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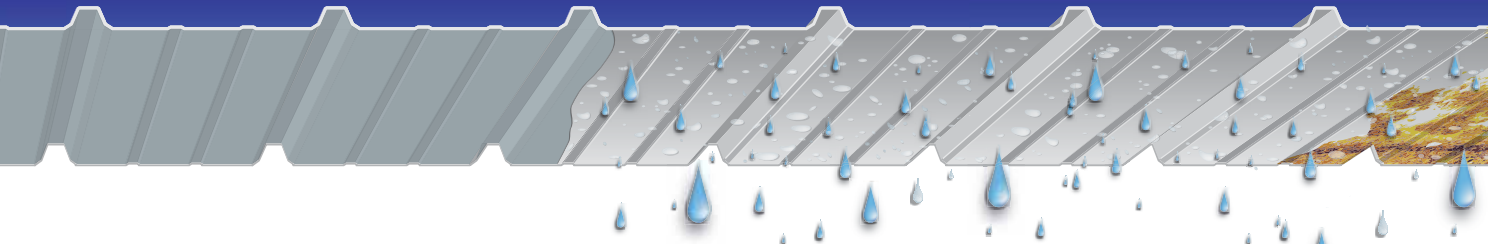
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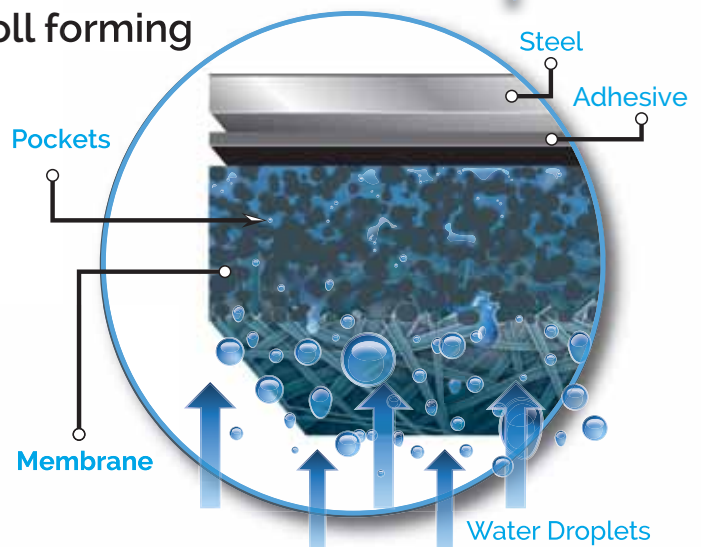
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On The Cover: Western red cedar wood garage door from Safe-Way Doors' "Ridge" series. **Above:** "Monarch" doors. COURTESY OF SAFE-WAY DOORS

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What Do You Think?

Being relatively new to construction media, speaking with industry professionals — manufacturers, builders, suppliers — is invaluable to me. I feel like I've learned a lot over the last six months, but I know it's just a drop in the bucket compared to what you, as professionals, know.

Over the last several weeks I've been hounding — yes, hounding — people in the know in an effort to create a magazine that you find value in. The result is this very first edition of *Garage, Carport & Shed Builder Magazine!*

I hope I've succeeded and that you do find value in it and are inspired by it. Feel free to drop me a line and let me know what you think. I'm counting on you all to let me know what you would like to see added to this magazine. (Subscribe by filling out and sending in the form on page 17.)

Speaking of inspiration, I'd like to take this opportunity to ask all of the builders out there: Have you built a garage, carport, or some sort of shed that you are especially proud of? Have you built a shed that you would like to show off?

If you have, please send me a high resolution photo and a brief descrip-

tion and we'll see if we can't gather up enough submissions to have a regularly scheduled "Shed Showcase" in each issue.

My door is always open. Drop me a line at karen@shieldwallmedia.com or snail mail Karen Knapstein, GCSB Editor, C/O Shield Wall Media, PO Box 255, Iola WI 54945.



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Garage, Carport & Shed Builder Show

New Construction Trade Show Slated For 2021

When we announced the launch of *Garage, Carport, & Shed Builder* magazine, the response was overwhelmingly positive. There was an immediate buzz and the excitement was palpable. It was clear that this is an underserved segment of the construction trade.

To meet the needs of this segment, in 2021, Shield Wall Media will launch a new trade show — The Garage, Carport & Shed Builder Show — at which builders and contractors can find information, resources, and insights to grow success and increase profits.

The venue and dates are not yet finalized, said Shield Wall Media publisher Gary Reichert. “But one thing is certain: The reason the Construction Rollforming Show and *Rollforming Magazine* launched successfully is because we listened to you.

“Some shows are shrinking, some publications are struggling,

but we are smiling ear to ear and growing. The reason we can grow when others struggle is we know our business and realize that you know yours.

“The show details, date, and location should be finalized by April,” Reichert continued.

Consider this an open invitation: Tell us what you want in the magazine or at the show. What information can we provide that is valuable to you? Working together, we succeed together.

“We are growing because of your knowledge,” said Reichert. “Let’s work together to grow the industry and make the Garage, Carport & Shed Builder Show a huge success!” **GCSB**

Send suggestions to Gary Reichert (gary@shieldwallmedia.com) or Karen Knapstein (karen@shieldwallmedia.com).



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Vice Chair, Construction Industry Alliance For Suicide Prevention Appointed

Associated Builders and Contractors has announced Greg Sizemore, the association's vice president of health, safety, environment, and workforce development, has been appointed vice chair of the Construction Industry Alliance for Suicide Prevention. In this role, Sizemore will help support the alliance's mission to address suicide prevention as a construction health and safety priority and achieve a zero-suicide industry.

Men in the construction and extraction industry had the highest rate of suicide among all occupational groups in the U.S. in 2015 according to the Centers for Disease Control and Prevention.

AAMA, IGMA Unify, Form New Trade Organization

The American Architectural Manufacturers Association (AAMA) and the Insulating Glass Manufacturers Alliance (IGMA) have officially combined into one organization with the new name: Fenestration and Glazing Industry Alliance (FGIA). After a July 2019 vote by both bodies to unify, the two organizations have come together as of Jan. 1, 2020.

The AAMA and IGMA boards of directors met in early December to finalize the vision and mission of the unified organization.

The vision focuses on improving home and building performance through better glass, window, door, and skylight technologies and standards. The FGIA strives to be a welcoming community, lead-

fen-es-tra-tion
noun ARCHITECTURE
 the arrangement of windows and doors on the elevations of a building.

ing the glass, glazing, and fenestration industry through research, consensus-based standards, product certification, advocacy, and education and professional development.

FGIA 2020 events include, but are not limited to: the FGIA Annual Conference, Feb. 10-13, Marriott Harbor Beach, Ft. Lauderdale, Florida; the Southeast Region Winter Meeting Feb. 13-14, same location; and the FGIA Summer Conference June 22-25, Fairmont Chicago, Millennium Park, Chicago. **GCSB**

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The blue sheet door on this backyard shed adds a “pop” of color.

COURTESY OF STEVE HAJIEWSKI, TRAC-RITE DOORS

Function First

Are All Garage Doors The Same?

BY KAREN KNAPSTEIN

All garage doors share one purpose: to securely close off the large openings in garages and other sheds to keep what’s inside safe.

Where you find the differences is how they operate, how good they look, what kind of insulation value they have, and a few other considerations.

Billy Thompson, vice president of sales for Safe-Way Doors, explained the basic types of garage doors, how they work, and the applications of each type. His company has a wide variety of products, from entry-level doors to high-end residential doors. He explained that choosing the right garage door depends on what the owner’s architectural requirements are and what they’re trying to accomplish with their building. Are they choosing a door for a standard, catchall shed? Or are they aiming for more curb appeal?

Sheet Doors

At the lowest end of the garage and shed door design spectrum is the sheet door. Often called “roll-up doors,” “coiling doors,” or “rolling service doors,” sheet doors come in a simple corrugated design and roll up onto a drum when opened. Sheet doors are very utilitarian:



They get the job done, but there's not much design choice. "[They're] pretty commercial," Thompson said.

Trac-Rite Doors [www.tracrite.com], a division of Trachte Building Products, is one of the world's largest producers of self-storage building systems. Based in Sun Prairie, Wisconsin, and 100 percent employee-owned, Trac-Rite has been producing doors since 1981 and has recently expanded its facility. Steve Hajewski, marketing manager with Trac-Rite Doors, said the expansion added a new forming line and robots that now make many of the doors.

Trac-Rite receives coil steel that's coated with siliconized polyester paint and they roll-form the steel to form the ribs. The corrugations, the track mounting, and the bottom bar all contribute to the high wind rating of this company's doors. In fact, Trac-Rite's base model 944 sheet door has a wind rating of 130 mph on a 9'-wide opening. The company manufactures doors that measure from 3' x 3' to as large as 16' x 16'.

