

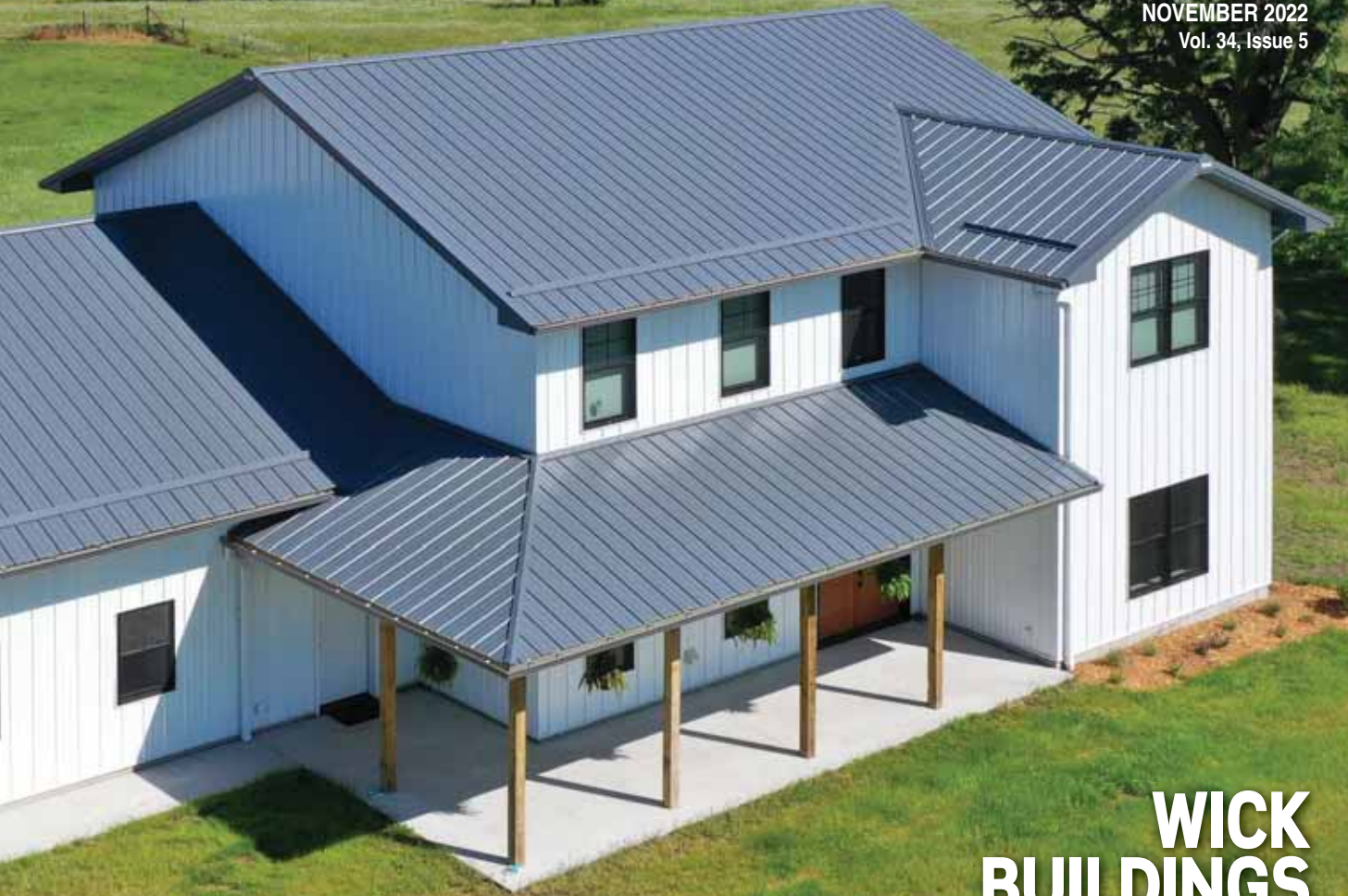
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NOVEMBER 2022

Vol. 34, Issue 5



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Appreciate Your Resources

Support the Entities that Serve You

Fall is beginning, and for the construction industry that translates to trade show season. With the schedule of our shows and the others we attend, I realized how easy it is to take the organizations that support our industry for granted.

We work with most of the significant trade shows, from Fabtech to METALCON and support these shows. They are competitors in many ways, but the support (both ways) helps grow and strengthen the industry.

To that end I would ask that you take a minute and reflect on the benefits that the shows and magazines that service the industry provide. Without them where would you find product information/suppliers, best practices and get inspiration to make your customers' dreams reality.

Please support all of the publications, shows and resources that support you. If you need a new product, tell the manufacturer you saw it at METALCON or read about it in Frame Building News. If there are short surveys to gather

industry data, take one or two minutes and respond. The fees to walk a trade show floor are usually minimal and our magazines are free to professionals in the industry. The manufacturers pay your way. Let them know their investment is worthwhile.

If you value the industry metrics, networking or resources the media and event companies provide, take the small steps to support the entities that serve you.

Thank you for your support.

*Gary Reichert,
Publisher*

EDITOR'S NOTE //

Are You Missing Something?

You've received your last issue of Garage, Shed & Carport Builder

Welcome to Fall ... a season of changes. Along with the changing temperatures and foliage, you'll notice a change in your magazine delivery.

Unless you fill out one of the subscription forms (page 15 or 37), you'll no longer receive Garage, Shed & Carport Builder magazine. That title has been polybagged and delivered with Frame Building News for quite some time, so you've had the chance to read it and see what it's all about. It's now mature enough to stand on its own, so if you'd like to continue to read it, you need to let us know by filling out one of the aforementioned forms.

Another change of note: We welcome new editor Marcus Josiger to the Shield Wall Media team. Marcus replaces Anthony Brass as the managing editor of Frame Building News and Garage, Shed & Carport Builder magazines. As I write this, he's getting his feet under him, so he will introduce himself in the next edition. In the meantime, if you have any advice for Marcus, you can reach him at marcus@shieldwallmedia.com or at 920-455-5299.

Fall is also trade show season, which means we here at Shield Wall Media will be out and about more than usual. We're heading out to METALCON (Indianapolis) and the Construction Roll-forming Show (New Orleans) in October. After the holidays, the Winter shows

will be rolling up right behind them ... we're looking ahead to the Garage, Shed & Carport Builder Show in January in South Carolina. (It'll be nice to escape Wisconsin's frigid winter temperatures for a few days!)

And, of course, the Frame Building Expo will be held February 22-24 at the Kentucky International Convention Center. Since our next magazine is the January edition, it will feature all the Frame Building Expo Preview information. We'll once again round up select exhibitor profiles, as well as highlight news and new products related to the Expo.

Until next time — be well.

*Karen Knapstein
Editor*

CONTENTS

18

10 Is It Really Yellow Pine?

Properties determine which species are SYP

14 Testing Glued Posts

How it relates to the quality of your project

17 Educating Your Customer

Exploring the benefits of “Your Post-Frame Home”

18 Challenging Post-Frame

This flashback tackles new opportunities provided by engineers

22 Growing Horizons

A Wisconsin company innovating for nearly 70 years

30 A Look Into Post-Frame Protection

And how Planet Saver Industries entered the market

32 The Advantages of Treated Wood

Exploring the different treatments available



ON THE COVER:
There is a lot of opportunity for growth in residential post-frame.
Photo courtesy of Wick Buildings Inc

Cover design by Kevin Ulrich



DEPARTMENTS

- 3 Publisher's/Editor's Notes
- 6 News
- 36 New Products
- 40 Project of the Month
- 43 Events Calendar



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Gary Reichert,
Publisher, Shield Wall Media

INDEX OF ADVERTISERS

Company	Page #
Acu-Form	5, 28
ASC Machine Tools Inc.	28
Bradbury Group, The	28
Cold Spring Enterprises	29
Direct Metals Inc.	29
DripStop Condensation Control	5, 28
Dynamic Fastener	BC
East Coast Fasteners	11
Everlast Roofing, Inc.	29
Golden Rule Fasteners	19, 28
Graber Post Buildings, Inc.	5
Hixwood	23
Leland Industries Inc.	5
Manitowoc Cranes	9
Marion Manufacturing	28
Maze Nails	7
Metal Exteriors	29
Metal Rollforming Systems	5
MWI Components	13
Perma-Column LLC	5, 17
Planet Saver Industries	29
Plyco Corporation	IFC
Reed's Metals	29
Rigidply Rafters	39
S-5!	21
Snow Stoppers LLC	29
Starwood Rafters	21
Stockade Buildings	29
Union Corrugating Co.	28
United Steel Supply	28
Wick Buildings	23

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Industry Partners



SEE PAGE 28



SEE PAGE 17



SEE PAGE 19



Drexel Metals Extends Roofing Materials and Services to the New England Region

Drexel Metals, a full range provider of engineered metal roofing systems, equipment and custom fabrication services, announces the opening of a facility in Manchester, New Hampshire. One of four new nationwide facilities opened in the last year, the Manchester location will extend American materials to local roofing professionals—100 percent of the company’s steel and more than 95 percent of its aluminum is purchased domestically. The easily accessible location and local stock means Drexel can provide shorter lead times across the New England region to meet increased customer demand for metal roofing. Further, the facility’s enhanced fabrication and customer service capabilities will help local roofing professionals build and install high-caliber metal roofing systems quickly and efficiently.

