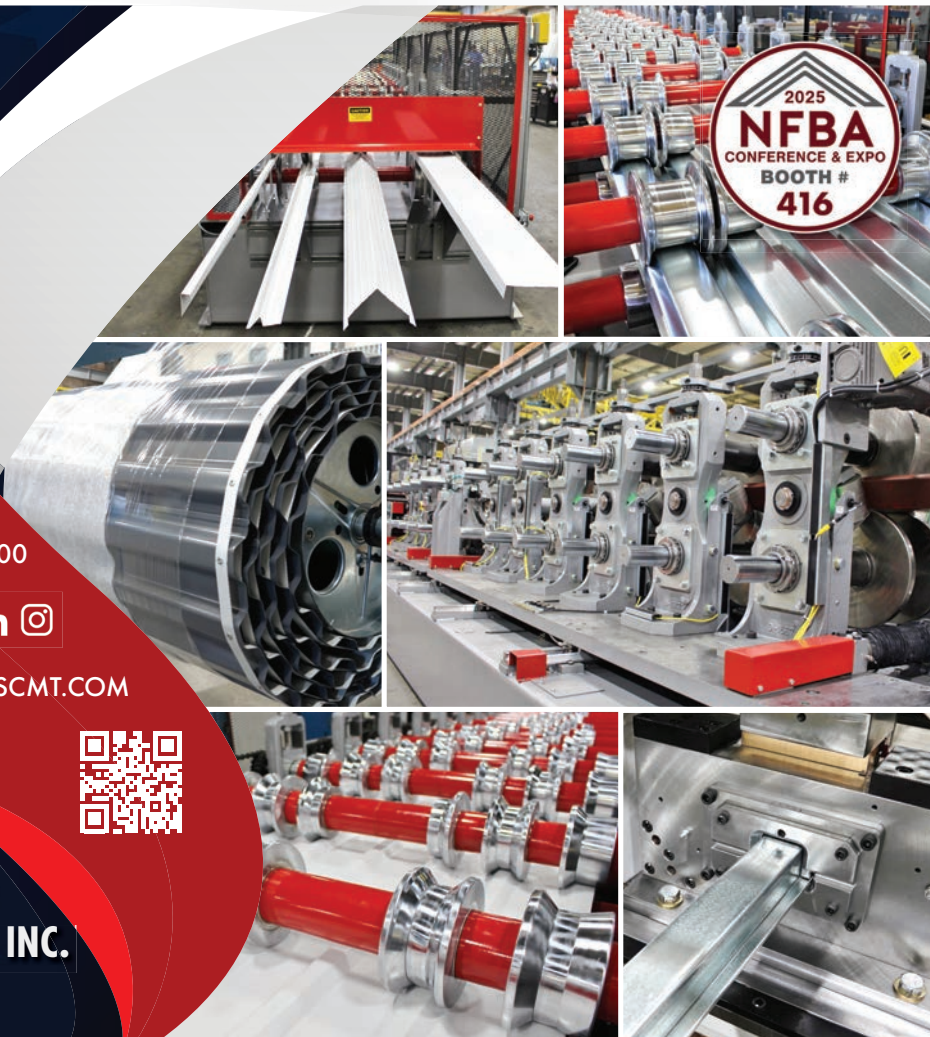


WWW.ASCMT.COM



ASC MACHINE TOOLS, INC.

Spokane, WA USA



We don't just make metal roofing.

We shape the industry.

Englert® sets the standard for innovative, efficient, high-quality roofing and gutter solutions.



For over 50 years, Englert has been the gold standard for commercial and residential metal roofing and gutter systems, as well as on-site roll-forming machines. Englert offers architects, contractors, and building owners cutting-edge solutions that uniquely combine beauty and performance.

In addition to our wide range of architectural and structural roof profiles, we are recognized for our dynamic in-house engineering and technical support teams, the most comprehensive contractor certification program in the industry, and unparalleled customer service.



1.800.ENGLERT info@englert.com www.englertinc.com



Contact Us



Englert is part of the Great Day Improvements family of brands.



A residential SIP construction project in progress.
PHOTO COURTESY OF SIPA.

Common Questions About Building with Structural Insulated Panels (SIPs)

Reprinted with permission of Structural Insulated Panel Association (SIPA)
from sips.org/frequently-asked-questions-about-sips

Structural insulated panels (SIPs) are a high-performance building system for residential and light commercial construction. The innovative panels consist of an insulating foam core sandwiched between two structural facings, typically oriented strand board (OSB). SIPs are precisely manufactured under factory controlled conditions and fit nearly any building design. The SIP building envelope has been in use for more than 30 years, achieving the industry's highest accolades.

Q. What are SIPs?

A. Structural insulated panels (SIPs) are high-performance building panels used in floors, walls, and roofs for residential and

light commercial buildings. The panels are made by sandwiching a core of rigid foam plastic insulation between two structural facings, such as oriented strand board (OSB). Other skin materials can be used for specific purposes. SIPs are manufactured under factory-controlled conditions and can be custom designed for each project. The result is a building system that is extremely strong, energy-efficient and cost effective. Building with SIPs will save you time, money and labor.

Q. Why Panelized Construction with SIPs?

A. Why do in seven steps with conventional stud-framed construction what you can do in only three innovative steps with SIPs?

CONSIDER THIS

Here are nine top benefits of panelized construction with SIPs:

1. Speed
2. Quality
3. Accuracy
4. Efficiency
5. Waste Reduction
6. System Integration
7. Machine Learning
8. Automated BOM
9. Automated Scheduling

Q. How much faster can I build with SIPs?

A. SIP homes go up much faster than traditionally framed buildings. A properly trained SIP installation crew can cut framing time by 55 percent compared to conventional wood framing, according to a third-party study conducted by R.S. Means. Panels are manufactured as big as 8-foot by 24-foot, so entire wall and roof sections can be put up quickly, reducing dry-in time. SIPs are ready to install when they arrive at the jobsite, eliminating the time needed to perform the individual jobsite operations of

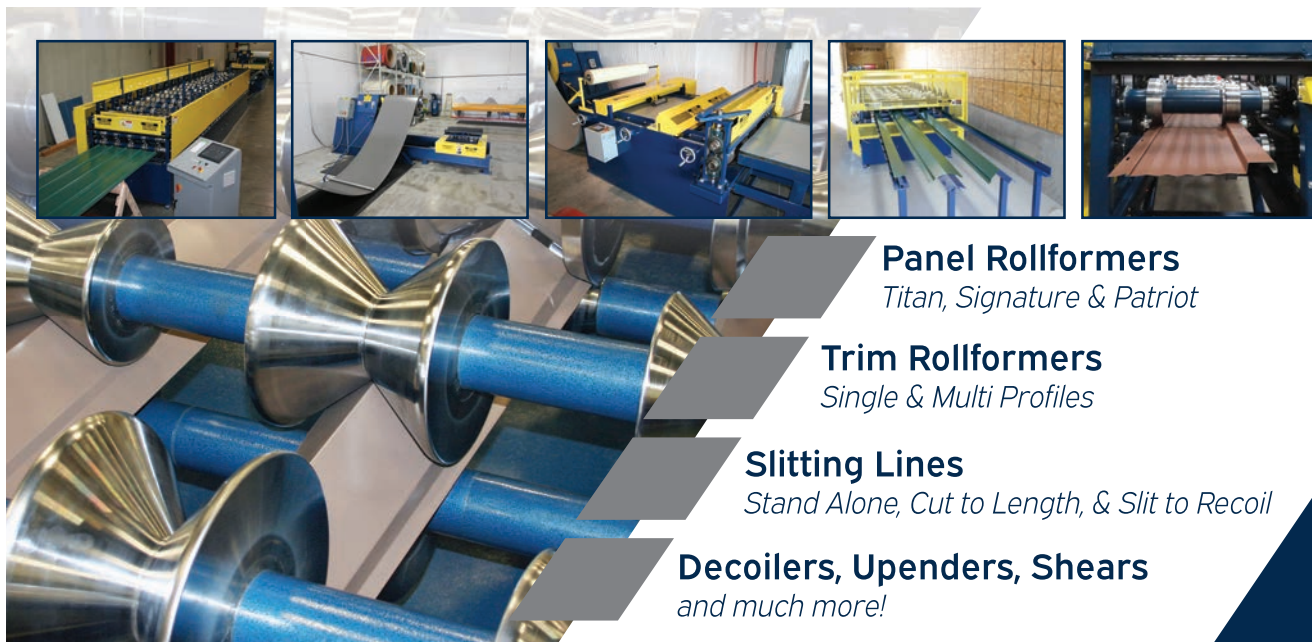
framing, insulating, and sheathing stick-framed walls. Electrical chases are typically provided in the core of panels, so there is no need to drill through studs for wiring.

Q. How much money can I save with SIPs?

A. Builders can save money through decreased construction and labor costs. A high-performance building envelope often allows HVAC equipment to be downsized and ductwork to be minimized. Builders can also significantly reduce jobsite waste disposal and temporary heat during construction. Homeowners who incorporate other energy-efficient features into a SIP home can see utility savings of 50 percent or more. In a 2021 example for a typical 2,000 sf home, using SIPs saves over \$16,000 in eliminated 2 x 4 raw material costs alone due to the high costs of lumber versus OSB used for SIPs.

Q. How sustainable are SIPs?

A. Structural insulated panels are one of the most environmentally responsible building systems available. A SIP building envelope provides continuous insulation, is extremely airtight, allows



Panel Rollformers

Titan, Signature & Patriot

Trim Rollformers

Single & Multi Profiles

Slitting Lines

Stand Alone, Cut to Length, & Slit to Recoil

Decoilers, Upenders, Shears

and much more!

**Industry Leading Quality
Unrivaled Service**



A 30 YEAR
HERITAGE



888.284.6794 | www.mrsrollform.com
info@mrsrollform.com
4511 N Freya St. | Spokane, WA 99217

MRS
METAL ROLLFORMING SYSTEMS





A SIP building's self-contained panels make building much faster than conventional stick-built construction, as fewer pieces and steps are needed. PHOTO COURTESY OF SIPA.

for better control over indoor air quality, reduces construction waste, and helps save natural resources. Life cycle analysis has shown that SIP homes have a tremendous positive environmental impact by reducing energy use and greenhouse gas emissions throughout the home's life cycle. SIP designs can save 45% more CO₂ with a 5.1-year energy payback and a 3.8-year greenhouse gas payback compared to stick framing examples.