While sheet doors are primarily used in self-storage applica-



This photo shows how important door selection is. In this case, it's the first thing seen from the street and strongly impacts curb appeal. COURTESY OF SAFE-WAY DOORS

tions, they are also used for sheds and garages, Hajewski said. Shed makers, he explained, tend to stick to the Iced White color for economies of scale. He said it's common to use all white doors and add pops of color by painting the walls or adding colored shutters.

Trac-Rite does offer its doors in 16 different colors. Hajewski said years ago, sheet doors were primarily manufactured in bright, gaudy colors. It seemed like all storage units had them. "There's been a huge shift in color preferences," he said.

"One of the most popular colors recently is Shale, which is a nice, neutral, almost grayish-tan color that's been immensely popular." He said black has been popular, too. "When people saw how classy black doors look on a tan building, the color has taken off."

Another improvement of sheet door construction in recent years can be seen in the door springs. Hajewski said old self-storage doors would have problems with the coils rusting together and the springs would break. Around 2006, Trac-Rite switched to using a coated EP3 spring that includes a rust-prevention coating. He said some door manufacturers alleviate the problem of rusting springs by applying a thick coat of lubricant, but Trac-Rite prefers the EP3 spring: "It's not messy and it seems to have greatly extended spring life."

The advantages of installing a sheet door include cost effectiveness and easy installation. Plus, sheet doors require less head and side room. For Trac-Rite roll-up doors, only 2" of space on the sides of the opening are needed for door jambs in metal or wood-framed construction, and only 4" of space are needed for masonry. Depending on the size of the sheet door, as little as 15" of head room is necessary for the door installation. (The larger the door, the larger the drum that the door rolls onto, and the more head space that



(ABOVE) Highly functional sheet doors are mainly used in self-storage units. Trac-Rite Doors offers 16 different colors.

COURTESY OF TRAC-RITE DOORS/TRACHTE BUILDING PRODUCTS

(LEFT) A modern look: Regency garage doors in Madera Black with Contempo glass.

COURTESY OF SAFE-WAY DOORS





This shed with an offset center ridge sports an Anniston model carriage-style door with windows. COURTESY OF KEVMAR MANUFACTURING

is required.) Sheet doors maximize the space inside.

Adjusting the tension on a sheet door is another advantage. “Dealing with the tension on a sectional door can be a little scary,” said Hajewski. “But on roll-up doors, it’s usually a pretty simple ratcheting mechanism.” When you install a roll-up door, to put tension on the spring, you wind it a few times against the coil. To adjust the tension, it’s a simple matter of turning the ratchet wheel located at the end of the drum.

Sheet doors are easy to install, Hajewski said. A do-it-yourselfer and a buddy can install a roll-up door in about 20 minutes. On the downside: If a sheet door is damaged, you have to replace the whole door since it’s a single piece (you can’t just replace a section or two). Sheet

doors also have low thermal value and you don’t have any design options. “If you’re installing on a heated or cooled building, you’re going to want to use a sectional door,” Hajewski advised.

Steel Sectional Doors

Safe-Way Doors [www.safewaydoor.com] is a family-owned company headquartered in Warsaw, Indiana. The company is a leading manufacturer and distributor of residential, commercial, and industrial overhead garage doors.

Company vice president Billy Thompson said one big advantage of sectional garage doors is there are an abundance of panel options. If made of steel, the steel can be stamped with any number of design details. There are also thermal considerations.

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Thompson said there are only a few types of residential steel sectional doors, and their insulation value varies widely.

All sectional doors fall under these types:

- The pan-type garage door has an open back and no insulation. The door is comprised of hollow-formed steel sections connected together. Pan doors have no R- or U-value; these are generally the least expensive type of sectional door.
- A pan door with a vinyl-back insulation insert has an R-value of 6.00.
- A three-layer steel-back door with a steel front and back and a polystyrene core has an R-value of 10.25.
- The door with the greatest insulating value is the three-layer steel-back door with a steel front and a polyurethane



Ambient™ Madera carriage-style doors from Safe-Way Doors. COURTESY OF SAFE-WAY DOORS

core, which has a 17.68 R-value. When considering what type of panel garage door is appropriate for a project, Thompson said you need to base the decision on what the owner is trying to accomplish with their building. Is it a standard shed? Is it a catchall? Is it a “shed”? Or are they looking for added

curb appeal? He recommended one first determine the goal of the building, and then look at what options are available. Establish the functionality, then consider what the owner is trying to accomplish architecturally.

Safe-Way manufactures doors from very basic, functional commercial doors



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varieties.

Thompson said the sky's the limit when it comes to sectional garage door design. He said there are Safe-Way doors that achieve whatever look the owner is striving for. Full vision doors give a more contemporary look, but there are also carriage house doors, more traditional-looking overlay-type designs (doors with crossbuck designs stamped in the metal), columns, arches ... with the ability to stamp designs into the steel, and many long-lasting finishing options, the possibilities can be overwhelming.

Each type of panel door can be customized through design details and different glass options. Safe-Way Door uses at least double-strength glass in all of its doors. Sometimes it installs ½" insulated glass, or ½" insulated tempered glass, but the minimum is double-strength glass. Ultimately, it depends on the application and what the architects and home or building owner request.

Builders should guide their customers first to function, then to form. But remember: Don't let the building owner try to put off choosing their door; it has to be a part of the design and planning process.



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MORE INFORMATION COMING SOON!

Fiberglass Sectional Doors

Kevmar Manufacturing [www.kevmarmfg.com] is a regional, family-owned manufacturer of garage and shed doors that sells directly to shed builders. In the garage door industry since 1986, they deliver in the Midwest and South, and ship LTL to other locations. Willis Miller, an owner/partner, said Kevmar has been producing garage doors since 2004. They began making molded fiberglass garage doors in 2007, and in 2017, they introduced their line of shed doors, which “have been well accepted within the industry.”

“The shed industry is a vibrant industry and very good to work with,” Miller said. “Delivering smaller, more basic doors to shed builders allows builders to purchase not only pan-type doors, but the rest of the Kevmar product line, as well.”

“One thing that’s changed a lot in the industry — much like the post-frame industry — is the color selection,” he added. “Initially, white was about it for color for steel garage doors. Kind of like the post-frame business, colors and designs have grown exponentially in the last 10 years or so. Color and design of garage doors is becoming much more important.”

Kevmar steel doors are available in unique panel designs and five colors. The Kevmar insulated steel door offerings include a 2"-thick urethane-filled door in a commercial or post-frame version and a residential version. The company’s current maximum door size is 18' wide x 14' high.

Miller said they also offer a line of high-end molded fiberglass doors. The fiberglass is molded to replicate a conventional wood door with deep panel profiles and wood grain. They are available factory stained or painted, and they are also available unfinished. He said fiberglass is an excellent material for manufacturing garage doors because they can be molded with accurate detail compared to steel: “It’s very precise and predictable.”

He said Kevmar doors are “extremely dent-resistant” and available in an optional Stormguard version certified for wind speeds up to 130 mph for coastal, hurricane-prone areas. “Fiberglass insulates better than steel and will never rust,” he added.

A recently added model is a smooth, flush steel door that is available in 35 colors, including Western Rust and Galvalume.



(ABOVE) A Toronto four-section door with brass-camed lights by Kevmar Manufacturing.



(LEFT) Molding garage door sections in fiberglass allows for high definition and fine detail. Fiberglass doors can be ordered painted, stained, or unpainted. Shown here in Mahogany and Walnut finishes. COURTESY OF KEVMAR MANUFACTURING



“The entire window section in this model is all glass and frameless,” Miller explained. “The exterior looks like a single sheet of black tinted glass. The glass is tempered and very impact-resistant.”

Miller said the most dangerous aspect of installing sectioned garage doors is winding the torsion and tensioning springs. “Follow the manufacturer’s instructions,” he advised, “and it should be fairly easy and safe to do with a minimal amount of experience.”

Regardless of whether a sectional garage door is made of steel, wood, or fiberglass, the “pros” of selecting a sectional door include: more panel designs, more window and architectural options, greater curb appeal, and they can be more durable. Plus, if you damage sections, you can replace only those damaged sections; you don’t have to replace the entire door as you would with a sheet door. Also, insulated garage doors have very good thermal performance, which will save your customers money when enclosing a heated or cooled space.

The cons include: Sectional doors require more head and side room, they are more complicated to install, and they cost considerably more.

In the end, when deciding on a door for your shed project — whether it’s a she-shed, man-cave, garden or machine shed — you need to first consider the purpose of the building. **GCSB**



Framing Options

Wood Works & Steel Stands

BY KAREN KNAPSTEIN

When deciding how to build a shed, several factors should be considered when determining the type of construction to use. What's the shed's purpose? How big will it be? Are there environmental factors? (Salty sea air or tidal surges? Will the shed be in an earthquake area?) How fast does the shed need to go up?

Wood frame construction is still the predominant method of single-family home and homestead construction in the U.S. As a renewable resource, wood is easy to work with and economical. For hundreds of years, it's been the first choice of builders.