“We’re excited to better serve existing customers and support new ones with outstanding materials and services. At the new facility, our knowledgeable and experienced staff of full-time employees can answer questions about difficult builds and assist with in-house fabrication,” says Brian Partyka, Vice President of Carlisle Architectural Metals. “Plus, by extending our reach to the Northeast corner of the country, local professionals can expect metal roofing products that are consistently durable, beautiful and delivered on time.”

Not only will the new location provide increased access to high-quality metal roofing products, but it will also serve local fabricators with large manufacturing floors, storage space for works-in-progress and production services like cutting to length and coil slitting. With the ability to warehouse and distribute nine million pounds of American steel and aluminum, the company’s Manchester location will also be furnished with a full range of fabrication equipment, such as portable roll-forming machines, decoilers and more.

US LBM Acquires South Florida Truss Manufacturer Deco Truss

US LBM, a leading distributor of specialty building materials in the United States, has acquired Deco Truss, primarily a manufacturer and supplier of structural roof and floor trusses to customers in South Florida and the Caribbean.

Founded in 1983, Deco Truss serves framing and building contractors for residential, multi-family and commercial projects. In addition to manufacturing all types of truss systems, Deco Truss also provides lumber, decking and roofing materials, rebar, millwork and doors, fencing supplies, tools, hardware and more to customers.

The supplier operates an 8.5-acre manufacturing plant and retail location in Miami and will operate as a unit of US LBM’s Raymond Building Supply, which has locations across South Florida, including a truss manufacturing plant in North Fort Myers.

“US LBM is the best partner for Deco Truss to continue to grow and provide more value for customers and employees alike,” said Mario R. Espiñeira Jr., who will continue to lead Deco Truss’s day-to-day operations.

“Deco Truss has a strong team and is dedicated to manufacturing high-quality products,” said US LBM President and CEO L.T. Gibson. “They are an excellent, complementary addition to our existing operations in Florida and further expand our manufacturing capabilities to supply builders in multiple growing communities across Miami-Dade, Broward and Palm Beach counties.”

Spahn & Rose Lumber Co. to Acquire Still Lumber

Spahn & Rose Lumber Co. has entered into an agreement to purchase Still Lumber, a building-materials supplier in Conyers, Georgia.

“Still Lumber is a natural fit with Spahn & Rose,” says Dave Davis, Spahn & Rose’s CEO. “Like Spahn & Rose, Still Lumber has a long history of providing quality, ex-

pert service to contractor and homeowner customers. We’re proud to have Still Lumber join the Spahn & Rose family.”

The acquisition complements Spahn & Rose’s 2021 purchase of Metro Building Products, based in Marietta, Georgia. Founded in 1904, Spahn & Rose is a leading lumber distributor in the Midwest and was named LBM Journal’s 2022 Dealer of the Year, an honor that recognized the company’s superior customer service, leadership and entrepreneurial innovation.

Still Lumber was founded in 1946 and serves the Atlanta metro area, Georgia’s Rockdale County and beyond. Still Lumber’s customer base includes contractors, builders, remodelers, homeowners and Georgia film and TV studios. Still Lumber offers custom-cut lumber and a variety of products such as framing lumber, hardwood lumber, joists and decking material.

“It’s been a privilege to serve the Conyers and Atlanta area,” says Still co-owner Jason Hill. “For more than 75 years, Still Lumber has provided contractors and builders with high-quality building materials and outstanding service. I’m confident Spahn & Rose will find new ways to serve our customers.”

The acquisition of Still Lumber marks the fourth recent major addition for Spahn & Rose, including Dunn Lumber in Lake Geneva, Wisconsin, in February 2019; Moeller & Walter Lumber in Reinbeck, Iowa, in February 2020; and Metro Building Products in August 2021.

Simpson Manuf. Announces CEO Retirement and Succession Plan

Simpson Manufacturing Co., Inc., an industry leader in engineered structural connectors and building solutions, has announced that Karen Colonias will step down from her position as Chief Executive Officer as part of Simpson’s succession plan, effective December 31, 2022. Simpson’s Board of Directors unanimously elected Michael Olosky, 54, current President and Chief Operating Officer, to succeed Karen Colonias as Chief Executive

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Officer, effective January 1, 2023, as part of a planned leadership succession. In connection with his promotion, Olosky will also join the company's board of directors on January 1, 2023. Colonias will continue in her role as CEO through the end of 2022, after which, as part of the succession plan, she will remain employed as an Executive Advisor to assist with the transition until her retirement on June 30, 2023. Colonias will continue to serve as a member of Simpson's board of directors until the Company's 2023 annual meeting of stockholders.

Red Wing Shoe Company Champions the Important Work of Safety Professionals

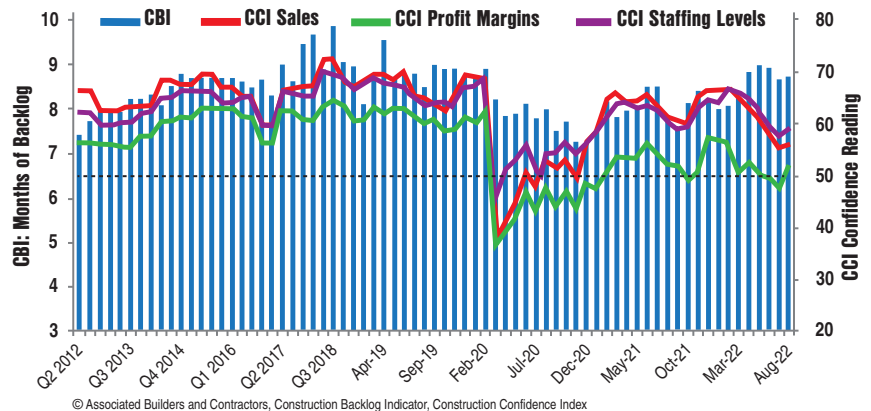
The skilled work of the trades builds the world around us, but without professionals who make safety their calling, this would not be possible. Safety professionals work relentlessly to keep employees free of risk and harm day after day. Workers and their families depend on them for their well-being and to protect them from accidents and even fatalities. Red Wing Shoe Company, which has outfitted workers with safety gear for over 117 years, is committed to honoring these safety professionals. Its "For Work That Moves The World" initiative shares their stories and their contributions to the operations and advancement of our nation.

"For Work That Moves the World" shares the stories of safety professionals who protect, defend and empower the work of the trades.

Red Wing Shoe Company is celebrating the safety heroes who make the world around us run. All safety professionals are invited to share their stories – from their own experience in the industry or those of someone they've worked with who has made a difference in safety – for the chance to be featured as part of the "For Work That Moves The World" initiative. Workers can submit their stories for consideration at <https://redwingforbusiness.redwingsafety.com/forworkthatmoves-theworld>.



ABC Construction Backlog Indicator & Construction Confidence Index, 2012-Aug. 2022



© Associated Builders and Contractors, Construction Backlog Indicator, Construction Confidence Index

ABC's Contractor Confidence Rebounds; Construction Backlog Indicator Flat in August

Associated Builders and Contractors reports that its Construction Backlog Indicator remained unchanged at 8.7 months in August, according to an ABC member survey conducted Aug. 22 to Sept. 7. The reading is a full month higher than in August 2021.

Backlog is down from the levels of the second quarter of 2022, but remains higher than at any point from March 2020 to March 2022. While the CBI reading fell for contractors in the South in August, it is still the U.S. region with the lengthiest backlog.

ABC's Construction Confidence Index readings for sales, profit margins and staffing levels increased in August. The index for profit margins bounced back into positive territory while the sales and staffing level indices remained above 50, indicating expectations of growth over the next six months.

"Despite the high risk of recession, contractors collectively expect sales, employment and profit margins to grow over the next six months," said ABC Chief Economist Anirban Basu. "Backlog is down from the cyclical peak in early 2022 and has been roughly flat in recent months.

"The buoyancy of the nation's non-residential construction marketplace is really quite remarkable," said Basu. "Ris-

ing interest rates have already driven the single-family homebuilding market into recession, but brisk nonresidential activity continues. Many nonresidential contractors are operating at capacity, and their principal frustrations relate to supply-side issues like worker shortages, equipment delivery delays and elevated materials prices, as opposed to demand for their services."

Altenloh, Brinck and Co. Adds Structural Engineer Loren Ross

Altenloh, Brinck & Co. US, Inc., manufacturers of SPAX® engineered fasteners, has announced that Loren Ross has been hired as a Structural Engineer for Wood Frame Constructions.

"We are thrilled to welcome Loren to our team," said Jason Wigboldy, Director of Product Development. "His skills as a structural engineer combined with his experience in the lumber and building materials industry will make Loren a fantastic addition to our rapidly growing organization."