Q. How strong are SIPs?

A. The structural characteristics of SIPs are similar to that of a steel I-beam. The OSB facers act as the flange of the I-beam, while the rigid foam core provides the web. This design gives SIPs an advantage when handling in-plane compressive loads. SIPs are used for high-wind designs in excess of 180 mph and are approved for Florida's strict High Velocity Hurricane Zones (HVHZ). The load-bearing area of SIPs is equivalent to building with 2 x 10 framing at 16 inches on center. SIPs can be engineered for most applications. Detailed information on the structural performance of SIPs is available from SIPA member manufacturers.

Q. How do I properly size HVAC equipment?

A. A high-performance SIP building enclosure often allows smaller HVAC equipment to be specified. It is important to work with a qualified HVAC professional that can accurately estimate the low levels of air infiltration in a SIP home or commercial building. Proper HVAC sizing is crucial because an oversized HVAC system will fail to reach the steady operating rate the equipment was designed for. Short cycling HVAC equipment will be less energy-efficient and require more maintenance than properly sized HVAC equipment.

Q. How important is ventilation?

A. SIP buildings are extremely airtight with air leakage rates

well less than 3 air changes per hour at 50 Pascals of pressure (3.0 ACH50) and require mechanical ventilation. Ventilation systems bring fresh air into the building in controlled amounts and exhaust moisture laden and stale air to the outside. By limiting air exchange to controlled ventilation systems, SIP homes allow for all incoming air to be filtered for allergens and dehumidified, creating better indoor air quality. Proper ventilation is important in all homes to preserve indoor air quality.

Q. How do SIPs improve indoor air quality?

A. The airtightness of the SIP building envelope prevents air from gaining access to the interior of the home except in controlled amounts. A controlled indoor environment is both healthy and comfortable. Humidity can be controlled more easily in a SIP home, resulting in a home that is more comfortable for occupants and less prone to mold growth and dust mites.

Q. How do SIPs react to fire?

A. Like all wood frame buildings, SIPs present a manageable fire risk when their construction meets the fire precautions listed in the building code. Residential codes typically require the application of a 15-minute fire-resistant thermal barrier on the interior for all residential structures, accomplished by applying 1/2-in. thick gypsum board or a material of equivalent thermal performance.

Light commercial or multi-use buildings of Type V Fire Rated construction often require a one-hour fire rating and/or sprinkler systems. Many SIP manufacturers can provide tested assemblies for both walls and roofs that meet the one-hour fire resistance tests outlined in ASTM E 119. Check with your local manufacturer for specific assemblies.

Many SIPA manufacturers participate in Intertek's one-hour fire listing for specific SIP assemblies.

Q. Are SIPs compatible with other building systems?

A. SIPs are compatible with almost any building system. Wall panels can sit on a variety of foundation materials, including poured concrete, blocks, or insulated concrete forms. SIPs are sized to accept dimensional lumber and are seamlessly compatible with stick framing. Builders may choose to build with SIP walls and a conventional truss roof or with stick walls and a SIP roof with little difficulty. SIPs are also popular as a method of providing a well-insulated building enclosure for timber frame and steel structures.

Q. What considerations do you need to take into account when building with SIPs vs. conventional framing?

A. The majority of construction with SIPs is very similar to conventional framing. SIPs accept dimensional lumber and are fastened together using staples, nails, or screws. Proper sealing is very important when assembling SIPs. All joints need to be

sealed with specially designed SIP sealant or expanding foam sealant, and in some cases self-adhesive SIP tape. SIPs also require consideration of how panels will be staged and placed on the jobsite. Although smaller 8- by 4-foot panels can be set by hand, larger 8- by 24-foot panels require the use of equipment to unload and set.

Q. Can SIPs be modified onsite?

A. Onsite modification can easily be done using a few additional SIP specific tools. Oversized panels can be cut using a beam saw or a beam cutting attachment to a circular saw. The foam core can then be recessed for splines or dimensional lumber using a hot wire foam scoop or specialized angle grinder attachment.

Q. How are electrical wiring and fixtures installed?

A. Electrical wires are pulled through pre-cut channels inside the core of the panels called "chases." Chases are added during the manufacturing process according to the electrical design of the home. Electricians can feed wires through panel chases without compressing the insulation or drilling through studs.

Q. Are SIPs susceptible to insects?

A. Although termites do not feed on the foam panel cores, there have been instances where panel cores have been hollowed out by these insects and used as a nesting ground. To prevent this, many manufacturers offer SIPs with borate-treated foam and/or OSB. Termites may also be deterred through the use of a specially designed steel mesh at the foundation connection. Both these treatments are highly effective, but they are not a substitute for careful termite prevention and maintenance, as with any other wood structure.

Q. Can SIPs be replaced or repaired if damaged?

A. If panels are damaged, a structural engineer needs to assess the damage to determine what is cosmetic and what is structural. If the damage is only cosmetic, then the source of moisture must be determined and fixed, whether it is from inside or outside. If the damage is structural, then the source of the problem must be identified and a structural solution to the problem must be found. That can be done by either a site modification of the panels or replacement of the panels, depending on the extent of the damage.



800-448-8979

tracrite.com • tr@tracrite.com



PERFORMANCE • VALUE • SERVICE

YOUR INDUSTRY LEADING DOOR PROVIDER
for all your door needs up to 18' x 18'



LONGEST INDUSTRY WARRANTY



EXCELLENT WIND RATINGS



EASY TO INSTALL



FAST LEAD TIMES



SCAN to
Learn More



OUR ROLL UP DOORS ARE STRONG, SMOOTH, & QUIET



In the event that panels are damaged, the manufacturer and installer of the panels should be notified. There are SIPA members who can act as consultants to assess the damage and recommend repair or replacement strategies.

Q. Do roofing manufacturers warranty asphalt shingles over SIP roofs?

A. Some roofing manufacturers warranty asphalt shingles over unvented SIP roofs, while others void their warranty because of higher shingle temperatures. Research conducted by Building Science Corporation reveals that although asphalt shingle temperatures increase slightly (2 – 3 degrees F) in an unvented roof assembly, the color of the shingles and the roof orientation have a much more profound impact on the durability of shingles. According to the Builder's Guide to Structural Insulated Panels (SIPs) published by Building Science Corporation, the typical reduction of shingle life over an unvented SIP roof assembly is between one and two years.

Builders seeking to comply with roofing manufacturer warranties can choose from a variety of more durable, non-asphalt roofing materials or provide a venting space between the SIP roof panels and the roofing material (known as a cold or ventilated roof).

Q. Does a building with a SIP roof need to be ventilated?

A. The area inside a SIP building envelope is considered con-

ditioned space and will be ventilated by the building's HVAC system. There is no need to provide a vented attic beneath a SIP roof, and doing so would compromise the conditioned space of the building.

Some building science experts recommend venting the roof by providing an air space between the SIP roof panels and the roofing material (known as a "cold roof"). This best practice is not a requirement for SIP buildings, but it is a sensible extra measure to improve the durability and moisture resistance of the building.

Q. How much do SIPs cost?

A. Pricing information can be obtained by contacting any of SIPA's Manufacturer or Dealer/Distributor members. However, the material price does not reflect the labor savings capable with SIP construction.

A study conducted by the R.S. Means shows that building with SIPs can reduce framing, electrical, and plumbing labor by as much as 55 percent over conventional wood framing. Builders can also expect decreased jobsite waste disposal costs and savings on HVAC equipment. Savings in door, window, cabinetry, and drywall installation efforts and elimination of continuous insulation (ci) are typical. When all these factors are considered, building with SIPs is often less expensive than other building systems.

Q. Are SIPs accepted by building codes?

A. SIP construction is recognized by the International Code

Council body of building codes, which are used by most jurisdictions in the U.S. SIPs are also approved by the State of Florida for High Velocity Hurricane Zones (HVHZ).

For residential buildings, specific construction practices for SIP wall systems are included in Section R610 of the 2018 International Residential Code. For applications beyond the scope of Section R610, the building inspector will typically require a licensed engineer or architect to approve the building plans prior to construction. An engineer's approval is always required in high wind areas, high seismic zones, and commercial buildings.

Q. How do I attach siding or other exterior claddings to SIPs?

A. Builders should consult the siding manufacturer's installation instructions for how to attach their product to SIPs. Because SIPs use very little solid lumber, an increased fastening schedule is often required when attaching exterior cladding.

If the siding manufacturer does not offer recommendations for attaching their product to SIPs, a licensed architect or engineer can calculate the appropriate fastener frequency by obtaining fas-

tener pullout capacities from the SIP manufacturer.

It is also important that proper moisture management procedures be followed when applying any type of cladding to SIPs. The Builder's Guide to Structural Insulated Panels (SIPs) provides details for attaching various types of cladding materials. With the exception of metal and vinyl siding, the Builder's Guide recommends that all claddings be installed with a drainage gap between the cladding and the weather-resistant barrier in climates that average more than 20 inches of annual rainfall.

Q. What is shingle ridging? Does shingle ridging occur in SIP buildings?

A. Shingle ridging is a bulging of asphalt roofing material that occurs along the joints of engineered wood panels used in roof applications. This rare phenomenon is caused by changing moisture content in the roof sheathing and occurs in traditional truss-framed roof assemblies as well as SIP roof assemblies.

The ridges caused by the expansion of SIP roof panels may be an aesthetic blemish, but they do not affect the performance of the roofing or the SIP roof panels.

Your PALRAM Building Solutions Distributor



SUNSKY® Panels

SUNSKY is the leading corrugated polycarbonate product for skylights, sidelights, complete roofs, and cladding. **SUNSKY** has 20 times greater impact resistance than FRP, plus a lower yellowing index & the highest light transmission available.



DURA CLAD® & Designer Series

DURA CLAD Multiwall Interlocking PVC interior wall & ceiling panels have a tongue-&-groove design for quick installation. Available in bright white & **NEW** white shiplap Designer Series with the look and feel of wood for wedding barns, workshops, she sheds, man caves & more.