With that being said, it's important, too, to take a look at the increasing popularity of framing with steel. While framing with steel accounts only for a minute percentage of new low-rise construction, it is growing. We'll look at a few reasons why building with steel makes sense, too.

Stud Frame: The Tried And True

Stud wall framing with wood is tried and true. Consumers trust it. The American Wood Council, in its publica-



Modern post-frame design prevents rot by keeping wood away from the soil.

COURTESY OF SHARON THATCHER

tion “Details For Conventional Wood Frame Construction,” said, “History has demonstrated the inherent strength and durability of wood frame buildings.” Most people are familiar with the traditional 16- or 24-on-center wood stud-framed construction method. It doesn’t take a lot of time, manpower, or equipment. Using studs to frame remains

popular because people are most familiar with it. Just two people can build walls and stand them up and get them ready to roll. They can set the trusses on top of the sill plate and build a building without large equipment.

There’s no argument that stud framing is a good choice for small-scale sheds. But let’s explore a couple other options.

According to recent census data, wood framing is still the preferred construction method for single-family residential housing. As the gaps narrow between steel and wood prices, as steel is recognized as an ecologically responsible material to build with, and as builders are educated about the medium, a larger percentage of new buildings are sure to be erected with steel framing.

Cold-Formed Steel: Up & Coming

A recent announcement from the Steel Framing Industry Association points to the growth of steel framing:

“Led by strong performance in the volume of structural cold-formed steel framing products, total manufacturing volume of cold-formed steel framing stud and track increased in the third quarter of 2019 from 295,961 tons to 297,193 tons, according to the latest Quarterly Market Data Report released by the Steel Framing Industry Association. Structural


Getting Started With Steel?

Want to learn more about building with cold-formed steel? Larry Williams, executive director of the Steel Framing Industry Association, recommended starting at www.buildsteel.org. The website has good information and resources about how to get started, basic framing methods, and information about tools and equipment that you might want as you get ready to start using steel. For a list of places where you can buy steel, visit www.cfsteel.org; search the member directory for “Suppliers.”

products, typically used for load-bearing applications such as exterior walls, lateral force-resisting systems, floors, and roofs, reported a 5.8% increase in manufacturing volume.” [cfsei.memberclicks.net]


Larry Williams, executive director of the Steel Framing Industry Association (SFIA), said using cold-formed steel to build sheds is a good choice: “With a shed, you’re going to have more exposure to things that will degrade a product, like water and bugs. Cold-formed steel is ideal in an environment like that.”

BuildSteel.org lists five top reasons why cold-formed steel is a superior choice for




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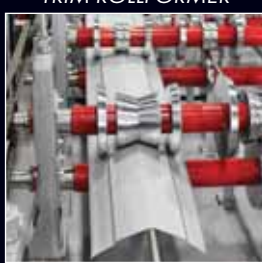


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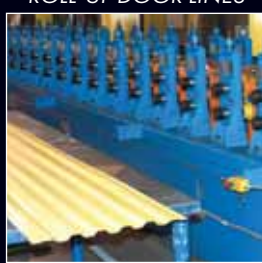
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This particular ag building project is one of the biggest Wick Buildings has completed in the last 20 years. Designed to hold bulk cottonseed, the shed itself is 99' x 200' with 25' eave height. While most of their buildings take one to two trucks to deliver all the posts, trusses, and other components, this building took nine trucks to deliver everything.

PHOTO COURTESY OF WICK BUILDINGS

construction: It's cost-effective, durable, sustainable, non-combustible, and easy to install.

1) Cost-effective

Due to manufacturing efficiencies and incorporating recycled steel in the

process, cold-formed steel studs now only cost about 30% more than wood studs. While they cost a bit more, there is very little waste with cold-formed steel. The quality is consistent and it's a very predictable product. Steel studs and track don't warp, twist, or shrink like wood.

Every piece is straight and true and stays that way, which makes the construction process easier.

2) Durable

Cold-formed steel is impervious to pests like termites and other insects; it's resistant to corrosion and mold. Williams said some studies have shown the typical zinc coating will protect the steel from corrosion for up to 1,000 years. "For a shed, the coating on the studs is generally heavier than what's used inside, so it may last longer," he added.

3) Sustainable

"Steel is the most recycled material in the world," said Williams. Cold-formed steel is 100% recyclable, which will make it a more appealing choice to some cus-

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tomers. All cold-formed steel contains recycled content; plus, at the end of a steel-framed building's product life, the steel components could once again be recycled.

4) Non-combustible and resilient

According to the Steel Recycling Institute, cold-formed steel has the highest strength-to-weight ratio of any building material. It's non-combustible and resistant to extreme environmental and seismic loads.

5) Easy to install (after the learning curve)

Cold-formed steel studs and tracks are lighter than dimensional lumber, and straight components mean corners are square and walls are straight. Williams

said, "There's a little bit of a learning curve when you first start using it. But, I universally find that people who build with steel — once they get through the learning curve — prefer it to working with other framing material and methods. It's always straight and it's extremely consistent."

An additional thing to note if considering venturing into building with metal studs: If the shed is to be heated or cooled, a thermal break may be necessary because metal conducts cold much better than wood.

Big Results With Post-Frame

In a nutshell, post-frame construction uses large posts buried in the ground or mounted on a foundation as a vertical structural support; girts fastened



There's a learning curve when getting started with cold-formed steel, but many builders prefer it once they've gotten through the curve. COURTESY OF STEEL FRAMING INDUSTRY ASSOCIATION



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between the posts provide horizontal support. The posts in post-frame can be 8' or more on-center.

Post-frame buildings used to be seen as temporary, said Elmer Sensenig of Richland Laminated Columns. The bottoms of the wood posts would rot in the ground and the buildings would fail. Sensenig said you need three things to rot wood: moisture, bacteria, and oxygen. "If you take one of those elements away, your wood won't rot." Nowadays, the standard practice is to mount the posts on the foundation or poured concrete wall, or use a barrier on the part of the post that is in the ground, such as GreenPost, or use a product like Perma-Column (a concrete column on which the post is mounted). The posts don't budge and they won't rot.

The benefits of building with post-frame include quick construction times and lower construction costs. An experienced two- or three-man crew can easily have a post-frame shell erected in just three days.

Post-frame suits large sheds. The structural design allows for clear spans up to nearly 100'. You can construct much higher walls due to the larger structural members. And, there is often a need for large wall openings to accommodate moving equipment in and out of the building in agricultural, suburban, and equestrian buildings. Since the walls of post-frame structures are not load-bearing, there are no limitations for door size or placement.

Of course, the post-frame components can get big. And the trusses — really big.

Handling the larger material can require much heavier equipment than the saw, hammer, and other hand tools needed with standard wood stud framing.

Heavy-Duty Heavyweight

One construction method we don't hear much about is joisted or load-bearing masonry. This labor-intensive construction method requires stacking concrete blocks, bricks, or similar material, and the floors and roof are constructed of wood or steel. The materials are readily available, the walls go up quick, and cinder blocks are somewhat cheap. Using this type of construction for a building is quite labor-intensive. But, if your client is in the market for a storm shelter for their homestead, this may be the way to go. **GCSB**

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Dress It Up

Exterior Cosmetic & Finishing Options

BY KAREN KNAPSTEIN

There is a lot of competition in the shed market. When you visit the outside lots at big-box home-improvement retailers, there are often sheds for sale on display. These prefab sheds are often very basic — built with stud walls and finished with hardboard or engineered wood siding. With prices starting at a couple thousand dollars, you may think it's hard to compete with retailers and their ready-made shop and drop sheds.

You can make your sheds — both large and small — stand out among the competition by taking the exterior finish from nondescript to remarkable. Make your buildings more than just functional; make them a point of pride. By choosing quality finish options, you assure your customers that they aren't buying a disposable building from you.

Stand Out With Siding

If you're going to use wood siding, make the finish count. When your customers provide their color choice, it's up to you to choose or recommend quality stains and finishes that will hold up.

One of the outstanding arguments in favor of metal siding is that, in addition to coming in any color imaginable, a 40-year warranty against fading and rust-through is pretty standard, reducing the maintenance over the life of the building. Plus, it's bug-proof and animal-proof, and replacing a panel is a simple matter should the siding be damaged; these are all details that gain points with your customers.

CertainTeed just announced its newest siding product: CERTAplank™. The product is made in the U.S. and is available nationwide. Its wide-faced, durable vinyl cladding combines modern

(TOP) A cupola and divided-light windows help dress up this poolside building. See page 46 for information about cupolas and weathervanes.

COURTESY OF ROYAL CROWNE

hardboard looks with a 7" lightweight slim but rigid profile that can be installed quickly and safely, and requires virtually no upkeep.

"Fiber cement and wood planks are cumbersome and heavy, and they require special tools, extra crew, and safety gear to install. CERTAplank resolves these installation issues while delivering a beautiful, flat-face hardboard look," said Kara Radcliffe, director of vinyl siding product management for CertainTeed.