Loren obtained his B.S. in Civil Engineering from Brigham Young University and his M.S. in Civil Engineering from Washington State University. Prior to joining ABC, Loren was Manager of Engineering Research for the American Wood Council. Loren is looking forward to helping the SPAX® team with its expanding line of products for deck solutions. *FBN*

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Pre-Fab Walls: Lift pre-fabricated wall sections from the truck directly to the wall's location.





PHOTO COURTESY OF USDA LONGLEAF PINES. PHOTO BY JOHN WILLIS

Southern Yellow Pine

Properties Determine Which Species Are Categorized As SYP

■ By Jacob Prater

Southern Yellow Pine (colloquially called “hard pine”) is a type of lumber the name of which is known and used by many. However, instead of referring to a single species or type of tree, it refers to several species grouped together based on similar physical wood properties.

Technically speaking the species that make up southern yellow pine include: Loblolly Pine, Shortleaf Pine, Longleaf Pine, Slash Pine, Pond Pine, Pitch Pine, Sand Pine, Spruce Pine, Virginia Pine, and Table Mountain Pine. Quite a long list... Even though the technical list is long, in practice the most common lumber in this category is only four species:

Loblolly Pine, Shortleaf Pine, Longleaf Pine, and Slash Pine.

These four species make up almost the entirety of lumber produced as Southern Yellow Pine as they are the fastest growing and have the widest geographic range of the group. Most of these species have a range that consists of the Southeastern United States from Texas through



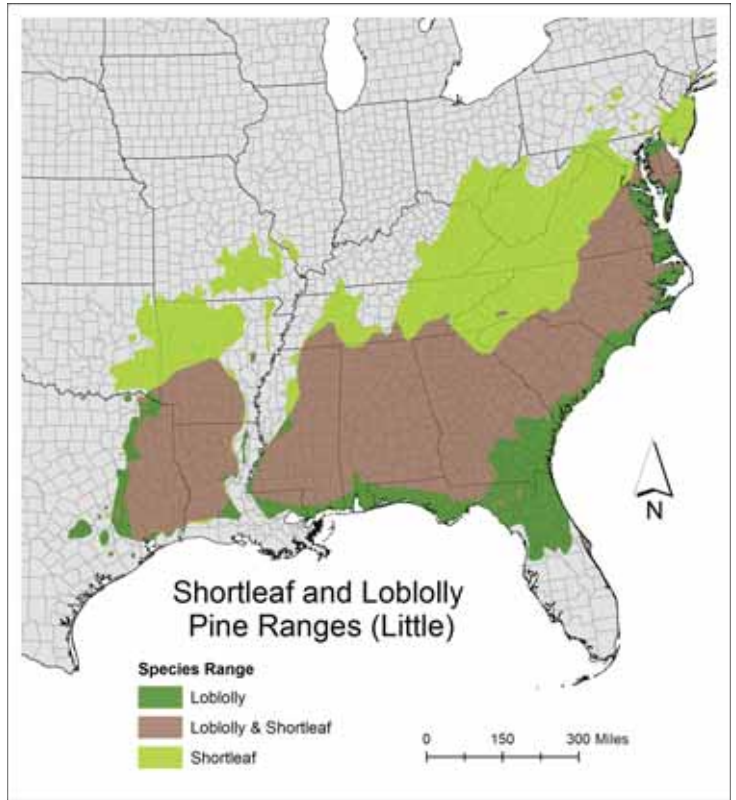
Shortleaf and Loblolly pine ranges. COURTESY OF THE SHORTLEAF PINE INITIATIVE, WWW.SHORTLEAFPINE.ORG

to Virginia, though a few species extend further west and some farther north along the East Coast, hence the “Southern” part of the term Southern Yellow Pine.

The “yellow” part of course comes from the characteristic yellow color of these woods as compared to other pine and conifer lumber types. The species that comprise Southern Yellow Pine are not only determined by these simple factors though.

More important are the mechanical properties of these species which differentiate them from other lumber groupings such as SPF (spruce, pine, fir). Desirability of Southern Yellow Pine lumber stems from its density, hardness, and overall strength. The main four species mentioned previously have the highest density and mechanical strength of all production softwoods (yeah, you can find a few that are of similar strength and density, Douglas Fir and Western Larch can hang in there).

For reference the average density of Southern Yellow Pine is between 0.51 and 0.59 g/cm³ while the Spruce



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000 SYP

Inspection marks from the Southern Pine Inspection Bureau (SPIB, top) and Timber Products Inspection (TPI, above). Both marks indicate No. 1 kiln-dried Southern Yellow Pine. Note the absence of "SYP" in the SPIB mark; Southern Yellow Pine is the only species graded by this association. COURTESY OF THE USDA NATURAL RESOURCES CONSERVATION SERVICE



*Southern Yellow Pine stamp on dimensional lumber.
PHOTO BY JACOB PRATER.*

Pine Fir category is between 0.35 and 0.43 g/cm³. These strength, hardness, and density properties stem from the hard dense latewood (this is the dark colored ring in this type of wood) that this group of species grow. It is easy to see why these species were grouped together as they have similar superior qualities and are grown and milled in a similar area geographically. Southern Yellow Pine as a lumber type makes up the hardest, most dense, and strongest softwood lumber grouping in the US.

While Southern Yellow Pine is a regionally produced wood it is ubiquitous throughout the construction industry owing to its superior mechanical properties. But there is another reason that Southern Yellow Pine is everywhere and that revolves around production. As it comes from an area of the country with a longer growing season and more than adequate rainfall, Southern Yellow Pine is a highly productive group of species. The rain, heat, and sunshine in the US Southeast mean that Southern Yellow Pine can be rapidly and sustainably produced for lots of different uses. Combine that with four tree species that themselves grow rapidly and you have an industry leader in production of dimensional lumber.

A 1970s forest service publication suggested that by the 2000s Southern Yellow Pine would comprise more than half of the softwood used as lumber in the US — a prediction that has more or less come true owing to a high-quality product that can be produced quickly and sustainably. In addition to making up the bulk of the dimensional lumber market, well over 80% of treated lumber products are Southern Yellow Pine.

Southern Yellow Pine products are not limited to regular dimensional construction lumber. You may find decking, laminated beams, boards (think 1-by stock), finish and select grade boards (stuff that is ready for paint or even a natural finish as trim, cabinet, or furniture parts), and mechanically graded lumber products as well. And while these products will all be stamped (except for maybe the finish grade products) as Southern Yellow Pine, there are other products that use

this wood group that will not be as they are not dimensional lumber.

Other products utilizing Southern Yellow Pine include plywood, particle board, and fiber board. The wood from the species group comprising Southern Yellow Pine are really everywhere.

Southern Yellow Pine makes great treated lumber for more reasons than all the wonderful mechanical properties, however. The cellular structure and pores within the wood of Southern Yellow Pine make it ideal for treated wood product use. The structure allows the products used to treat wood for rot and insect resistance to penetrate these species more deeply. Treated products is where Southern Yellow Pine really shines. Yes, it is fantastic dimensional lumber on its own, but with great uptake and penetration of treatment products you now have rot and insect resistant wood that also has the strength, density, and durability of the original lumber. You may even

be hard pressed to find treated products that are not Southern Yellow Pine.

When looking at lumber to insure that what you are getting is Southern Yellow Pine, it will be stamped with "SYP" (Southern Yellow Pine) or "SPIB" (Southern Pine Inspection Bureau). These two marks are from two different entities that certify quality for Southern Yellow Pine products (Timber Products Inspection uses SYP and the Southern Pine Inspection Bureau uses SPIB). You may occasionally find "Mixed Southern Pine" and either "Spruce Pine" or "Sand Pine" marked separately. Mixed Southern Pine means that Virginia Pine and Pond Pine are included while the other two marks are species specific. These types are much less common than the SYP and SPIB and while they are still in the group of species referred to as Southern Yellow Pine they are marketed and grade-marked separately.

A quick trip to one of the lumber yards

in my area found lots in the construction lumber area and a quick look around at some of the treated lumber products revealed that they had plenty of Southern Yellow Pine there as well. There may be some confusion at times where wood isn't labeled specifically by your lumber retailer (it will always be stamped). I happened to ask if this particular lumber yard had Southern Yellow Pine and the person I asked said, "No, it's special order only." This was a simple mistake on the part of this young man as he was probably not aware that it might not be labeled in the yard with a sign from the retailer. All you have to do though is look for the lumber stamp and you will know what you are getting.

Remember: Half or more of the lumber is going to be Southern Yellow Pine so chances are pretty good that it is going to be there — especially in the treated section. *FBN*



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PHOTO COURTESY OF GRABER POST

Glue Laminated Posts



Tension Test / This particular finger joint tension test took 51,000 total lbs to break. PHOTO COURTESY OF TIMBER TECHNOLOGIES, INC.

