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AT THE GARAGE, SHED & CARPORT BUILDER SHOW

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STATE OF THE INDUSTRY

WHAT'S THE OUTLOOK FOR 2021?

NAILS

FROM A TO Z

**SEE OUR EXHIBITOR
PROFILES ON PAGE 17**

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An Association Update

Regarding the Construction Rollforming Association (CRA), we hope to have a soft website launch in February. The website will initially be simple and CRA Memberships will be free until we provide real value to the industry. We are pushing the launch because we believe there is an unfulfilled need across the construction areas we service with our shows and publications.

An association serves three functions: networking, education, and lobbying on behalf of the industry. With the current state of the world, political lobbying is critical. I do not believe the current mandated shutdowns are sustainable. They currently impact service industries the hardest, but that will spread as they go on.

We will not back a political party/candi-

date, but we will work to keep businesses open. As a small business owner, I personally would like to be more politically active, but working the equivalent of three full-time jobs, I have no time. Our readers and advertisers are primarily small business owners; our voices should not be ignored because we are busy running businesses.

The website will have several "stock" letter formats and a directory of contact information for politicians. The goal is for you to be able to select a pre-written letter and, with one click, be ready to send it to your senator, congressperson, or other representative. You only need to add your own name. The letters will vary, but the underlying message will be that shutting down the economy is neither viable nor acceptable. The list of politicians and letters will start small and grow over time.

The hope is that the letters will reflect our point of view and make it efficient enough that we become more politically active as a group to keep businesses open.

We will ask you to register as a free association member, but we will never give or sell your information to anyone.

Hopefully by coming to the aid of businesses being strangled by government decree, we will help them and, in the process, help ourselves and our industry.

I would appreciate any feedback and can be reached by email at gary@shieldwallmedia.com or 715.252.6360.

Sincerely,



Gary Reichert

Publisher, Shield Wall Media

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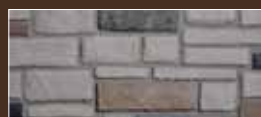
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Photo by Shad Eash, ShadBoost.com.

COVER DESIGN: Kevin Ulrich

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FRAMEBUILDING NEWS



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New Year, New Possibilities

Leaving 2020 behind and looking forward to a (hopefully) better 2021

Who could have guessed even a single news headline from 2020? Certainly not me, and probably not any of you either. What other year in history contained a global pandemic, a chaotic presidential election, wood shortages, riots, wildfires, and *murder hornets*?!

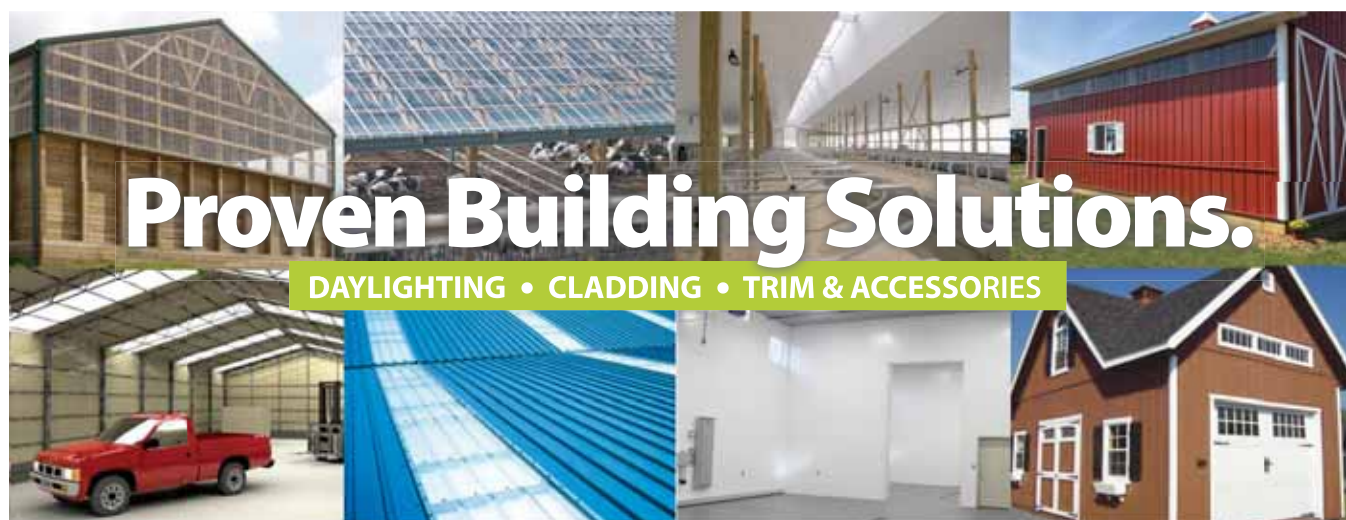
Let's all cross our fingers that this year will be "easier" and bring us all a bit more happiness than the last one. Good news is that, despite the craziness, the post-frame industry appears to be thriving. We re-

cently conducted a survey of our readers and were pleased to find that a whopping two-thirds of respondents were expecting their firm's final contract volume to be moderately or significantly increased in 2020 over 2019. The results of the State of the Industry survey are included in their entirety beginning on page 20.

Something to look forward to is the re-opening of trade shows. Our first ever Garage, Shed & Carport Builder Show is still on track for February 4-5 in South Bend, Indiana. This issue includes a special Show Preview section (beginning on page 40),

which includes profiles of the show exhibitors (as of early December 2020), new products that can be found on the show floor, and a list of family-friendly attractions, museums, and restaurants located nearby. Keep an eye on www.constructionmagnet.com/garage-carport-shed-builder-show-home-page for updates. It's going to be a great show and we hope to see you there!

Jessica Franchuk, Managing Editor
jessica@shieldwallmedia.com



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NOTE: Due to the pandemic, many events have been rescheduled or cancelled. We recommend contacting the show for updates before planning travel arrangements.

2021 January

12. CANCELLED. Wisconsin Lumber Dealers Leadership Conference.
Wisconsin Dells, Wisconsin.
www.nlassn.org.

13-15. TRANSITIONED TO VIRTUAL. Construction Safety & Health Conference.
safety.agc.org.

14. 37th Annual Buckeye Frame Building Association Post-Frame Expo and Buckeye Building Awards. Millersburg, Ohio.
www.ohiopost-frame.org.

2021 February

3-4. Discovery Summit '21 Digital Conference. www.nlassn.org.

4-5. 1st Annual Garage, Shed & Carport Builder Show. Century Center. South Bend, Indiana.
www.constructionmagnet.com/garage-carport-shed-builder-show-home-page.

9-11. TRANSITIONED TO VIRTUAL. ASHRAE Winter Conference & AHR Expo. www.ashrae.org.

9-12. TRANSITIONED TO VIRTUAL. International Builders Show.
www.buildersshow.com.

23-25. FGIA Annual Virtual Conference. www.aamanet.org.

2021 March

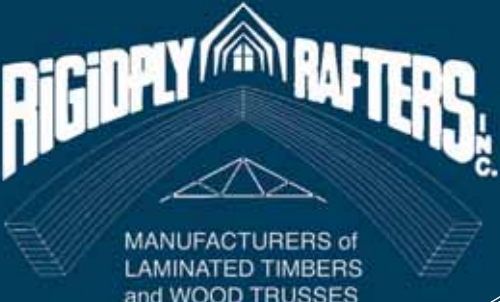
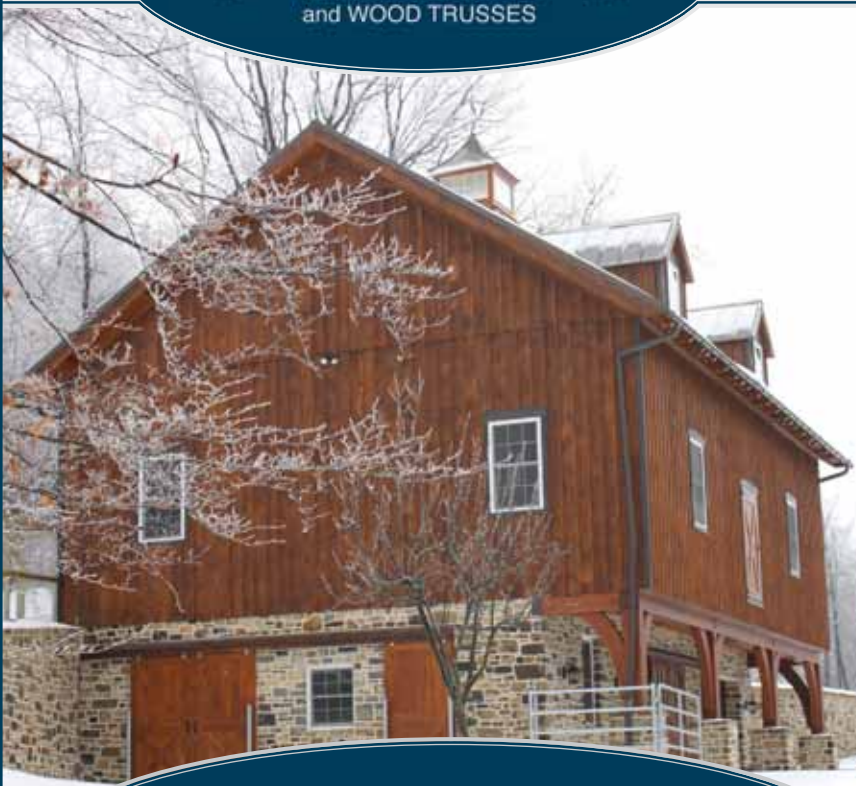
2-4. ADDED A VIRTUAL EVENT. International Roofing Expo.
www.theroofingexpo.com.

3-5. Frame Building Expo. Nashville, Tennessee. www.nfba.org.

4-9. International Institute of Building Enclosure Consultants International Convention and Trade Show. Phoenix, Arizona. www.iibec.org.

9-11. Associated Builders and Contractors Convention. Grapevine, Texas. www.abccconvention.abc.org.

15-19. National Insulation Association Virtual Spring Summit. www.insulation.org.

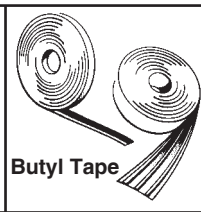
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EVENTS CALENDAR //

29-30. Associated General Contractors of America Convention. Orlando, Florida. convention.agc.org.

2021 April

10-14. Association of the Wall and Ceilings Industry Convention & INTEX Expo. New Orleans, Louisiana. www.awci.org.

19-21. National Coil Coating Association Annual Meeting. Austin, Texas. www.coilcoating.org.

2021 May

11-12. New York Build Expo. New York, New York. www.newyorkbuildexpo.com.

2021 June

3-4. NEW DATES. 2nd Annual Construction Rollforming

Show. Duke Energy Convention Center. Cincinnati, Ohio. www.constructionmagnet.com/construction-rollforming-registration.

8-10. NEW DATES. World of Concrete. Las Vegas, Nevada. www.worldofconcrete.com.

16-18. NEW DATES. The International Surface Event. Las Vegas, Nevada. www.intlsurfaceevent.com.

2021 August

10-12. NEW DATES. International Roofing Expo. Las Vegas, Nevada. www.theroofingexpo.com.

2021 October

6-8. METALCON. Tampa, Florida. www.metalcon.com. **FN**

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New Editor for Rural Builder Joins Shield Wall Media

Shield Wall Media (SWM) welcomed their newest editor, Jenn Milner, in early December 2020. Though new to the construction industry, Milner joins SWM with 6 years of magazine, publication, and catalog editing experience. She will assume the helm of *Rural Builder* magazine as Managing Editor, with involvement in new titles going forward. Milner is an astute writer and editor whose presence will continue to strengthen SWM's growing team of editors and designers.

Milner previously worked in a combined role of publications editor and product development specialist for Herrschners, Inc. in Stevens Point, Wisconsin. She is excited to return to more journalistic roots and the fast pace of the magazine world. While by no means a construction professional, Milner enjoys diving into home renovation projects, and considers herself a "demolition expert."

"I have already learned so much in my first couple of days," said Milner. "I look forward to speaking to our readers and experts in the field about the nuts and bolts (pun intended) of this multifaceted industry."

Please welcome Milner as she begins her work with SWM. She can be reached directly via email at jenn@shieldwallmedia.com or by phone at 920.659.6212.