Because CERTAplank is lighter weight and more flexible than fiber cement or natural wood siding, contractors can hand unload CERTAplank without any special equipment, storage, or stacking requirements. Panels will not crack or chip, and there are no OSHA restrictions on handling or cutting material outdoors. Any standard ¾" siding accessories can be used as trim, including standard new construction window J-Channel.

Wainscot

One of the most common things people ask for to dress up a shed is wainscot. Wainscot shortens the look of a tall sidewall with a complementary or contrasting color and/or texture.

The owners also gain the benefit of protection with wainscot. If the grandkids are playing with ATVs and run into the side of the building, the owners don't have dented



This large post-frame "shouse" features divided-light windows, a cupola, a corner porch, and faux stone URESTONE wainscot. COURTESY OF REPLICATIONS UNLIMITED

steel that they have to replace. Using more durable wainscot is a plus. A lot of things can dent steel in the bottom 3'.

Replications Unlimited manufactures a maintenance-free URESTONE line of textured products that replicate the look of stone, brick, and rustic wood. The URESTONE Series is a composite of a hard-coat surface backed by high-density foam and finished off by hand painting with high-quality exterior paints. It is impact-resistant, looks authentic, and they have projects that have been installed for a decade in the field without significant fading.

The URESTONE panels are lightweight, have an R-value from 5 to 7, and are easy to install. "One of our more popular options for dressing up a shed is our wainscot series," said Replications Unlimited vice president Jerrod Jarboe. "This series

has a ledger built into each panel and creates a quick install as a skirting." It can be installed by anyone with basic carpentry skills. The panels cut easily with any type of saw and install with glue, screws, and caulk. (Make sure to use fasteners appropriate for the substrate.) If installing on more than one layer of panels, make sure to stagger the seams.

"URESTONE removes the need for any extra foundation or footing typically required to support the weight of real stone," Jarboe continued. "It removes the need of a mason, which, depending on the region, can be difficult to find."

Natural Light

Windows and doors are functional, but different styles can dramatically change a shed's appearance. Installing windows and doors with divided lights add a more

This impressive post-frame residence features Replications Unlimited's URESTONE wainscot as one of its design details. COURTESY OF REPLICATIONS UNLIMITED





Two very different metal roofing looks. (TOP) Seamed panel in Aged Metal from A.B. Martin Roofing Supply. (BOTTOM) Ribbed-steel roof coated with Sherwin-Williams Coil Coatings' WeatherXL Crinkle Finish..



Starting At The Top With Roofing Options

You can alter the mood of a building just through the selection of the roofing material. Asphalt is certainly an option, but metal can offer the same style and look with better longevity. The Metal Roofing Alliance outlines four of the most common styles of metal roofing: shingle/slate, tile, shake, and vertical panels.

Metal Shingle/Slate

Metal shingles create the distinctive look of smooth, uniform slate tiles. For those who appreciate a classic appearance, these shingles provide outstanding performance and value.

Metal Tile

Standard tile roofs can be heavy yet fragile and are often costly to maintain. Metal tile, however, has the graceful curves of classic tile, but the lightness and strength of stone-coated steel.

Metal Shake

Metal shake is the investment-grade alternative to traditional wooden shake. You'll love the authentic look of wood, while gaining a variety of color choices with longer-lasting, more durable metal.

Vertical Panels

Featuring clean lines and a traditional style, vertical panels offer a modern twist to the traditional look of metal roofing. Sleek, practical, and economical, pre-painted vertical panels are available in a wide range of color options.

COURTESY OF METAL ROOFING ALLIANCE, WWW.METALROOFING.COM

“homey” look to a shed, while single-light windows look more utilitarian.

Trimming the exterior adds a decorative look and keeps the inside of the shed dry by preventing water from entering between the wall and the window. Trimming out windows and doors with an accent color gives the shed a more finished look.

If your customer is concerned about break-ins through windows, consider using translucent roof panels or skylights.

A bit of caution: If you're going to put in skylights, don't go cheap. You can cut holes in a roof and do it correctly and not have leaks, but you need to do it right. If you're going to put a Pella skylight in the roof of a building with a steel skin, you need to buy the Pella kit that is appropriate for sealing it up with installation. Recognize with any penetration of the roof, you can have the issue of leaks.

Another option for natural lighting is Palram polycarbonate panels. Palram's SUNSKY® corrugated polycarbonate panels are lightweight, impact-resistant, and suitable for year-round use. Matching metal profiles is not a problem, as Palram's proprietary MetalMatch technology allows for rapid matching of existing corrugated metal profiles. As a result, Palram has developed “the world's largest catalog of corrugated polycarbonate profiles.” Using simple woodworking tools, the polycarbonate panels can be mounted as wall panels or as roof panels. Plus, “SUNSKY profiles feature coextruded UV protection. In fact, SUNSKY is warranted for 10 years against loss of light transmission due to yellowing, and against damage due to hail.”

Palram also produces SUNTUF panels. “SUNTUF is a great choice to bring your outdoor spaces to life,” Palram says. “These attractive polycarbonate sheets offer a variety of light transmission and color options to fit any style, while also providing maximum impact resistance and a broad service temperature range.

“SUNTUF is lightweight, durable, and easy to cut and drill using basic woodworking tools, plus features 99.9% UV protection, keeping the panel — and everything underneath of it — protected. Equip your home's outdoor living area, storage space, or shelter for nearly any weather condition.”

MWI Components also offers high-quality corrugated polycarbonate sheets with high-impact resistance, available in many profiles and lengths. MWI offers the sheets in Soft White, Solar Gray, Clear, and Opal.

Change The Roof Pitch

Post-frame construction is a popular choice when building large sheds because it's cost-effective, a building goes up quickly, and the frequently used steel skin makes for a low-maintenance exterior. A 4/12 pitch is pretty standard on post-frame buildings, but a steeper-pitched roof will detract from the “pole barn” look.

If you change the roof pitch from the standard 4/12 pitch to 6/12 or 8/12, it gives it a different look.

Having a steep enough roof pitch may allow enough extra



An attractive color scheme, walk doors and windows with divided lights, and a metal wainscot dress up this farm shop.

COURTESY OF MORTON BUILDINGS

room for a loft. A loft amounts to bonus space in a smaller shed and can add up to a lot of usable space in a larger shed.

A Case For Understatement

Morton Buildings is a leader in the post-frame industry. They pride themselves on unrelenting quality and will involve themselves at whatever level their customers want. Dan Nyberg, sales training manager, has plenty of experience seeing to it that customers are satisfied with the end result.

Morton designs some extraordinary exteriors, but in some cases, owners don't want their buildings to be noticed. They don't want their building defined by the exterior finish. Nyberg said they've built a number of buildings where it's the only building on the property, and the last thing they are interested in is drawing attention and making people think "Wow! There's got to be good stuff in there." He recalled a case where they built a post-frame shed on a remote property. "It was the only building on the property," he said. "I built one building where everything on it was brown. Walk door: brown. Sidewalls: brown. Roof: brown. Trim: brown. Overhead doors: brown. And it was a situation where this individual used it as his getaway and his hunting cabin. But if someone happened to be walking on his property, the last thing he wanted them to do was to see a building that was really dressed up, that was really tricked out, and they would thus be drawn to it and say, 'There's got to be good stuff in there. Let's bust in and find it.'

"You can dress them up, but there are times when people are interested in keeping it looking as simple and plain as possible so it doesn't draw exceptional interest to it and that's usually when it is in a remote location or when it is the only building on the property."

In cases like this, you wouldn't put any lights or windows in the walk doors. And, if the customer wants windows in the building, they would be placed higher up on the sidewall so

anyone outside could not look in.

All in all, listening to what your customers want, and going above and beyond what they expect, makes them more likely to come back to your business. It also makes them much more likely to recommend you to their friends and colleagues. **GCSB**

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Fit For Living

Over the past two decades, with the latest incarnation of the tiny house movement, more people are realizing there are big advantages in building small. There is an appeal to a low-maintenance tiny home; homeowners can focus on experiences rather than maintaining a large home and acquiring “stuff.”

Building small opens up the opportunity to build for more people. It goes without saying that smaller buildings are more affordable. But smaller buildings also work better on smaller parcels of land, such as lakefront and riverfront lots and plots that don't require investment in infrastructure.

Small, simple structures don't have to skimp on security, comfort, or appeal. While one can survive with the bare minimum of shelter for a cabin getaway, added comforts (while keeping safety in mind) may make the project even more than your customer had hoped for. It may lead them to recommend you to their friends and family (which is a valuable bonus), a tidy little side business may sprout for you, and your customers will remember you when they have another project.

Off-Grid Amenities

Cabins are unique in that they are at home situated in the middle of nowhere. Of course, that means there may not be access to electricity for heat and light. If the cabin is going to be off-the-grid and your customer still wants electricity, consider

Shed Options To Think About For A Safe Cabin Hideaway

BY KAREN KNAPSTEIN



using a simple solar panel hookup. A couple of 100-watt solar panels charging a deep-cell battery produce plenty of electricity to power low-wattage fixtures.