What You Need To Know About Strength and Testing

■ By Linda Schmid

Before jumping into testing, let's take a moment to talk about laminates in post frame building. The basic idea is, of course, to take smaller pieces of wood and combine them into larger pieces, thereby creating columns for the frame. Besides creating a larger building component, there is the question of how strong the resultant material is. Did it gain or lose strength through the process, and more importantly is it strong enough for your project?

Dale Schiferl, co-owner of Timber Technologies Inc., states that it depends on a number of components like the type of wood used, how the laminate is jointed, and testing to verify the process.

Wood Used

Typically southern yellow pine, spruce and Douglas fir are used, and since they can be similar in strength, Schiferl said they base it mainly on availability and affordability. Machine stress rated lumber (MSR) has been evaluated by mechanical stress rating equipment, so you have a pretty good indicator of how it will perform.

"Some species are easier to glue than other species, and may require less surface prep and pressure to laminate," Schiferl said. For example, Douglas fir and MSR spruce are easy to face bond. Yellow pine is more difficult due to its cellular structure; it's overall a denser piece of wood so it requires a more stringent manufacturing process.

To make it even more predictable, you can get yellow pine or most lumber with a machine stress rating.

Laminate Tests

One of the most important tests is the finger joint test, according to Schiferl. The finger joint is where two wood pieces come together to create one longer piece. It has "fingers" cut into the wood ends which fit together and are held with glue. The test puts tension on the joint by applying a load, and increasing until the joint gives.

Another critical test is the cyclical delamination test. The point of the test is to put the glue laminate wood through a 30-year life cycle in the space of 15 hours. This is done by weighing the glue laminate



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This article is updated from the original published in the June 2002 edition of Frame Building News magazine.

Engineered Wood Products STRETCH Post-frame Possibilities

■ By Matt Brown

APA-The Engineered Wood Association

Advances in engineered wood technology have revolutionized the way we build and the way we employ our only truly renewable building resource: wood. Nowhere is this more evident than with today's post-frame construction. The inherent design flexibility of engineered wood products has led post-frame from its boxy, agricultural genesis to a diverse framing method shaping many of today's retail centers, office buildings, churches, schools, and an array of other building types.

Glued engineered wood products at work in today's post-frame buildings

include glue-laminated timbers (glulam), laminated veneer lumber (LVL), parallel strand lumber (PSL), and wood I-joists. Other mechanically fastened engineered wood products expanding the capabilities of this framing method are metal plate connected wood trusses and nail-laminated posts.

In addition to these beam and column products, plywood and OSB are engineered wood products that provide strong lateral load resisting walls and roofs. They create a convenient, code-recognized nailable base for attaching most exterior finishes, meaning siding fasteners do not need to hit framing members. The most integral component of a post-frame building is without question the wood post. In fact, the post-frame method of construction could be defined as a wood framed building whereas all of the loads are transferred to the ground through wood posts. Glulam posts and nail-laminated posts have increased the expectations for a strong, tall, straight, and durable primary component in place of traditional solid sawn timbers.

By finger-jointing smaller lumber pieces together and joining them with structural adhesives or factory installed nails per tested techniques, engineered wood posts can use smaller-diameter trees, harvested from a managed forest and dried to a low moisture content. 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.



Depending on the load requirements, laminated veneer lumber (LVL) can be used interchangeably with glulam beams.

When post-frame posts are placed in direct contact with the soil, the use of proper preservative treatments is necessary. Glulam posts and nail-laminated posts can be pressure treated like solid-sawn timbers. 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.

The standard primary roof system in post-frame construction today is the metal plate connected wood truss. Spans up to 80 feet are now considered normal with even longer spans achievable. Lengths of these sprawling buildings are literally limited by the amount of land owned. Widespread examples of structures thousands of feet long exist. On-center spacing of trusses varies by design, with 2-ft., 4-ft., and 8-ft. intervals common.

An increasing number of post-frame commercial structures are taking advantage of exposed structural members to enhance interior aesthetics. In conjunction with glulam posts, glulams can make up the primary roof system thereby creating a glulam rigid frame structure. These buildings can be free span or have interior



Engineered wood products. PHOTO COURTESY OF APA-THE ENGINEERED WOOD ASSOCIATION.

columns, creating what is commonly referred to as a rafter-style post-frame building. In addition to glulam, the rafters could be LVL, PSL, or even wood I-joists.

Engineered wood purlins between primary roof members can allow the trusses or rafters to be spaced further apart, thereby improving economics. Beyond standard dimension lumber,



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A glulam ridge beam supports SIP (structural insulated panel) roof panels. NOTE: THIS PICTURE WAS ORIGINALLY PUBLISHED 20 YEARS AGO. FRAME BUILDING NEWS ADVISES ALL OSHA-REQUIRED SAFETY EQUIPMENT BE USED.

purlins can be wood I-joists, LVL, PSL, glulam, and parallel-chord trusses. The use of structural insulated panels can eliminate the need for purlins and wall girts completely, and provide superior strength to push posts and trusses even further apart.

SIPs are sandwich panels comprised of two layers of OSB bonded to a rigid foam core, typically expanded or extruded polystyrene. The resulting structural insulated panel can span across supports 8-ft. or even 12-ft. on center while providing superior insulation values, saving considerable labor time during construction.

Punching openings in a post-frame wall system between posts for windows and doors often does not require a structural header, which can be another cost advantage. Large openings, such as for overhead doors, can be easily accommodated with engineered wood headers. Also, if the roof member spacing



Post-frame structures offer builders many opportunities to use engineered lumber. PHOTOS BY APA-THE ENGINEERED WOOD ASSOCIATION

is closer than the post spacing, a structural header is required across the top of the posts.

Several engineered wood products make excellent headers. Glulam and PSL are one-piece, heavy-duty structural members that can transfer big loads. Large sections would typically be set in place with a crane. Headers can be built up from multiple-ply LVL beams. This can be beneficial when a crane is not available,

Engineered Wood: A Glossary of Terms

Plywood: The original structural wood panel composed of thin veneers or plies cross-laminated in layers. Plywood is an excellent floor, wall, and roof sheathing structural product.

OSB (oriented strand board): A structural wood panel composed of compressed strands arranged in layers oriented at right angles to one another. OSB is also an excellent floor, wall, and roof sheathing structural product.

LVL (laminated veneer lumber): A glued engineered wood composite lumber product manufactured by laminating wood veneers using exterior adhesives. The most common use of LVL is as a beam or header. LVL sections can be bolted together in the field up to four plies. (Check LVL manufacturer for connection requirements.)

Glulam (glued laminated timber): The oldest engineered wood product, glulam members are composed of individual pieces of dimensional lumber end-jointed together to make long lengths, which are then bonded together with adhesives. Glulam can be used for columns (posts) beams, and rafters. The entire frame of a post-frame building could be

constructed with glulam. Glulam readily accepts preservative treatments.

Wood I-joist: An "I" shaped engineered wood structural member prefabricated using sawn or LVL flanges separated by OSB webs, bonded together with exterior-type adhesives. I-joists make excellent repetitive framing members designed for uniform loads, such as floor joists and roof rafters.

Rim Board: An engineered wood component that fills the space between the sill plate or double top plate and bottom plate of a wall in a floor framing system. The role of the rim board is to provide lateral stability and transfer vertical loads from load bearing walls through the floor-ceiling assembly.

PSL (parallel strand lumber): A glued engineered wood member made of long wood fibers joined together with the length of each strand parallel to one another. PSL is an excellent column, beam, or header and can be left exposed for aesthetic purposes. PSL readily accepts preservative treatments.

Nail-lam (nail laminated timber): Composed of individual pieces of dimensional lum-

ber end-jointed together to make long lengths, which are then joined together mechanically with nails. The most typical use of a nail-lam is as a cost-effective engineered wood post attached to a sidewall in post-frame construction. They should not be used as beams, headers, or as stand-alone columns.

Metal plate connected truss: Trusses are made by mechanically fastening dimensional lumber with metal plates. A variety of shapes and sizes of trusses can be manufactured, making them suitable for simple or complex roof framing.

Parallel chord truss: A metal plate connected truss where both the top and bottom chord are parallel to one another. The use of this type of truss is typically as a structural beam or header.

SIP (structural insulated panel): Often called sandwich panels, SIPs are composed of a thick rigid foam layer sandwiched between two structural wood panel faces. They are used as structural wall and roof panels, capable of spanning great distances and providing an excellent insulation value. **FBN**

since one ply at a time can be lifted and then attached to the other sections in place. Parallel chord trusses can be the best choice for headers when a truss manufacturer is heavily involved in the design of the project and is manufacturing the roof trusses.

Post-frame manufacturers, builders, suppliers, and designers are well aware of the advantage of using engineered wood products in this evolving method of framing structures. Indeed, the vast array of post-frame examples in commercial construction today shows this to be a versatile and effective framing concept. The design community at large does not well understand all of these benefits.

Most architects don't think of post-frame construction when designing the types of buildings ideally suited for this method of construction. From an architectural standpoint, this method of framing is well worth the exploration because of the enhancements applicable to the post-frame with engineered wood components and modern engineering analysis. Post-frame construction meets or exceeds code requirements for all major model building codes. In fact, the 2000 International Building Code has provided for larger areas and heights of wood structures, greatly increasing the size of building that post-frame can accommodate.