Construction Rollforming Show: Bigger and Better in June

Regulations issued by the State of Ohio have forced Shield Wall Media to postpone the Construction Rollforming Show (CRS), which was scheduled for Cincinnati in December 2020. Several edicts were a challenge, but one we could not overcome was limiting total attendance on the exhibit floor to 300 "patrons." The State decided exhibitor booth personnel counted as "patrons"—last year, attendees and exhibitors totaled between 900 and 1,000.

Rather than offer an unsatisfactory show, the event was rescheduled to June 3-4, 2021. It's still at the Duke Energy Convention Center and the Hilton Cin-



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cinnati Netherland Plaza; publisher Gary Reichert stated that both the venue and the hotel have been extremely supportive and wonderful to work with.

While instincts might be to push forward, in this case it would not be the right move for our exhibitors or attendees. Instead, we take this as a challenge: We will make the June 2021 CRS bigger and better. Visit www.constructionmagnet.com/construction-rollforming-registration for regular updates.

Metal Roofing Alliance Calls for Strong Residential Resiliency Standards in Western States

As wildfires raged in many areas of the West, home resiliency experts said the priority moving forward needs to be on being better prepared. Except for California, which updated its residential fire codes for new construction in 2008, very few Western states have considered mandates for wildfire-resilient housing in wildland-urban interface zones. Now, leading trade organizations such as the Metal Roofing Alliance (MRA) are calling for the adoption of standards and potential incentives that could help homeowners better withstand the growing threat of wildfires in states and regions that currently have no such initiatives.

Because of the behavior of wildland fires, how a home or outbuilding is designed and constructed is the most important factor in providing fire safety. Smart mandates have the potential to help structures survive a wildfire unscathed, as proven by the California codes that require homes built in wildfire vulnerable areas to be built with fire-resistant roofs and siding, interior sprinklers, decks and patios made of non-flammable materials, heat-resistant windows, and more. Research shows that



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homes built to these codes have sustained far less damage from wildfires than homes built prior to the codes' adoption in 2008.

With a home or barn's roof being the single most vulnerable area for ignition in the event of a wildfire, materials such as quality metal roofing systems that carry a Class A rating for fire resistance are essential, yet their adoption in the West isn't nearly as high as it is in other places.

As this year's wildfire season damage on the West Coast is still being assessed, the MRA is urging the housing trade, builders, and local officials to help homeowners be better prepared for future wildfire seasons by considering the following:

- Institute fire-resistant building mandates
- Offer incentives to boost fire safety
- Provide education, resources, and information.

Report: New Home Sales "Unstoppable"

New home sales across the country were termed "unstoppable" by a top advisor for residential real estate development and new home construction. On October 22, 2020, experts at Zonda released its New Home Pending Sales Index (PSI) for September, showing pending sales increased month-over-month and year-over-year across the United States. The index is a leading

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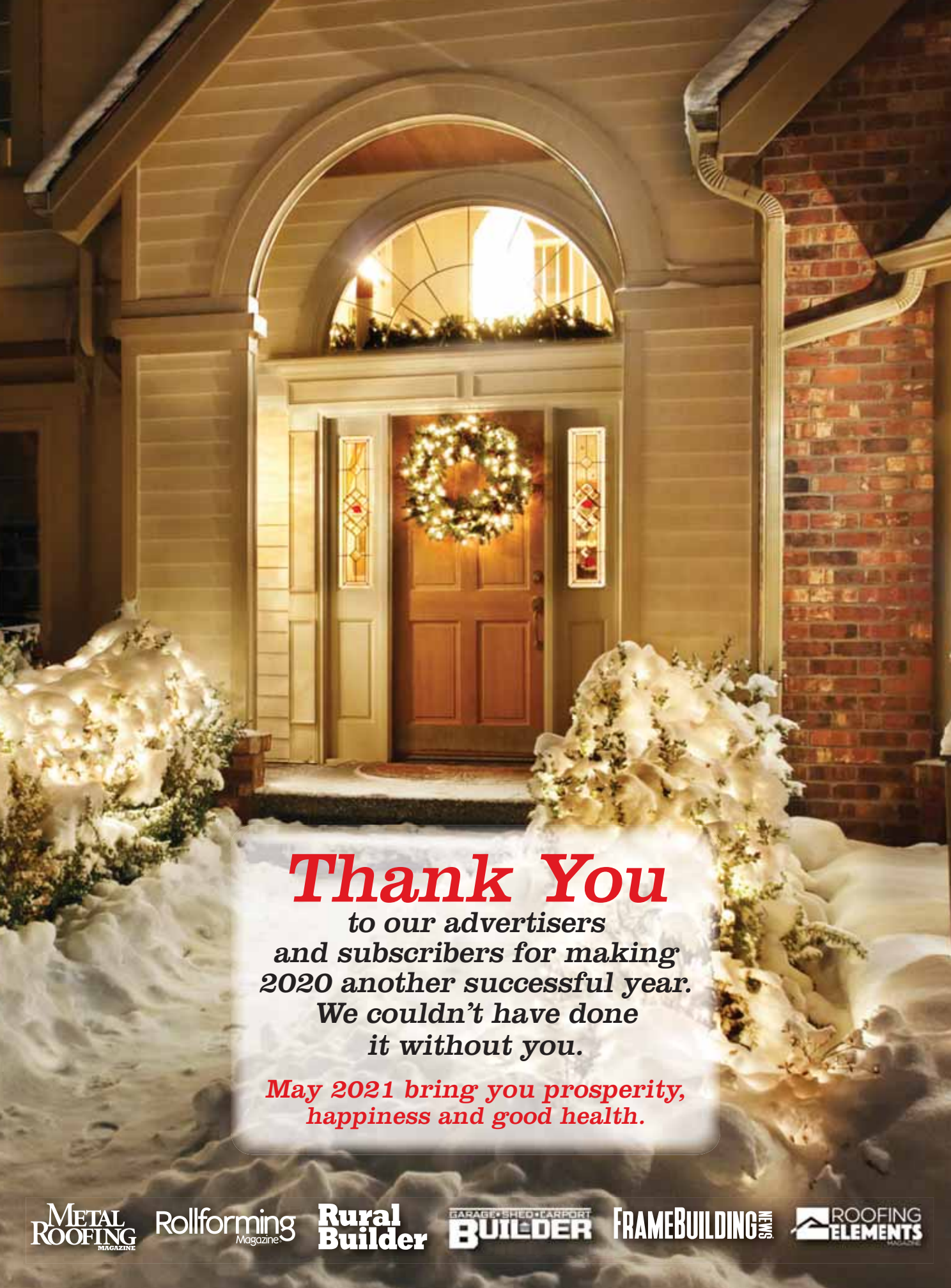
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residential real estate indicator based on the number of new home sales contracts signed across the country.

The New Home PSI came in at 170.7 for September, representing a 46.9% increase from September 2019. On a month-over-month basis, new home sales rose by 2.7% from August. September's data shows that the momentum in the housing market is showing no signs of letting up.

"The U.S. economy flipped from a service-based economy to a goods-based economy and, right now, the most desired 'good' is a new home," said Ali Wolf, chief economist at Zonda. "New home sales are unstoppable even as builders raise prices and election uncertainty heats up."

Pending new home sales trended above September 2019 levels in nearly every top market across the country.

The best new home markets in September were Denver, Jacksonville, and

Raleigh...All of these markets are benefiting from positive net in-migration and are among the top markets in the country for millennials.

"Those that are still employed are putting the economic uncertainty aside and assessing their current situation," said Wolf. "After spending more time at home for the majority of 2020, many home shoppers realized that more space or an extra bedroom would be nice, and today's low mortgage rates can help them get there."

The New Home PSI blends the cumulative sales of active or recently sold projects with the average sales rate per community, which adjusts for fluctuations in supply. Furthermore, the New Home PSI is seasonally adjusted. The index is baselined to 100 for June 2016. Today's national New Home PSI is 71% above the base level.

ABC Supply Opens New Location In Concord, North Carolina

ABC Supply Co. Inc., the nation's largest wholesale distributor of roofing, siding, and other select exterior building products, has opened a new location at 7065 Zephyr Place NW in Concord, North Carolina.

Chris Bauerle manages the new location. Bauerle has spent 17 years in the building materials industry, working 13 years for Norandex Building Materials Distribution before joining ABC Supply in 2015 when

the company acquired the business. Prior to that, he served for five years in the U.S. Marine Corps. Most recently he served as the delivery services manager for ABC Supply's Charlotte, North Carolina, location on Atando Avenue.

"We're excited about the opening of our Concord branch, which will allow us to meet the growing demands for building products and support in the greater Charlotte area," said Frank Marcoccio, Vice President of ABC Supply's Southeast Region. "Chris and his team will do a great job of ensuring that area contractors get the support they need to make their jobs easier."

Rockwool™ Expands Insulation Offerings

Contractors, designers, and installers now have expanded options when it comes to insulation for thermal and sound applications.

Rockwool, North America's largest stone wool manufacturer, has extended its Comfortbatt® line with products available in several new R-values (R13, R21, and R38), designed to provide customers with more options. In addition, Rockwool has released AFB® for wood stud applications—an acoustical fire batt that is now available in new dimensions designed for wood stud cavities. Traditionally, AFB was designed for steel stud applications only.

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Comfortbatt is a semi-rigid stone wool batt insulation for exterior wood and steel stud applications in both new construction and renovations. Rockwool now offers Comfortbatt in R13, R15, R21, R23, R30, and R38.

Comfortbatt and AFB are noncombustible and resist temperatures up to 2,150°F. They provide excellent sound absorption due to their density and nondirectional fiber structure and are uniquely durable against all forms of weather (vapor permeable, water repellent, high drying potential). Rockwool stone wool products, including Comfortbatt and AFB, are manufactured using sustainable materials like basalt rock (an abundant natural resource) and recycled steel slag.

UFP Industries Acquires Fire Retardant Chemical Technologies

UFP Industries has announced that its

UFP Retail Solutions business segment acquired the equity of Fire Retardant Chemical Technologies LLC (FRCT). Founded in 2014 and based in Matthews, North Carolina, FRCT's business includes a research and development laboratory specializing in developing and testing a wide range of high-performance chemicals, including fire retardants and water repellants. Dr. Futong Cui, FRCT's founder, President and Chief Technology Officer, will continue to lead the company.

"We have been very impressed by UFP Industries' commitment to innovating and harnessing technology to improve the quality and performance of their products," said Dr. Cui. "As part of UFP, FRCT will gain a better understanding of the needs of the market. We'll also have access to the resources we need to develop new technologies to meet those needs and bring them to market faster. With several new products

in development and nearing launch, I am excited for FRCT and the opportunities we will create for our customers."

"Dr. Cui and his team have earned the respect of everyone in the wood products industry for the technologies they have developed," said Allen Peters, President of UFP Retail Solutions. "These technologies will join our growing portfolio of products and reinforce our commitment to innovation. We expect FRCT's fire-retardant products to be among the fastest growing in the wood preservation market, as they present a compelling value compared to other fire-resistant materials in the market."

"The addition of FRCT truly reflects the diverse nature of our business and the ever-increasing importance we place on technology to innovate and bring more value-added products to our customers," said UFP Industries CEO Matthew J. Missad. **FN**



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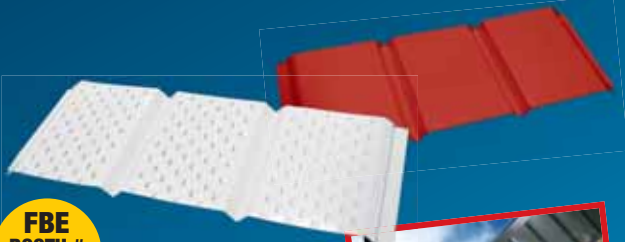


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State of the Industry

Survey results provide a glimpse into how 2020 affected the post-frame industry, as well as how 2021 is shaping up

By the time you have this issue in your hands, hopefully the chaos following the presidential election has cleared up a bit. There might not have been a quick, decisive win one way or the other, but at some point, possibly even through legal means, the new president of the United States will be declared.

The importance of election results, along with general economic recovery, were part of the concerns expressed by participants of a State of the Industry survey we conducted in November and December 2020. Titled “Post-Frame Professionals: What’s Your Business Outlook on 2021?” we share the results of the survey below.