AG-TUF® & AG-TUF UV

AG-TUF Corrugated PVC liner panels are chemical resistant, ideal for agricultural interior cladding. Brighten interiors & simplify maintenance of hog barns, dairy sheds, poultry houses, car washes, chemical processing plants, & fertilizer storage facilities. For outdoor applications use **AG-TUF UV**.

**CALL OR
STOP IN
TODAY!**

hixwood.com



MANUFACTURERS OF QUALITY BUILDING COMPONENTS

PH: (715) 644-0765 • FAX: (715) 644-0994
N14685 Copenhaver Ave., Stanley, WI



Several assemblies that prevent shingle ridging are described in the Builder's Guide to Structural Insulated Panels (SIPs). Specifying a cold roof (back ventilated), or simply over-sheathing the roof with an additional layer of OSB staggered over the panel joints, will eliminate the possibility of shingle ridging. Alternately, wood shingles, wood shakes, or a standing seam metal roof can be used in place of asphalt shingles.

Q. What is the R-value of SIPs?

A. R-values for SIPs depend on the thickness of the SIP and the type of core material that is used. See SIPA's R-value chart for the minimum R-values of commonly available SIPs (sips.org/resources/r-values-in-the-real-world).

Static R-values, like those included in the chart, rate the effectiveness of insulating material. However, they do not accurately describe how products perform in a real-world setting. When fiberglass or other types of insulation are installed, they are installed around structural members made of wood or metal that have very poor insulating value. Field-installed insulation materials are also prone to installation imperfections.

The Department of Energy's Oak Ridge National Laboratory has studied and tested the performance of entire wall assemblies in large sections. The resulting whole-wall R-value data reveals that a 4-inch SIP wall rated at R-14 outperforms a 2 x 6 wall with R-19 fiberglass insulation.

Q. How are SIPs supported? Are there studs in the panels?

A. For most applications, SIPs are structurally self-sufficient. The structural characteristics of SIPs are similar to that of a steel I-beam. The OSB facers act as the flange of the I-beam, while the rigid foam core provides the web. This design is extremely strong and eliminates the need for additional framing.

In cases where a point load from a beam or header requires additional support, a



double dimensional lumber spline or engineered wood spline is field-installed at in-plane panel connections.

SIPs are also used as curtain walls for steel frame or timber frame structures. In large commercial applications SIPs can minimize the amount of structural support needed and reduce material costs.

In roof applications, SIPs rely on beams and purlins for support. SIPs can span long distances, allowing a minimal amount of structural supports to be used. Embedding I-joists into the SIP roofs can also easily increase roof spans and loads.

Q. Can recessed lights be used in SIPs?

A. Recessed lights should never be embedded in structural insulated panels. To install recessed lights, an interior soffit must be constructed. Nowadays, more energy-efficient, modern, thin LED lights have replaced the need for recessed light fixtures.

Q. Do SIPs block sound transmission?

A. The sound resistance of a SIP wall depends on the thickness of the gypsum drywall applied, the exterior finish applied, and the thickness of the insulating foam core that is used. SIPs are especially effective at blocking high frequency noise, and most homeowners notice the quiet comfort of a SIP home. However, low frequency sounds are not as effectively stopped by a SIP building envelope.

For multifamily and commercial buildings, a universal sound transmission coefficient (STC) is used to specify the sound resistance of wall assemblies. Assemblies with a range of STC ratings are available, including options with a STC rating greater than 50 for party walls in multifamily buildings. SIP manufacturers can provide more information on these assemblies.

Q. Are vapor barriers required in SIP buildings?

A. Air barriers or vapor barriers are not required in SIP buildings because properly sealed SIPs create a code compliant air barrier with a permeability rating of less than 1.0 perm. In addition, the foam core of SIPs is solid and continuous throughout the wall, eliminating the convection and condensation issues that can occur in cavity walls.

This should not be confused with the requirement for external water-resistant barriers that protect all external wood structures from bulk water.

Q. Can plumbing be installed in SIPs?

A. Plumbing should not be located in exterior SIP walls because of the possibility of condensation or supply lines freezing in cold climates. During the design phase of the project, all plumbing should be relocated to interior walls.

If plumbing must be located on an exterior wall, it is recommended that a sur-

CONSIDER THIS

face chase be installed on the interior of the wall to conceal plumbing. Another option is to construct a small section of the wall using conventional wood framing that can be used to run plumbing. Plumbing penetrations such as drain water vents (DWV) can be placed through SIPs if they are thoroughly sealed to prevent air infiltration.

Q. Are SIPs susceptible to mold and mildew?

A. A water and airtight SIP building envelope forms the basis of a successful mold control strategy. The extremely low levels of air infiltration in SIP buildings allow for incoming air to be provided in controlled amounts by air handling equipment. Proper dehumidification of incom-

ing air following ASHRAE standards will create an environment where mold physically cannot grow.

In addition to creating an airtight structure, SIPs are solid and free of any cavities in the wall where moisture can condense and cause unseen mold growth.

Q. How does the SIP design and fabrication process work?

A. The construction of a SIP home or commercial building begins with the construction documents. Once the construction documents are in the hands of a SIP manufacturer, dealer/distributor, or design professional, they are converted to SIP shop drawings that give the dimensions of each individual panel.

The shop drawings are reviewed by the

builder, engineer, the building owner, and other involved parties. Once the shop drawings are finalized, the SIPs are fabricated and shipped to the jobsite for installation. **RB**

Note: Much more information — such as videos, blogs, PDF downloads, and other references — are available on the SIPs article link (sips.org/frequently-asked-questions-about-sips).

The Structural Insulated Panel Association (SIPA) (sips.org) is a non-profit trade association representing manufacturers, suppliers, dealer/distributors, design professionals, and builders committed to providing quality structural insulated panels for all segments of the construction industry.

AUTO CUT
SERIES

ROPER WHITNEY

Straighten,
Slit, and
Cut to
Length.

ROPER WHITNEY
Changing the shape of metal for 115 years!

2833 Huffman Blvd
Rockford, IL 61103
Office: 815.962.3011

view online

CHIEF
BUILDINGS

WHY CHIEF? VISIT CHIEFBUILDINGS.COM
800-845-1767

2024 Gold Key of Excellence Award Winner

To advertise, contact David Beckler: dave@shieldwallmedia.com • 469-766-8842

★ **Professional Roofing Machinery for Everyone** ★

Professional Metal Roll Forming Roof Panel Machine SS4E-PRO

- Portable rollformer capable to run: Board & Batten, Nail Flange 1"-1.5", Clip Snap Lock 1.5"-1.75", Double Lock Mechanical 1", 1.5", 2", 5V, Underdeck or custom profiles
- Choice of Gas-Hydraulic, residential electric or direct drive
- Can be mounted on your or a new trailer

Liberty Seamless WE SUPPLY INDUSTRIAL EQUIPMENT FOR YOUR BUSINESS **PHONE: 814-326-4121**

www.stangroup.us Email: info@stangroup.us

Everlast Roofing, Inc.

OUR NAME SAYS IT ALL

PROFILE OPTIONS

EVERLAST II™ EVERDRAIN™

WHY EVERLAST?

AZM™ with Activate Technology Synergy® Paint System Cut Edge Corrosion Inhibitor™ (CECI™) Heat Forming Most corrosion resistant panel in the industry

AZM ACTIVATE TECHNOLOGY

Lebanon, PA 10 Enterprise Court Lebanon, PA 17042
Howe, IN 7180 N 050 E Howe, IN 46746
Bridgton, ME 24 JR Mains Drive Bridgton, ME 04009
Orwell, OH 161 Grand Valley Ave Orwell, OH 44076

FOR MORE INFORMATION CALL: 888-339-0059 OR VISIT US AT WWW.EVERLASTROOFING.COM

FBE SHOW BOOTH #917

HEAVY-DUTY ANCHOR BRACKETS

Sturdi-Wall® drill set model
Sturdi-Wall® Plus wet set model
ICC-ES certified code compliance
permacolumn.com

PERMA COLUMN.

BUILD BETTER. BUILD STRONGER. BUILD TO LAST.

FBE SHOW BOOTH #1129

Golden Rule FASTENERS

**QUALITY PRODUCTS
COMPETITIVE PRICES
& MOST ORDERS SHIP THE SAME DAY**

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

Ph: (334) 283-4030 - FAX (334) 283-4032
info@goldenrulefastenersinc.com - www.goldenrulefastenersinc.com

MANUFACTURER OF ROLL FORMING EQUIPMENT

Acu-Form ROLL FORMING EQUIPMENT

- Coil Upenders • Shears • Slit Line • Uncoilers • Trim Roll Formers
- Wrappers • Panel Lines

Millersburg, Ohio
(330) 674-4003 - ACUFORMEQUIPMENT.COM

FBE SHOW BOOTH #536

DMI = BUILDING INVESTMENT PROTECTION

Let DMI complete your building project with Code Approved & Warrantied:

HWH & PANGAKE FASTENERS • ANCHORS • PIPE FLASHINGS
REFLECTIVE INSULATION • POLYCARBONATE PANELS
SOLID & VENTED FOAM CLOSURES

www.directmetalsinc.com 855-800-8878

FBE SHOW BOOTH #1318

PINE HILL MOVING YOU FORWARD

THE MATERIAL TRAILER SERIES

MADE FOR THE METAL ROOFING & POLE BARN INDUSTRIES, DELIVERING SUPERIOR RELIABILITY AND PERFORMANCE EVERY TIME. FEATURING REMOTE-CONTROLLED ROLLERS, TILT DECK, AND EXTENSIONS, IT TRANSFORMS UNLOADING INTO A ONE-PERSON OPERATION - NO FORKLIFT REQUIRED.