Cost effectiveness, strength, and durability have been mentioned as benefits of post-frame construction with engineered wood components. Some of the other advantages include speed of erection, materials that are readily available, ease of creating super-insulated buildings, the possibility of winter construction, adaptability to problem sites, and since wood is very easy to work with, great design flexibility is eminent. Any time a stand-alone pitched roof commercial structure is desired, the many features of post-frame construction should make it a strong consideration.

All of these merits made post-frame construction the primary construction type for agricultural buildings many years

ago. Today, commercial structures have many of the same design criteria and the strategic use of engineered wood products with post-frame stretch the possibilities of architectural design with wood. *FBN*

Matt Brown (*matthew.brown@apawood.org*) is an Engineered Wood Specialist for APA – The Engineered Wood Association.

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Wick Buildings

Wisconsin Company Has Been Innovating For Nearly 70 Years

■ By Karen Knapstein

Founder John F. Wick established Mazomanie, Wisconsin-based Wick Buildings in 1954. Wick, who had a background in agriculture and advanced schooling in business and engineering, launched the building company to help take some of the misery out of farm work. In the mid-fifties, the existing farm buildings didn't meet all of farmers' needs. Traditional barns were built with internal support posts, which made for sturdy structures and worked fine for storing hay and as animal confinement, but it left farmers who used modern fieldwork equipment "out in the cold."

Wick Buildings president Allan Breidenbach explains: "As farming became more mechanized, and people used more of that technology, they needed a structure that was better able to adapt to those changes." Farmers needed buildings in which they could store and work on equipment. John worked with farmers to design buildings that improved productivity and animal health — buildings that required no internal supports that featured large open spaces.

"In its infancy when these types of buildings were called pole barns, you stuck telephone poles in the ground, added a frame, metal walls and a roof and called it

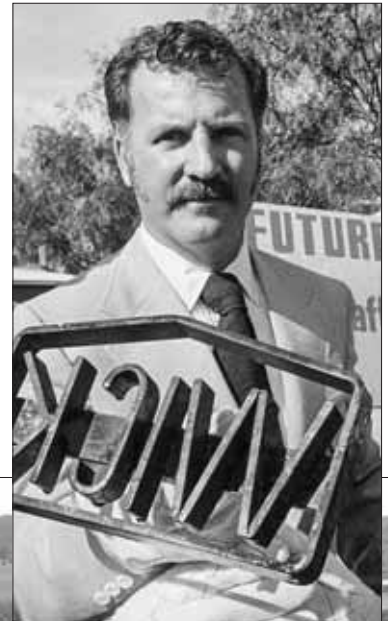
a day," he says. "Today, there's much more engineering, more flexibility in design, and the fit and finish of the structures are nicer. The evolution has gone from its infancy to a much more mature market. Engineering and design have advanced the most, but the product has also evolved to support that."

(Right) John F. Wick established the Wick Buildings brand in 1954

PHOTOS COURTESY OF WICK BUILDINGS

(Below) Wick Buildings headquarters, Mazomanie, Wisconsin, 1968.

PHOTOS COURTESY OF WICK BUILDINGS



Always Innovating

You're no doubt well aware that construction businesses face a seemingly endless list of challenges each day, including recession, supply chain issues, operational problems, staffing issues, and changes in consumer tastes. However, from its inception, Breidenbach says innovation has been the key to the success of Wick Buildings. John was an innovator for mainstreaming the construction of pole barns, but that was only the beginning. Engineering, design, and structural integrity have always been Wick's "go-to move"; those same elements are applied when moving into new markets. "That's how we'll continue to evolve; innovation and quality don't go out of style," he says.

Improved technology is another imperative for continued success. "Technology has come to play greater role," notes Breidenbach. "Computerization is part of it; the ability to create 3-D designs and photo-realistic finishes now are really helpful in the sales process."

John Wick and his family. Wick Buildings remains a business that perpetuates the strong family values on which the company was founded.
PHOTO COURTESY OF WICK BUILDINGS





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(Above) The residential market is growing as more consumers are learning about the benefits of post-frame construction. PHOTO COURTESY OF WICK BUILDINGS

(Right) Post frame interiors are free of support beams, which makes them ideal for storage. PHOTO COURTESY OF WICK BUILDINGS



solution. And the residential post-frame market is growing. “Today, when you look at the expectations of a living structure, owners want greater flexibility of space. Post-frame is great for that. There’s no structural support in the interior. You can move walls and even have big areas of glass to bring the outdoors inside, so to speak.”

He also points out that a lot of people want to be close to their animals or hobbies, so the growing appeal of multi-purpose buildings, including living spaces, is not surprising. “Post-frame offers a greater degree of flexibility than conventional construction. It’s a very natural thing to consider post-frame to fit people’s additional needs and expectations.”

Company Culture

For most of its existence, Wick Buildings has been a family owned company. In 2013, it became employee-owned through an Employee Stock Ownership Plan (ESOP); recently, it became a majority-owned ESOP. “Being an ESOP allows us to continue the core values engrained

Engineering technology had an enormous impact in the fifties. A departure from traditional agricultural construction, Wick proved that simple pole barn structures could stand on their own and meet the needs of farmers. They could now store and work on equipment indoors — and they didn’t have to break the bank to get the building they needed.

Breidenbach says manufacturing and digital technologies are of growing importance. For example, advancements in manufacturing technology make automated component manufacturing possible, which not only speeds up an already

accelerated building process, but tightens the variances, too. “We need a balance in technology – both mechanical technology (how we make things) and digital technology (how we communicate, design and sell today).”

The developments and transitions in post-frame construction throughout the decades are quite astounding. “When John started the company,” Breidenbach muses, “I don’t think he was thinking about commercial or residential applications.” This type of building was viewed as a solution to an agricultural problem, but it has developed into a widely used building

Versatility of design and layout mean post-frame construction is well suited for commercial use.

PHOTO COURTESY OF WICK BUILDINGS



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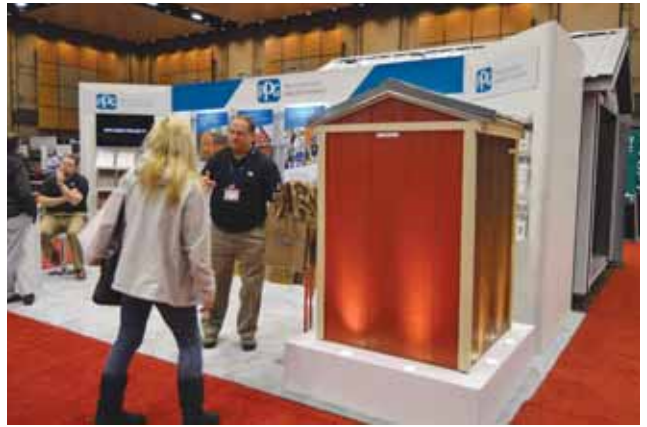
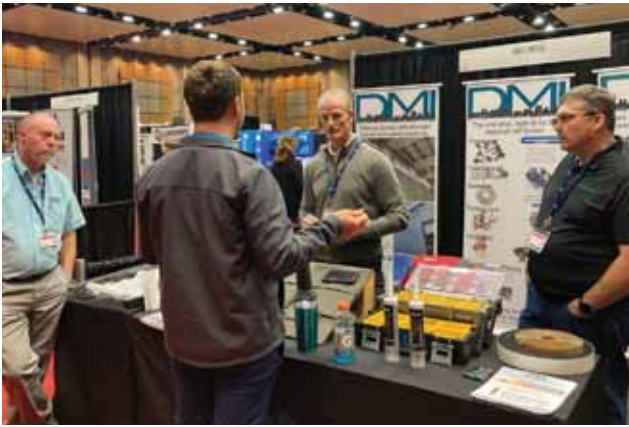
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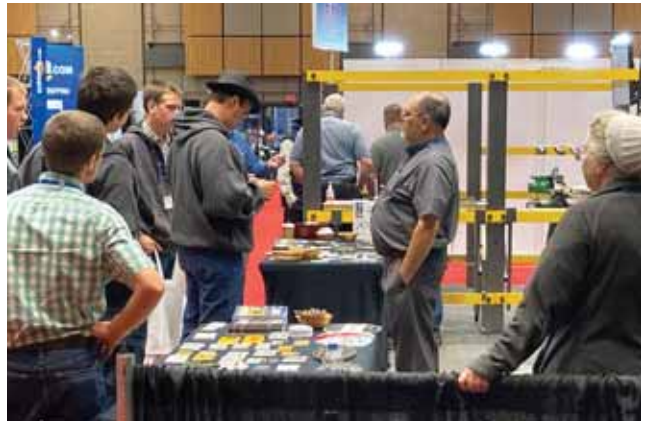
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in our employees,” Breidenbach says enthusiastically. “As an ESOP we have a high sense of accountability and responsibility to our customers; each of us is an owner. We’ve really seen in the time building up as we’ve increased our employee ownership shares that we all play a role — an important role. It has been a nice extension of the core values established by our founder.”