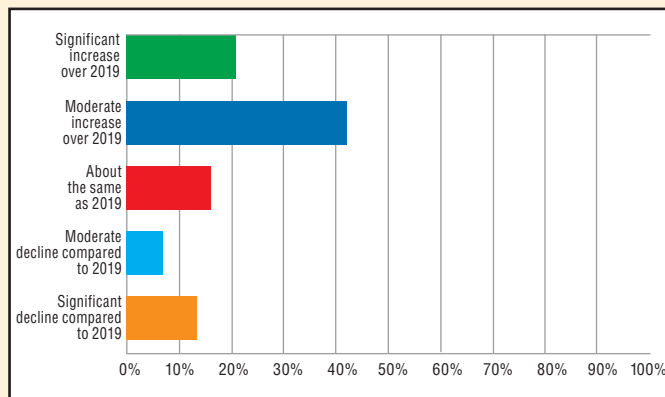
Before we continue, we’d like to share some simple demographics for those who completed the survey. Of our respondents, all are closely involved in the post-frame industry as a contractor; subcontractor; material manufacturer or dealer; architect, engineer, or consultant. Around 20% classified their involvement as a General Contractor, another 25% as a Building Materials Manufacturer, and another 20% as an Architect, Engineer, Consultant, and more. The remaining 35% was split among the few remaining options.

We would also like to thank everyone who took the survey. As we continue into the new year, we openly invite you to participate in our surveys so we can provide additional insight into the industry based on your feedback. We do so in order to provide the best information we can about the post-frame industry so it can continue to grow and expand.

And now, the results:

What type of construction is your primary business?

Agricultural.....	17.95%
Residential.....	51.28%
Commercial.....	23.08%
Other.....	7.69%



What do you expect your firm's final contract volume to be at the end of 2020 compared to 2019?

Significant increase over 2019.....	25.64%
Moderate increase over 2019.....	41.03%
About the same as 2019.....	17.95%
Moderate decline compared to 2019.....	5.13%
Significant decline compared to 2019.....	10.26%

How much work is currently in your pipeline?

We have contracts that will keep us busy throughout 2021.....	8.11%
We have contracts that will keep us busy for the next six months.....	37.84%
We are going project to project, but we're optimistic.....	45.95%
We are not busy at all and it does not look good for the future.....	8.11%

What happened to your volume of residential business in 2020?

Increased.....	52.63%
Decreased.....	15.79%
Stayed the same.....	31.58%

What happened to your volume of commercial business in 2020?

Increased.....	46.15%
Decreased.....	23.08%
Stayed the same.....	30.77%

What happened to your volume of agricultural business in 2020?

Increased.....	35.14%
Decreased.....	35.14%
Stayed the same.....	29.73%

Was there a significant change to any type of construction other than residential, commercial, or agricultural that was noteworthy in 2020?

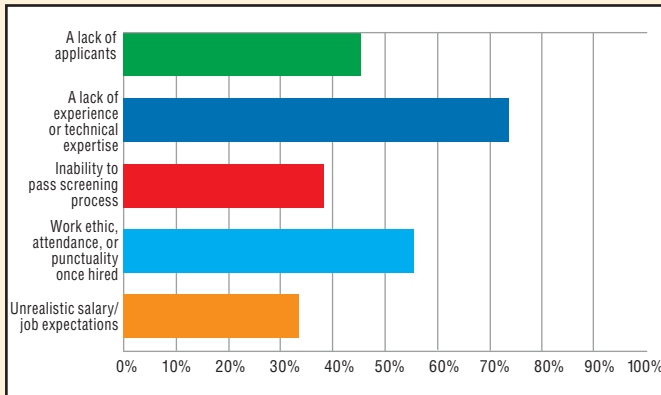
Yes.....	12.82%
No.....	84.62%

Do you have any expansion plans?

We are planning to expand our products/services in 2021 ...	33.33%
We are planning to add more crews and tradespeople in 2021	23.08%
We are planning to add equipment to improve our efficiency in 2021	20.51%
We are not planning to expand or add crews in 2021	38.46%

Do you have any problems finding or keeping good help?

We do not have any problems finding good help	7.69%
We do have problems finding good help	76.92%
We rarely look for new help, so it is not a concern	15.38%



If you have problems finding or keeping help, is your problem (could select more than one):

A lack of applicants	43.75%
A lack of experience or technical expertise in the applicants received	75.00%
Inability of applicants to pass screening process	34.38%
Work ethic, attendance, or punctuality once hired	53.13%
Unrealistic salary or job expectations	40.63%

Which had the largest impact on your business in 2020?

COVID-19 regulations and shutdowns	47.37%
COVID-19 staff and employee health issues	18.42%
Presidential election uncertainty	26.32%
Violence in metropolitan areas	0.00%
Other (collection issues and labor/material shortages)	7.89%

Did COVID-19 impact your business?

No perceptible impact	23.08%
Yes, for a couple weeks then it returned to normal	35.90%
Yes, there have been ongoing, major disruptions	38.46%
Our business closed and remains closed	2.56%

COVID-19 financial assistance:

We applied for a Paycheck Protection Program (PPP) loan, EIDL loan, or other federal program to help meet expenses during COVID-19	39.47%
We did not apply for any federal programs but did rely on other funding or financing to meet our expenses during COVID-19	10.53%
We did not need a loan or other financial assistance	50.00%

Equipment and building supply acquisition in 2021 (could select more than one), we are looking to purchase or find:

A new truck(s) or vehicle(s)	41.18%
Post setting equipment	2.94%
Work site tools and equipment	17.65%
Building design software	17.65%
Roll-forming or metal-forming equipment	17.65%
New sources of lumber, posts, or columns	20.59%
New sources of doors or windows	17.65%
New sources of nails, screws, or fasteners	8.82%
New sources of foundation products or footers	8.82%
New sources of metal panels	14.71%
New sources of ventilation or moisture control products	14.71%
New sources of insulation products	20.59%
We are not planning on purchasing any equipment or changing suppliers in 2021	32.35%
We are looking for a new source for a type of product or equipment not listed above	5.88%

Priority of Concerns

The survey included a section where respondents could select, on sliding scales, the weight of importance they gave to certain current events and issues. They are listed below in the order of importance they were given in the results:

- #1: Supply chain issues
- #2: General economic recovery
- #3: Raw material costs
- #4: The presidential election
- #5: Government regulations and zoning
- #6: Freight and delivery prices
- #7 (tie): Labor and payroll expenses
- #7 (tie): Mandated restrictions from the COVID-19 pandemic
- #8: COVID-19 health issues

What other concerns will impact your success in 2021?

Our post-frame survey provided an area for feedback on critical areas of concern. Respondents could write in their opinions regarding what concerned them the most. Again, the election had many direct references, with employee issues and the general economy high on the list. Below are some of the individual responses we received, in no particular order.

- Labor shortages and weak unions
- Supply chain issues and shipping problems
- Availability and cost of materials
- Taxes and government regulations
- Pandemic restrictions and health issues
- Trends toward a recession
- Keeping ethical business practices compared to competition

As seen throughout the survey, supply chain issues and raw material costs are problems that don't appear to be going away anytime soon. We briefly covered the lumber shortage in the November 2020 issue of *Frame Building News*, which led to a handful of reader responses. One reader pointed out that tariffs and subsidies are not only affecting the availability of lumber, but also other important goods. He aptly put it: "...lumber tariffs are not the only problem. Everywhere one looks, he can find the results of subsidies in many forms." **FN**

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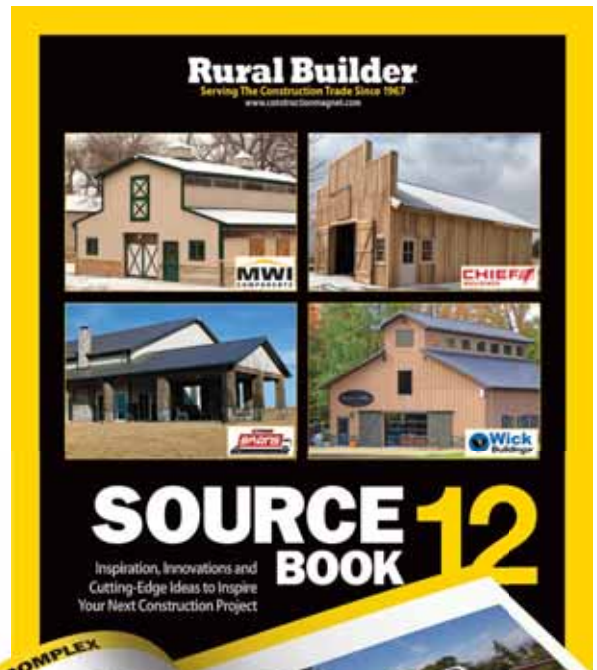
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100% Preparation Equals 0% Perspiration

Successful long-span truss installation starts with a job site storage plan

■ By Sean Shields and Jim Vogt, P.E.



The location where trusses are stored on the job site impacts the extent to which they need to be handled.

When handled and installed properly, metal plate-connected wood trusses are incredibly effective at spanning long distances while efficiently resisting intended design loads (gravity, snow, wind, etc.). The proper handling of trusses prior to their installation is very important, because significant damage may occur to wood members, plates, and joints when a truss bends out of plane—and this can affect their long-term performance (see Truss Techniques, Part 1 in the November 2020 issue of *Frame Building News* for greater detail).

Correct installation is also vital. We'll explore some best practices for common installation challenges in future install-

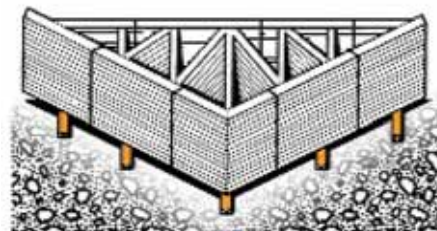
ments of this series, but it's important to address two additional topics prior to installation. One is long-span truss handling equipment, which we will tackle in the next article, and the other is truss storage on the job site.

Location, Location, Location

One of the most important factors in a successful truss installation, particularly in relation to long-span trusses, is choosing the most appropriate storage and staging location. Why? First, the location where the trusses are stored on the job site impacts the extent to which the trusses need to be handled. If you will be using a crane, the trusses should be stored and staged close enough to the building being erected that they only need to be lifted once, as they are set in place.

Requiring trusses to be double-picked (or hoisted twice) compounds the chances that the trusses may become damaged or installed out of order (or in the wrong orientation). The reason for this is because trusses are typically bundled in the order in which they are meant to be installed. Lifting and restacking bundles of trusses either reverses the intended order or requires the trusses to be scattered individually, increasing the opportunity for installation errors. Not to mention that double-picking will likely also increase the amount of time it takes to install the trusses, which in turn puts pressure on the framers to make up that time in other areas (often resulting in them pressing through other important aspects of the installation process).

If tele-handlers or other mobile equipment is used to move the trusses, the larger the distance between where the trusses are stored and staged and the new building, the more opportunities there are for damage as the equipment maneuvers over the rough terrain on the job site.



If storing horizontally for more than a week, place blocking beneath the stack of trusses.

Prepare a Way

For these reasons, it is beneficial to choose a storage and staging location for the trusses early on in the site preparation process. While there may not always be a lot of flexibility or options when it comes to truss storage on the job site, it's important to consider several factors when weighing the best possible location.

As the first section of this article points out, proximity to the installation area is likely the most important factor to prioritize. To the greatest extent possible, the trusses should also be placed in an area that does not obstruct normal traffic flow on the job site. Creating an obstacle on



Trusses should not be stored on uneven ground or leaned up against other building materials.



An example of an objectionable location for storing trusses—the ground is uneven and looks like it would collect moisture.



the job site increases the opportunity for other equipment and materials to come in contact with the trusses, potentially causing expensive damage.

Many times, long-span trusses need to be prepped prior to installation. Ensuring there is sufficient room around each truss to mark purlin locations on the top chords and/or affix T- and L-web reinforcement can speed up the process and make life a lot easier for everyone involved in the installation process.

SBCA's *Building Component Safety Information (BCSI)* handbook states in the B1 section (www.sbcindustry.com/b1): "Trusses may be unloaded directly on the ground at the time of delivery or stored temporarily in contact with the ground after delivery. If trusses are to be stored horizontally for more than one week, place blocking of sufficient height beneath the stack of trusses on 8' to 10' intervals (or as required) to minimize lateral bending and to lessen moisture gain from the ground."

While the trusses can be stored directly on the ground, minimizing lateral bending is key. This means that the site chosen for truss storage and staging needs to either be level, or blocking need to be placed on the ground ahead of time to create a level bearing area for the trusses while they are stored. Moisture gain also needs to be minimized. This means the storage area should be reasonably dry and preferably in an area that will not collect water in the event of a rainstorm.