PINEHILLTRAILERS.COM | (717) 288-2443 | 2969 LINCOLN HIGHWAY EAST, GORDONVILLE, PA 17529

FBE SHOW BOOTH #520

UNITED STEEL SUPPLY

STEEL PRODUCTS FOR THE METAL ROOFING & METAL BUILDING INDUSTRY

Understanding Superior Service

512-263-0954 • unitedsteelsupply.com

FBE SHOW BOOTH #307



**THE MOST AFFORDABLE, ALL-IN-ONE
SOLUTION FOR IN-GROUND POST DECAY
AND UPLIFT RESTRAINT**

**P (610) 377-3270
www.planetsaverind.com**

Made in the USA



FBE SHOW BOOTH #1518

**Premium Quality
ROLLFORMING MACHINERY**

PANEL LINES
TRIM ROLLFORMER
PURLIN LINES
ROLL UP DOOR LINES
SEAMING STATIONS

ROLL UP STATIONS
TRACK LINES
DECKING LINES
COIL UPENDER
DOUBLE HEMMER



Made in the USA since 1949!

ASC MACHINE TOOLS, INC.

TEL (509) 534-6600 www.ASCMT.com



FBE SHOW BOOTH #416

WE ADD THE VALUE TO THE METAL



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

620-382-3751

www.marionmanufacturing.com

FBE SHOW BOOTH #1216

ULTRA-VENT

UNIVERSAL VENTILATION SYSTEM



**CONFORMS
TO ANY ROOF PANEL**



**40 YEAR
WARRANTY**



**NO MEASURABLE LEAKAGE
WITH UP TO 90 MPH WIND**



833-473-3368

465 N Reading Rd,
Ephrata, PA 17522

Order Now

FBE SHOW BOOTH #1123

SPEEDLAP
Happy Jobsites!™

CUT-TO-ORDER STEEL SOFFIT

EMAIL SALES@SPEEDLAP.COM TODAY!



MASTER FLASH®

ROOFING • PLUMBING • ELECTRICAL • HVAC • SOLAR

**From the smallest to the
LARGEST,
the most complete line available.**

Pipe Range: Fits: 1/8" to 39-1/2" Pipes
Base Range: 2-1/4" to 44" (1 meter)

1-800-WASHER 5 (927-4375) • Ph: 858-513-4350 • info@aztecwasher.com • www.aztecwasher.com

SteelGrip SAMM, Inc.

Preventing Injuries and Saving Lives®

SAMM MATS:

Easy to use magnetic grip
provides safer footing when
working on steel roofing.
Get maintenance jobs done
faster and easier.



231-944-0109

SteelGripSamm.com

**BECOME A MANUFACTURER OF
METAL GARAGES & CARPORTS**



864-446-3645

coldspring@wctel.net • www.coldspringmetal.com
2139 Hwy. 20 N • Abbeville, SC



SUPPLYING OUR DEALERS THE BEST MATERIALS & SERVICES FOR OVER 45 YEARS!

Commercial • Equestrian
Suburban • Industrial

CONTACT US TODAY!
800-548-6765
system@stockadebuildings.com

Stockade Buildings
"Building for the future"



SAMCO
People. Products. Passion.

Providing Complete Turnkey Roll Forming Solutions for Over 50 Years

1 416 285 0619
www.samco-machinery.com



ASCO machines USA

(217) 955-ASCO
WWW.ASCO-MACHINES.COM



rFOIL® THE BEST WAY TO INSULATE METAL ROOFING

CLASS 1/A Fire Rating

888-887-3645
www.rFOIL.com

Manufactured by:
COVERTECH

FBE SHOW BOOTH #1222



Storage Express
& Building Components
DESIGN • MANUFACTURE • QUALITY
www.storageexpress.com

Storage Express
& Building Components
Angel Hayes | President
305-586-3033
90 W. Orange St. Avon Park, FL 33825
ahayes@storageexpress.com • www.storageexpress.com



Formwright

Outfitting Standing Seam Rollforming Businesses

Machines | Trailers | Tools | Service

Give Us A Call Today • **260.463.4010**

FBE SHOW BOOTH #515 & 529



SCHWEISS

DOORS

HYDRAULIC—OR—BIFOLD
ONE-PIECE DOORS STRAP LIFT DOORS

- AG DOORS • BARN DOORS
- SHOP DOORS • MAINTENANCE DOORS

SCHWEISSDOORS.COM 507-575-4999



Manufacturers of Storage, Specialty and Post Frame Garage Doors

KEYMAR MFG.

Arthur, IL 61911 sales@kevmar.net 217.543.2828

BY RURAL BUILDER STAFF

■ ALL WEATHER INSULATED PANELS LAUNCHES FASSADE WITH BELLARA INSULATED PANEL SYSTEM

All Weather Insulated Panels (AWIP) has introduced FASSADE with Bellara. Providing a versatile integrated solution for a wide range of single-skin metal panels, the FASSADE with Bellara assembly integrates with a variety of building designs, enhancing architectural appeal and making it a great choice for contemporary construction projects.

At the heart of AWIP's new offering is the FW40 panel, which serves as an effective insulation and vapor barrier while allowing for flexible installation — both vertically and horizontally. Bellara Steel Siding products can be integrated into the system and can be easily attached using hat channels fastened through the tongue and groove joint.

"We're excited to offer this complete wall solution," said Brian Ng, AWIP Technical Director. "FASSADE offers outstanding performance by integrating thermal, water, air, and vapor protection into a single system. This all-in-one solution not only streamlines installation, but also offers long-term durability and effective-



AWIP's Plank-style panel captures the beauty of natural wood.

ness, making it an excellent option for a wide range of construction projects."

FASSADE with Bellara Steel Siding is engineered to meet the rigorous thermal requirements for steel-framed walls, empowering architects and designers to realize their creative visions without compromise. The collaboration between AWIP and Vicwest ensures a high-quality product that adheres to industry standards.

The launch was made possible through the dedicated efforts of AWIP's product development technical team, whose expertise was instrumental in developing and rolling out this innovative solution.

Bellara Steel Siding emulates natural wood and captures the intricacies of all the grains and knots to lock in the wood's natural beauty. Available in various styles, including Plank, Board and Batten, and Lap Siding, Bellara Steel Siding is an ideal choice to enhance aesthetic appeal. This not only enhances an aesthetic appeal with its wood-grain finish, but also strengthens the assembly of air, water, and vapor barriers, all within a single component.

ProfileVent Innovation, Quality, Reliability and Value!

Coming Soon!



ProfileVent, Engineered Roofing Ventilation.
Visit us at **Booth 322** in Knoxville at the NFBA Frame Building Expo.

NEW PRODUCTS

■ E-Z LOK OFFERS THREADED INSERTS AND KITS FOR METAL

E-Z LOK™, a manufacturer and distributor of threaded inserts for metal, plastic, and wood offers E-Z LOK™ (Solid Wall) Threaded Inserts for metal, including both assortment and installation kits.

E-Z LOK™ inserts are ideal for repairing or reinforcing threaded holes in soft metals such as aluminum, magnesium, and cast iron. External threads are standard size and pitch, so they can be installed with standard drills and taps. Solid wall threaded inserts are installed with a screwdriver, bolt/jam nut (except IC series), or optional power drive tool.

These inserts will not back out or vibrate loose. The preapplied, microencapsulated adhesive begins to set immediately upon installation and the newly installed insert is fastener-ready in 3-5 minutes. Despite their firm hold while in use, E-Z LOK™ (Solid Wall) threaded inserts for metal can be removed with a bolt extractor, which overcomes the resistance to torque-out produced by the adhesive. They can also be removed by heating the insert to a temperature above 300°F (149°C),



E-Z Lok carbon steel insert.

at which point the adhesive will release.

E-Z LOK™ inserts are available in Thin Wall, Standard Wall, Extra Heavy Wall, Screw Locking, and Automotive designs. They are available in carbon steel and stainless steel. Stainless steel threaded inserts are perfect for applications requiring additional corrosion resistance, as well as food, beverage, and other clean-critical applications.

Assortment kits are equipped with inserts in a variety of sizes. Installation kits are specifically designed to make threaded insert applications and repairs as simple as possible. These feature a drill, tap, and installation tool. **RB**

LAM-PLY-TRUSS

RIDING ARENAS • CATTLE ENCLOSURES • STORAGE • SHOPS

- Spans up to 72 ft.
- Bird nesting control
- Up to 12 ft. spacing depending on desired load
- No feed alley post obstruction
- Additional ceiling height for more usable space

starwoodrafters.com • 715-985-3117 • 888-525-5878

SHOWTIME

GET YOUR TICKET TODAY!

**GET FREE ADMISSION BY CONTACTING AN EXHIBITOR
YOU DO BUSINESS WITH FOR A COMPLIMENTARY PASS.**

FROM THE
PUBLISHER
OF FRAME
BUILDING
NEWS



2025
POST-FRAME
BUILDER SHOW

JUNE 25-26, 2025

Spooky Nook Sports Lancaster, Manheim, PA

postframebuildershow.com

**THE \$50 PRE-REGISTRATION FEE FOR ADMISSION
COVERS BOTH DAYS AS WELL AS THE INFORMATIONAL SESSIONS.**



For More Information Contact Missy Beyer:

missy@shieldwallmedia.com • PH 920-216-3007 • FAX 1-715-277-8680

SUBSCRIBE NOW!



Shield Wall Media brands are dedicated to serving the information needs of construction professionals.



SUBSCRIBE ONLINE: shieldwallmedia.com/subscribe or fill out & mail form below.

FRAMEBUILDING
NEWS

METAL
ROOFING
MAGAZINE

Rural
Builder

Rollforming
Magazine

GARAGE • SHED • CARPORT
BUILDER

ROOFING
ELEMENTS
MAGAZINE

Metal
Builder

FREE 3-YEAR SUBSCRIPTIONS!

1. Please check one or more boxes, sign & date:

I wish to receive: ☐ Metal Roofing ☐ Garage, Shed & Carport Builder ☐ Metal Builder
☐ Rural Builder ☐ Frame Building News ☐ Rollforming ☐ Roofing Elements

Signature (REQUIRED): _____ Date: _____

Print Name: _____

Company: _____

Address: _____

City/State/Zip: _____

Phone or Email (REQUIRED): _____

☐ Check this box if you wish to receive the email newsletter associated with the magazine subscription(s) above.

