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April/May 2022
Vol. 3, Issue 2

INSULATION & VENTILATION
UNDERSTANDING THE RELATIONSHIP

**TRIM
INSTALLS**
TIPS & TRICKS



**2022 BUILDING
SHOWCASE**

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It's Time To Act

Dear Readers and Advertisers,
In light of the current political events, here and abroad, I am asking for your help.

I am unwilling to see friends and family at risk and remain silent and passive. We need to do what we can to prepare and force our government to prepare for conflict.

We are potentially on the verge of war with another superpower. War would obviously be catastrophic for most of the domestic residential, commercial and agricultural construction industry.

War would obviously be catastrophic. If the conflict remains confined the uncertainty combined with increasing energy prices and general inflation creates a near-perfect storm that would be disastrous for our industry.

There are several things our government needs to do immediately: One of the

foremost is to reinstate exploration and drilling on federal land. Petroleum products are critical for a war effort and take time to process to a usable form. It would also undermine our opponents' cash flow and ability to continue its aggressions.

We also need to stop allocating funding to frivolous programs. Our spending-to-GDP ratio is comparable to that during World War II. With this level of debt, we cannot afford to fight a war. We can resume these programs after the conflict. In the concept of guns and butter, it is unfortunately time for guns.

I am not advocating war. Weakness and appeasement have never prevented violence. Consider this quote: "A man unskilled in violence can no more claim to be a pacifist than a eunuch can claim celibacy." We need to be prepared and current policy does not have that result.

During the pandemic we provided a resource to contact your representatives and send pre-written letters. We are in the process of relaunching a similar initiative.

Please do everything in your power to persuade the administration to take the steps necessary to prepare, including opening energy production and reallocation of unspent money from the stimulus programs to our military.

The only thing worse than war is fighting a war you are not prepared to fight.

Speaking out now is not only what is best for our industry, it is the morally right thing to do. Please contact your representatives and become active in any way you can.

Thank you for your support and may God bless those placed in harm's way.

— Gary Reichert
Publisher/CEO

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22

Solar-powered carport, Australia. COURTESY OF S-51

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Merger Means More Success For All



On The Cover:

LP trim and SmartSide siding installed on garden shed.

PHOTO COURTESY OF LP BUILDING PRODUCTS.

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Nebraska-based Chief Buildings Opening a New Manufacturing Plant in South Carolina

Chief Buildings, a premier metal building system manufacturer, has announced the purchase of a new manufacturing plant in Lancaster, South Carolina. Expanding their manufacturing footprint in the Southeast will increase Chief's level of service to their Authorized Builder network with added capacity and increased resources.

In addition to the existing manufacturing plants in Grand Island, Nebraska, and Rensselaer, Indiana, this new location will add around 100 people over the next few years and allow Chief Buildings to increase manufacturing capacity, helping to meet or exceed customers' expectations. The newly purchased manufacturing plant will be equipped with the latest

state-of-the-art manufacturing equipment that provides the highest quality and safety standards.

About Chief Buildings

Founded in 1966, Chief Buildings is a nationwide metal building manufacturer. With offices and manufacturing facilities in Nebraska, Iowa, Alabama, Indiana, and South Carolina, production capacity and customer service allow Chief Buildings to be a leader in low-rise, non-residential metal building systems. Metal building systems are custom-engineered steel solutions that optimize and integrate steel framing, roofing and walls. Chief's metal buildings are shipped to all 50 states and are sold through a network of authorized builders across the country. Chief is able to design and manufacture anything from large complex facilities to small warehouses across the nation.

AkzoNobel Renews Portfolio of Products and Services

AkzoNobel has renewed its portfolio of products and services to bring more to its customers. Its new campaign, Discover More Behind One Door, highlights how those who partner with AkzoNobel get "more" — more product customization, more support, more performance. Discover More Behind One Door also highlights the refinement of the POLYDURE® coating system for versatility in field quality and performance as well as the company's commitment to providing excellent customer service.

AkzoNobel's steel door coatings give flexibility and diversity to a range of applications including rolling steel doors, commercial and residential entry doors, residential garage doors and commercial track doors. Each steel door project is unique, so coatings options are tailored for the rigors of every steel door application. The new portfolio includes:

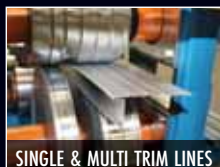
- POLYDURE® N D2000: hybrid coating – optimized for scratch and abrasion resistance with built-in flexibility.
- POLYDURE® N D2020: maximum flexible coating – flexible coating improves production throughput.
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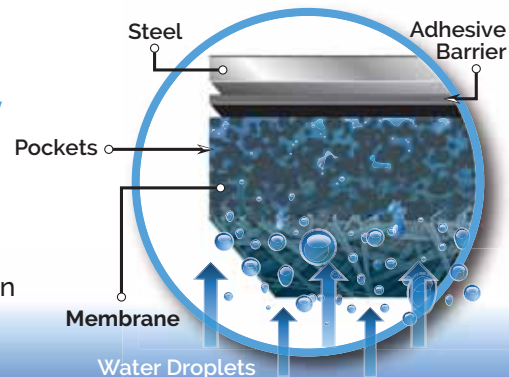
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Morton Buildings Breaks Ground on New Manufacturing Facility in Pocatello, Idaho

Morton Buildings, an industry leader in post-frame manufacturing and construction, broke ground Tuesday, Dec. 14, on a new manufacturing facility in Pocatello. The 67,428 square-foot plant is expected to begin operations in the third quarter of 2022.