The B1 section further states: "Trusses stored for more than one week shall be protected from the environment in a

manner that provides adequate ventilation of the trusses. If tarpaulins or other protective covers are used, the ends shall be left open for ventilation. Tight-fitting coverings are not recommended, since they can trap moisture." Excessive dirt and/or moisture gain can impact both truss installation and long-term truss performance, so it is a best practice to protect trusses from both while they are stored on the job site.

Important Truss Storage Considerations

- 1 Plan a location that eliminates the need for double-picking.
- 2 Properly prepare and level the truss storage location.
- 3 Communicate early and often with the truss delivery driver.

Communication Is Key

Of course, all the site preparation and planning done ahead of time goes to waste if it isn't communicated effectively to the person delivering the trusses. In most cases, the individual delivering the trusses has never been to the job site before they show up. It may or may not be clear to them where traffic naturally flows throughout the job site. It may also be unclear where rainwater is most likely to collect, creating troublesome puddles and mud. They are also unlikely to know the equipment that will be used to handle trusses on the job site or the hoisting radius of the crane be-

ing used to set the trusses in place. Finally, they will not know how long the trusses will need to be stored prior to installation.

In short, it should not be left to the person delivering the trusses to choose where they should be stored and staged on the job site. The earlier in the process the truss storage site is chosen, the easier it is to not only flow the rest of the job site around it (e.g., not storing other building materials in the same location that will then need to be moved upon the truss delivery), but also communicate that location to the person delivering the trusses.

While a phone call ahead of delivery will likely suffice in some instances, there are several other best practices that can be employed to ensure there isn't any confusion at the time of delivery. The easiest, when possible, is to take one or more photos of the job site and send them to the driver ahead of time. Outlining the area with a few stakes or marking spray paint on the ground can also ensure the trusses are placed as close as possible to the predetermined spot. A quick sketch of the job site, with the truss storage area clearly marked, can also be photographed and sent ahead of time.

The Bottom Line

A little forethought about the best location to store trusses on the job site can have a significant impact on not only how well their installation goes, but how well they perform over the long term. Having a solid storage plan is good. Communicating it effectively to the person delivering the trusses ahead of time makes the plan even better. **FN**

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Nails From A to Z

Galvanizing methods, shank types, testing, and more

Information Provided by Maze Nails

Fasteners: They might be the smallest part of a post-frame build, but they are arguably one of the most important aspects. They are the “glue” that holds everything together and without them, the structure would come tumbling down. Most of the wood portions of a post-frame building are fastened with nails—choosing the right nail for the job may seem like an easy thing to do but, as shown on the facing page, there are many options that can be taken into consideration. Here we will discuss the main varieties used for post-frame.

Plating/Galvanizing Methods

What are the different types of gal-

vanized nails on the market, and what will assure a rust-free build for years to come? To start, galvanizing is the process of applying a zinc coating to a base of steel, with the end goal of preventing rust. Rust occurs when the iron molecules in the steel come into contact with oxygen or moisture, which naturally are found in and around every single building.

It's *how* the zinc is applied to the nails that's so exceedingly important. The performance of different kinds of zinc-coated nails varies tremendously—just ask any contractor or dealer who has been called out on nail-staining complaints.

For dependable corrosion-resistance, steel base nails rely on two critical zinc



PHOTO COURTESY OF MAZE NAILS

factors: thickness and uniformity. There are four major processes for applying zinc to steel nails:

1. Hot-dipping: In this process, the nails are completely immersed into a vat of molten zinc, similar to french frying potatoes. This not only gives an outer coating of pure zinc, but also provides a tenacious inner coating of zinc-steel alloy. Some varieties of nails are double hot-dipped for a second protective coating of zinc to preclude pinholes or imperfec-

NAIL TERMINOLOGY

HEAD

Round metal piece formed at the top of the nail.

SHANK

The length of the nail between the head and the point.

POINT

Sharpened end opposite the head for ease in driving.

GAUGE

Referencing the thickness of a nail. Lower numbers indicate greater thickness.

1" = 2d	4	.225"	7/32"
1 1/4" = 3d	5 1/2	.200"	13/64"
1 1/2" = 4d	7	.177"	11/64"
1 3/4" = 5d	8	.162"	5/32"
2" = 6d	9	.148"	5/32"
2 1/4" = 7d	10	.135"	9/64"
2 1/2" = 8d	10 1/4	.131"	1/8"
2 3/4" = 9d	11	.1205"	1/8"
3" = 10d	11 1/2	.113"	7/64"
3 1/4" = 12d	12	.1055"	7/64"
3 1/2" = 16d	12 1/2	.099"	3/32"
	13	.0915"	3/32"
4" = 20d	14	.080"	5/64"
	15	.072"	1/32"

LENGTH

Distance from the bottom of the head to the point of a nail.

RIGIDITY

The bending and shear resistance of a nail.

Regular Steel Stock
Low to medium carbon content - standard type of wire rod used in fastener manufacturing.

Stiff Stock
Higher carbon content steel - harder and stiffer than regular stock to prevent bending when driven into hardwoods.

Tempered Hardened Steel
High carbon content steel is used to make the nail and then the nail is heat treated, which provides even better resistance to bending.

Nail Heads



Flat head - Most common nail head. Provides large surface area for greater holding power.



Large flat head - Larger than standard head, usually more than 3 to 3-1/2 times the shank diameter. Provides greatest surface area for ultimate holding power. For applications such as sheathing and insulation.



Checkered flat head - Helps to stop slippage of the hammer on the head with applications such as framing, where excessive hammering may take place. Improves paint adhesion.



Countersunk head - Conically shaped bearing surface, which compresses the surface of the material under it as it is driven. Aids in concealment of the fastener head.



Deep countersunk head - Reduced holding power, but increased concealment of the fastener head. Used primarily on casing nails.



Brad head - Deep, circular, barrel-shaped head. Reduced holding power, but increased concealment of the fastener head. Used primarily with finish and trim work.



Duplex head - For temporary nailing jobs, such as scaffolding and concrete framing.



Cupped head - Concave or recessed top surface to accommodate material to aid with concealment. Used primarily with drywall fasteners.



Oval head - Used in certain geographic areas primarily with siding to avoid contact between the hammer and the siding.

Nail Shanks

Smooth - Most common for everyday projects. Provides the least amount of holding power.

Ring/Annular thread - A series of closely spaced concentric rings around the shank. Nail does not turn when driven; instead, the wood fibers are forced over the ring shoulders into their annular grooves like wedges. Gives the greatest holding power in soft or medium woods.

Screw/Spiral - Designed to drive into hard woods and dense materials. Nail actually turns when driven, much like wood screws. Very good holding power.

Ardox® - Designed to drive into hard woods and dense materials. Square wire is twisted to form the spiral shank, which results in the threads reaching all the way to the head of the nail. In comparison, most nails are made from round steel wire and the spiral or ring shanks are actually cut into the wire.

Barbed - Horizontal or herring-bone indentations in the shank. Relatively better hold than smooth shank, but far less than a comparable threaded nail.

Fluted - Vertical thread for driving into cinder block, mortar joints, or other relatively soft masonry to minimize cracking and provide high holding power.

Nail Points

Diamond point - Most common nail point. To avoid splitting wood, best for medium to soft wood.

Long diamond point - For use with drywall. Eases driving into harder materials.

Blunt point - Reduces splitting, but not as easy to drive as a diamond point.

Origin of "PENNY-WISE" Nail Designations

There are two explanations for the English "penny" system for designating nail lengths. One thought is that one-hundred eight penny nails cost eight pence, one-hundred six penny nails cost six pence...etc. The other theory is that 1,000 eight penny (8d) nails weighed 8 pounds, 1,000 six penny (6d) nails weighed six pounds...etc.

The "d" abbreviation for penny (8d for example) has its roots in the "denarius" - the popular coin of ancient Rome.

Nails used for wood-to-wood applications (such as wood siding, cedar shingles, cedar shakes, etc.) are traditionally referred to by the "penny" designation, i.e. 5d, 6d, 8d... However, nails for non-wood applications, such as fiber cement siding, metal roofing, asphalt shingles, cellular PVC trim, etc. are often specified by their length in inches.

What About Stainless Steel?

While many associations specify galvanized nails, there are certain applications where stainless steel nails are preferable:

- Marine environments (within 5 miles of the seacoast)
- Cedar and redwood products (siding and decking), where the wood is left natural or treated with a clear wood finish.
- Severe or corrosive conditions, such as fertilizer storage buildings, salt storage buildings, hog confinement buildings, etc.



PHOTO COURTESY OF MAZE NAILS

tions, and to increase the amount of zinc on every nail.

2. Tumbler or hot-galvanizing: Also known as barrel-processing, these nails are the type most often produced by big steel mills. Hot-galvanized nails are coated by sprinkling zinc chips on cold steel nails in a barrel, then rotating the hot barrel in a furnace to melt and distribute the zinc. The melting zinc “washes” onto the nails—somewhat like buttering popcorn—and in the same way, the coating can be inconsistent. One issue with this method is that the threads of ring and screw shank nails can fill up with zinc

during the process, causing them to not function as intended when driven.

3. Mechanical-galvanizing or peen-plating: This method is a relatively new development involving rolling cold nails around in a barrel with zinc dust, tiny glass “BBs,” and an activator fluid. The barrel rotates and the BBs hammer or peen the zinc dust onto the nails. This results in relatively clean threads but normally only a thin deposit of zinc, which is further buttressed by immersion in a chromate rinse.

4. Electro-galvanizing or electroplating: This method uses electricity and zinc anodes to put on a beautiful, shiny coat-

ing—which is also very thin. Electroplating of nails is performed by placing them in a basket, then into an electrolytic solution so that a thin film of zinc is deposited by an electrical current from zinc anodes onto the surface of the nails. Although electroplated nails are beautiful and shiny, it is not feasible economically to build up a heavy enough coating to make this type of nail dependably corrosion-resistant for outdoor use. The thin zinc coating soon oxidizes away, causing electroplated nails to rust quickly upon exposure to the weather...just ask any experienced siding applicator. In short, plated nails have good holding power from clean threads, but they do not have the heavy zinc coating needed to avoid rusting and staining.

Whatever type of nail is used in your specific application, it doesn't pay to skimp on the nails—cheap nails that rust can be a real heartache down the line for both builder and homeowner.



PHOTO COURTESY OF WICK BUILDINGS

WARNING:

Milled face hammers are not recommended for driving galvanized nails. The highly abrasive surface of the hammer-face may compromise the integrity of the zinc-coating on the nail head, reducing its corrosion-resistance. Smooth face hammers are recommended.

Shank Differences

When should you use a nail with a ring or screw shank? Smooth shank nails are easy to drive—but they don't offer much holding power. For that reason, Maze Nail engineers set out to design nails that would hold tighter in all sorts of construction applications. Their mill designed and produced the first spiral shank nails—also called screw thread or “drive” nails.

These nails have a spiral thread, which causes them to turn when they are driven—much like wood screws—and they actually form their own thread in the wood fibers. They offer good holding power and are specifically designed for use with hardwoods and dense materials. Flooring, siding, decking, pallets, and truss rafters are typical applications for spiral shank nails.

A division of Maze Nails also developed

an annular (or ring) thread on their nails that provided even better holding power in many applications. Referred to as ring shank, the threads on these nails separate the wood fibers—which then lock back into the rings—thus resisting removal. Ring shank nails are widely used in plywood, underlayment, decking, siding, and roofing applications.

A third type of threading, typically found on masonry nails, is a fluted shank. This thread style gives those specialty nails excellent holding power in concrete block and masonry applications. The horizontal threads “cut” the masonry to minimize cracking.

Field Versus Lab Testing

When choosing the right nail for each job, how much faith can be put into testing? Lab tests are great...for some things.

But not when it comes to evaluating the rust-resistance of one type of nail compared to another type. Some lab tests, especially “salt spray,” can't accurately simulate true weathering conditions for nail applications of roofing, siding, and trim.

For example, under the abnormal lab conditions encountered in the salt spray test, the typical “reaction product barrier” that protects hot-dipped nails is not allowed to form as it would in the “real world.” It is this oxidation barrier that allows hot-dipped products to resist nature's attacks—and ensures long-term corrosion protection. Salt spray testing doesn't allow this important layer to form—resulting in misleading results.

Before you choose nails based on lab tests, ask for more information about the true tests—actual field experience and number of callbacks. **FN**

Nails or Screws? Making the Right Choice

Provided by Wick Buildings

To guarantee quality in your post-frame construction, the devil is in the details. The use of nails versus screws in your building is a perfect example. Knowing when, where, and why each fastener should be used is yet another step toward assuring you get the most bang for your buck.