Exciting Times

As the sophistication of the market continues to grow, so does the sophistication of the company’s building designs, digital technology, and manufacturing technology. By upgrading its manufacturing equipment, the company will be in an even better position to meet market demands. “We’re adding automated truss systems, new saws, laminators, planers for our posts ... It’s all going to allow us to have more consistent output, tighter tolerances, and more sophisticated design,” asserts Breidenbach. “The market

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- 2 Alignment.** Make sure everyone is aligned in terms of goals and objectives so everyone is pulling in the same direction.
- 3 Empowerment.** If everyone understands their goals and objectives, give them the tools to do their jobs and let them do it.

has pushed us in that direction. The ‘same-old, same-old’ is not going to be good enough anymore in this market. Our sophistication continues to grow, as well as our throughput and capacity. It’s a move that’s consistent with our tradition of

innovation and development.


“Over the last five to seven years we’ve invested a tremendous amount on digital technology and it’s really paid off for our builders, helping their customers to be able to visualize and get the building they want. Now we’re making significant investments in our production side.”

Conclusion

While the building company was founded to solve an agriculture-related problem, it has evolved and expanded throughout the decades to serve many needs. What started as a basic pole barn has developed into a building system suitable for purposes ranging from commercial, light industrial, and even residential use. “It’s a really exciting time in our industry right now,” enthuses Breidenbach. “Sometimes that gets forgotten.” With the promise of continued innovation in products and designs, it’s exciting to see where post-frame construction is heading. **FBN**




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Post Preserver

A look at Planet Saver Industries and Its Work

■ By Marcus Josiger

Post-frame buildings are some of the most versatile structures on the market. Offering a more competitive price as well as a faster completion time, there is little to complain about. However, post-frame does have one trojan horse: moisture. That is why companies like Planet Saver Industries (PSI) dedicate their time to creating solutions for the post-frame world. PSI's response to moisture and its partner, bacteria, is a simple one: they create a polyethylene dampening system that repels moisture and partner it with a bitumen coating. Before we take a deep dive into this product, we need to take a step back and explore PSI's beginnings.

Early Beginnings

It was over 20 years ago that PSI began working on Green Post, which is a post-frame product coated with a proprietary blend to extend the product's life. It was originally inspired by a technique from the UK. Research and development began; machines as well as plastic specifically designed for post-frame had to be developed. Barry Hoffman from PSI remarked, "It was a lot of work, and there were a lot of steps to take before the product was ready to go out." Universities in both Oregon and Mississippi were tasked to perform accelerated research on the Green Post to ensure it would meet the requirements of the building industry. Despite the time- and resources-

consuming process, PSI was on its way to releasing a major product for the post-frame industry. PSI's driving force for this product's launch according to Hoffman was, "We just had the right people at the right time."

Planet Saver's Objective

PSI's objective as a company is straightforward: To provide innovation to the post-frame industry. Additionally, it is their goal to extend the life of all wooden products. Not only is it the goal to save clients' money, but prevent the headache of replacing structures because of rot, too. Lastly, providing a sustainable and environmentally friendly product is a must.



Green Post can be used for a number of projects, including post-frame shelters, sheds, and just about any other building project.

A Look into the Future

Expansion is in sight for PSI according to Barry. “We currently have two facilities open, including the original, here in Pennsylvania, but will be adding four in the near future.” With eyes set on Wisconsin, Indiana, Louisiana, and Florida the sun is shining bright on the company. Additional goals for the organization include expanding its marketing and corporate aspects, and expanding further on the post-frame industry.

Post Work

PSI receives its posts from customers only. This gives their clients the opportunity to alter and chemically treat posts to their choosing before PSI handles it. After receiving the order, PSI operators go to work with their machines. The machine requires two operators: one to load and run the machine and the other to unload and inspect posts. Notching is the first step. The patented design removes the need for any on-site alterations such as installing rebar. Following the notch,



the product is treated with bitumen and polyethylene. Additional measures are needed before the item is completed. These steps are heating the post to ensure the coatings stay on, as well as rolling the sides of the wood to ensure it is the proper size and fit.

Green Posts' Features

Green Post deters rot. That is the entire point of the product. But how does it effectively deter rot and what are its benefits? Well, for starters the posts have several notches grooved at the bottom. This is to ensure that when the post slides into the concrete, the concrete has more surface area contact with the post. Essentially it fills in the “gaps.” Furthermore, the bitumen coat, as previously mentioned, covers the very bottom of the post. This is the most critical part of the post because this is where the post contacts the cement or soil. The

added value of this applied coating is that it is eco-friendly. It creates a barricade so a treated post will retain the chemicals, and will not seep into the environment.

As an extra precaution, a coating of bitumen, a material that has been used for over 1,000 years, is applied. It essentially acts as an elastic wrap that conforms to the post shrinking or swelling. PSI uses this treatment for its entire product range. (The company accepts posts for a variety of uses including mailboxes, fence posts, agriculture structures, and many more.)

The Fight Against Deterioration

To understand PSI's work, we must recognize how decay develops. Decay initially occurs at the base of where the post is planted. It is from there to about 2 feet down that is most affected by decay. Where moisture, oxygen, and soil come together, you will find bacteria and nearby material will break down providing nutrition for the soil. This process occurs with many naturally sourced items like wood. Concrete, despite not having soil that breaks down, still allows rot. This contributes to posts shrinking during the humid summers. Post shrinkage allows water to funnel into newly formed gaps, allowing moisture-loving bacteria to eat away the wood.

FBN

Pictured here is the Green Post. Note the black, protective coating that is made from polyethylene and bitumen.

PHOTO COURTESY OF PLANET SAVER INDUSTRIES.



Wood Preservation

What You Should Know

■ Frame Building News Staff

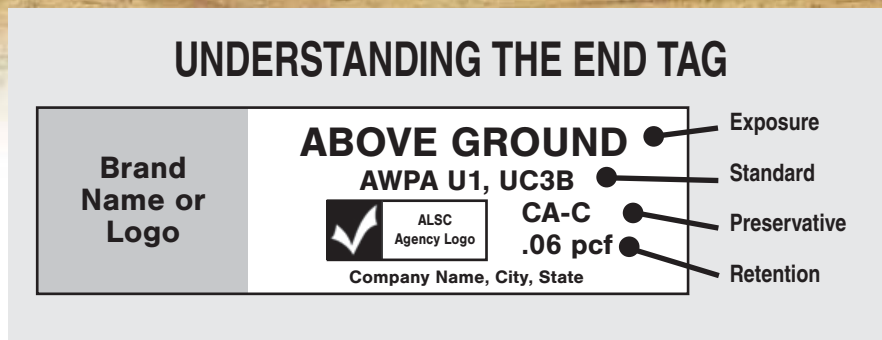
Wood preservation has a long history in the United States and around the world. The early settlers of the New World in the 17th century used wood preservatives to protect their homes and other buildings.

Significant advances in industrial processing occurred during the Industrial Revolution. Among these advances in the United States was the construction of trans-continental railroads, which created the need for crossties and switch ties. As industrial technology advanced, wood was used more frequently in exterior structural projects. Wood species missing inherent decay resistance properties failed due to biological attack, creating a need for a product that would protect wood.

Similar to many industries, the treated wood industry in the United States has evolved as new products emerge, technology advances, and environmental concerns increase. Recently, chromated copper arsenate (CCA) preservative-treated wood has been of concern. A voluntary phase-out of CCA-treated wood for non-industrial uses has increased the attention on new-generation, arsenic-free preservatives.

Choosing Treated Lumber

To achieve maximum performance



from treated wood, choose material that is appropriate for the conditions in which it will be used. Each piece of treated wood has an end tag that lets you know if the wood is meant for Above Ground, Ground Contact, or Heavy Duty Ground Contact applications. These end use descriptions refer to the conditions the wood is intended to withstand.

Most dimensional lumber is dried in a kiln. Wood does most of its warping, twisting, and cupping as it dries. It's hard to determine if you're getting a straight board when it's still wet.

Treated wood is not dried after treatment. There are exceptions to this, such as foundation grade lumber and plywood, which need to be dried to a moisture content of no more than 19 percent for lumber and 15 percent for plywood. This is referred to as Kiln Dried After Treatment (KDAT). If you

are working with other pressure treated wood, allow it to air dry before working with it.

Treated Lumber Codes & Standards

Most architects and engineers specify American Wood Protection Association (AWPA) Standards for treated wood, and they are the only wood treatment standards listed directly in the International Building Code (IBC) and International Residential Code (IRC).

AWPA treated wood standards have been developed over 110 years through an open, consensus-based, American National Standards Institute (ANSI) accredited process to ensure close review of performance data while providing due process for all participants. Many of the world's experts in wood protection serve on AWPA Technical Committees.

AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) PRESERVED WOOD USE CATEGORIES

UC2 Interior Construction, above ground, damp

UC3 Above Ground, exterior construction
UC3A - Coated, rapid water runoff
UC3B - Uncoated, poor water runoff

UC4 Ground Contact, fresh water
UC4A - General use
UC4B - Heavy duty

Use Category (UC) information is found on the end tag or treatment stamp



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Treating Cut or Damaged Boards

The AWPA Standard M4 requires the use of borates for interior uses and copper naphthenate or oxine copper for primarily exterior uses. For borates, commercial products such as “Bora-Care” may be used, but saturated solutions of borax and/or boric acid in hot water may also be used. “Outlast Q8 Log Oil” is a commercially available oxine copper product which can normally be found at log home supply companies. Copper naphthenate can be hard to find, but it may be stocked at paint, hardware, and building supply stores.

Another method of treating wood is by applying topical liquid treatments. They may contain biocides, insecticides, and pesticides to protect exterior timbers from the elements, insects, and UV light protection.

These treatments are usually applied with a brush or sprayer, with the chemicals soaking into the wood to provide the desired protection to the wood. The main problem with applied treatments is that they only soak part of the way into the wood so the timbers may not have complete protection, especially on the non-treated side.

Treating or sealing cut ends is important with any treated lumber product, however, maintaining a sealed end is most important when using pressure treated lumber in-ground, such as fence posts and landscaping/retaining walls.

Pressure Treated Wood

Pressure treated lumber is insect and rot resistant which makes it a good solution for use in areas that are prone to moisture, for example places where wood comes into contact with concrete or any exterior masonry below grade. Other uses are for decks, boardwalks, landscaping tiles, underwater dock pilings, playgrounds, and poles. However, it is important to note that the pressure treating does not prevent corrosion and weathering and you should, therefore, take other preventive actions as well.

Mold resistant wood is specifically designed to do what it says...resist mold growth and is not a replacement for pressure treated wood. Mold, although

unsightly and a potential source of airborne toxins, is not a great threat to wood structure and the soundness of wood members. Mold resistant wood should not be used outdoors or in areas expected to be in contact with soil or masonry such as sill plate because it does not have the insect and rot resistant properties of pressure treated wood.

Fire Retardant Wood

Under AWPA Standards, preservative treatment and fire retardant treatment are two different things. Preservatives are expected to protect the wood from decay, fungi, and termites every day over a long period of time. Fire retardants are expected to remain in the wood and protect it from a one-time event. Some preservatives do impart some fire retardancy, and some fire retardants can act as preservatives to an extent. At this time, there is only one AWPA standardized product which may be used both as a fire retardant and wood preservative, and it is only listed for interior uses. Apart from this, these two types of treated wood should not be used interchangeably.

Treated Wood Fasteners

AWPA's standards do not supply information regarding corrosion of fasteners and connectors in the field. Therefore, they suggest using fasteners that meet the requirements of the major model building codes, which specify hot dip galvanized steel, stainless steel, silicon bronze, or copper fasteners. The model codes also allow for the use of mild steel fasteners for wood treated with inorganic boron (SBX) in dry environments. There are hundreds of fastener coatings available, so it is important to follow the fastener manufacturers' recommendations regarding compatibility of their fasteners with pressure treated wood. **FBN**

- *American Wood Protection Association, awpa.com/info/technical/builders*
- *Simpson Strongtie*
- *2018 International Building Code (IBC) <https://codes.iccsafe.org/content/IBC2018P2/chapter-23-wood>*

Wood Treatment Safety Update

Wood preservatives can pose risks to human health and the environment if they are not handled correctly. Following treater directions is important.

Some preservatives are of particular concern. Currently chromated arsenicals, creosote, and pentachlorophenol are undergoing registration review, which is cyclical in nature. Every 15 years pesticides are reviewed to determine whether they can be used without unreasonable risk to health and the environment. In 2021, the EPA determined that pentachlorophenol's risks outweigh its benefits and they have proposed denying their registration.

Chromated arsenicals have been voluntarily canceled in most residential settings. They are registered for use in commercial wood poles, posts, shakes, shingles, permanent foundation support beams, pilings, and other wood products permitted by approved labeling. Creosote is also reserved for specific commercial applications.

Recently, the EPA has registered several new active ingredients for wood preservatives with lower toxicity profiles as compared to older preservatives. As required under section 3(g) of FIFRA, these newer wood preservatives will be re-evaluated through EPA's registration review process.

The following chemical wood preservatives are currently registered for treatment of lumber to be used in the residential lumber and timber market:

- Alkaline copper quaternary (ACQ).
- Borates.
- Copper azole.
- Copper naphthenate.
- Copper-HDO
(Bis-(Ncyclohexyldiazoniumdioxycopper)).
- Polymeric betaine.

Of these chemicals, ACQ is currently the most widely used wood preservative for residential applications.

*epa.gov/ingredients-used-pesticide-products/overview-wood-preservatives-chemicals **FBN***



Ladder Lock Extension Ladder Stabilizing Assembly

Master carpenter turned inventor and entrepreneur, Andrew Parsons, has announced the launch of Ladder-Lock™, a ladder conversion kit designed to increase the safety of its users by improving an extension ladder's overall stability. Compatible with most 16- to 24-foot extension ladder models with hollow rungs, its patented technology significantly decreases the users' chances of serious injury and even death.

The Ladder-Lock™ features two adjustable legs that connect at the ladder midpoint and two adjustable arms that anchor to the ladder's lowest rung, creating four points of contact that eliminates kicking out, sliding and tipping, and supports more weight than a ladder alone. Aluminum rods are inserted through the hollow rungs of both sets of legs and braces generating an ultra-sturdy base capable of bearing loads over 450 pounds.

ladder-lock.net



Decked Traction Mat

DECKED introduces Traction Mat by SeaDek to combat the aggravation of cargo or gear sliding around in a truck bed. DECKED partnered with SeaDek to bring its marine-

grade, self-adhesive, closed-cell ethylene-vinyl acetate (EVA) foam padding to the DECKED truck bed Drawer System.

The company's patented Drawer System helps your truck bed work harder and store smarter. And the Drawer System's top deck will hold up to 2,000 pounds of gear on top of the in-bed drawer storage. But when it comes to offering a slip-resistant surface, the recycled high-density polyethylene (HDPE) plastic deck can leave some to be desired in inclement weather. The new DECKED Traction Mat by SeaDek solves this problem, while adding some color and unique style to the Drawer System's top deck.

The Traction Mat is router-cut to match the topography and geometry of the Drawer System for uninhibited access to stored gear, and does not interfere with Drawer System removal or reinstallation. What's more, removal leaves no residue or fragments should one decide it isn't their cup of tea.

Installation is easy; the 6mm-thick Traction Mat comes with an adhesive back which performs like a giant sticker. Users start at the tail-gate end of the bed, remove the first few inches of the protective film covering the adhesive surface, align it and stick it to the deck panel, then slowly begin peeling the backing off and pressing the mat to the panel as they go.

decked.com



Slingshot Safety Glasses

Here's one Slingshot that's good for the eyes. New Brass Knuckle® Slingshot™ (BKFLEX-4050AFP) loads up on eye-protecting features and puts them in a package that manages to be sporty and stylish – and affordable and functional. Slingshot brings together world-leading anti-fog and the highest UV protection, adds all-day-wear comfort features, and never breaks the bank.

Fog and UV rays are ever-present bullies to workers in extreme plant conditions and out in the elements. Much like David and Goliath, this Slingshot fights back against these bullies and levels the playing field.

These safety glasses — with lean, green

frames — are part of Brass Knuckle's new anti-fog collection, which features BK-Anti-Fog+ technology. Fused directly to the lens, rather than sprayed on like others, it delivers better and longer-lasting fog-free protection. BK-Anti-Fog+ also beats the toughest anti-fog standard in the world, EN 166/168. It also adds ANSI Z87.1/U6 ultraviolet protection, the highest standard in the world, to eliminate 99.99% of damaging UV rays.

Wearers enjoy extra-chunky molded nose-pieces for added comfort, earpieces that fit snugly at the ears without putting the squeeze on temples, and a lighter weight that helps prevent nose divots and keeps glasses in place.

www.brassknuckleprotection.com



304 Stainless Steel Self-Drilling Screws

Triangle Fastener Corporation announces the addition of two new sizes to their line of SD300™ stainless steel bi-metal self-drilling screws. Now available in a #12 diameter in 1" and 2" lengths. They come with a pancake head and #2 square recess and can drill and tap up to .210" thick steel or aluminum. They provide exceptional corrosion resistance and ductility, minimizing the chance of screw failure caused by stress corrosion cracking or hydrogen embrittlement.

- Made of 304 stainless steel for optimal corrosion resistance.

- Low profile pancake head is aesthetically pleasing when used in exposed fastener applications.

- Screws are TRI-SEAL® coated which minimizes galvanic corrosion when used in aluminum applications.

- Great for attaching aluminum materials like framing and ACM panels.