2. Choose which title applies:

- ☐ President/Vice President
☐ Principle/Shareholder
☐ Sales Manager or Rep
☐ Foreman/Crew Manager
☐ Engineer/Architect
☐ Other: _____

3. Describe your business:

- ☐ Builder/Contractor
☐ Dealer/Distributor
☐ Manufacturer
☐ Engineer/Architect
☐ Other: _____

4. Please check all of the types of building or manufacturing you are involved with:

- | | | | |
|---------------------------------------|--------------------------------------|---|---|
| <input type="checkbox"/> Post Frame | <input type="checkbox"/> Residential | <input type="checkbox"/> Metal Roofing | <input type="checkbox"/> Rollforming |
| <input type="checkbox"/> Metal Frame | <input type="checkbox"/> Commercial | <input type="checkbox"/> Trusses/Columns | <input type="checkbox"/> Trim & Flashings |
| <input type="checkbox"/> Fabric | <input type="checkbox"/> Equine | <input type="checkbox"/> Foundations | <input type="checkbox"/> Insulation/ |
| <input type="checkbox"/> Agricultural | <input type="checkbox"/> Roofing | <input type="checkbox"/> Gutters/Snow Retention | <input type="checkbox"/> Moisture Control |

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

SWM2025

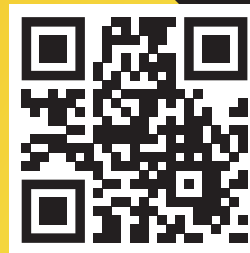


MAIL TO:
Shield Wall Media
ATTN: Barb Prill
PO Box 255, Iola, WI 54945

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 42nd 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. You can select up to three suppliers from the following list or nominate someone new in the spaces provided below. **TAKE A MINUTE TO SUBMIT YOUR VOTE TODAY!**

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 Inc. | <input type="checkbox"/> FootingPad | <input type="checkbox"/> Post Protector |
| <input type="checkbox"/> Acu-Form | <input type="checkbox"/> Frontier Metals | <input type="checkbox"/> Progressive Metals |
| <input type="checkbox"/> AceClamp | <input type="checkbox"/> Golden Rule Fasteners | <input type="checkbox"/> Red Dot Products |
| <input type="checkbox"/> AkzoNobel | <input type="checkbox"/> Graber Post Buildings Inc. | <input type="checkbox"/> RetroFitClip |
| <input type="checkbox"/> Amerilux International | <input type="checkbox"/> Hershey's Metal Meister | <input type="checkbox"/> rFoil Reflective Insulation |
| <input type="checkbox"/> Ameripak Inc | <input type="checkbox"/> HD Quality Builders | <input type="checkbox"/> Richland Laminated Columns |
| <input type="checkbox"/> AMS Controls | <input type="checkbox"/> Hitz Halter | <input type="checkbox"/> Rigidply Rafters |
| <input type="checkbox"/> Apple Outdoor Supply | <input type="checkbox"/> Hixwood | <input type="checkbox"/> Roll Former Corp. LLC |
| <input type="checkbox"/> ASC Machine Tools Inc. | <input type="checkbox"/> I Beam Sliding Doors | <input type="checkbox"/> Roper Whitney |
| <input type="checkbox"/> Atlas Building Products | <input type="checkbox"/> Janus International Group | <input type="checkbox"/> Royal Crowne Cupolas |
| <input type="checkbox"/> Aztec Washer Company | <input type="checkbox"/> JTS Sales | <input type="checkbox"/> S-5! |
| <input type="checkbox"/> Bay Insulation | <input type="checkbox"/> Kevmar Manufacturing | <input type="checkbox"/> Shed Windows & More |
| <input type="checkbox"/> Beck America Inc. | <input type="checkbox"/> Kirsch BP Sharkskin | <input type="checkbox"/> Sherwin-Williams Coatings |
| <input type="checkbox"/> Best Buy Metals Knoxville | <input type="checkbox"/> Lakeside Construction Fasteners | <input type="checkbox"/> Smart Build Systems |
| <input type="checkbox"/> Bradbury Group | <input type="checkbox"/> Leland Industries Inc. | <input type="checkbox"/> Snap-Z |
| <input type="checkbox"/> Building Products Development | <input type="checkbox"/> Levi's Building Components | <input type="checkbox"/> Speed Lap |
| <input type="checkbox"/> Burrow's Post Frame Supply | <input type="checkbox"/> Little Harvey's | <input type="checkbox"/> Steel Dynamics |
| <input type="checkbox"/> Capitol Forest Products | <input type="checkbox"/> Malco Tools, Inc. | <input type="checkbox"/> SteelGrip SAMM Inc. |
| <input type="checkbox"/> Chief Buildings | <input type="checkbox"/> Marco Industries | <input type="checkbox"/> Starwood Rafters |
| <input type="checkbox"/> Classic Equine Equipment | <input type="checkbox"/> Marion Manufacturing | <input type="checkbox"/> Stockade Buildings |
| <input type="checkbox"/> Coated Metals Group | <input type="checkbox"/> Maze Nails | <input type="checkbox"/> Stoll Metal Works |
| <input type="checkbox"/> Combilift | <input type="checkbox"/> Metal Sales | <input type="checkbox"/> SWI Machinery |
| <input type="checkbox"/> Daystar Systems LLC | <input type="checkbox"/> McElroy Metal | <input type="checkbox"/> T&H Lemont |
| <input type="checkbox"/> Deliverance Powered Safety Hammers LLC | <input type="checkbox"/> Metal Rollforming Systems | <input type="checkbox"/> Thermal Building Concepts |
| <input type="checkbox"/> Direct Metals Inc. | <input type="checkbox"/> MFM Building Products | <input type="checkbox"/> Timber Technologies Solutions |
| <input type="checkbox"/> DripStop™ | <input type="checkbox"/> Mid South Aluminum | <input type="checkbox"/> Trac-Rite Doors |
| <input type="checkbox"/> Dutch Tech Inc. | <input type="checkbox"/> Mill Steel Company | <input type="checkbox"/> Triangle Fastener Corporation |
| <input type="checkbox"/> Dynamic Fastener | <input type="checkbox"/> MWI Components | <input type="checkbox"/> Tri-State Lumber |
| <input type="checkbox"/> East Coast Fasteners | <input type="checkbox"/> New Tech Machinery | <input type="checkbox"/> True Metal Supply |
| <input type="checkbox"/> Eastside Machine Co. | <input type="checkbox"/> Palram Americas | <input type="checkbox"/> United Steel Supply |
| <input type="checkbox"/> Englert Inc. | <input type="checkbox"/> Perma-Column LLC | <input type="checkbox"/> Ventco by Lakeside |
| <input type="checkbox"/> Everlast Roofing, Inc. | <input type="checkbox"/> Pine Hill Trailers | <input type="checkbox"/> W.E.H. Supply |
| <input type="checkbox"/> Express Barns | <input type="checkbox"/> Planet Saver Industries/ GreenPost | <input type="checkbox"/> Wick Buildings |
| <input type="checkbox"/> FastenMaster | <input type="checkbox"/> Plyco Corporation | <input type="checkbox"/> Wildcat LLC |

Can't find your favorite suppliers above? Then nominate a supplier in the space provided below. (Company Name, Location & Website)

Your name: _____

Company: _____ Location: _____

(Your information will remain confidential.)

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

**PLEASE
RETURN
YOUR BALLOT
NO LATER THAN
April 1, 2025!**

**Rural
Builder**

SCAN QR CODE WITH YOUR PHONE TO VOTE ONLINE OR GO TO: shieldwallmedia.com/award-ballots/

BY RURAL BUILDER STAFF

■ COMBILIFT NAMED COMPANY OF THE YEAR AT 2024 BUSINESS & FINANCE AWARDS

Combilift, a leader in material handling solutions, was named Company of the Year at the Business & Finance Awards 2024. Since its founding in 1998, Combilift has built a global reputation as the largest manufacturer of multi-directional, articulated, and sideloading forklifts, as well as large material handling equipment such as straddle carriers, with over 85,000 units in operation across 85 countries.

Martin McVicar, CEO of Combilift, said, "This award reflects the bold vision and relentless drive that has been at the heart of Combilift since Robert Moffett and I started in 1998. Every forklift, every innovation, and every milestone reflects our commitment to pushing boundaries and transforming material handling

worldwide. This moment belongs to our employees, our dealers, and our customers who rely on us to deliver quality material handling solutions to optimize their warehouse space."

Winning this award places Combilift among an elite group of previous winners, including industry giants Primark, Google, and Intel. As a homegrown Irish business with a global footprint, this latest recognition serves as a reminder of the company's critical role in shaping the future of the material handling industry.

■ VINCE DRAPER, FOUNDER OF STOCKADE BUILDINGS, PASSES AT 81

Vince Draper a longtime residence of Benton, Missouri, was born July 13, 1943, and died Dec. 27, 2024, at his residence in rural Scott County. Vince is survived by

his wife, Julie Young Draper, and many friends and family.

As a young man, Vince served his country during the Vietnam War. After his honorable discharge, he returned to Iowa, but in the '70s, he stuffed what he could in his truck and drove to southeast Missouri, where he met and married the love of his life, Julie Young, and they soon were building Stockade Buildings and breeding quarter horses.

Vince was always a cowboy and rancher at heart. He and Julie founded and ran 2D Land and Cattle Company along with Stockade Construction and Stockade Buildings in Oran, Missouri. Julie will continue their business just as she and Vince have run them over the last 40-plus years. Vince will be remembered as a well-respected businessman who did things his way. **RB**

CONTRACTORS...

now you can perforate your
AG Panels AND FLAT STOCK
with the **AG PANEL PERFORATOR!**




METAL
ROUNDER
OF
HONOR
2024

- HD Electric - Gearbox Drive
- Four (4) Sets of Perf Dies
- 29 - 26 ga. Steel for AG Panels
- 29 - 24 ga. Steel, .032"
- Aluminum - Flat Stock



CHANGING THE SHAPE OF METAL

Call us today at 215-997-2511
www.rollformerllc.com







SAVE TIME, LABOR, AND HASSLE

COMPARED TO CONCRETE

FootingsPad® footings are engineered using a fiber-reinforced composite that is exceptionally strong, lightweight, and superior to concrete.

- Complete jobs faster, more easily, and generate more profit.
- Five sizes are available for use with most post types in below-grade applications.






Perfect for decks, post frame buildings, and other post-supported structures.