Accommodating a heat (and cooking) source like a woodburning box stove is very common in rustic cabins. If the owner decides they wish to use a wood- or pellet-burning stove, you will want to make sure the cabin has the proper safety accommodations. Cinder block can be used on the floor, but consider using cement board instead of drywall or paneling on the walls near where the stove will be installed.

Using liquid propane (LP) is another lighting, heating, and cooking option. According to the Alaska Outdoors Supersite, installing a few LP-fueled light fixtures and a cooktop in addition to an externally vented LP-fueled heater is enough to make a small, well-insulated cabin comfortable on even the coldest of nights. (Hint: Use a pair of 40-pound tanks stored outside so when one tank runs dry, you're not left in the cold.)

Powering Up

If roughing it isn't appealing to your clientele, hooking up to “the grid” and wiring the cabin to be powered by a generator if the public system fails is the way to go.

Morton Buildings' training manager, Dan Nyberg, shared a lot of valuable insights when we discussed using sheds as cabins. At Morton Buildings, the builders do as much or as little as the building owner wants, so Nyberg has plenty of experience and was able to shed light on some things you may not have otherwise considered.



(ABOVE) This large cabin from Wick Buildings incorporated a hunting stand in the design. COURTESY OF WICK BUILDINGS

(RIGHT) Adding a porch to a small cabin extends the living space outside.

COURTESY OF JODIE WALTON, UNSPLASH.



He said one option to power a cabin is to have a static generator set so it will automatically kick in if the power goes out. It has to be wired into the overall electrical system, in terms of the way it goes together during the initial electric system setup.

Another option is to have auxiliary power on demand. “If the power goes out, they start the generator and throw switches to connect to the building,” he explained.

“You can build a building where you simply have the plug access so you can have a generator that you carry with you, but if you’re at your cabin and the power is out, you can power up the portable and connect it to the wiring in the house.”

Nyberg shared an unsettling caution:

“Another thing to think about is when you’re powering your cabin by generator, you must be disconnected from the electric grid that you normally used. Your transformer that steps power down works both ways. When linemen are working on power lines, they expect them to be dead. Your generator can feed power back into those lines. Make sure it’s wired correctly so you’re totally disconnected from utility

service power.”

The auxiliary power setup should be built in when they plan their electrical service,” he said. “It must be wired correctly so someone doesn’t inadvertently electrocute a lineman.”

Cabin Security

There are many details and steps that you can build into a cabin for added



(ABOVE) Dual porches expand the living space of this post-frame cabin from Morton Buildings. COURTESY OF MORTON BUILDINGS



(LEFT) Notice the solar panel, solid entry door, and steeply pitched roof on this “pontoon houseboat.” COURTESY OF JACALYN BEALS, UNSPLASH

(RIGHT) This tucked-away cabin with loft has faux log siding, manufactured wood siding, and is roofed with galvanized steel.

COURTESY CARA FULLER, UNSPLASH

security. The most basic is as simple as camouflaging the building with siding and roof colors. “There are times when people don’t want to dress up a building,” Nyberg said. “We’ve built a number of buildings where it’s the only building on the property and the owner had us make everything brown to downplay what’s inside. The individual used it as his hunting cabin and getaway. But if someone was walking on his property, he didn’t want any attention drawn to it.

“When the building is in a remote location, or when it’s the only building on the property, if no one ever sees this building exists, that would be perfect,” he added.

Another simple thing that adds security, Nyberg said, is don't put any windows in the walk doors. "If they want windows, put the windows high on the sidewalls so you can't look in," he added. "Put the base of the window at 8' or 10'."

He said, "This may seem extreme, but not totally: We did some buildings that people wanted well-protected. They were secluded and remote. They put bar sections on the insides of the windows so that if someone were to break a window, they couldn't gain entry because the bar section was there. The bar section can be removable or hinged so when you're sitting in the house you don't have to look through them. If people on the outside see that bar section, it's a deterrent by it

easily turn off. The last thing you want to do is provide people with the electricity to run their power saw to cut through the wall of your cabin and rip you off," he explained.

"Another thing you can do is be sure when you leave, if you have an overhead garage door, have a manual lock and disconnect or unplug your electric door operator," he advised. "Because door operators operate on a radio frequency and thieves can use a frequency emitter. If the building is unattended, make sure you disconnect the remote-operated door and have a manual lock that locks that door down on the inside so no one could open the door if they tried to force it."

He also advised to install a separate

ple will set up technical security systems. The system has a sensor that feeds to a smartphone so the owner always knows what the temperature is. "If the temperature drops [like if someone breaks a window], they see there's a problem," he explained. Systems like that require an internet connection, but they allow the owners to observe remotely. Plus, security cameras in today's world, with motion-sensing exterior cameras, can be a big help when it comes to dealing with problems like vandalism or theft.

Living Space: Up & Out

Building a cabin with a gambrel roof with tall enough sidewalls will accommodate a loft to be used for added sleeping space or general storage. As will building with a more steeply pitched roof. When building a lofted cabin doesn't have very tall sidewalls, make sure the loft space is over the bathroom and kitchen. People don't spend much time in those spaces, so a lowered ceiling won't be as much of an issue.

Nyberg said if it feels like the cabin isn't big enough, think about adding outside living space.

"Add a porch to it; it gets away from the look of a shed, but also gives you covered space outside," he said. "If you're building a smaller cabin — because of the cost or the footprint/land restrictions, or you just need it for a couple of people — then a porch gives you a covered area that's protected and can be used as [additional] living space."

Post-Frame Cabins More Than Metal

While post-frame construction comes to mind most when buildings are on the larger side, using post-frame construction lends itself well to building living spaces. "Because of the deeper wall, all HVAC, electrical wiring, and plumbing can typically be run inside our vapor barrier without cutting holes in the columns

just being there."

Having an exterior electrical outlet is convenient for owners. It can also be convenient for crooks. "A lot of people like to have exterior electrical outlets," he said. "If you're going to build a cabin and you're not there that often, those outlets should all be on circuits that you can

dead bolt and have interior lights set up on timers. Also, if you have animal doors cut into the building (or doors), you better have a way of totally sealing that opening when you're gone. "Small people can slip in and unlock everything from the inside."

It's becoming more common that peo-



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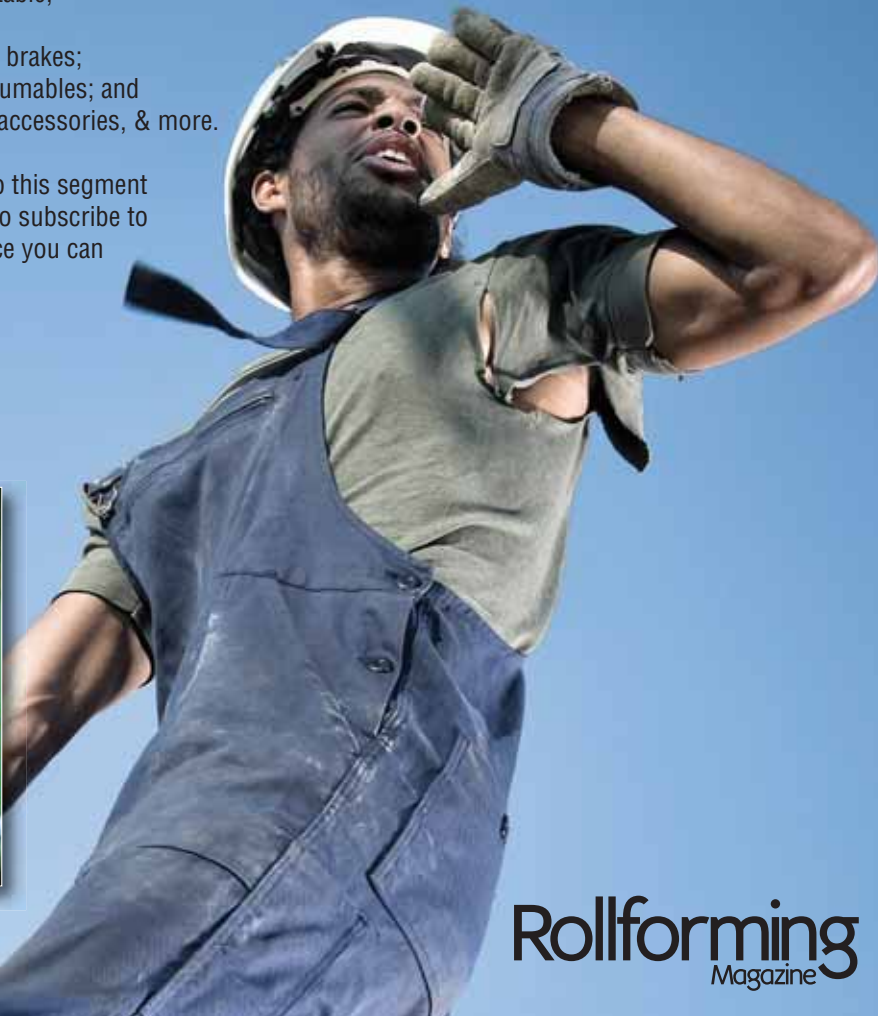
Roll-formed metal wall and roof panels comprise a large portion of the agricultural, commercial, post-frame and residential construction markets. *Rollforming Magazine* is dedicated exclusively to this section of the construction trade.