The new facility is part of Illinois-based Morton's geographic expansion strategy and will support customer needs served over the past 10 years by the company's surrounding construction centers in Idaho Falls and Boise, Idaho; Bozeman, Montana; Sheridan, Wyoming; and Montrose, Colorado. It will join seven other Morton production facilities throughout the country.

Sean Cain, Morton Buildings president said, "Its central location and proximity to the Pocatello Regional Airport makes this a great base to efficiently serve the area and expand beyond."

The plant includes space for manufacturing, cold storage and office space. Morton expects to hire 20 to 30 employees initially and expand employment to meet growth needs. Because Morton Buildings is 100 percent employee-owned, growth is an important component in increasing the retirement savings and broadening the career development opportunities for the company's employee owners.

broad range of color, gloss, print and texture options in proven trouble-free coating application and a smooth film.

AkzoNobel offers trusted partnerships built on a strong reputation of supplying quality coatings to the steel door market and is the only company to offer a warranty on commercial and residential entry doors. The entire portfolio of steel door products is backed by this warranty so customers can be assured of the quality and finish.

Simpson Strong-Tie Publishes DCA-6 Tech Bulletin

Simpson Strong-Tie, a leader in engineered structural connectors and building solutions, has announced the publication of its newest tech bulletin, Connection Solutions to Meet the DCA 6 Prescriptive Residential Wood Deck Construction Guide, assembled as an at-a-glance manual to explain and provide Simpson Strong-Tie solutions for the popular DCA 6 construction guide published by the American Wood Council.

With lumber prices decreasing from recent highs, homeowners and deck contractors are set to resume thousands of deck projects that had been on pause due to cost and availability of materials across 2020 and the beginning of 2021.

The newly created DCA 6 solutions guide is designed to provide guidance for designing and building single-level residential wood decks based on provisions for the 2015 International Residential Code® (IRC®) pertaining to single-level residential wood deck construction.

Available on the Simpson Strong-Tie website [<https://www.strongtie.com/>], the Connection Solutions to Meet the DCA 6 Prescriptive Residential Wood Deck Construction Guide tech bulletin is designed as a comprehensive, quick-reference resource for code officials, deck builders, lumberyards, and DIY enthusiasts and includes detailed information, tips, and techniques for using Simpson Strong-Tie fastener, anchor,

ledger board, and connector solutions for building decks to the DCA 6 guide.

Sherwin-Williams Signs Agreement to Expand Manufacturing and Distribution

The Sherwin-Williams Company has announced that it signed an agreement with the state of North Carolina, Iredell County, and the city of Statesville to significantly expand its architectural paint and coatings manufacturing capacity and establish a larger distribution facility in Statesville, North Carolina. Sherwin-Williams plans to invest a minimum of \$300 million in the project and add more than 180 full-time jobs at the site over the next three years, which would essentially double the existing workforce.

The project will include a 36,000-sq.-ft. extension of its existing 200,000-sq.-ft. manufacturing facility, the addition of four new rail spurs, as well as the construction of a new 800,000-sq.-ft. distribution and fleet transportation center, which has another 200,000 sq. ft. available for future expansion.

Together, the facility upgrades will add millions of gallons of annual manufacturing capacity and sizable pallet storage capacity to support the company in meeting increasing demand for its architectural paint and coatings products.

"Sherwin-Williams has long been a top employer in North Carolina. There are currently more than 2,400 full-time Sherwin-Williams employees working in the state, and today's announcement ensures a substantial number of jobs will be added over the next three years," said North Carolina Governor Roy Cooper. "Because of this continued partnership, the state was pleased to provide the necessary financial incentives to support the Company's decision to grow its footprint in Statesville for years to come."

Construction is expected to start by the third quarter of this year, with all work slated to be completed by the end of 2024. The manufacturing facility will

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continue to operate for the duration of the project.

SPAX® Receives DrJ Engineering Technical Evaluation Report 2010-02 for Construction Screws

Altenloh, Brinck & Co. US, Inc (ABC US) received a new technical evaluation report (DrJ Engineering's TER 2010-02, <https://bit.ly/3JPRkqc>) for SPAX® Construction Screw Properties.

For this DrJ Engineering technical report, SPAX® Construction Screws were tested and evaluated to determine their structural resistance properties, which are used to develop reference design values for allowable stress design. The following properties were evaluated: bending yield, tensile strength, shear strength head pull-through, withdrawal strength, lateral resistance and corrosion resistance.

SPAX® Construction Screw types covered in this TER include:

Carbon Steel Fastener Types

- #6, #8, #10, #14 Unidrive Flat Head - zinc and yellow zinc coating
- #8, #9, #10, #14 T-STAR plus Flat Head - zinc and yellow zinc coating
- #8 Cross Recess Wafer Head - zinc coating
- #8, #10 T-STAR plus Wafer Head - yellow zinc coating
- #6, #8, #10 Unidrive Pan Head - zinc coating
- #6, #8 T-STAR plus MDF & Hardwood Trim head - zinc coating

Stainless Steel Fastener Types

- #9, #10 T-STAR plus Flat Head - stainless steel
- #8, #10 T-STAR plus POWERDECK Trim Head - stainless steel.

Construction Safety Week Announces 2022 Dates, Theme

An annual industry education and awareness event is set for May 2-6, 2022. It was originally formed in 2014. This year's theme is "Connected. Supported. Safe."

The new theme reflects the enduring

connection workers and leaders have to each other across the industry. Being connected builds strength, because it means individual workers are not alone in building a stronger, safer industry and creating a safe, supportive environment for everyone.