ESR-2147

Visit FootingsPad.com
or call 800-522-2426

BY RURAL BUILDER STAFF

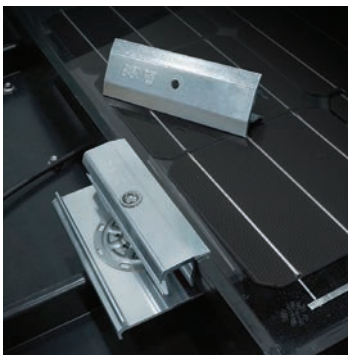
■ S-5! ANNOUNCES 50 NEW PATENTS

S-5!, a leading manufacturer of metal roof attachments, has announced the addition of 50 new patents issued in 2024 alone, bringing the total number of patents issued to 194 since its first patent application in 1991.

These patents are issued by global patent agencies across multiple regions, including the European Union (12), the United States (8), China (9), India (6), Australia (4), New Zealand (2), the United Kingdom (2), South Africa (2), Costa Rica (1), Kuwait (1), Mexico (1), Saudi Arabia (1), and Turkey (1).

As the global demand for solar energy surges, fueled by clean energy initiatives and decreasing solar capital costs, S-5! is experiencing increased demand for its solar attachment solutions, particularly in the Asia-Pacific, Latin American, and the European Union regions.

"We are seeing increasing demand for certifiably tested, engineered, and affordable lifetime components that allow easy attachment of rooftop accessories to metal roofs while maintaining



S-5!'s PVKIT HUR2.0 solar mounting solution for metal roofs, which can withstand wind uplift forces of up to 150 psf in high-wind and hurricane zones.

roof integrity," said Rob Haddock, founder and CEO of S-5! "In 2024, we prioritized certifications through third-party testing agencies to ensure the reliability and holding strength of our attachment solutions."

Notable achievements include FM Approvals listings to FM 4478 for the Ensolro System, which includes the S-5! PVKIT HUR 2.0 rail-less, direct-attach, solar mounting solution for metal roofs. It can withstand wind uplift forces of up to 150 psf in high-wind and hurricane zones. Additionally, S-5! standing seam clamps earned Florida Product Approvals (FPA) for High Velocity and Hurricane Zone (HVHZ) — a rigorous approval for high wind zones.

"Issued patents are the proof of innovation," added Haddock. "S-5! is not just a manufacturer; we are an innovation-driven company dedicated to our core principles — innovate, improve, and re-innovate — all while staying true to our commitment to do things The Right Way!™" **RB**

ABOVE AND BEYOND STEEL COILS

METAL ROOFING
METAL OF HONOR
2024

2025
NFBA
CONFERENCE & EXPO
BOOTH #
834

SPECIALIZING IN STANDING SEAM COILS

Offering a wide variety of colors in 26 & 28 gauge coil,
as well as a full line of 26 gauge slit coil & 40 7/8" x 40 3/4" coil.

We have the coil you need in stock and any accessories
you need to finish your build.

HIXWOOD

N14685 Copenhaver Ave.,
Stanley, WI 54768
715-644-0765
Fax: 715-644-0994
sales@hixwood.com

EXTRUTECH FORM Wall System

Perfect for Robotic and Parlor Walls

**P824
P624**

ICC
ES
LISTED
ERS-4250

U.S. Patent 8,677,713
Canadian Patent 2833,490
Mexican Patent 344,648

Robotic Milking Room

HOLY COW!
These panels are bright!

**BOOTH 222
NFBA
April 2-4
Knoxville, TN**

**Interlocking
Liner Panels**

Available in
12", 16", and
24" widths

ICC
ES
LISTED
ERS-4583

- Concrete Form System
- Water and corrosion-proof
- Custom cut panel kits to 20 feet
- 6" and 8" thick stay-in-place concrete form
- Cleans easily - low maintenance
- Brightens the interior of any building
- Fewer seams - 2 foot wide panels
- Resists mold, mildew, bacteria growth
- Available in a bright white, high gloss, hard surface
- Low maintenance, easy-to-clean, with water/mild cleaner
- Protective film on both sides keeps panels clean during construction

Manufacturing American-Made PVC Panels for 33 Years!

EPI
Extrutech Plastics, Inc.

EXTRUTECH PLASTICS, INC.

www.epiplastics.com

888-818-0118

33
Celebrating 33 Years of
American-made Products

2ND ANNUAL

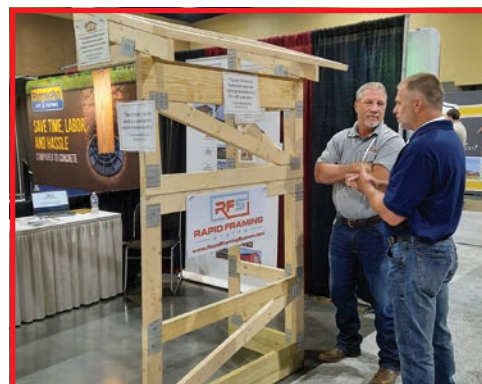
POST-FRAME BUILDER SHOW

REGISTER
NOW!



June 25-26, 2025

Spooky Nook Sports Lancaster • Manheim, PA



FOR EXHIBITOR INFORMATION CONTACT MISSY BEYER:
missy@shieldwallmedia.com • 920-216-3007
FAX 1-715-277-8680

REGISTER BY MAILING THIS COMPLETED FORM WITH PAYMENT OR ONLINE:
www.postframebuildersshow.com

2ND ANNUAL POST-FRAME BUILDER SHOW

Please fill out and mail with payment by June 9th to: **PFBS Registration, P.O. Box 255, Iola, WI 54945.**

(Please Print)

Name(s): _____

Company: _____

Address: _____

City/State/Zip: _____

Phone (required): _____

Email: _____

ADMISSION FEE:

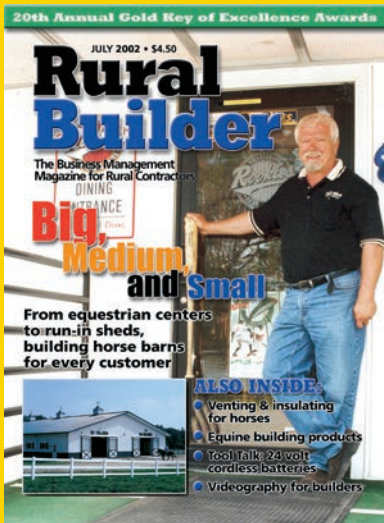
\$50.00 PER PERSON

Quantity: _____

Total Enclosed: \$ _____

Tickets also available at the door.

BY RYAN REED



Rural Builder, July 2002 Issue

FOR 50+ YEARS RURAL BUILDER has been providing the news, trends and resources builders need. Prior to the January 1974 edition, "Farm Building News," as it was called, was in newspaper form. However, those old papers are not to be found in our Shield Wall library. We would love to see some of them... it's our lost heritage! If you have one/some of them please drop a line to me: dan@shieldwallmedia.com.

We'll publish a brief news story about you, your organization, and your projects in return!



Generous access doors, vents, and fenestration keep Carriage Ridge airy and light.

Big, Medium, and Small

From Equestrian Centers to Run-In Sheds,
a Horse Barn Builder Finds
It's the Details That Count

Ken Miegs has been a builder in the Black Earth, Wis., area for decades and he hears about every big project in the region. Horse barns have become increasingly important to his business, especially as wealth from nearby Madison trickles into the surrounding countryside.

So he didn't blink when a lumber yard employee mentioned that a developer was planning a big horse facility. The building, including a 28-stall horse barn, a riding arena, and other amenities, would serve as the focal point for an entire subdivision: the Carriage Ridge Equestrian Community, planned by Tom Bunbury of Restaino Bunbury Associates Realtors.

Meigs, a dealer for Wick Buildings, based in nearby Mazomanie, sent the developer a letter, along with photos of his work and Wick Buildings' literature. He also sent copies of the April 1997 Frame Building News, with a photo and descrip-

tion of the 25,000 sq. ft. Foxwood Farms facility in Holly, Mich., build by Wick dealer Dick Alwood of Sentry Corp, which won the National Frame Builders Association Building of the Year award for large horse barns.

But Bunbury, it turns out, was already talking to a different post-frame package company about the barn. Meigs' package got Bunbury's attention, however. Meigs came up with some numbers, and those also impressed him. But the developer still wasn't convinced that Meigs, and Wick, could handle the details of the complex project.

To win him over, Meigs resorted to a tried-and-true business technique: take the client to dinner. He met Bunbury at Rookies, a local restaurant owned by shoe mogul Steve Schmitt. The restaurant had been thoroughly remodeled into a state-of-the-art sports-themed pub and eatery, including a miniature baseball stadium

(105 ft. to straightaway center) and walls and ceilings lined with jerseys, photos, posters, and other sports paraphernalia.

When the dinner conversation turned to business, Meigs casually mentioned that he had been general contractor on the remodel. His company had performed the demolition and the framing, but he'd also coordinated the work of more than 30 subcontractors. In addition to the usual electrical, plumbing, heating, concrete, paint, etc. there were specialty installers for the sound system, televisions, signage, and a unique air handler system for clearing cigarette smoke.

"He came in here and looked around," says Meigs, "and that convinced him we could handle the details."

Meigs got the job, but the design still needed some tinkering. Bunbury originally planned two separate stall barns, but site drainage and grading requirements wouldn't allow that building layouts. Discussions went back and forth on many topics; all told, the center underwent some 20 revisions.

With help from the engineering staff at Wick Buildings, the final design took form during summer of 1997, and Carriage Ridge was built in late 1997. Although Meigs has his own crew of eight or nine, Carriage Ridge was erected primarily by a Wick crew.

The stall barn wound up at 72x132, with room for two tack rooms, two wash stalls, two grooming stalls, and two feed stalls among the total of 28 stalls. The riding arena measures 72x184 ft.

The stall and arena ceilings are finished off in white steel panels fixed to the trusses. "It's an upscale way to finish a horse barn, but we're doing a lot of it," says Meigs. The look is clean and light, hides the insulation, cuts down on rain noise, and trusses don't get dusty or become home to birds. Insulation in the form of 2-in. fiberglass blanket with a built-in vapor barrier keep the interior comfortable year-round.