This specialty publication is a platform to share and discuss developments in roll-forming technology, operations, and opportunities.

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The brown and green color scheme on this post-frame cabin blends in with its surroundings.
COURTESY OF MORTON BUILDINGS

or breaking the seal of the barrier that keeps insulation dry,” Morton Buildings’ website says. “Standard stick-built construction runs the wiring through the studs, which further compromises the energy efficiency.”

Nyberg said the benefits of post-frame construction and a steel exterior are you can get a low-maintenance exterior, done quickly, and in a cost-effective way. There are no bug infestations, it’s animal-proof, and the superior paint system reduces maintenance over the life of the building. And it’s one of the easiest exterior finishes to repair if needed. “If you have a cabin and have lap siding, and you have a tree that falls and beats up that siding, you have to replace a lot. But if you have steel, you take off a couple of sheets. If you have cedar siding, you have to find matching siding, you have to blend it in, and you have to refinish it, too,” he explained.

Wildfires have been in the news a lot lately. An added benefit of a cabin having a metal roof and siding is that the metal won’t catch fire should an ember or firebrand land on it. The building won’t be fireproof, but it will be far more fire-

resistant than if it had a cedar-shake roof and wood siding.

“There are some people who will be interested in this kind of a building, but the low maintenance of steel isn’t enough of an advantage for the added expense of the metal. So the beauty with post-frame construction is you can use any kind of a siding or roofing that is commercially available. You can use lap siding with a shingle roof and they can achieve that different look.”

Spray Foam Works Great, But ...

Nyberg said he has recently noticed more people using spray foam inside the wall cavities. “One thing to think about when you use spray foam under the steel skin: Think to yourself, ‘How do I replace one sheet of steel when it gets damaged?’ Like when a tree falls on it or the ATV runs into it.

“You shouldn’t apply spray foam directly on the steel,” he advised. “Once that foam sets up, you’ll never get that sheet of steel off. Put a building wrap over the framing, under the exterior steel, and put spray foam against the building wrap.” If there isn’t a barrier between the spray-

foam insulation and the steel, you’ll have to cut through the steel to get the foam separated from the rest of the wall cavity that’s full of foam. You’ll then need to re-insulate that area and then replace the exterior steel panel.

An even better route to go, Nyberg said, is to cover the post-frame structure with oriented strand board (OSB), then use spray foam insulation, and then put the steel on. “You get a phenomenally solid building,” he said. “You’ve created a strong building and have a good seal of spray foam and the ability to replace the steel exterior relatively easily. Where most people are making mistakes using spray foam is, your building becomes too tight to be healthy,” Nyberg said.

Insulation + Ventilation: Creating A Comfortable, Healthy Space

Creating a strong, weather-tight building envelope is great, but it can cause unexpected problems. If you have an “airtight” building envelope, you have to have air exchange. Nyberg said when you use a steel roof, you have to have a ventilated attic.

“The ventilated attic allows air to move through so when you get condensation, the air coming in from the vented soffit picks up humidity and moisture and exits through the ridge vent.”

You can put insulation above a conditioned space (ceiling) and ventilated air coming through will be warmed and absorb humidity and exit; it’s a continual drying action. “Putting overhangs with vented soffit adds cost, but if you create a building without ventilation, it creates significant problems.” Everything that you put into your building gives off volatile organic compounds (VOCs). Don’t trap the VOCs inside with the people using the cabin — your customers.

In order to keep your customers happy and healthy, give them a cabin they can enjoy safely. **GCSB**



For more information on products offered by the companies featured in this issue, use the Reader Service form on the facing page and select the corresponding number.

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EVENTS CALENDAR

FEBRUARY

3-7. World of Concrete. Las Vegas, Nev. www.worldofconcrete.com.

4. Wisconsin Lumber Dealers Leadership Conference. Wisconsin Dells, Wis. www.nlassn.org.

4-6. International Roofing Expo. Dallas, Texas. www.theroofingexpo.com.

10-13. American Architectural Manufacturers Association Annual Conference. Fort Lauderdale, Fla. www.aamanet.org.

13-14. Fenestration and Glazing Industry Alliance Southeast Region Winter Meeting. Fort Lauderdale, Fla. www.aamanet.org.

20-22. Construction Institute Summit. Los Angeles, Calif. www.cisummit.org.

26-28. National Frame Builders Association Frame Building Expo. Des Moines, Iowa. www.nfba.org.

27-28. Northwestern Lumber Association Expo South. Council Bluffs, Iowa. www.nlassn.org.

MARCH

3-4. New York Build Expo. New York City, N.Y. www.newyorkbuildexpo.com.

8-10. North American Wholesale Lumber Association Leadership Summit. Palm Desert, Calif. www.nawla.org.

9-12. Associated General Contractors of America Convention. Las Vegas, Nev. www.agc.org.

9-12. World of Modular Annual Convention & Tradeshow. Orlando, Fla. www.modular.org.

10-14. CONEXPO-CON/AGG. Las Vegas, Nev. www.conexpoconagg.com.

21-22. Globalcon Conference & Expo. Boston, Mass. www.globalconevent.com.

22-26. Association of the Wall and Ceilings Industry Convention & INTEX Expo. Las Vegas, Nev. www.awci.org.

23-27. Associated Builders and Contractors Convention. Nashville, Tenn. www.abcconvention.abcc.org.

26-31. International Institute of Build-

ing Enclosure Consultants International Convention and Trade Show. Houston, Texas. www.rci-online.org.

APRIL

6-9. Building Innovation Conference & Expo. Arlington, Va. www.buildinginnovation.org.

14-17. North American Iron Workers/IMPACT Conference. Chicago, Ill. www.impact-net.org.

15-17. National Insulation Association Annual Convention. Scottsdale, Ariz. www.insulation.org.

20-22. Adhesive and Sealant Council Convention & Expo. Chicago, Ill. www.ascouncil.org.

21-24. PaintExpo. Karlsruhe, Germany. www.paintexpo.de.

22-24. NASCC: The Steel Conference. Atlanta, Ga. www.aisc.org.

2021 MARCH

4-6. Frame Building Expo, Gaylord Opryland Resort and Convention Center, Nashville, Tenn. www.nfba.org. **GCSB**

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Member-Needs Survey

The creation of the Construction Rollforming Association was announced at the December 2019 Construction Rollforming Show. Its purpose is to advance the safety and productivity of the industry, and we ask for your feedback as we continue to form and grow the Association.

1. How are you involved in the roll-forming industry?

- Roll forming or related machine manufacturer
- Coil or material supplier
- Roll former
- Use roll formed roof or wall panels purchased from a roll former

2. Are you currently a member of a professional or industry association?

- Yes
- No

3. How well do existing associations meet the needs of equipment manufacturers?

- Not at all
- Need improvement
- OK
- Good but not perfect
- Great
- N/A

4. How well do existing associations meet the needs of material suppliers? (coatings and coil)

- Not at all
- Need improvement
- OK
- Good but not perfect
- Great
- N/A

5. How well do existing associations meet the needs of roll formers?

- Not at all
- Need improvement
- OK
- Good but not perfect
- Great
- N/A

6. Are current associations a good value for the money invested in membership?

- No value for investment
- Marginal value for investment
- Fair value for investment
- Good value for investment
- Great value for investment

7. Please rank the following five functions as most important for an association:

- Education on topics such as best practices and safety
- Offer industry functions such as trade shows or conferences
- Publicizing the industry to gain acceptance and credibility with end users or consumers
- Provide networking opportunities for manufacturers and suppliers within the industry
- Attract or train qualified applicants to the industry to increase the available labor pool

8. Please describe any additional function(s) you would like a new roll-forming association to perform:

9. Would you like information on participating in the Construction Rollforming Association?

Note: Dues will be \$0 for all membership categories until we are able to demonstrate value for your investment.

- Yes
- No

Take the survey online at:

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FALL

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- Internal finishing and cosmetic options for garages
- Selling against DIY carport kits
- Delivering and installing sheds
- Product Profile: Exterior Finishing: Panels, Sheeting & Siding

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- Product Profile: All Parts, Products & Components

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2020 - 2021



Sweet Success

Construction Rollforming Show Wows Exhibitors, Crowds

BY SHARON THATCHER

An enthusiastic audience attended the inaugural Construction Rollforming Show in Cincinnati, Ohio, Dec. 12-13. Show owner and coordinator Gary Reichert, publisher of Shield Wall Media LLC, defined it as a successful show, with many exhibitors of metal panel and metal trim roll-forming machines reporting solid leads and sales on the show floor.