Screws, without a doubt, provide a more secure connection. Nails, however, are less expensive and faster when using nail guns. Both screws and nails have their place in post-frame:

1. Wood-to-wood (using nails “under” the steel): Whether you're applying nails or screws, the goal is to provide enough shear strength to support wind and snow loads. Nails, when applied in the correct manner and number, can provide the necessary strength. They are best used in three specific areas “under” the steel that wraps the structure: girts to columns, purlins to trusses, and bracing.

2. Steel-to-wood (securing your steel structure): Always use screws to attach your exterior steel siding to a structure. Standard steel siding screws provide over twice as much pullout resistance as nails.



PHOTO COURTESY OF WICK BUILDINGS

On the Other Side of Chapter 11

Navigating through a supplier/customer's financial and legal woes

■ By Gary Reichert, Publisher, Shield Wall Media

This has been an interesting year. Even if everything goes smoothly for the next few months and the world transitions back to “normal,” there will be long-term changes to the business climate and society in general. Anyone who has ever spoken to me knows I am not bright enough to predict what those changes will be, but smarter people have predicted a future that makes sense.

According to the *Wall Street Journal*, companies borrowed heavily to survive the stress from COVID-19 and will start to feel the pressure of the increased debt load in mid-2021.

A lot can happen between now and six months from now, but experts are predicting an increase of up to 25% in Chapter 11 filings. Having witnessed two such filings recently, both on opposite sides of the filing, there is some real-world insight I would like to share.

Obligatory disclaimer: I am not and never wanted to be a lawyer. The follow-

ing are reflections from my recent personal experiences, nothing more. This does not constitute legal advice. All situations are unique, and my experiences may or may not apply to your situation. Any decisions you make are yours, and you assume all the risks and benefits associated with them. Maybe I *should* have been a lawyer...

Bankruptcy: One Size Does Not Fit All

Before discussing my personal experiences, we should explain the differences in types of filings commonly referred to as Bankruptcy.

Chapter 7 is a liquidation of assets by the court. This most often applies to individuals, but can be applied to businesses when the business has no future prospects



Chapter 11 is a reorganization. Reorganization can take many different forms. Debt facilities may be renegotiated, non-performing divisions or assets may be disposed of, or sometimes divisions are pieced out and sold at auction.

Variables to Consider

business associate's bankruptcy are vastly different based on your relationship with the company. If you *buy* products or services from the company, there is an excellent possibility you won't notice any changes in operation. If you *sell* product to the company and they pay you, the differences can be striking.

In many instances of Chapter 11, the end result is the acquisition of the company or part of the company by new owners. That is what happened when Shield Wall Media acquired the Construction Division from F+W Media.

When the change in ownership occurs, one of the documents that must be approved by the court is the Assignment and Assumption Agreement. This agreement details everything that will be transferred (or not transferred) to the new owners.

with existing vendors and customers. Typically, the new owners will keep the agreements that generate revenue, leave, or attempt to renegotiate the debt obligations.

If you sell products or services to the company, there are two basic considerations: recouping what you are owed from the old company, and maintaining the relationship with the new company.

Being owed money you cannot collect can be emotional. There are feelings of being cheated and it is not fair for someone to not honor their obligations. If the business going through Chapter 11 owes you money, watch the court filings closely. It is critical that you comply with the dates provided by the court. Typically, the company will continue operations during the Chapter 11 process. Ceasing operations decreases the cash flow and value of the company, which benefits no one.

Have A New Product?

If your company has developed a new product for builders or contractors, email a new product announcement to one of the contacts listed below for possible publication in the Construction Magazine Network.

Include a clear, high resolution image of the product (no logos or advertisements), along with a brief description of your product and the problems it solves.

Submission is not a guarantee of publication. We reserve the right to edit all submissions for content, length, and clarity.

Rural Builder: Garage, Shed & Carport Builder: Karen Knapstein – Karen@shieldwallmedia.com

Frame Building News: Metal Roofing Magazine: Roofing Elements Magazine: Jessica Franchuk – Jessica@shieldwallmedia.com

Rollforming Magazine: Sharon Thatcher – Sharon@shieldwallmedia.com

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ing takes effect, the court will often allow the business to pay for goods and services for ongoing operations. If an invoice arrives before the date, it will be included in the settlement and payment will probably be delayed until the filing is resolved. If the invoice goes in after the filing date and is considered necessary for continuing operation, it should be paid promptly, as payment is overseen by the court. Monitoring invoice dates may be the difference between getting paid promptly and not getting paid at all.

When deciding if you will maintain a relationship with the new owners, the first decision is based on whether you believe the business will be viable in the future. If any operational challenges are fixed with the new ownership, it may be worthwhile to continue. Remember, you both have the option to renegotiate pricing and payment terms for the ongoing relationship. As a vendor, this is a great opportunity to develop that relationship. A business has many moving parts. All of the vendors need to be confirmed or replaced.

Staff, resources, and real estate all need to be evaluated in a Chapter 11. This often has a time line of 30 to 60 days. Those tasks are in addition to maintaining operations and working through the legal maze surrounding Chapter 11 and buying a business. If it is a small company, they will want to—or need to—maintain many of the existing relationships for expediency. If you want to keep their business, the best thing you can do is make the transition simple. The new owners will probably be grateful to check items off of their lengthy to-do list.

If you buy from the company negotiating Chapter 11, you can mostly disregard the court notices. The dates and updates are mostly insignificant. One item to consider is: Everyone doing business with the company filing Chapter 11 receives the court notices. They are also a matter of public record, so the company's competitors receive them as well. Often competitors will call and try to put their own spin on the process. One of Shield Wall Media's largest and most critical vendors just went through a Chapter 11 process. I received calls from more competitors than I knew existed. I filed them away in case I needed



them in the future, but otherwise gave them little time and attention.

One reason the competitors were dismissed was the company working through Chapter 11 helped us negotiate the tasks required when we bought the Construction Division that became Shield Wall Media. They took that opportunity to be a resource, and it benefited them in the future.

Negotiating Terms and Commitments

If you *buy* from the company, one area of legitimate concern is their ability to meet their commitments. There are two primary aspects to this risk: their ability to deliver in a timely manner, and your payments for products or services.

If you have net 30 or other payment terms, the money is a non-issue. Since payment isn't due until after delivery, if they do not deliver, you do not pay. There is no downside risk to you based on non-performance. I dealt with this on a daily basis with advertisers asking what would happen if we went out of business. The answer was simple: Advertising is not considered as revenue until the issue prints and mails. If the issue you advertised in never mailed, there is nothing earned and nothing owed. It would be the same with products. If it's never delivered, you would never owe anything.

I would be extremely hesitant to pre-pay or put a deposit on an order from a company going through Chapter 11. Operation is overseen by the courts, yet even in the best-case scenarios, if they cannot

deliver product, your money is tied up for a while. You will probably get your deposit back someday, but personally, I would not take the chance.

Timing is a different consideration, and requires some research. The ability to pay bills can affect any company's relationship with their vendors and suppliers. Suppliers will often change terms for customers who pay slowly or present collection challenges. If a company cannot get raw materials, it obviously will disrupt their supply chain and create delays. A delay in *their* production becomes a delay in *your* production.

Usually that is not the case, and that is one of the reasons the court allows and oversees payments of invoices after the filing. In my personal experiences, this has not been a concern. But for critical components, I would have a backup waiting.

The one thing to remember is Chapter 11 does not mean the company is being liquidated and going away. The end result could be something that the outside world would never notice, or it can end in a complete change of management or ownership. The new owners could decide to liquidate, or they could grow like we have at Shield Wall Media. When we went through the acquisition of a company from Chapter 11, we did not miss a single issue. We came out of the process launching a new show and new magazines.

In any result, caution is appropriate and redundancy is good, but a critical partner going through Chapter 11 is not a reason to panic. **FN**

LOOKING AHEAD...

FRAME BUILDING NEWS

From the publishers of *Rural Builder*, *Metal Roofing Magazine*, *Rollforming Magazine*, *Garage, Shed & Carport Builder* and *Roofing Elements Magazine*

In *Frame Building News*, the focus is exclusive to the information needs of post-frame builders. Industry professionals know the content we deliver is created especially for them and offers solutions they can easily implement.

APRIL

- **Editorial Feature:** Building of the Year
- **Ad Deadline:** March 8

JUNE

- **Editorial Feature:** Post Frame Directory, Product Profiles
- **Ad Deadline:** May 21

AUGUST

- **Editorial Feature:** Regional differences in wood types
- **Ad Deadline:** July 16

NOVEMBER

- **Editorial Feature:** Ag and Farm Products
- **Ad Deadline:** October 4

JANUARY 2022

- **Editorial Feature:** FBE Exhibitors • New Products
- **Ad Deadline:** December 3



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Laminated Columns

What every post-frame builder should know

■ By Sharon Thatcher

The single most important element to a building's foundation is its columns. They're the legs that hold the building upright. As post frame has evolved, it's only natural that methods to improve the strength of those legs would be part of its evolution.

For a comprehensive explanation of laminated columns, the second edition of the *NFBA Post Frame Building Design Manual* contains a chapter by David R. Bohnhoff, Ph.D., University of Wisconsin-Madison. Bohnhoff has been breaking columns in the name of science since the 1980s. In fact, he got the Ph.D. behind his name after writing his doctoral thesis on laminated columns, which led to the standards for design and manufacturing of mechanically laminated columns.

Frame Building News offers a more generalized explanation here, relying on NFBA members who have embraced the technology in manufacturing, along with other industry insiders.

There are many ways to laminate columns, but the industry keeps them confined into two basic categories: mechanical fastened (mechlam) and glue laminated

(glulam). Mechlams utilize nails (a popular type of mechlam called nail-lam) and/or other mechanical fastener components (screws, bolts, and/or metal plates) while, as the name implies, glulam utilizes glue or a glue-like adhesive.



Bohnhoff's chapter 8 clearly defines each and breaks down all the variations of mechlam. Because nail-lam and hybrid versions of nail-lam (including the use of both nails *and* glue) are the most recognized mechlam products in use today, this article makes use of the commonly used

term "nail-lam."

Arguments rage over which is best, but properly manufactured, both nail-lam and glulam trump solid-sawn timber in certified testing labs for consistency of strength, straightness, and uniformity of preservative treatment.

A glulam typically has good bending strength regardless of which column face is loaded, so it has advantages in applications in which the column does not have lateral support like that provided by wall girts. Such is the case with many interior columns and columns supporting the open side of a building. Nail-lam columns can be used in such applications, but typically need additional bracing such as faceplates to prevent buckling or bending around their weak axis.

The environmental and economical advantages of laminated columns were addressed in an article, "Engineered Wood Products STRETCH Post-Frame Possibilities" by Robert Clark, APA, Engineered Wood Association, which [at the time of publication was] housed on the NFBA website. "Engineered wood posts can use smaller diameter trees harvested from a managed forest dried to a low moisture content," he wrote. "These dimensionally

stable products resist deformations such as warping and twisting. And, because of the dispersal of natural growth characteristics such as knots and wane, they exhibit superior strength over solid-sawn posts.”

Just as today’s solid-sawn timbers, laminated columns are treated for preservation to endure the ravages of natural deterioration. While some manufacturers treat the entire finished post, many manufacturers treat the individual laminations prior to gluing or nailing. In this method, typically only the lower section of the post that will be installed in the ground is preservative-treated, which can be cost-effective and provide increased chemical coverage area at the interior of the post.

If you are considering the switch from solids to laminates, or you are questioning your choice of lamination, Dale Schiferl of Timber Technologies, Colfax, Wisconsin cautions: “Not all laminated columns are created equal.

“I have seen about a dozen different ways to ‘lamine’ a column in the past

20 years,” he said. “Everything from truss plates, to nails, to finger joints, to butt joints, to construction adhesive with nails, to gusset plates, to screws, to wire rivets, to bolts, and totally glue laminated. I have also seen a wide array of lumber utilized, from the highest grade of MSR and Select Structural lumber to the lowest grade and species of #2. Unlike other structural wood components, column manufacturing is like the Wild West, standards are not enforced. Basically everybody does what works best or cheapest for them.”

A lot of engineering goes into the proper design of laminated columns, Schiferl went on to note. “It should be important that specifiers and builders understand there are ‘standards’ to how columns are built up, be it nails or glue, and they ask for some verification that the products they are using follow the standards. The standards were established through testing by smart people like Dave Bohnhoff and Harvey Manbeck and through efforts of the NFBA. It does not make it OK to

build up a column however one chooses just because the standards are not enforced,” he said.