Safety Week once again includes a focus on mental health issues among workers. Issues like substance abuse or depression can cause even the best worker to put others at risk. And less noticeable things like prolonged stress, anxiety, financial concerns, or tension with a family member can cause workers to lose focus.

Construction Safety Week leaders encourage all construction companies to participate in this important industry initiative. Firms can visit ConstructionSafetyWeek.com for free planning resources, and materials are translated into Spanish and French.

The Associated General Contractors of America (AGC) is a signature sponsor of Construction Safety Week for a third year.

Due to ongoing COVID-19 concerns, Safety Week will not hold a large-scale event, instead hold a variety of smaller events to promote construction industry safety.

Wolverine Inspires High School Students to Explore Skilled Trades

At a time when high school students across the country are making decisions about their future, Wolverine, the boot and clothing brand, is focused on driving awareness around the untapped opportunity of skilled trade careers, and inspiring young people to learn more about the skilled trades as a path.

In partnership with unCommon Construction — a nonprofit organization that works with high school apprentices to build houses and gain technical, professional and personal skills — Wolverine is launching a special-edition collaboration collection to benefit high school



students interested in pursuing careers in the skilled trades. The initiative is part of Wolverine's Project Bootstrap program, which has celebrated and supported those choosing to pursue a path in the skilled trades through a variety of efforts including scholarships and educational awareness initiatives since 2014.

As the skills gap continues to grow, the demand for trades workers has never been greater. According to the U.S. Bureau of Labor Statistics, marketplace demand for skilled trades will continue growing through 2030, resulting in nearly 400,000 new jobs. However, according to a new Wolverine survey, the pipeline of new trades professionals doesn't align with the demand.

Discerned from the survey:

- While almost three-quarters (72%) of current high school students believe it's important to consider alternative options to a traditional 4-year college, just 30% of students have considered vocational/trade schools.

- More than half (51%) say "I don't know enough about it" as their reason for not considering enrolling.

- At the same time, four in five (79%) students said they believe vocational skills should be taught in high schools, indicating interest in learning more about the skills needed for careers in the trades.

As part of this initiative, the unCommon Construction apprentices collaborated with the bootmaker to develop a new unCommon Construction boot, designed after months spent wearing boots on the job, learning practical trade skills and building houses in New Orleans. **GSCB**

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16105 - 1" x 3" x 3' - 3/4" Hi Rib Stick - \$70.43/box
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16019 - 1.5" x 3" x 3' - R Panel Stick - \$56.08/box

10005 - 3/4" Hi Rib - 100' package - \$81.60
15005 - 3/4" Hi Rib - 50' package - \$42.08
12005 - 3/4" Hi Rib - 20' package - \$17.68
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LP NovaCore™ Thermal Insulated Sheathing

LP NovaCore™ Thermal Insulated Sheathing is dual-layered and designed to protect structures against heat loss and gain. Structural OSB and XPS foam are bonded together to create an insulated wall panel that is easy to install and can be handled, cut and drilled the same as OSB or plywood, delivering an R-Value of 5 per inch of thickness. Provided that all panel edges are properly supported, NovaCore can be installed in vertical or horizontal orientations.

www.lpcorp.com



SwiftGuard™ Roof Underlayment

Westlake Royal Building Products™ has introduced SwiftGuard™, a synthetic roofing underlayment for steel, tile, shingle and shake roofing. The new roofing solution is easily installed and leverages a patented nail gasketing technology to provide durable all-season weather protection.

SwiftGuard is ideal for use in steep slope roofing installations. The underlayment benefits from an innovative, patented nail gasketing technology, which helps ensure steel, tile, shake and shingle roofing systems are better able to withstand the elements in all climates

and seasons. Because of this technology, along with the product's UV and thermal stability, SwiftGuard may be left uncovered and exposed to the elements for up to six months, or 180 days, without degradation.

The underlayment boasts a high-grip backing and a non-woven thermally embossed fiber face for increased deck grab and superior walkability. The product is available in 10-square (1,000-foot) rolls weighing just 35.5 pounds each, providing lightweight ease in transporting, loading, installation and storing. Clearly identifiable lay lines and fastening markers also enable swift and easy installation.

SwiftGuard meets the physical properties of ASTM D226 Types I and II and is compliant to AC188 and ASTM D1970, Section 7.9.

WestlakeRoyalBuildingProducts.com



Condensation Prevention: Aqua Defender

Introducing Aqua Defender, a condensation solution for agricultural metal roofing and siding. Aqua Defender is a self-laminating felt applied during manufacturing to the underside of each metal panel.

Pole barns are increasingly popular as outbuildings, hobby farms, storage units and garages. While they offer versatility and cost savings, their single-skin metal roofing accumulates condensation as temperatures change.

Aqua Defender creates a lasting barrier between metal roofing and condensation. It not only absorbs moisture and prevents rust, but it also keeps your buildings dry and your livestock, equipment and property free from damage.

Aqua Defender is a synthetic fleece with pressure-sensitive adhesive and

easy-release vinyl backer. It absorbs water quickly and prevents moisture from collecting on the underside of the roof.

Aqua Defender was developed specifically for smooth application. RoofAquaGuard offers a purpose-built applicator with an adjustable feed system to maintain tension, a removable loading shaft and casters for easy relocation and positioning. Aqua Defender is also compatible with leading third-party applicators. It is available in rolls measuring 39.25" by 1968'6", each weighing 256 lbs. and covering 6,439 square feet.

roofaquaguard.com/products/aqua-defender



Goggle/Face Shield Combo

Foul, nasty, or painful debris. Spark. Liquid sprayback. All can slow the most seasoned employee and, worse, bring the threat of occupational injury. So, what protection do workers want on their face when the situation hits the fan? The answer is Brass Knuckle® Vader Combo, the goggle and face shield in one, with industry-leading BK-Anti-Fog for the best visibility. Its integrated face shield offers 180-degree peripheral vision and face coverage. Ultra-soft conditioned rubber forms a splash barrier. Because the face shield isn't attached to a hard hat, the shield goes wherever the wearer's head goes.