“For a first show I think we did very well,” Reichert said. “There were some first-time glitches, but those are to be expected. Visitors were willing to overlook the hiccups after seeing the quality of exhibitors and educational speakers, all targeted to their niches as roll formers. Based on feedback, I expect next year’s show will be significantly better and larger.”

The 2020 show will return to the Duke Energy Convention Center in Cincinnati on Dec. 10-11. “This seems to be the heart and geographic center of roll forming,” Reichert explained. Information about the show will be provided online at www.constructionrollformingshow.com in the months ahead.

The idea of the Construction Rollforming Show was born from feedback Reichert received over the years as an ad salesman in the construction trades. Other shows were failing to capture the true needs of small- to mid-size panel roll formers. “The people who know the industry told me about gaps where needs were not being met. All I did was listen,” said Reichert.

When he formed Shield Wall Media in mid-2019, the Construction Rollforming Show became one of his top priorities.

As a result of the show, a trade association is being formed to assure continued input from the businesses and individuals involved the roll-forming industry. *Rollforming Magazine*, published by Shield Wall Media, will become the voice of the association as it continues to help advance the safety and productivity of the industry. Still in the formation stage, more information about the association will be announced as it becomes available. **GCSB**





(ABOVE) Ventco/
ProfileVent

(LEFT) Overview of
the show floor

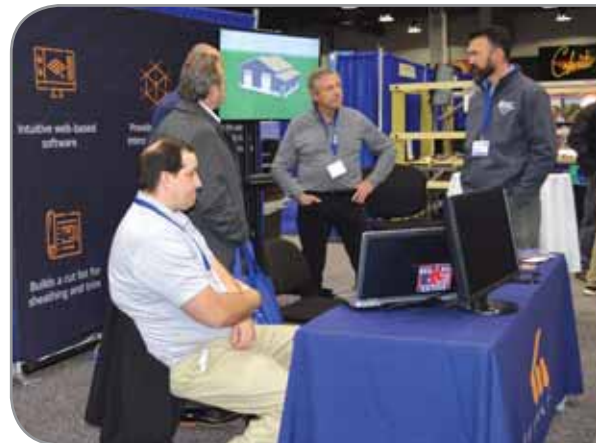


Attendees walk the first-ever Construction
Rollforming Show in Cincinnati, Ohio.



(ABOVE) Plyco
Corporation

(LEFT) Show floor
entrance and
registration



SmartBuild Systems



If you are interested in becoming involved with the Construction Rollforming Association, contact: gary@shieldwallmedia.com

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From the publishers of *Metal Roofing Magazine*, *Frame Building News*, *Rollforming Magazine* and *Garage, Carport & Shed Builder*.

Rural Builder provides the news, features, products and how-to's geared towards builders and suppliers of primarily low-rise agricultural and small retail and municipal structures.



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- Rural Builder Hall of Fame
- Cover Story: "Selling" metal in home construction
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- Advertising Deadline: February 7, 2020

MAY

- Cover Story: Exterior trim options to soften the metal look
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- Advertising Deadline: April 10, 2020

JULY

- 37th Annual Gold Key Awards
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- Product of the Month
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- Filled cover-to-cover with outstanding post-frame & metal building projects
- Advertising Deadline: July 30, 2020

SEPTEMBER

- METALCON Preview
- METALCON exhibitor profiles
- Cover Story: Insulation & energy developments for the rural construction market (green construction developments)
- Product Profiles/Feature: Doors & Door Hardware
- Question of the Month
- Project of the Month
- Advertising Deadline: August 14, 2020



For more information contact: Gary Reichert at gary@shieldwallmedia.com
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PRODUCT PROFILES

CUPOLAS

Plyco Corporation



Plyco Corporation's line of cupolas, available in 2', 3', and 4' sizes, adds a finished accent to any building project along with ventilation control. Featuring sides with louvers or windows, the cupolas can be constructed with flat or curved roofs, in colors that match most industry options. Designed to assemble quickly on the job site, Plyco cupolas have a premium base option that eliminates the need to build a wooden base. Cupolas are also offered with a textured finish and a variety of weathervane options. **RS#208**

www.plyco.com

MWI Components



When choosing the icing for your cake, you make sure it is perfect. When you put a cupola and weathervane on your building, are you getting the same satisfaction? Choose MWI and you will! MWI's cupolas are available in over 100 standard colors plus Kynar. 24", 36", and 48" cupolas ship knocked-down; 66" and octagon ship assembled. Aluminum or copper weathervanes are available in varying sizes and styles. Visit our website or call 800.360.6467 to learn more! **RS#178**

www.mwicomponents.com

Royal Crowne



Royal Crowne is a cupola manufacturer located in Paradise, Pennsylvania. Our cupolas are made with either cellular PVC (vinyl) or Western red cedar. We offer many styles in sizes 18" to 72" square. Our cupolas are a beautiful complement to your home, barn, garage, carport, or shed. Royal Crowne Cupolas can also provide ventilation or lighting to your building, and are a perfect Crowne for your building! **RS#248**

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Plyco manufactures and distributes a variety of ventilation products designed to meet most airflow requirements. The MWE-100 is a low-profile unit, 10' in length with 12 square inches of free airspace per linear foot. The MW100-25 has a higher profile than the MWE and is open at the top. The ventilator has an internal diverter to direct rain off to the side and out onto the roof. The MW100-35 has the same design as the 25 series with increased free airspace of 36 square inches per linear foot. The FMW100-35 is of the same design as the 35 series, but the diverter is made from translucent fiberglass to allow light into the building ridge while keeping the rain out. **RS#208**

www.plyco.com

MWI Components



MWI supplies Uni-Vent® II and III to ventilate with a ridge cap, and they manufacture five Ridg-Vent® profiles. Additionally, MWI offers over 100 colors for Ridg-Vents to match most roll formers' metal panels. The Ridg-Vents' metal edges are hemmed for easier handling/improved strength. Their lack of raw metal edges prevents rust stains. MWI also manufactures steel/aluminum soffit systems. Pre-cut or special-cut lengths are available in sizes 7" to 144". When united, Ridg-Vents, Uni-Vent, and soffit provide superior ventilation. **RS#178**

www.mwicomponents.com

ProfileVent®



ProfileVent® is a single-layer ridge vent roll. It's a strong, durable, modified polyester, non-woven, non-wicking, fiber-based matting, designed specifically for metal roofs. ProfileVent is specifically cut to fit more than 50 standing seam and through-fastened metal roofing panels — more than any other ventilation system manufacturer. After 30 years and more than 1 million installations, the company is still waiting for its first callback. ProfileVent is Class A Fire-Rated, so it will not burn. **RS#320**

www.profilevent.com

Ornate Ornaments

Cupolas & Weathervanes Are Industry's Iconic Combo

BY SHANNON CLARK, MWI COMPONENTS

Dutch doors, Arcadian sliding doors, horse stalls and, of course, horses, are the key components of a horse barn, right? Well, sure, but what seems to be missing from this picture? You guessed it, the iconic cupola and weathervane combination.

Cupolas date back to the eighth century when they were utilized in Islamic architecture. As new designs evolved, the cupola became a symbol of cultural superiority. Today, cupolas are an overwhelming interest piece for post-frame structures. These architectural masterpieces add character and charm to ranch buildings, and their partner — the weathervane — is largely popular for further pushing the envelope of post-frame perfection. Though weathervanes do show the direction of wind, their main purpose today is to add a personal touch to a structure.

Cupolas come in a variety of styles and sizes. From octagon cupolas to the classic square design, this decoration is sure to add the exact aesthetic desired for any given project. Cupolas often come in standard sizes of 24", 36", or 48", but they can get as large as 66".

While cupolas can take many forms, weathervane options are endless. Anyone with a unique vision for a building will agree the weathervane is the best way to add personality to a post-frame building. For example, if one were to look at the options at MWI Components, he or she would be met with an outstanding list of weathervane possibilities — from extravagant copper weathervanes to the standard metal designs.

The oldest surviving weathervane design is a rooster, which has stood the test of time. However, styles like the motorcycle, tractor, dog, lighthouse, horse, country doctor, etc. can add additional personality to a post-frame building. Custom weathervanes are also not uncommon, as they can be tailored to a building owner's needs.

The size of a weathervane is largely determined by the cupola's size, so a contractor should be certain to get the right sized weathervane for the project. If a weathervane is too large for a cupola, the weight may not be supported properly.

Proper installation is essential to the life span of a cupola. Although installation is fairly simple, when installed improperly,



COURTESY OF POLE BARN'S DIRECT

MWI Components' cupolas and weathervanes.

a cupola will likely fall victim to weather elements. Failure to follow installation instructions can even result in the collapse of a cupola or water leakage.

Much like the cupola installation, weathervane installation is considered a straightforward process. But again, failure to follow installation instructions may result in weather-related issues. For the greatest success, one must follow the installation instructions to prevent the weathervane from detaching.