Mike Burkholder, P.E., Ohio Timberland Products (OTP), Stryker, Ohio, echoes that sentiment. His company has been making nail-laminated columns for more than 20 years. Although he explained that, “there had been people nailing boards together for years,” Ohio Timberland Products began testing at Virginia State University in 1994 in the lab of Dr. Frank Woeste. By then, Bohnhoff was testing nail-lam and eventually created what Burkholder calls the “Bible” or “Genesis” of standards for the industry, but as far as developing its own production standards, OTP blazed its trail through the Woeste lab.

The price of laminated columns is one that arises on a daily basis for laminated column manufacturers like Elmer Sensenig, Richland Laminated Columns, Greenwich, Ohio.

“Laminated columns are very compa-

From the Archives: Top 10 Articles of 2020



Several of the magazines in Shield Wall Media’s collection have lengthy histories, some even spanning more than 50 years. Our website, www.constructionmagnet.com, hosts thousands of articles from our expansive archives (with plans to revamp the site in the near future for easier browsing).

We combed through the data of our most frequently read and searched for articles in 2020 to find those that are likely to contain the most useful, timeless information. We share the number-one article here, with others featured in upcoming issues. If you have your own set of print archives, add the Top 10 Articles of 2020 at right to your reading list.



- 1** “Laminated Columns: What Every Post-Frame Builder Should Know”
Frame Building News, June 2015, page 8
- 2** “Drip Edge: Is It Really Important on a Metal Roof?”
Metal Roofing Magazine, February/March 2020, page 62
- 3** “Post-Frame Buildings and the International Building Code”
Frame Building News, August 2015, page 20
- 4** “Going Residential: Market for Post Frame Starts to Build”
Frame Building News, August 2017, page 30
- 5** “Don’t Get Snowed: Top Four Snow Retention Mistakes—and How to Avoid Them”
Rural Builder, December 2011, page 18
- 6** “Gutter Opportunities: Size Still Matters—
Two Installers Share Their Thoughts on 5-, 6-, and 7-Inch Gutters”
Special flip section of *Metal Roofing Magazine*, July 2013, page 4
- 7** “Special Touches for Horse Barns: Ideas to Spur Your Imagination”
Frame Building News, August 2018, page 24
- 8** “Are You Ready to Roll Your Own? Metal Roofing Panels, That Is”
Metal Roofing Magazine, June/July 2014, page 26
- 9** “Gutter Opportunities: Growing Your Gutter Business—
Selling Seamless Gutter and Turning a Profit”
Rural Builder, May 2010, page 49
- 10** “Sealant: A Critical Step in Metal Roofing”
Rural Builder, March 2015, page 10

rable [to solid-sawn columns],” he tells his customers. “For 20’ and longer, they’re actually less costly than a 6” x 6”. The shorter you go, 14’ to 16’, the laminated columns are a little bit more.” Because builders typically need a combination of sizes, Sensenig stressed, “price is normally not an issue because it averages out.”

Some builders use so many laminated columns of varying lengths that it pays to invest in their own machine. Semmler Systems caters to this group. Owner Jim Semmler is now in the third generation of his Big Red column laminator and he sees three basic customers looking to buy their own: larger contractors who need a variety of column sizes and don’t want to be delayed by shipping problems or quality control issues that are beyond their own control; builders who have found a regional market for laminated columns and have transitioned out of construction to become suppliers; and truss plants that are already set up in a fabrication mode and find it a natural ex-

pansion of their product lines.

“I had one sale on the Big Red because the glulams were delaminating. Now he builds as he needs them and he doesn’t have to rely on glulams that have manufacturing issues.”

To assist companies that have no in-house engineers to assure quality control, Semmler has developed a guide that explains how to manufacture laminated columns to specification. His brand of laminated column is a hybrid between glulam and nail-lam that falls under the mechanical fastener category.

There isn’t anything too complicated about installation. The treated end goes into the ground, and the column is turned so edges between laminations are visible when viewing either the outside or the inside surface of the column. Occasionally a builder will rush and get it wrong, compromising column strength.

Sensenig also recommends girts every 3’ for support against buckling. “Nail-lam columns are not designed to be like a

flagpole,” he explained. “They are an engineered product.”

To help hoist laminated columns, builder Scott Cook, Champion Steel Buildings, invented The Brut Post Grabber. A universal plate attaches to any skid steer or other steel loader and takes the manhandling out of the task of installation.

Cook grew up around the business, but didn’t get serious about creating a better solution until he had his own company.

“I started scratching on a napkin three years ago and made a few different designs, then I created the prototype. After using it and having other guys using it and liking it I decided, hey, I have to share this with others. Now I have a patent pending.”

Cook said that post-frame companies are purchasing The Brut Post Grabber for their crews to help avoid injuries on the job, which didn’t come soon enough for Cook, who now suffers back injuries from all those posts he hoisted before he created the innovative product. **FN**

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The first annual trade show plans for success

The inaugural Garage, Shed & Carport Builder Show, planned for February 4-5, 2021 at the Century Center in South Bend, Indiana, is on target to be a winner. See the following pages for a preview of the show's exhibitors, a collection of new products to be found on the show floor, and a roundup of family-friendly things to do in the surrounding city limits.

Stay tuned for updates on the show at www.constructionmagnet.com. For information on securing your own booth and exhibiting at the show, contact Gary Reichert at gary@shieldwallmedia.com or 715.252.6360. We hope to see you there!

The Century Center: An Idyllic Riverfront Setting

The Century Center, the anchor of the South Bend convention district, is playing host to the 2021 Garage, Shed & Carport Builder Show. Designed by noted post-modern architects Phillip Johnson and John Burgee, the Century Center draws inspiration from the beautiful Saint Joseph River flowing northwest through South Bend into Lake Michigan.

The body of the building, composed of 1.2 million bricks, presents a clear contrast



to the three-story glass and metal-framed Great Hall that rises from the riverbank. This bright, innovative space welcomes guests and gives them a notable place to return after exploring the skylight-covered walkways of the convention center.

Along with a collective 100,000 square feet of dynamic meeting and event spaces, the Century Center boasts two theaters and the stunning Island Park & Pavilion, an outdoor park and concert space perfect for all sorts of outdoor events or just relaxing by the water.

From the Great Hall and Island Park, visitors can look out on the Saint Joseph River as it bubbles over a waterfall and continues upstream. At night, the Century Center provides an exquisite view of the River Lights installation (above). Two interactive light sculptures on opposite banks are connected by a third sculpture in the center of the river. Special motion

sensors prompt the lights to change color and pattern as visitors pass by. Reflecting off the water and the large glass windows of the Great Hall, the lights are a must-see experience for all South Bend visitors.

Attendees and exhibitors of the Garage, Shed & Carport Builder Show are invited to reserve a room in the recently renovated DoubleTree by Hilton Hotel, conveniently connected to the convention center by the Green Sky Bridge, a climate-controlled herb garden walkway that is both an aesthetic bonus and representative of a larger commitment by the Century Center to existing sustainability within the community.

More than a convention center, the 11-acre riverfront park where the Century Center sits has everything you need for a fantastic Garage, Shed & Carport Builder Show stay, but don't let that stop you from exploring everything beautiful South Bend has to offer. **FN**

GARAGE • SHED • CARPORT BUILDER SHOW



The First Annual Garage, Shed & Carport Builder Show, sponsored by *Garage, Shed & Carport Builder Magazine*, takes place Fall / Winter, 2021, at the Century Center in South Bend, Indiana



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For over 25 years, DRIPSTOP has been the absolute best way of dealing with condensation on non-insulated metal roofs. It has been tried and tested in every climate condition across the globe and has proven to be a simpler and more economical way. The membrane will absorb the water caused by condensation, thus preventing dripping from the roof. DRIPSTOP serves as an added layer of protection for the metal in corrosive environments while also improving inside and outside acoustic properties. Both impact and echo noises are reduced significantly.

Electro Works

Booth #401

4136 E. 550 N.
Rochester, IN 46975
574.223.5245
574.223.3877 (fax)

Electro Works is your supplier for DeWalt, Milwaukee, and Makita power tools. We carry impact drills, saws, woodworking and construction tools, and much more. We do our best to provide our customers with the tools they need to get the job done and the best service possible.

EXHIBITOR PROFILES

FREE STATE LUMBER COMPANY, INC.



Free State Lumber Co.

Booth #417

41542 Highway 195
Haleyville, AL 35565
205.486.5287

Since 1973, Free State Lumber has supplied customers with quality products in a timely manner, contributing to its success. Free State has many years of experience supplying a variety of materials to distribution facilities, retailers, post-frame, agricultural, and shed builders. It has one of the largest inventories in the Southeastern U.S. and offers CCA and MCA treating; custom millwork (a variety of tongue-

and-groove patterns) on 2' and 3' lumber; precision end trimming; custom re-sawing; dado-joined 4" x 6" runners for buildings; from 1" x 4" boards to 12" x 12" posts.



Graber Post Buildings, Inc.

Booth #218

7716 N. 900 E.
Montgomery, IN 47558
www.graberpost.com
info@graberpost.com
800.264.5013

812.636.4936 (fax)

Graber Post Buildings has been manufacturing and supplying building materials for over 45 years. Everything needed for your next post-frame project can be

purchased from one location! We have a delivery fleet of over 50 trucks that are able to deliver projects to your business or job site. Graber Post can save you time and money. For your next project give us a call for a free quote.



Kauffman's Gazebos

Booth #205

1094 Deerlodge Highway
Clarkrange, TN 38553
www.kgazebos.com

kauffmansgazebos@gmail.com

Kauffman's Gazebos has been producing quality wood and vinyl gazebos for over 20 years. We are now an exclusive distributor of K-Board. K-Board is a

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composite deck board using Eovations technology that is produced exclusively for the shed, gazebo, and portable structure industry. This is an excellent product at a very good price point.



Kevmar Manufacturing

Booth #409

188 E. County Road 600 N.
Arthur, IL 61911

www.kevmarmfg.com

sales@kevmarmfg.com

217.543.2828

217.543.3323 (fax)

Kevmar Door is a manufacturer of specialty garage doors. Our products are sold across the U.S. and Canada, with deliveries via company trucks in the Midwest. The Kevmar product line includes a high value line of pan-type stamped steel doors for the shed industry.



Paragon Computing Solutions

Booth #304

20 S. Reamstown Road
Stevens, PA 17578

www.goparagon.com

sales@goparagon.com

866.971.0940

We design and sell a full-featured ERP system that focuses on the building materials and light metal manufacturing market. Our software is designed from an operations standpoint, which, coupled with our industry focus, means we provide software that is exceptional at improving our clients' efficiency. Our order entry system can be integrated with building design systems to automate the workflow between design, quoting, manufacturing, and dispatching, resulting in greater efficiencies and accuracy.



PPG TrueFinish Industrial Coatings

Booth #314

1 PPG Place
Pittsburgh, PA 15272

www.ppgtruefinish.com

ppgtruefinish@ppg.com

866.PPG.TRUE

PPG's AQUACRON® 200 semi-transparent urethane and Aquacron 100 solid-color coatings deliver excellent exterior protection and exceptional color retention in a variety of pre-mixed and custom colors.

PPG delivers more than world-class coatings. We're your trusted partner! We provide world-class technical support, on-site application training, and color matching services. We develop and manufacture our own coatings and also offer a wide variety of sundries.

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We're with you every step of the process.



Qora Cladding

Booth #405

www.qoracladding.com

marketing@arcitell.com

301.223.2266

Qora is the easy-to-install cladding product that resembles the time-honored look of stone without compromising performance or aesthetic appeal. Qora gives your portable buildings a premium look of stone without the weight and hassle of traditional masonry products and installa-

tion methods. Because Qora comes in easy-to-handle 20" x 48" panels, it's designed to install with basic carpentry tools and fit together seamlessly with disguised joints and convenient accessories. Qora Cladding will help you stand out among the competition.



Ramco Supply

Booth #202

4572 N. Old US Highway 31
Rochester, IN 46975

www.ramcosupply.com

marvin@ramcosupply.com

574.223.7802

574.223.7846 (fax)

Ramco Supply manufactures metal siding and roofing for pole barns and house roofs. Ram Panel is a 28-gauge 36"-wide panel with ¾"-high ribs. Ramco Supply also manufactures standing seam roofs in 16"-wide panels. Ramco Supply sells windows, doors, sliding door track, and lumber. Ramco Supply offers complete build-out packages.