The ANSI-rated, military-style splash goggle also includes a durable anti-scratch treatment and is D3 rated for droplet and splash protection. The built-in venting system helps reduce the potential for moisture buildup, helping to maintain clear vision.

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The Finishing Touch

Trim Installation Tips & Tricks

BY LP SMARTSIDE

With the rise of alternative use sheds, detail and design take center stage as homeowners opt for outdoor structures that complement their homes and add both beauty and function. Sheds aren't just about storage anymore—and that means shed builders must think about how to set their work apart.

Using trim in unique ways can boost

the design features of a shed. It may seem like a smaller detail, but trim can be the finishing touch that gets noticed first. Let's check out tips and tricks for shed trim and how you can choose products that make this design accent stand out.

The Basics: Installation

As beautiful as the trim you select may be, if it's not installed correctly it won't serve the final product well—or last for

years to come. Don't forget these crucial installation steps when you're adding trim to your shed:

1. Seal all exposed cuts and edges.
2. Leave a minimum 6-inch clearance between trim and finished grade. This is especially crucial for sheds built on or near grass and other landscaping materials.
3. Trim can be installed over other materials, such as siding, or fastened directly to structural members up to 24 inches on center.
4. Do not install trim in direct contact with masonry, concrete, brick, stone, stucco or mortar.

Jump on a Trend: The Board & Batten Style

Board and batten style siding is a major trend when it comes to homes, and many builders are seeing their customers want to re-create it on their sheds. Trim can be used as battens for this look, making it easy to use panel siding alongside a variety of trim widths for a completely customizable exterior.

Be sure to follow the installation instructions specific to the board and batten style for trim.

Beyond board and batten, trim can also be used to create custom designs over siding to create a barn-style appearance or simply to outline key features of the shed, such as the doors and windows.

Bring Color to the Mix

With the LP® SmartSide® ExpertFinish® Trim collection, you can bring your shed



As beautiful as the trim you select may be, if it's not installed correctly, it won't last or serve as intended. PHOTO COURTESY OF LP BUILDING PRODUCTS.

designs to life and give your customers even more options to fit their styles. Trim is available in a variety of prefinished colors, including neutrals such as Snowscape White and Desert Stone, earth tones like Marshland Moss and Terra Brown, and even bold statement colors (Abyss Black, Rapids Blue and Redwood Red).

One popular look is the modern farmhouse style, which can be achieved by combining Snowscape White siding with Abyss Black trim. Another option for clients interested in earth tones can be pairing Snowscape White trim with Marshland Moss siding.

No matter the look your customers

want, you can use LP SmartSide Expert-Finish trim to meet most needs and bring design flair to the project. It's also useful for matching a shed to an existing home for continuity and a cohesive look. LP SmartSide trim is also available primed, ready to be painted any color you choose.

Build for Longer-Lasting Durability

Manufactured with the LP® Smart-Guard® Process for advanced durability, LP® SmartSide® Trim is a product you can rely on both to look great and stand up to the elements. It's available in two finishes—cedar texture and smooth finish—and in a variety of widths. LP SmartSide

trim can also be installed with standard woodworking tools, helping to make your builds more efficient.

Combined with color options, the possibilities for design are endless—and you won't have to sacrifice durability to give your clients the look they want.

Take Your Shed Designs to the Next Level

With options in finish, color, width and more, trim allows you to design with your customers' preferences in mind. LP SmartSide trim, in particular, combines beauty and durability, helping you ensure your work lasts while looking great.

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SPECS: Storage Shed
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VENTILATION: Ondura Closure Strips
SPECIAL INTERIOR FEATURE: TUFTEX PolyCarb translucent wall

This shed was built to replace a deteriorating shed with a new, larger design with a roof that matched the other structures on the property. The translucent panels allow a lot of natural light into the shed.

www.us.onduline.com/pro



BUILDING SHOWCASE

Onduline North America



SPECS: Greenhouse

SIZE: 8' x 12'

DOORS: TUFTEX Multiwall 6mm panels

FASTENERS: TUFTEX Galvanized 2" fasteners

ROOF & WALL PANELS: TUFTEX Multiwall 6mm panels

This greenhouse was built to grow and keep seasonal plants and vegetables in North Carolina.

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BUILDING SHOWCASE

Hixwood Metal LLC



SPECS: Garage/Workshop

BUILDER: Witmer Builders & Hixwood Metal LLC

SIZE: 30' x 48' x 12'

ROOF PITCH: 4/12

DOORS: CHI Overhead Doors, Model 3216, Clay

FASTENERS: East Coast Fasteners / Plyco Corp.

INSULATION: Owens-Corning R-21 batts

ROOF PANELS: Hixwood Super-Rib 100

VENTILATION: MWI Components cupolas and MWI Components Center Vent Soffit

WALL PANELS: Hixwood Super-Rib 60

WINDOWS: Silverline Windows

SPECIAL INTERIOR FEATURES: Hixwood White Liner Panel

The owner wanted a building that combined storage and a hobby shop. It's a place to store their vehicles, lawn mowers, ATV, etc., and also a shop they will enjoy throughout their retirement.

www.hixwood.com



BUILDING SHOWCASE

Carport Central



SPECS: Raised Center Barn

SIZE: 54' x 56' x 12'9"

ROOF STYLE: Vertical

FRAME: 14-ga. steel

CERTIFIED: 140-30 Certified

The center building in this drop-down barn shelter is 30' wide x 56' long, with a sidewall height of 12'. The two adjacent included in both front and back, and one side is completely enclosed for added wind and weather protection for parked vehicles and other stored equipment. The closed side features a 10' x 8' frame out for easy access.