The 36x36 viewing area, complete with a half-kitchen and couches, was built with large windows onto the riding arena.



At 25,000 sq. ft., Carriage Ridge (above) is large by any standard, but the details keep it homey. The structure features a 72x132 stall barn with two tack rooms, two wash stalls, two grooming stalls, and two feed stalls among the total of 28 stalls, and a 72x184 riding arena, with a comfortable viewing area (left).

Meigs finished off the high ceilings in t&g cedar.

The stall barn features a trough conveyor system, built by Patz Manure Solutions, for speeding manure and bedding disposal. The systems are most often installed in dairy barns, but they work well for larger horse operations. For Carriage Ridge, the conveyor runs in a foot-deep trench at the back of each stall, and is easily accessible

by lifting a steel plate. Such systems are occasionally installed to run outside the stalls, but this means the waste has to be shoveled into the aisle, and can hinder access.

The Carriage Ridge project spawned others for Meigs. A year ago, Curt Mueller, a local sports products entrepreneur, contacted Meigs about building a modest 30x60 stall barn on his property. Halfway through the design process, the client decided to add a riding arena, but his ideas on size kept changing. "I thought he needed a sense of scale to the numbers he was coming up with," says Meigs, "so I took him out to Carriage Ridge to have a look."

Mueller was impressed, to say the least.



The riding arena was designed to accommodate anything from jumping to dressage.



Contractor Ken Meigs at Rookies, the restaurant that helped him win the Carriage Ridge contract.

The facility ended up at 72x336, plus 9-ft. overhangs on each side. About half of the building is used as storage, with a stall area, a riding arena, and a viewing room under one roof at the other end. Like Carriage Ridge, the stall area and arena are insulated and finished off with steel ceiling panels. A viewing room, lined with t&g cedar, includes a partial kitchen and lounging area.

Not all of Meigs' projects are so large or luxurious. His company recently completed a two-stall stable that combines features of a run-in shed and a horse barn. The basic idea came from the owner, Don Kirch, and was fleshed out by Meigs' sales supervisor Don Lucey. Like other barns, the building includes a tack room, storage areas, and an office. The stalls themselves are open to the outside, however, with Dutch doors at their rear.

"I built a horse barn for him years ago," says Lucey, "and he liked it but thought it got too hot in the summer. He wanted a design that allows maximum air flow."

With the limited time the owner could spend on his site, he thought it best to give the horses maximum freedom of movement.

"The barn is situated in a valley with pretty good airflow" says



Don Kirch's structure combines features of a run-in shed and a traditional horse barn.



The structure Meigs built for Curt Mueller features an enclosed viewing area, riding arena, and stalls.

Lucey, "and we set the building east-west to catch the breeze." Most of the winter storms in the area come from the north-west, so wind and blowing snow wouldn't be severe.

The unique design required some tinkering, but Lucey worked out most of the details before construction. The only problem with the open design was birds, which tried to nest in the trusses. Lucey installed some blocking and a steel ceiling, and the problem was solved.

Improvisation is par for the course for the horse barn design. "Every horse owner has a different idea of what's right," says Meigs. The final design is usually a trade-off between those ideas and practical and financial concerns. "A lot of people want a hay deck above the stalls," he says, "but they never consider how to get the hay up there."

Meigs has been in the business so long he can't say how many horse barns he's built; somewhere between 50 and 100 is his best guess. Equestrian work is about a quarter of his business, with

commercial and residential projects making up the bulk. Farm business has dwindled to less than 10 percent.

One of Meigs' newest business prospects is at the other end of the scale from Carriage Ridge: a small 12x20 run-in shed that he sells installed for about \$3,000. The shed, suitable for horses as well as smaller stock like sheep and goats, can be assembled on-site or prefabricated. The structure is most often mounted on skids, so owners can move them by tractor to different paddocks as desired. The portability also avoids the property taxes on fixed shelters.

Meigs has one of his portable run-in sheds by the side of the road near Mazomanie as advertising, and is getting a lot of calls on it. "We've built about seven or eight just this year," says Lucey.

But the big projects keep coming as well. Meigs' engineer and salesman Dave Budden says Wick has built nine or ten Carriage Ridge -style facilities in the past few years, and the demand keeps growing.

Apparently, there's enough money in the economy to support some lofty dreams. It seems to be a very good time to be a horse. **RB**



The manure conveyor system at Carriage Ridge allows stalls to be cleaned quickly, and the manure plowed in to the soil.

THE ONLY LABOR-SAVING CLAMP

ACE CLAMP
Innovative Roofing Solutions™

BOX TO ROOF!

- Clamps Arrive Assembled
- 3x Faster Installs
- Non-Penetrating (NO SET SCREWS)
- Patented Push-Pin Self-Locking Design

ACE CLAMP®
Innovative Roofing Solutions™

860-773-4144
AceClamp.com

FIRE RESISTANCE AND SELF-EXTINGUISHING
FIRE-BLOX MASTER FLASH®
ROOFING • PLUMBING • ELECTRICAL • HV/AC • SOLAR

PASSES THE UL 94-5VA FLAMMABILITY TEST

AFTER 01:15 @ 800° - 1000° OF DIRECT FLAME

Weather Protection
Made of Flame Resistant Rubber.
These flashings are compounded specifically for maximum resistance to weathering due to ozone and ultraviolet light.

Master Flash® Fire-Blox helps to prevent the spread of fire from the roof to the building

11 Sizes
Pipe Range: 1/8" to 28-1/2" Pipes
Base Ranges: 2-1/4" to 34"

PATENT PENDING

MASTER FLASH® FIRE BLOX HELPS TO PREVENT THE SPREAD OF FIRE FROM THE ROOF TO THE BUILDING

aztec washer company PH: (858) 513-4350 • FAX: (858) 513-4305
info@aztecwasher.com • www.aztecwasher.com

Post-Frame Barn Hobby Shop

Elkhorn Mountain Construction LLC

elkhornmtnconstructionllc.com

The owner's goal was to build a shop for storage and to use as a workshop if needed. He has a big shop in the front of the home and needed more space for garden equipment. On the retaining wall, Elkhorn Mountain Construction LLC installed a French drain all around for drainage. The homeowner had the gravel put in by another contractor prior to that.

One of the builder's challenges was that they started late in the season and ended up working in the snow season with the holidays and four feet of snow. They had to stop in early December and finish up in the spring.

Access to the shop was easy because the site was on a large field with plenty of room. Utilities were also easily accessed and no per-

mits were required in St. Regis, so the owner decided to add electrical to the shop after the shed was complete. The owner liked the completed building so much that he had the builders construct a 24'x30' pole garage for him in the same color. **RB**



Manufacturer Of Roll Forming Equipment

OUR PRODUCTS

Panel Lines
Trim Machines
Uncoilers

Shears
Slitters
Corners

Wrappers
J-Channel
Ridge Caps

Custom
Machines



Order Machine Based
On Your Needs



Full-Service Shipping
& Installation Available



Customer
Support



Versatile Growth
Options



Come see us at NFBA Booth #536



10850 County Road 320
Millersburg, OH 44654

P: (330) 674-4403
F: (330) 674-4035

wayne@acu-form.com
acuformequipment.com





THE DETAILS:

Location: St Regis, Montana

Building Type: Post-frame

Building Manufacturer:
Triad Building Components

Size: 22' x 36'

Foundation: Concrete slab

Roof Pitch: 4/12

Ridge Vent: Triad Building Components

Metal Panels:
Triad Building Components

Fasteners: FastGrip Fasteners

Windows: Coeur d'Alene Window Co.

Insulation: EcoFoil

Garage Door: Raynor Garage Doors

Entry Door: Jeld-Wen

Lumber: Superior Color & Lumber

Other Features: Second story retaining wall and lean to

Download Your Copy Of The Shield Wall Media Business Directory 2025:

www.shieldwallmedia.com/directory



**To get your company into the 2026 Directory,
use our online form or contact:**

David Beckler • 469-766-8842
dave@shieldwallmedia.com

2025 CSI Survey Results Are In

The survey for the 2025 CSI-Annual & Market Report is closed and we are coming through the results.

The first statement is that we are making progress. This year, we have over 500 respondents, which is approximately a 40% increase over last year. More respondents equals better and more usable data, so PLEASE SHARE OUR SURVEYS! The data is all available free to subscribers, so help us help you be successful.

GENERAL BUSINESS SENTIMENT IS UP COMPARED TO 2024

32% of respondents thought 2024 would be better than 2023. For 2025, that number increased to 38.8%. Fewer people predict a decline for 2025, and fewer people also stated they are “Unsure.” So sentiment is positive, and there is less uncertainty about 2025.

THERE WERE MARKED DIFFERENCES BASED ON THE PRIMARY AREA OF CONSTRUCTION

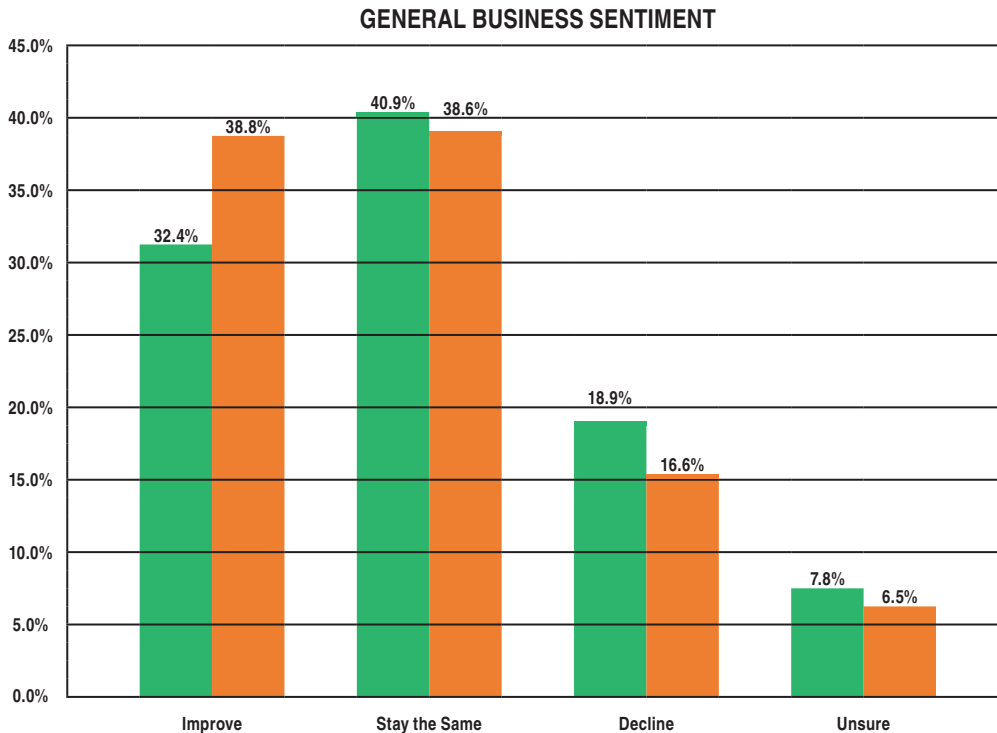
Roll formers had the most positive outlook. 50% of roll formers believed business in 2025 would improve. This was followed closely by metal roofing (43.2%), sheds and portable buildings (42.9%), and general roofing (41%).