Richland Laminated Columns

Booth #319

8252 State Route 13

Greenwich, OH 44837

elmer@richlandcolumns.com

419.895.0036

Richland recently added an all-new Glulam Column to its list of products. Customers can now choose what option they want: Glulam, Naillam, Perma Columns, Greenpost, Sturdi Wall...whatever foundation system you want, we've got you covered! Contact Richland for "your one-stop pole shop." Serving dealers throughout the Midwest since 2005 with mixed loads stocking programs or job site deliveries.



Royal Crowne Cupolas

Booth #508

4 Township Drive
Paradise, PA 17562

www.royalcrowne.com

info@royalcrowne.com

717.288.2630

Royal Crowne Cupolas' cupola selection

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



Safe-Way Garage Doors LLC

Booth #208

3814 E. US 30

Warsaw, IN 46580

www.safewaydoor.com

bthompson@safewaydoor.com

574.267.4861

Safe-Way Garage Doors is a leading manufacturer of quality residential, commercial, and industrial overhead garage doors in steel, wood, and aluminum. Headquartered in Indiana, Safe-Way also operates facilities in Tennessee and Missouri with distribution throughout North America and Canada. Residential and commercial doors are available in multiple configurations including polyurethane and polystyrene insulated, un-insulated, up to 11 colors in steel, and multiple powder coat colors in aluminum.



Shed Windows and More, Inc.®

Booth #321

9326 Highway 90

Longs, SC 29568

www.shedwindowsandmore.com

thomas@shedwindowsandmore.com

843.399.1820

843.399.1826 (fax)

Shed Windows and More has been supplying DIY builders and small construction companies with windows, doors, shutters, flower boxes, cupolas, and skylights since 2001,

specific to small outdoor buildings such as sheds and playhouses. Since 2017, they have expanded their building supplies to include double-pane windows, garage windows, prehung fiberglass and steel doors, decorative inserts for doors, steel roll-up doors, access doors, pediments, brackets, and columns.



SmartBuild LLC

Booth #215

www.smartbuildsystems.com

sales@keymark.com

303.579.6277

SmartBuild is known for Post Frame software. However, making its debut at the Garage, Shed and Carport Builder Show is SmartBuild for Garages and Sheds! Just like the original, this software features the familiar SmartBuild process of designing structures graphically on screen while automatically generating a 3D model, material list, labor calculations, pricing, and a full set of drawings. Adding to the standard options, SmartBuild for Garages and Sheds displays and removes multiple layers of materials for roofs and walls, displays multiple types of roofing and siding materials, and generates floor construction materials for sheds.



Trac-Rite Door

Booth #200

314 Wilburn Road

Sun Prairie WI 53590

www.tracrite.com

tr@tracrite.com

800.448.8979

608.825.6745 (fax)

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

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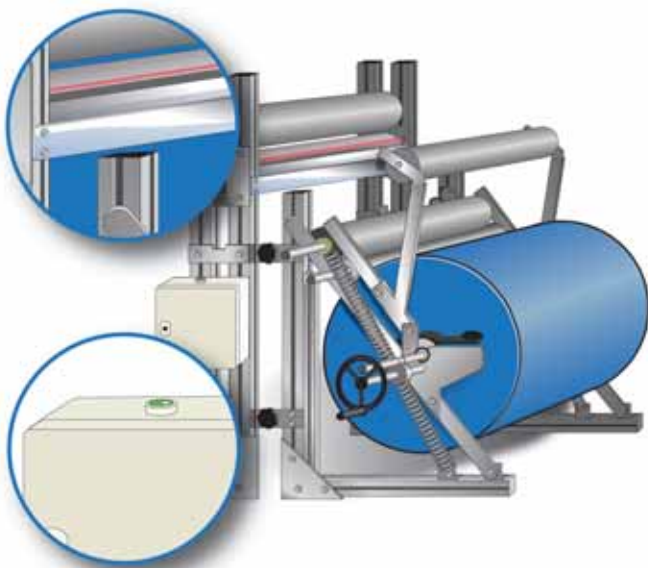
NEW PRODUCTS AT THE SHOW



Shed Siding Rollforming Line by ASC Machine Tools, Inc.

ASC's new shed siding roll-forming line features a Heavy Duty Roll-former with cast stands and a hydraulic Post-Cut Shear. This setup allows the production of panels down to a length of only 1 foot! For more automation, ASC customers can add an automated Panel Stacking system including a floor tamper and side transfer conveyors.

www.ascmt.com



Coming in 2021—Hot Wire Cutter for DR!PSTOP

Filc USA is happy to announce a new accessory that makes cutting DripStop as simple as pushing a button. The E-Z cutter will be available on future applicators as well as an accessory that can be retro-fitted to all 3rd generation (approx. 2015) applicators. Contact us for pricing and availability.

www.dripstop.com



Board & Batten Siding Panel by Graber Post Buildings, Inc.

Graber Post Buildings is excited to announce the release of the Board & Batten siding panel. It provides the classic look of wooden board and batten with the strength and longevity of a steel siding system. We offer this in all 28 color options in 26 gauge. Call us today for pricing on your next project!

www.graberpost.com



Specialty Garage Doors by Kevmar Door

Kevmar Door is a manufacturer of specialty garage doors. Our products are sold across the United States and Canada, with deliveries via company trucks in the Midwest. The Kevmar product line includes a high value line of pan-type stamped steel doors for the shed industry.

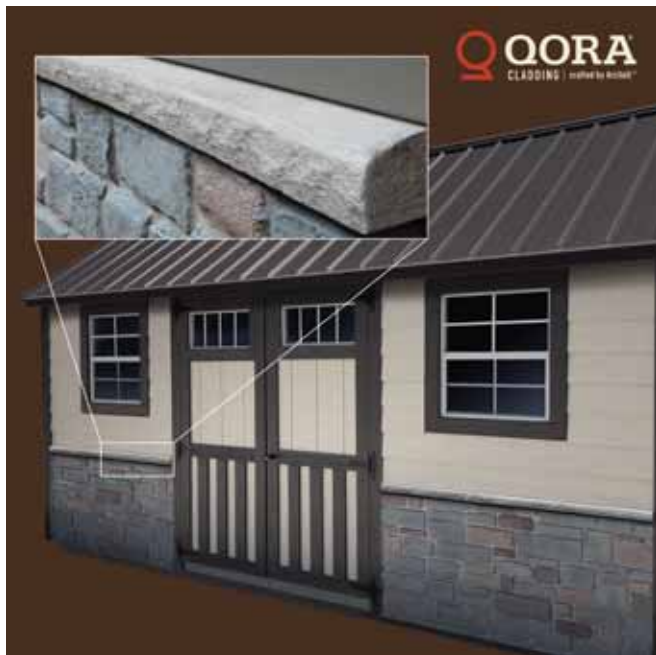
www.kevmarmfg.com

Paradigm Accounting/SmartBuild Systems Integration by Paragon Computing Solutions LLC

Introducing a seamless integration between Paradigm Accounting and SmartBuild for Garages and Sheds. The integration enables a structure to be drawn in 3D and the materials list to be automatically imported into Paradigm Accounting for manufacturing, inventory control, and accounting. Current costs are also synchronized between systems, providing real-time cost data. Don't waste valuable time manually entering data. Allow the integrated systems to do the work for you!

www.goparagon.com





Ledge Sill Accessory by Qora Cladding

Qora Cladding now offers a matching ledge sill accessory that is easy to install and provides a seamless transition between Qora Cladding panels and other siding materials. With two color options—Light Grey and Medium Grey—it's the perfect complement to your structure's exterior design. Each 4' sill weighs less than four pounds but looks exactly like a real stone ledge sill with durability to match.

www.qoracladding.com

step powder-coated steel and are Dark Bronze in color. The weather-vanes feature a windcup that actually spins in the wind, and are available in many different designs. Contact Royal Crowne today for more info on your Cupola and Weathervane needs.

www.royalcrowne.com



SmartBuild for Garages and Sheds by SmartBuild Systems

SmartBuild is enhanced, so it is no longer just for post-frame. SmartBuild for Garages and Sheds is capable of stick framing a complete garage or shed building. For finishes on roofs, the system applies regular sheathing, a layer of felt, and conventional shingles. For walls, plywood or OSB sheathing is applied as well as a finish of multiple types of siding.

www.smartbuildsystems.com



New Colors From Trac-Rite Door

Trac-Rite is offering new colors of their Model 944 Roll Up Door, including matte black, ash gray, lime green, and patriot red. Trac-Rite Door has recently added more colors to the available lineup—doors are now available in 17 colors. The model 944 door is commonly used in both the self-storage industry and also by shed builders. The matte black color is especially striking for both applications.

www.tracrite.com



Windcup Weathervanes by Royal Crowne Cupolas

Add a "Windcup Weathervane" to your Royal Crowne cupola to finish off any building project. These weathervanes are made from a three-



Unique Family Fun

February in the Midwest can be chilly, but South Bend, Indiana, offers a plethora of unique experiences whether you're willing to brave the cold or would rather explore indoors.

Howard Park is a one-stop adventure for the whole family. A 16,000-square-foot ice trail and pond for skating, an all-ages playground, and a scenic river walk complete the experience. Try out tubing and snowshoeing at nearby Ferrettie/Baugo Creek County Park or explore the cross-country ski trails at St. Patrick's County Park.

When it's time to warm up, head to Mishawaka for the Sky Zone Trampoline Park and Strikes and Spares Entertainment Center for bowling, minigolf, arcade games, and more! Or, stay downtown and tour the South Bend Chocolate Company, a functional chocolate factory and museum, or the world-class Studebaker National Museum featuring 150 years of automotive history.

PHOTO COURTESY OF THE SOUTH BEND CHOCOLATE COMPANY



PHOTO BY BARBARA JOHNSTON

Iconic and Historical Sites

South Bend is home to historic Notre Dame University and the Fighting Irish. Tour the beautiful campus, attend mass at the Basilica of the Sacred Heart, and be sure to stop by the bookstore for Fighting Irish gear!

The History Museum and its sister location, the Kidsfirst Children's Museum, are packed full of hands-on and walk-through exhibits exploring local Native American experiences, the fight for women's suffrage, and the All-American Girls Professional Baseball League.



Where family fun is always "just around The Bend"

By Jenn Milner



PHOTO COURTESY OF VSBM

Dinner on the Town

Midwestern comfort food and a selection of international fare make up the palate of downtown South Bend. Check out these community favorites!

- Peggs (local-favorite breakfast and lunch)
- Spirited (vegan-friendly with extended hours)
- Barnaby's (specialty pizza near Howard Park)
- Cambodian Thai (authentic Asian cuisine)
- Fiddler's Hearth (downtown Irish pub)
- The Skillet (Polish favorites with a legendary buffet)



PHOTO COURTESY OF EVIL CZECH BREWERY

Local Beverages on Tap

A surprising number of local breweries, distilleries, and wineries thrive in the city.

- South Bend Brew Werks (brew pub with 20 rotating taps)
- Crooked Ewe Brewery & Ale House (gastro-brewery with family dining area)
- The Indiana Whiskey Company (locally sourced distillery with tours)
- Hall of Heavenly Goat Brewing Co (barrel-aged beer, wine, cider, and a full menu)
- IRONHAND Wine Bar (Indiana-grown boutique winery)
- Evil Czech Brewery and Public House (quirky beers from "brew warriors")

**ON YOUR
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Beauty and Purpose in One

A rural Pennsylvania farm features an eye-catching new enclosure

This cozy barn looks like it came straight out of a fairy tale. It is located in Newmanstown, Pennsylvania, a small, unincorporated town between Harrisburg to the east and Philadelphia to the west, with a population just below 3,000. One resident is lucky enough to have this beauty on their property as an animal shelter.

After a fire destroyed their previous structure, the owners looked to builder Steve Hurst of Millway Construction out of nearby Lititz, Pennsylvania. And the results are stunning.

Set on 12" poles and framed with 3-ply glulam posts and

MSR (machine-stress rated) yellow pine, it is clad in rough-sawn Eastern white pine siding and roofed with ABM Panels in Bronze by A.B. Martin Roofing Supply. Ultra-Vent by Red Dot Products and Snow Defender 4500 Snow Guards from Levi's Building Components protect the interior and exterior from any harsh weather.