This particular building covers over 3000 sq. ft.; the owner has parked a horse trailer, two tractors and an ATV underneath, along with hay bales and other equipment – with room to spare.

www.carportcentral.com



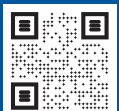
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BUILDING SHOWCASE

Outdoor Options



SPECS: Garden Shed

SIZE: 12' x 24'

ROOF PITCH: 6/12

ROOF: Overholt Metal Sales, 29-ga. steel, 5 rib, Black

WALLS: LP SmartSiding, painted Buckskin

WINDOWS: MIDCO 2' x 3' double windows

DOOR: MIDCO 36" 9-Lite Door

ADDITIONAL FEATURES: 1 transom dormer, wood slats on windows, 3/4" tongue and groove plywood, and 2" x 6" pressure-treated 16" OC subfloor

Outdoor Options designed this shed to offer a place of storage or retreat. This 12' x 24' garden shed's transom dormer and clean Buckskin color gives an elegant presence that will make it stylish. Outdoor Options is dedicated to combining superior quality storage solutions and designs with a commitment to excellence.

www.outdooroptions.com



BUILDING SHOWCASE

Carport Central



SPECS: Metal Barn/Carport Combo

SIZE: 42' x 26' x 12'

ROOF STYLE: Vertical

FRAME: 12-ga. steel

CERTIFIED: 140-35 Certified

ROLLUP DOORS: ASTA America

WALK DOOR: Blevins, Inc.

WINDOWS: Blevins, Inc.

This beautiful, two-tone combination building is the perfect backyard solution for storage needs. It can be used to park vehicles, store mowers and lawn equipment, keep seasonal and holiday outdoor decorations and more.

With two fully enclosed sections and one open-air shelter section, the application possibilities for this custom steel structure are practically limitless. The two rollup doors and one walk-in door provide plenty of easy access points, and the windows are a nice touch for added natural light and ventilation.

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BUILDING SHOWCASE

S-5!



SPECS: Carport / EV Charging Station

LOCATION: Smart Energy Lab, Moora Moora, Australia

ROOF DIMENSIONS: 11m x 6m **ROOF PITCH:** 5 degrees

GENERAL CONTRACTOR: Tallan Colliver

SOLAR INSTALLER: Anne Wilson

MODULE MANUFACTURER: LONGi Solar

INVERTER MANUFACTURER: Ingeteam

SOLAR MOUNTING SYSTEM: S-5! (PVKIT Edgegrabs; PVKIT MidsGrabs; CorruBracket 500T PV w/sheet screws)

ROOF: Colorbond Corrugated Iron

The Project

Nestled among the Yarra Ranges, about 40 miles east of Melbourne, Australia, Moora Moora is an off-grid co-operative community hosting 30 solar-equipped off-grid homes, 70 people and three electric vehicles (EVs). Reaching freezing temperatures in winter and scorching heat in summer, the community's residents required shelter to protect their EVs from the elements while charging. To provide such protection and also fast-charge their vehicles, a shared community carport was constructed, purpose-built for rooftop solar photovoltaics (PV). The carport features a corrugated iron roof with a 9.5kw solar array. Twenty LONGi solar panels are mounted in landscape position to the roof using the PVKIT rail-less solar mounting solution along with the CorruBracket 500T PV. The EV charging station allows for an extra 10kW of charge for the community's EVs, in addition to the solar power provided by each of the homes. With residents planning to purchase another six EVs, this project provides a place for the residents to protect their investment and charge their additional vehicles.



The Challenge

Since EVs are so energy-intensive, it was crucial to ensure full utilization of the limited rooftop space for mounting the solar panels, whilst staying within 8" of the edge zones in order to meet Australia's wind load standard. In addition, the light weight of the carport meant every bracket, panel and screw had to be taken into account to ensure the structure could comfortably withstand the weight and wind load of this mountain-top carport. With the need to install as many panels as possible, the challenge was to find a mounting system that would not confine the positioning of the modules to the screw lines of the roof battens. By using the CorruBracket 500T PV, every corrugation on the roof became a potential mounting point.



www.s-5.com

BUILDING SHOWCASE

Miller's Premier Construction



SPECS: Storage Building

SIZE: 32' x 62' x 11' w/ 8' x 16' porch **ROOF PITCH:** 6 pitch

WALK DOORS: ProVia Service Doors

OVERHEAD DOOR: Holmes Garage Doors, 24 ga., 6130 Raised Panel

POSTS: Richland Laminated Columns

INSULATION: MWI Components single-bubble underlayment

ROOF PANEL: Premier Metals, 29 ga.

WALL PANEL: Premier Metals, 29 ga., tan w/ green wainscot

CUPOLA: MWI Components, 3' x 3' cupola



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Carport Central



www.carportcentral.com

SPECS: Garage

SIZE: 28' x 41' x 9'

ROOF STYLE: Vertical

FRAME: 14-ga. steel

CERTIFIED: 140-30 Certified

GARAGE DOOR: (2) custom doors by owner, 9' x 8'

WALK DOOR: Blevins, Inc., 36" x 80"

WINDOWS: Blevins, Inc., 24" x 36"

This featured install is more than just an ordinary metal garage. It really turned out to be a gorgeous custom building. We put in a 36" x 80" walk-in door, two 24" x 36" windows, and two 9' x 8' framed openings, and then the customer added their own custom garage doors, gutters and other finishing features to this all-vertical garage.