These ornate ornaments are taking over the post-frame industry. Add simple charm or extravagant character to a building with the perfect cupola-weathervane duo — just be sure you follow the installation instructions! **GCSB**



COURTESY OF ROYAL CROWNE CUPOLAS

Choose Wisely

Installation May Be Easier Than You Think

BY KAREN KNAPSTEIN

Adding a cupola or two can really dress up a garage, barn, gazebo, or shed. It's a detail that contributes to the overall finished appearance and adds distinction to an otherwise nondescript building. If you're not familiar with cupola installation, once you find out how easy it is, you may decide it's a good way to bump up the appeal and profitability of your next outbuilding project.

Steve Fisher of Royal Crowne, Paradise, Pennsylvania, shared some valuable advice for builders about cupolas. He said the most important factor in choosing a cupola is the size. Royal Crowne advises 1¼" of cupola per linear foot of uninterrupted roof line. For example: If your building's roof ridge is 40' long, the calculation would be: $40 \times 1.25 = 50$, so the cupola should measure 50" across at the base to look "right" for the building.

Fisher added that most people don't maintain their cupolas, so you want to encourage your customer to think about whether or not they are going to want to or be able to climb up on their roof for maintenance. The maintenance-free aspect of the cellular PVC vinyl construction makes Royal Crowne's cupolas doubly appealing.

While the biggest demand is for white cupolas, they can also apply a special paint to color-match many different wall and roof exteriors. Accents and details can also be added, including copper cladding, windows, moulding, louvers, stained glass, and simple or ornate weathervanes.

In some cases, vinyl won't look right; it won't fit. If a building has stained wood siding, a cupola with a wood finish would be more appropriate. Western red cedar is a premium grade of wood, naturally preserved from rot. It's a good choice if you need to match the look of a wood building.



Cupola Installation (Square Base)
Royal Crowne cupolas come in three sections: the base ("box"), the midsection (housing any windows and louvers), and the roof. Fisher said most are fairly easy to install thanks to the sectional construction. They are installed over existing roofing materials and require basic carpentry tools and the knowledge of how to use them.

According to the Royal Crowne directions, to install a decorative cupola with a square base, first determine the roof pitch. This is easily done by making a template for the angled cutout. To make a roof pitch template: Screw two 1" x 3" boards together so they pivot, then straddle the roof with the pivot at the peak and each "leg" placed flat against the roof. Mark the boards and add another screw so the boards will no longer move. (The length of the boards needed will depend on the size of the cupola base.) Use the template to mark the cupola base on opposite sides and cut out the "V" to fit over the peak.

Once the cutout is complete, the cupola base is fitted and leveled on the roof peak and cleats of pressure-treated 2" x 4" lumber are positioned snug against the inside walls and mounted onto the roof with 3" wood screws. The base section is fastened to the 2" x 4" blocking from the outside. Apply a bead of clear silicone caulk at the seams where the cupola base meets the ridge vent.

The midsection slips over the base and is fastened through pre-drilled holes with the provided screws. The roof section slides down over the middle section, and that, too, is fastened through pre-drilled holes with the provided screws.

While cupolas with bases shaped other than a square are a bit more involved, Royal Crowne provides complete instructions and installation videos. [See www.royalcrowne.com.] Some makers build their cupolas in one piece. Fisher said those are "more of a chore to install."

If your customers tend to want to stand out from their neighbors, a cupola may be what they need — and they may just need you to install it for them. **GCSB**

Find More Time

Better Time Management

Chris Ray, National Sales Manager at Levi’s Building Components, presented “Sell More – Better” at the Construction Rollforming Show on December 12 in Cincinnati. The engaging and insightful talk taught attendees how sales people could connect with potential customers in such a way as to be more likely to begin a true buyer-seller relationship. (See *Rural Builder*, February 2020) Ray included a “bonus” presentation about time management, a summary of which you find here.

What’s the one thing you spend every day and can never get back? Time! This makes time one of our most precious commodities. It’s a commodity that should be spent and invested wisely.

Ray explained in his presentation that everything we do in business and with our time should be looked at in terms of return on investment (ROI).

If you have more to do than you can do in a day, week, or even a month, there are a lot of us that live there. It’s kind of a normal place to be. While it’s not a bad thing to always have something to do, the problem is that if the list of things to do is too long, chances are some important things are going to be prioritized incorrectly and become emergencies. That’s called reacting rather than pro-acting. Pro-acting is looking at a list and taking action before it gets there.

Some people put their “to do” points on Post-It notes. For someone with a great many things to do, the field of notes comes to look like wallpaper. While it

QUADRANT 1
Urgent & Important

QUADRANT 2
Important & Not Urgent

QUADRANT 3
Urgent & Not Important

QUADRANT 4
Not Urgent & Not Important

captures a thought and acts as a reminder, it doesn’t prioritize the tasks. The chaotic arrangement is indicative of how things are going to get done – without order and possibly reactively.

Establishing Order

President Dwight Eisenhower had a lot to do. He came up with the Eisenhower Matrix to help prioritize “to do” lists so tasks can be handled pro-actively rather than reactively. The Matrix has four quadrants: Quadrant 1 is labeled Urgent & Important; Quadrant 2 is labeled Important, Not Urgent; Quadrant 3 is labeled Urgent, Not Important; and Quadrant 4 is labeled Not Urgent & Not

Important.

Ray explained how using the Eisenhower Matrix simplifies what you have to do. It helps you prioritize the things that need to get done.

Begin by creating an alpha list that includes everything you need to do in the coming week. Here’s a sample list:

- Wash company vehicle
- Follow up on Taylor quote
- Contact office cleaners to change schedule
- Accountant In/ Ask your P&L question
- Develop employee review team
- Schedule company lunch
- Meet with Bob from oil company

QUADRANT 1
Urgent & Important
Do Today/This Week

- Follow up on Taylor quote
- Develop employee review for team
- Meet with Bob from coil company
- Accountant In/ Ask your P&L question

QUADRANT 2
Important & Not Urgent
Do Next Week

- Look at new coil provider
- Tune up roll forming machine
- Get quote over to Brown Construction
- Talk to newspaper about next ad

QUADRANT 3
Urgent & Not Important
Delegate

- Wash company vehicle
- Schedule company lunch
- Prep Taylor job for pickup
- Contact cleaners to change schedule

QUADRANT 4
Not Urgent
& Not Important

- Either eliminate or do when all else is finished/delegated.

- Get quote over to Brown Construction
- Prep Taylor job for pickup
- Tune up roll forming machine
- Talk to newspaper about next ad
- Look at new coil provider

As your list grows, the chance that something may not get done grows.

Once your list is complete, circle each item and draw a line to its appropriate quadrant. Here's how the prioritization ends up:

Quadrant 1: Urgent & Important: Do these tasks first (now).

Quadrant 2: Not Urgent & Important: Do these tasks later.

Quadrant 3: Urgent & Not Important: Delegate these tasks.

Quadrant 4: Not Urgent & Not Important: Eliminate.

The things that you prioritize in the Not Urgent, Not Important quadrant you can either eliminate or do when the rest of your tasks are complete. What you've just done is create time for yourself using the Matrix.

Consider Delegating

Chances are in your list there are things in your list that you can delegate. In the sample list, those items include wash the company vehicle, schedule the company lunch, prep the Taylor job for pickup, and contact the cleaners to change the schedule. Delegate the things on your list that don't need *your* skills or experience or position to get done.

Delegation is entrusting a task or responsibility to another person. The Miriam Webster Dictionary defines delegation as "To entrust to another; to appoint as one's representative."

Why delegate a task? It creates time for you so you can focus on and handle your urgent and important tasks. (Washing the company vehicle probably isn't the best use of your time.)

Delegating also builds trust; it's a message to your team member that you trust them. When you empower employees to do things for you, they learn. If you delegate to them, chances are some element of what you're delegating to them

is something they haven't done before. It might be something that challenges them, or it might be something that they can do really well. You may discover your employee has skills you never knew about; you may even discover a superstar.

You enrich your employee, and you enrich your company by delegating some tasks that you would otherwise have done yourself.

In order to delegate well, you first need to choose the right person for the job. Ideally, there will be some space for them to learn and grow with the project.

Explain why you're delegating so they don't see it as something that doesn't have any value. Don't just tell somebody, "Hey, go do this." And then walk away from them. Then it's just a busy thing they have to get done. Tell them why it needs to get done.

You also need to tell them the right instructions. Tell them what you're looking for. Get their buy-in on the project and give them a timeline and deadline. Getting their buy-in will result in getting a better product or project back from them.

It's also very important to give them the resources and training so they can get the job done right.

Managing your time better will help you create more time for the tasks only you can do, and allow you to do them better. **GCSB**

Editor's Note: This article is excerpted from Chris Ray's educational presentation, "Sell More – Better," given at the first annual Construction Rollforming Show. Ray is the National Sales Manager at Levi's Building Components. The second annual Construction Rollforming show is scheduled for December 10-11, 2020. It will again be held at the Duke Energy Convention Center in Cincinnati, Ohio, and will offer an expanded educational programming schedule.




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