Radius top walk doors and windows add an extra design detail, and a pair of coordinating cupolas adorn the charming building's roofline. Black door hardware and a matching gutter system complement the brick façade. **FN**





PHOTOGRAPHY BY SHAD EASH, SHADBOOST.COM

PROJECT DETAILS

Builder: Millway Construction

Location: Newmanstown, Pennsylvania

Primary Use: Animal shelter

Primary Supplier: A.B. Martin Roofing Supply

Roofing Panels: ABM Panel in Bronze

Siding: Rough-sawn Eastern white pine

Framing: 3-ply glulam posts; MSR yellow pine

Foundation Products: 12" poles and Quikrete

Fasteners: Simpson Hurricane Ties and Face-Mount Hangers;
ST Fastening Systems WoodBinders

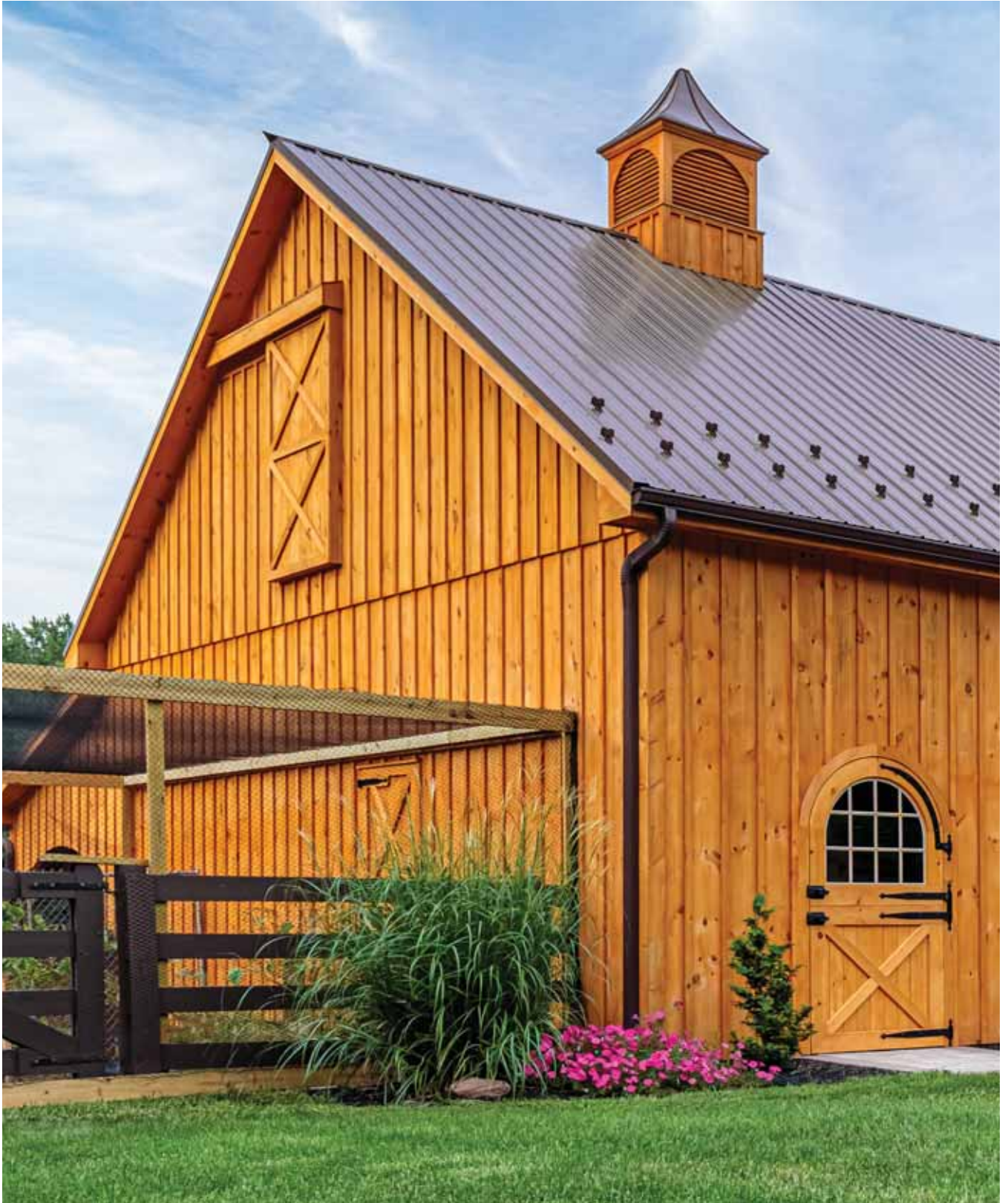
Doors: Cannonball Round Track Sliding Door Hardware

Ventilation: Red Dot Products Ultra-Vent

Snow Retention: Levi's Building Components
Snow Defender 4500 Snow Guards

For more information, visit www.abmartin.net.







First Battery-Powered Roller Screed

Curb Roller Manufacturing has announced the release of the Batt Screed 6000, the industry's first battery-powered roller screed. The roller screed operates with no cords, hoses, or fumes.

The Batt Screed eliminates the hassle of working around a cord and the added weight of an engine mounted on the screed. The unit gets its power from a removable and rechargeable 60-volt lithium ion Dewalt FlexVolt battery. Contractors may be familiar with this line of batteries and their versatile use in smaller or heavy-duty cordless tools like hammer drills or cutoff saws. One fully charged battery is estimated to screed off 1,800 to 2,500 square feet, depending on the slump and pipe length. By eliminating an auxiliary power source, the Batt Screed 6000 can be operated almost anywhere. Unlike gas, electric, and hydraulic roller screeds, the Batt Screed eliminates exhaust fumes, power cords, and the need for hydraulic power sources, making it ideal for indoor operation or use in tight spaces. The Batt Screed easily accommodates jobs from 3' to 22' with expandable tube inserts, making it highly versatile.

The Batt Screed provides a consistently higher-quality finished product than vibrating screeds or screed boards. It eliminates the need for backbreaking work, providing an ideal solution for contractors who want to get more flatwork done in less time—all with a better, flatter finished product.

Because roller screeds spin the concrete into shape versus vibrating the concrete, larger aggregate, and more of it, remains near the surface of the slab, providing increased structural integrity. Conversely, vibrating screeds use vibration to form the concrete, which often causes the aggregate to fall to the bottom of the slab, leaving the concrete more open to spalling.

The Batt Screed 6000 design includes an adjustable right- or left-hand speed control, variable speed in both high and low ranges, and a three-position handle that allows for a more ergonomic operation for operators.

The multi-position handle gives operators more versatility when it comes to obstacles or limiting factors during a pour. For example, if a contractor is pouring a driveway, they can position the handle outward to allow them to walk outside of the forms.

www.curbroller.com

Clamp Technology for Nail Strip Metal Roof Profiles

S-5! introduces the newest addition to its line of clamp product solutions, allowing rooftop ancillaries to be attached to standing seam metal roofs.

The NH 1.5 is part of the "N" line of clamps developed for nail strip

profiles. Designed specifically for 1½" (38 mm) nail strip profiles with a wider horizontal dimension (> 0.475" and ≤ 0.800"), the S-5! NH 1.5 is an ideal mounting solution for Vic-West Prestige, New Tech FF150, and similarly dimensioned profiles.

"More and more panel manufacturers are coming onto the scene with nail strip type profiles," said S-5! CEO and founder Rob Haddock. "Although they all look similar, there is a range of dimensioning. This profile is one of the most challenging out there for S-5! quality penetration freedom and affordable production costs. Our S-5! Research and Development Team spent months in concept and prototyping to come up with the most versatile, cost-effective, state-of-the-art solution."

The NH 1.5 features an innovative "hinge" and forms to the shape of the seam, preventing damage at the point of attachment, while offering optimal holding strength. The reversible insert allows for superior fit on both wide and medium-width profiles.

For ease of installation, the T-30 Torx setscrews are angled to facilitate tool insertion and improve driver bit withdrawal after screw tensioning. The clamp is available in both Standard and Mini sizes and made from 6000 series aluminum, with 300 series stainless steel hardware. The NH 1.5 is engineered for heavy load-critical applications, such as snow retention.

www.s-5.com



A New Self-Adhering Fire-Resistant Roof Underlayment

Polystick XFR is a dual-purpose, fire-resistant, self-adhered waterproofing underlayment. Utilizing ADES® dual-compound self-adhered technology, Polystick XFR features an SBS (elastomeric) modified bitumen upper and an aggressive self-adhesive bottom compound. Patent-pending Burn-Shield Technology provides superior fire resistance. Featuring a slip-resistant film surface that can be exposed for up to 180 days. With a temperature resistance of up to 265°F, Polystick XFR is ideally suited for high temperature roof covering systems such as steel and copper roofing where fire resistance is required or desired.

www.polyglass.us



Wolverine "World's Most Comfortable Safety Toe Shoe"

The Wolverine Bolt is the first ever safety toe athletic shoe with the comfort of Wolverine DuraShocks® and Wolverine DuraSpring™ cushioning, making it the most comfortable safety toe shoe, guaranteed. The outsole is specifically tuned for slip resistance, with extended pads to increase surface contact with the ground. Wolverine



DuraShocks technology absorbs shock and returns energy for all day comfort. DuraSpring cushioning provides long-lasting dynamic cushioning, retaining more than 40% rebound than standard EVA.

Specs and tech include: a breathable stretch mesh upper, a moisture-wicking mesh lining, a removable DuraShocks PU footbed, a DuraSpring Low Density PU midsole, a Wolverine DuraShocks Dual Suspension Pads outsole, cement construction, a nylon shank, and CarbonMAX® Composite Toe (ASTM F2413-18 M I/75 C/75 EH).

www.wolverine.com



TruRidge and HighPoint Roof Ventilation

Atlas Roofing Corporation has introduced its new TruRidge® and HighPoint® Roof Ventilation intake and exhaust systems. They are the company's first ventilation products designed to improve home energy efficiency and maintain optimal roof performance as part of the Atlas Signature Select® Roofing System.

Atlas TruRidge and HighPoint products help create a balanced attic ventilation environment that allows air to circulate, providing a more comfortable living space and reduced temperature extremes. Proper ventilation helps control heat and humidity, which can contribute to deck rot or mold, shingle buckling, ice dams, and premature aging of a roof system. The TruRidge and HighPoint systems are manufactured with a proprietary polymer that is formulated to withstand the rigors of severe weather conditions. When properly installed, TruRidge and HighPoint exceed U.S. Department of Energy recommendations and all nationally recognized ventilation building codes.

Both TruRidge and HighPoint systems provide an equal balance of air intake and exhaust within a variety of options. The net free area (NFA) of each system runs from 12 to 18.

www.atlasroofing.com

30-Gallon Portable Handwashing Station

Justrite has announced the launch of the Portable Handwashing Station, a mobile, self-contained hand cleansing system that allows employees to effectively wash their hands in any location.

The Portable Handwashing Station features a 30-gallon tank that supports approximately 150 handwashes. The self-contained handwashing station provides a reliable way for personnel to ensure they can practice safe, personal hygiene wherever the location. The station features hands-free foot activation for ease of use and to help minimize cross contamination.

It also features fillable soap and paper towel dispensers, making it an all-in-one hand sanitization station that can be placed anywhere, indoors or out. Without having to leave the work floor, an employee can wash their hands often between tasks in full confidence of their safety.

Germs spread easily from people or surfaces. This is especially important to take into consideration if employees come into contact with surfaces that may be frequently touched by other people. Handwashing is the most effective way to minimize the spreading of germs, especially after blowing one's nose, coughing, or sneezing. The CDC advises frequent handwashing can keep you healthy and helps prevent the spread of respiratory and diarrheal infections from one person to the next.

www.justrite.com



Impact-Grade Magnetic Chuck Drivers

Malco Products, one of the nation's leading manufacturers of high-quality tools for professional use, recently introduced a new line of Impact-Grade Magnetic Chuck Drivers that drive screws faster and easier than any other tool.

Malco's Impact-Grade Magnetic Hex Chuck Drivers are a distinctive blue color, signaling performance quality that can withstand the kind of impact driver stress that is characteristic for each fastening application.

All Malco Impact-Grade power drivers are precisely machined for positive, fail-proof engagement of the fastener head and feature unique high-torque steel construction and a design that absorbs and dissipates impact driver-induced stress at peak loads.

www.malcoproducts.com

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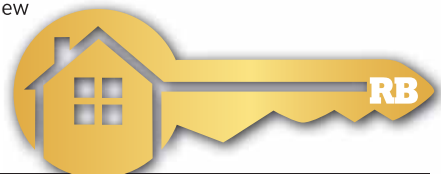


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