The advantage to the vertical panel approach is that there are fewer opportunities for moisture to infiltrate, and both precipitation and debris are more easily directed off of and away from the building.



BUILDING SHOWCASE

Greiner Buildings, Inc.



SPECS: Hobby Shop

SIZE: 60' x 60' x 16'

DOORS: AJ Manufacturing, 7100, 3-0 x 6-8, 24-ga. steel

FASTENERS: Maze Nails

INSULATION: Walls: 2" Closed Cell Spray Foam,

Ceiling: R-38 Cellulose

ROOF PANEL: Central States Manufacturing, Panel Loc Plus, 3', 29-ga. steel

VENTILATION: MWI Components ventilated soffit; SFS Intec Vista Vent ridge vent

WALL PANEL: Central States Manufacturing, Panel Loc Plus, 3', 29-ga. steel

WINDOWS: AJ Manufacturing

SPECIAL INTERIOR FEATURES: 50K Tube Heater; 5-ton AC unit; steel liner panels, 5" concrete floor, large over-head doors

The purpose of the building was to store various vehicles and other motorized vehicles. The owner also wanted a comfortable place to be able to work and entertain guests. One problem faced with the project was the tight access from the busy city street into the jobsite. Skilled deliveries drivers were key in having all materials on-site.



www.greinerbuildings.com



BUILDING SHOWCASE

Reed's Metals



SPECS: Workshop

SIZE: 30' x 50' x 12' w/ 30' x 10' gable

TRUSSES: 2 x 6; rafters 2 x 4

ROOF PITCH: 4/12

WALL PANELS: Reed's Metals residential sheeting, 29 ga., Pearl Gray

POSTS: 6" x 6"

ROOF PANELS: Reed's Metals, 29 ga., Pearl Gray

TRIM: Reed's Metals, 29 ga., Charcoal Gray

WALL GIRTS: 2" x 6"

ROLL-UP DOOR: Asta Commercial Series 2000

Post-frame workshop with poured concrete floor.

www.reedsmetals.com



Reed's Metals



SPECS: Garage w/ Lean-to

SIZE: 30' x 50' x 12'

w/ 20' x 50' lean-to

TRUSSES: 2" x 6"; rafters 2" x 4"

ROOF PITCH: 4/12

WALL PANELS: Reed's Metals residential sheeting, 29 ga., Charcoal Gray

POSTS: 6" x 6"

ROOF PANELS: Reed's Metals, 29 ga., Gallery Blue

TRIM: Reed's Metals, 29 ga., Gallery Blue

WALL GIRTS: 2 x 6

ROLL-UP DOOR:

Asta Commercial Series 2000

Post-frame garage with roll-up door, lean-to, and poured concrete floor.

The lean-to is built with 6" open and closed galvanized C purlins.

www.reedsmetals.com

Moisture Control

The Relationship Between Roof Ventilation & Insulation

BY SNAP-Z

Roof ventilation has been debated for ages. Building codes often require it, but it's one of those things that can sometimes be overlooked or misunderstood. What's more, the relationship between insulation and ventilation — and how both work together to provide your customers with the comfortable indoor environment they expect — shouldn't be underrated.

The Purpose of Ventilation

The reasons to vent a roof depend on the climate. Without ventilation in hot climates, solar heat is trapped in the attic and makes the air-conditioning system work harder to keep the building comfortable. In climates with high humidity, a good roof vent system can prevent mold-causing moisture buildup in the attic. In colder climates, roof vents help keep the temperature of the roof deck as close as possible to the outside temperature, which helps prevent ice damming from thawing snow. If the climate has a mix of hot, cold or humid, then the purpose of ventilation can change with the season. Let's take a minute to look at ice damming.

Ice Dams

An ice dam is a build-up of ice that collects on the roof eaves of a heated building. The heat from the building melts the upper part of the snowpack, which refreezes when it reaches the cold overhang. As more snow thaws, the water is trapped behind the dam and can find its



way under the shingles or between metal panels into the building. The intruding water can cause mold or rot in the attic and/or walls. While it is a common cause, ice dams are not the only way moisture can enter a roof.

Condensation

Condensation is seen almost any time hot air and cold air meet. Though it may be less noticeable with shingle roofs, it can be especially prevalent on

metal roofs, which change temperature much faster than other roofing materials. Condensation can happen in warm, cold or humid climates. Condensation is most common in heated spaces or in unconditioned spaces with animals. Some animal barns have so much moisture that the condensate drips in the morning like a gentle rain. In a barn, that might not seem like a big deal, but it is a serious problem in a residence. If left unchecked, the excess moisture would likely cause

dangerous mold, rot, and other structural damage.

A good ventilation system can help lessen the rate of condensation because the airflow is carrying the moisture out of the building. But ventilation alone doesn't always solve the problem.

Ventilation and Insulation

It's common knowledge that insulation is great for improving energy efficiency. It keeps conditioned air from leaking into the attic or unconditioned air from passing through to the living space. Without proper insulation in hot climates, your customers are almost certainly going to be wasting money on higher energy bills as heat beating down on the roof radiates into the attic and transfers into the living space. This heat transfer makes air conditioning units work harder to keep the building comfortable.