TFC provides a full line of standard and specialty fasteners, sealants, flashings, and tools for metal building, metal roofing, low slope roofing, steel decking, steel framing, and miscellaneous cladding materials.

www.trianglefastener.com

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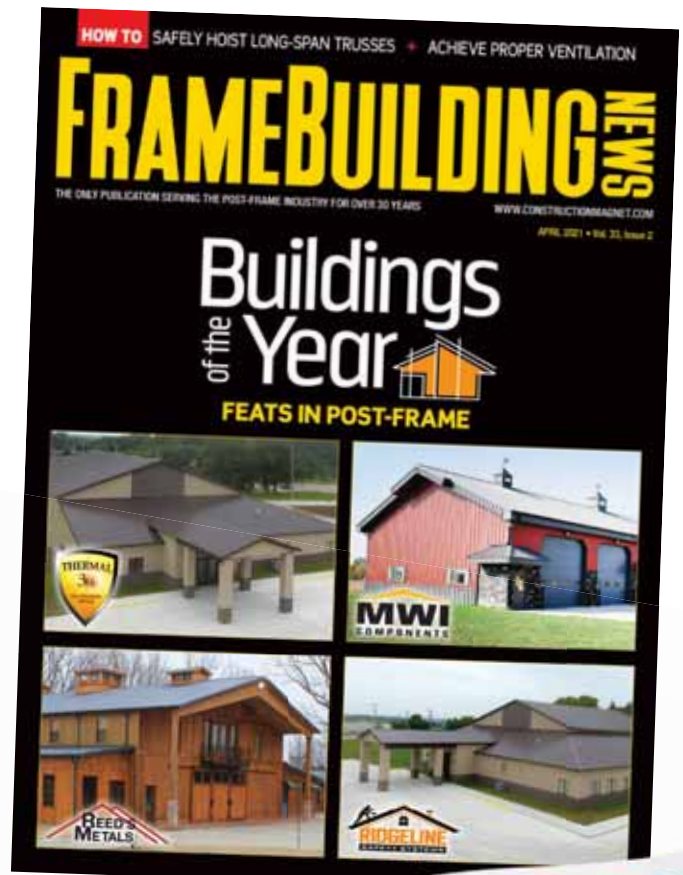
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Metal Devil Circular Saw Blades

The fourth generation of Metal Devil circular saw blades from The M. K. Morse Company sets a new precedent for cutting performance. Delivering unrivaled blade life, faster, cooler cutting, and optimum surface finish, the Metal Devil line features a versatile family of blades for cutting steel, stainless steel, and aluminum/non-ferrous materials.

With multiple blade sizes for each application, the line can partner with any tool, from handfed to chop saws, to make faster, cooler, cleaner cuts with a smooth, burr-free finish that needs virtually no rework.

Premium grade materials improve blade durability and maximize life for customers. A thin kerf blade creates less heat for a faster cut and less battery drain when using cordless tools. Optimized tooth geometry reduces vibration for improved surface finish, less rework and enhances blade versatility.

Each of the three blade applications offer unique features and benefits for users. The steel cutting blades have a 220 percent longer life in steel plate than the previous generation of Metal Devil blades, and last more than 30 percent longer than the top competitors when cutting Unistrut and square tubing.

The aluminum/non-ferrous cutting blade boasts 153 percent longer life than the top competitor in 80/20, and 48 percent longer life in aluminum plate.

The stainless steel cutting blades have 328 percent longer life than the top competitor when used on stainless steel tube.

All blade life information is based on internal product testing results.

www.mkmorse.com

Wright Adjustable Wrenches

Wright introduces two new adjustable wrenches including an extra-slim jaws wrench

and a reversible adjustable wrench, both with extra-wide capacity.

The extra-slim adjustable wrenches feature an extra-slim jaw design, super-wide opening and feather weight that's up to 50 percent thinner, 78 percent wider and 68 percent lighter than standard adjustable wrenches of similar sizes. The slimmer jaw design makes it easier to access tight spaces. The extra-wide capacity wrench with extra-slim jaws is available in sizes 6" and 8".

The reversible adjustable wrench is two wrenches in one—an adjustable wrench and a pipe wrench. The reversible jaw has the teeth and the angle to make it easy to work on pipes. Designed with an extra-wide jaw capacity, it allows operation over a wider range of nuts and bolts using the same size wrench. The reversible adjustable wrench features a double scale that has millimeters on the front and inches on the rear for multipurpose use. The reversible adjustable wrench is available in sizes 6", 8", 10" and 12".

Both of the wrenches have handles that



Extra-slim adjustable wrench from Wright.

are secured with high-impact thermoplastic, which guarantees stability of the handle even with extreme twisting and pulling and resists damage from banging and accidental dropping.

The entire line of Wright adjustable wrenches ranges in sizes from 4" to 30".

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www.wrighttool.com

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Campground Camp Store

Cape May, New Jersey

The Robbro building is at Mount Holly Shores Campground in Cape May, New Jersey. It is used as a store (offering everything needed to make a vacation enjoyable, from camping essentials to made-to-order fresh-fruit smoothies and milk shakes) and a recreational area for guests staying in the campground. *FBN*

<https://pioneerpolebuildings.com>



PROJECT DETAILS

- BUILDER:** Pioneer Pole Buildings
- LOCATION:** Cape May, New Jersey
- PROJECT & SIZE:** Holly Shores Camp Store, 36' x 73' x 20'
- PRIMARY SUPPLIER:** UFP Industries
- ROOFING:** Everlast Roofing Frontier Panel, 27 ga., Heron Blue
- SIDING:** Everlast Roofing Frontier Panel, 28 ga., Light Stone; 1" x 6" pine tongue & groove siding
- WAINSCOT:** Everlast II Economy Panels, Heron Blue
- TRUSSES:** UFP Industries, 4/12 pitch
- POSTS:** Rigidply Rafters, 3-ply 2x6, treated
- POST PROTECTION:** Post Protector
- HOUSEWRAP:** Perma-Pro, 5,000 sq. ft.
- DOORS:** (3) 9-lite Fiberglass w/composite jamb, (1) full glass commercial entry door, white aluminum outswing
- WINDOWS:** Pella 250 Series solid vinyl gliding windows w/ screens & grilles
- DECKING:** Tongue & Groove Plywood
- FASTENERS:** Ledger Lok Screws, Titan Heavy Duty Screw Anchors
- HARDWARE:** Simpson Strong-Tie USP hangers, plates, beam-to-post hangers
- VENTILATION:** Vented soffit
- INSULATION:** 1st floor ceiling: R19 fiberglass roll; exterior walls: R21 fiberglass roll; 2nd floor ceiling: R38 fiberglass batt
- OTHER:** Vinyl porch ceiling, aluminum fascia cover

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For tips on great building photos read Jeff Huxmann's article, How to Take Great Shed Photos:
<https://garageshedcarportbuilder.com/how-to-take-great-shed-photos/>

Submission is not a guarantee of publication. We reserve the right to edit content.

If you have any questions about the Project of the Month, contact an editor:

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EVENTS CALENDAR //

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Nov. 6-8, RoofCON Roofing & Solar Conference, Orange County Convention Center, Orlando, Florida; roofcon.com

Nov. 8-10, FABTECH, Georgia World Congress Center, Atlanta; www.fabtechexpo.com

2023

January

Jan. 17, Wisconsin Lumber Dealers Leadership Conference, Wisconsin Dells, WI. www.nlassn.org

Jan. 18-19, Garage, Shed & Carport Builder Show, Greenville Convention Center, Greenville, South Carolina. garageshedcarportbuilder.com/show-registration/

Jan. 23-25, MCA Winter Meeting, Hyatt Regency in Clearwater Beach Resort & Spa, Clearwater, Florida; www.metalconstruction.org

February

Feb 6-7, Northwestern Lumber Association Expo North, St. Cloud, MN. www.nlassn.org

Feb. 22-24, Frame Building Expo, Kentucky International Convention Center, Louisville, Kentucky; nfba.org

Feb 28-Mar 1, Northwestern Lumber Association Expo Nebraska, La Vista, NE. www.nlassn.org

March

Mar 2-3, Northwestern Lumber Association Expo Iowa, Des Moines, IA. www.nlassn.org *FBN*

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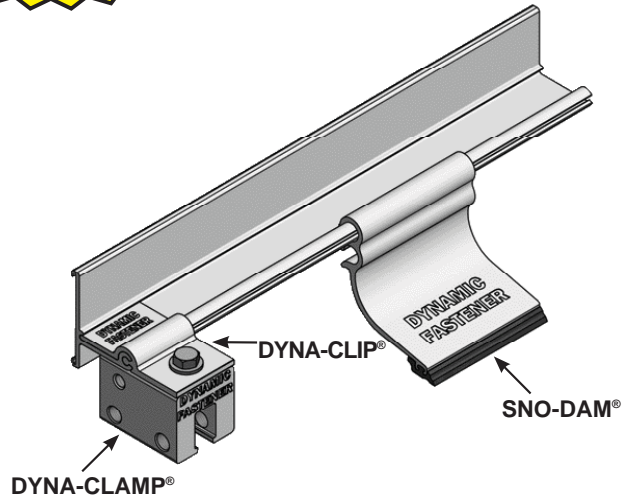
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