Interestingly, roll formers were the only category with 0 respondents saying they were uncertain or there would be a decline.

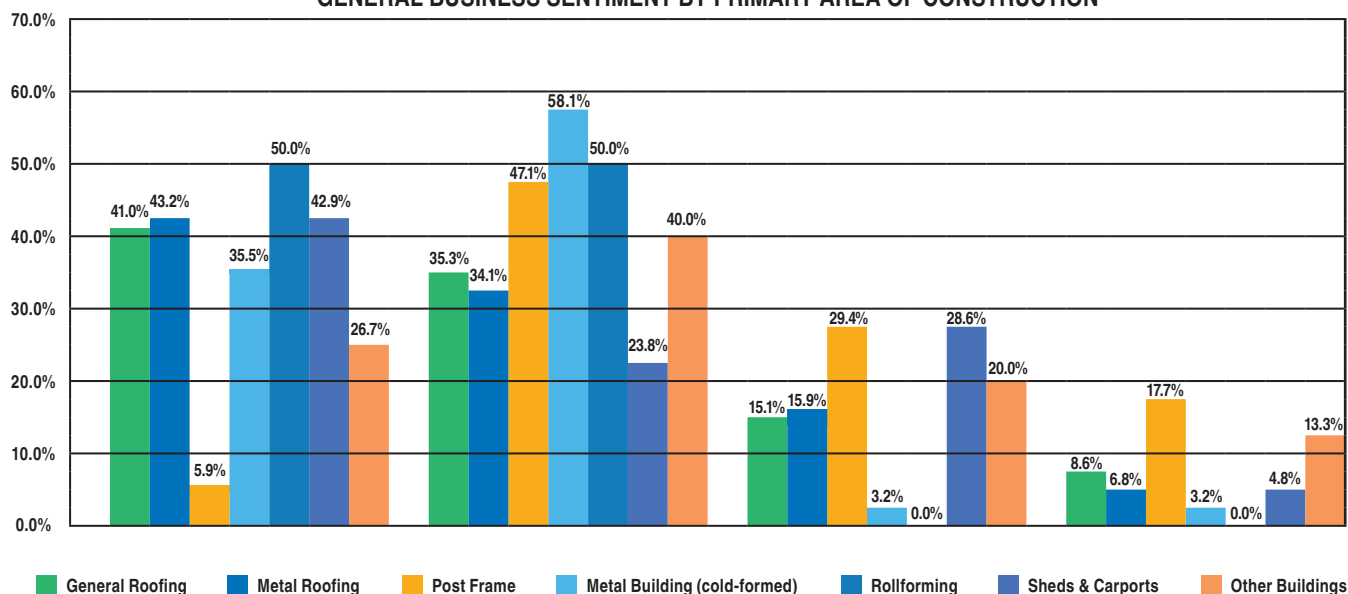
Cold-formed metal buildings are anticipating a generally good year. 58.1% said 2025 would be like 2024. Combining this with 35.5% looking for an increase, that makes 93.6% who say 2025 will be the same or better than 2024.

GEOGRAPHIC LOCATION HAD MINIMAL IMPACT ON OUTLOOK.

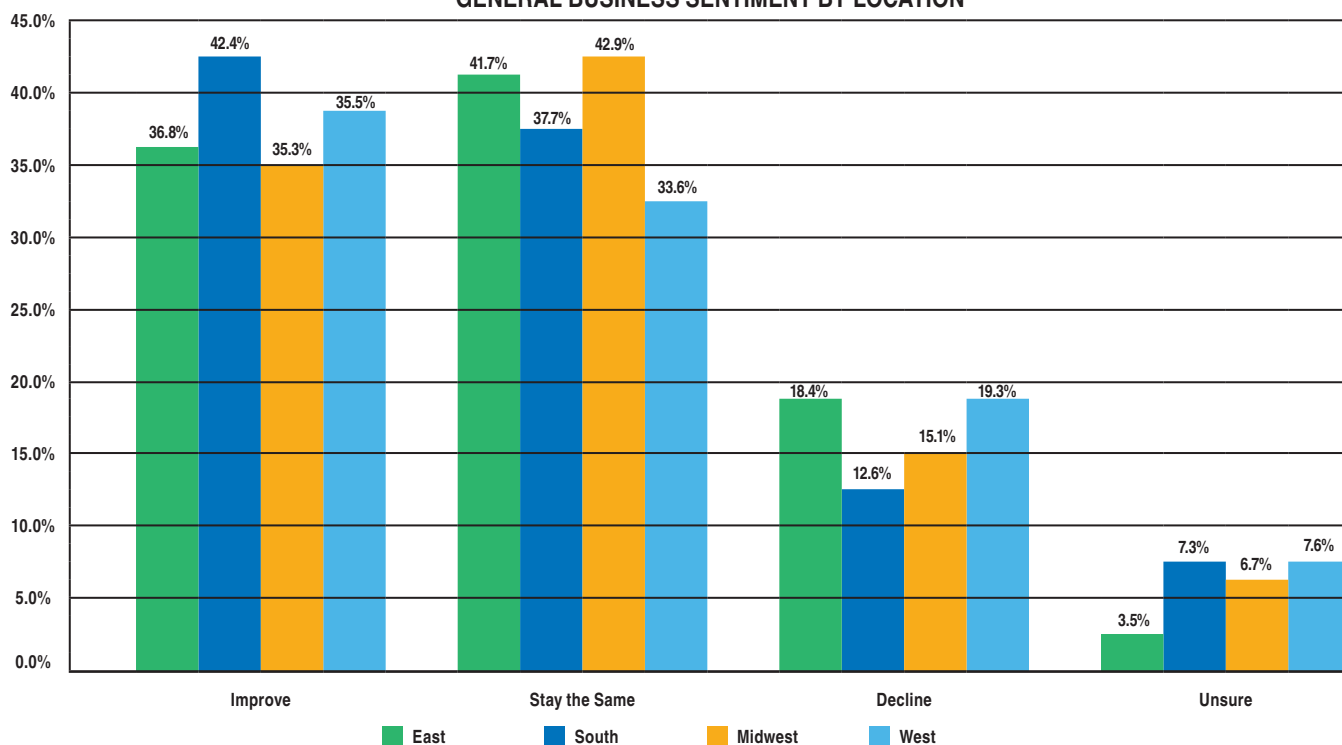
All regions had similar opinions about 2025. 35-42% are



GENERAL BUSINESS SENTIMENT BY PRIMARY AREA OF CONSTRUCTION



GENERAL BUSINESS SENTIMENT BY LOCATION



predicting an increase. 33-42% are predicting the same. 12-20% are predicting a decrease. In all cases, the spread is less than 10%.

THE POSITIVE OUTLOOK FOR 2025 IS COMING OFF A REASONABLY GOOD YEAR

45% reported increased gross sales and number of units sold for 2024 vs 2023. 40% reported an increase in profitability vs. 2023.

THE BIGGEST CHALLENGE OF 2025

The number one concern by a fair margin was cost of materials (51.4%), followed by inflation (33.9%), and taxes (27.0%).

2025 is looking like it might be a good year. More detailed information will be available when the 2025 CSI – Annual & Market Report is released in the spring. Please share the information, share the surveys, consider sponsoring a section, and help us get you the information you need to make good business decisions. If you are interested in sponsoring a section, email gary@shieldwallmedia.com. **RB**

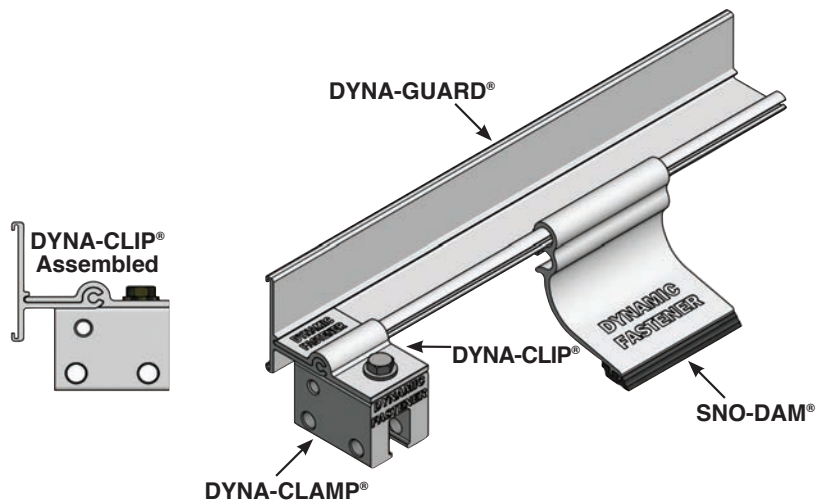
DYNA-GUARD®



DYNA-GUARD® installed



DYNA-GUARD® on duty



Attention architects / specifiers:

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

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



DF ARCAT content

DYNAMIC FASTENER • 800-821-5448

DYNA-GUARD, DYNA-CLAMP, DYNA-CLIP, and SNO-DAM are registered trademarks of Dynamic Fastener Service Inc.