In colder climates, insulation keeps heat from being lost through the ceiling and keeps the cold air out. In either climate or a mixed climate, proper insulation combined with good ventilation can mean huge savings on your customers' energy bills. But, without insulation, air from the conditioned space below can cause condensation on the underside of the roof deck.

To prevent condensation under the roof deck, the entire surface dividing the conditioned space from the unconditioned space must be tightly sealed. For example, if there are any gaps between joists, if the recessed lighting canisters are not completely sealed, or if the insulation doesn't go all the way to the top plate, energy loss is guaranteed and ice dams and significant amounts of condensation can occur.

Consider this example: A roofer who had paid meticulous attention to detail when retrofitting an existing home with a metal roof was called back after the homeowner reported their roof was leaking. The roofer was confused as to why there would be a problem; he fol-

lowed the panel manufacturer's guidelines, he installed ice and water shield, and a ventilation system that included a ridge vent and vented soffits. Upon inspecting the attic, he discovered condensation along the back of the ice and water shield, which ran down the edge of the valley until it dripped to the ceiling below. He also discovered there was no insulation between the living space and the attic. The condensation was caused by warm air from the living space passing through the uninsulated attic to the roof deck. The only way to stop the condensation problem was to completely seal the attic floor and make sure it is well insulated all the way to the top plate of the walls. After convincing the homeowners that insulation was the solution (which took no small amount of effort), the roofer pulled up the floorboards and thoroughly insulated the space between the attic and the living space.

If the roofer would have included a trip through the attic during his first visit, when he was quoting the job, he could have spotted the lack of insulation and predicted the condensation problem. He could have guided the homeowners to a solution that worked for their home without the frustration and embarrassment of the callback.

Understanding how insulation and ventilation work together for a comfortable indoor environment will help you spot potential problems before they turn into callbacks. **GSCB**

About Snap-Z: *In 2015, the Snap-Z ridge vent became an official product line of Glick Metals. Since then, different sizes have been designed, but the main design remains the same - a durable standing seam roof vent that makes metal roofing ventilation easier.*

The Snap-Z and Glick Metal team remain focused on one thing: Following the commands of Jesus Christ by treating every roofer and distributor the way they would want to be treated.

Frequently Asked Questions

What is a good ratio of roof ventilation intake vs. exhaust?

Slightly more eave ventilation than ridge ventilation is recommended to create negative pressure that will always be pulling the air up and out of the attic.

How do I determine net free-vent area (NFVA)?

Building codes specify 1 sq. ft. of NFVA per 300 sq. ft. of attic space. First, divide the square footage by 300 sq. ft. Second, divide that number between the eaves (60%) and ridge (40%).

And finally, divide that by the NFVA-per-ft. rating of the ventilation product you are using to find the linear ft. of intake and exhaust that is needed. Many roof ventilation manufacturers have online calculators that can help with these calculations.

Can you use ridge vents without soffit vents?

A ridge vent without a soffit vent doesn't work. Stale, moisture-laden air escapes through the ridge vent. As it escapes, it pulls fresh air in through the soffit vents. If there are no soffit vents, air is pulled from the conditioned space, which means wasted energy and the potential for ice damming and condensation.

What about uninsulated pole barns?

Many post-frame buildings used for storage or agricultural structures are not insulated. There is often a temperature difference between the outside and inside of the building, especially in the morning and evening. And, as a rule of thumb, whenever you have temperature differences, you're going to have moisture – often in the form of condensation on the underside of the roof.

A good ventilation system can help, but it's most effective when combined with a vapor barrier. **GSCB**

PRODUCT PROFILES

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Kevmar Door

Kevmar Garage Doors is a manufacturer of quality garage doors based in Arthur, Illinois. Door sales are primarily to post frame and backyard shed builders in the Midwest. The Kevmar product line includes 15 models available in 4 colors. Doors are typically delivered directly to builders on company trucks. Kevmar models also include a line of residential specialty doors.

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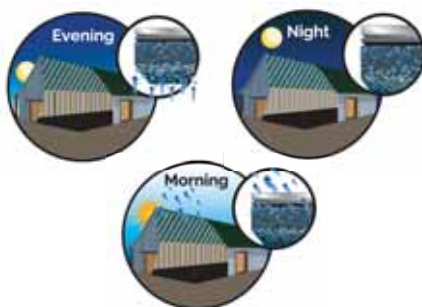
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800-360-6467 ext. 5

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www.qoracladding.com
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www.stfasteningsystems.com
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MFM Building Products

WindowWrap PowerBond®, a 25 mil flashing tape, is designed for cold weather applications. The patented PowerBond™ adhesive system aggressively adheres in temperatures as low as 25°F and self-seals around fasteners for a complete waterproof bond. The product prevents the infiltration of water, air, moisture, and noise around window and door openings. Comes with a 180 UV exposure rating and 15-year warranty.

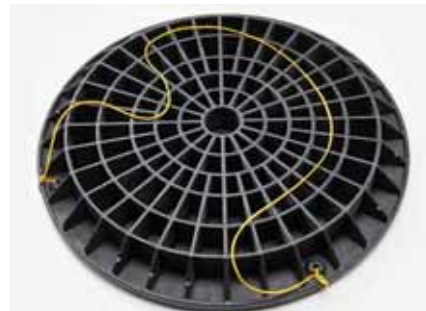
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800-882-7663



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800-622-7190



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www.footingpad.com
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midwestpermacolumn.com
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www.advarchsm.com
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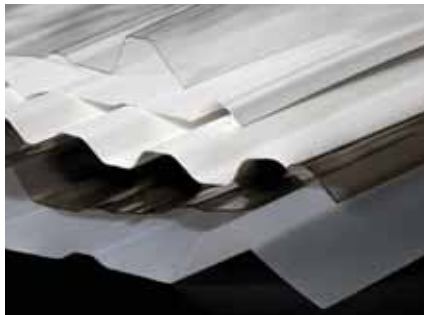
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www.provia.com/metal-roofing
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us.onduline.com/pro
540-907-8151



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www.pac-clad.com
800-PAC-CLAD



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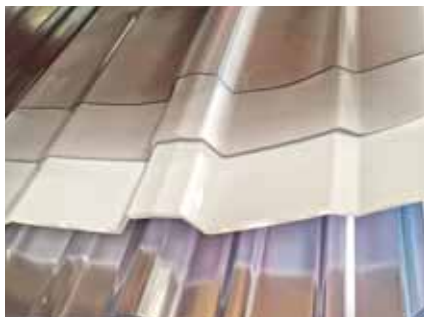
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Graber Post Buildings is excited to announce a new metal profile to our product list. The profile is called the "M-Rib" and is a hybrid between the Standing Seam profile and Ag Panel. It has the unique look and characteristics of the standing seam panel, but installs similar to Ag-Panel with exposed fasteners. This panel is manufactured by our sister company in Versailles, Missouri, Martin Metal. It is produced with the latest roll-forming technology by Bradbury and is available in all of our standard colors.

www.graberpost.com
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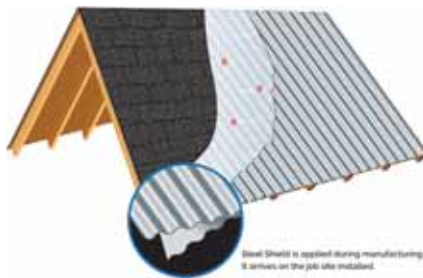
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Filc USA LLC

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www.atlasfasteners.com
800-321-6977



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www.everlastroofing.com
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www.directmetalsinc.com
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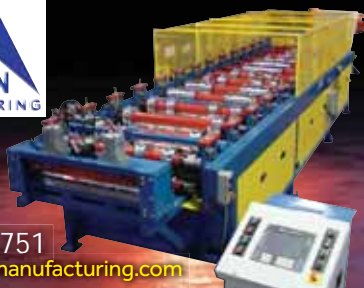
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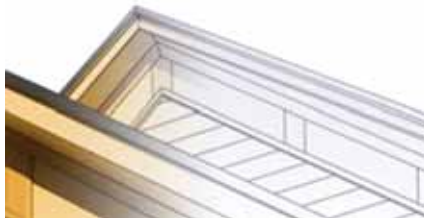
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Hixwood Merges with Qualiform & Country Metals

Merger Among Like-Minded Companies Means Greater Success For All

BY LINDA SCHMID



Aerial view of Hixwood, Stanley, Wisconsin. The facility is currently undergoing expansion. PHOTO COURTESY OF HIXWOOD

Hixwood Metals, Country Metals, and Qualiform Metals, market leaders in metal fabrication and post-frame building kits, are merging. All three companies have made quality in products and service their focus, and now they will work together under the Hixwood name.

The company was begun by Harvey Zimmerman who built post-frame buildings in Pennsylvania. By 1998, he had moved to Wisconsin, and his post-frame business, located on Hixwood Road, was booming. By 2020, Hixwood operated a panel and roll-forming business, and had its own brand of post-frame packages, a shed-building business, and coil sales

with distribution throughout the US.

The company has seen a lot of growth in the last few decades, particularly in the last year. Hixwood increased sales by 53% in 2021. This was partly possible because of rising prices, but mainly because Hixwood's owners, Paul and Harvey Zimmerman, saw opportunities in product expansions and new business. With the merger, Hixwood is planning additional growth in the future. As Hixwood's General Manager Paul Zimmerman said, "Hixwood is ready to expand, but we've lacked the capital and resources in recent years to do so as aggressively as we'd like."

Ambassador Supply

They were enabled to pursue these op-

portunities by Ambassador Supply, their parent company. Ambassador Supply, an investment, management, and holding company, acquired Hixwood in 2020.

Ambassador Supply deals in both agricultural and urban/suburban buildings. In 2021 they earned revenue of \$250 million, split between the markets; in 2022 they expect to reach \$350 million. By 2024 they project \$500 million in revenue.

Ambassador Supply is an affiliate of Ambassador Enterprises, a philanthropic equity firm that focuses on "legacy businesses." Brad Crawford, president and CEO of Ambassador Supply, stated that a legacy company is a small company that has built up their business and equity in

their business name. They are known as being down-to-earth and an important part of the community.

As a philanthropic equity firm, Ambassador Enterprises operates two divisions, one for profit and one for non-profit. A portion of the earnings supports missionary work, including education in Liberia and other mission work throughout Africa. They also created a non-profit mall in Fort Wayne, Indiana where shops can operate without huge rent payments.

The mindset that Ambassador works with is three-fold:

1. Financial. Like every business, they need to be profitable.

2. Cultural. This means the way you treat your employees and your customers is important. If an employee is worked so hard that they have no time to give back to the community, for example as a coach, getting involved with 4H, or whatever way the person cares to participate, then the company is not treating them right. And of course, they want to always deal fairly with customers, too.

3. Faith-based. This does not mean that the people Ambassador works with have to be believers; it does mean that Ambassador employees treat everyone in a way that is compatible with their faith.

Further, the company culture that Ambassador exemplifies is through the lens that everybody in every position matters. It doesn't matter what the CEO does if the truck driver doesn't do his job, and vice versa.

Ambassador Supply is always on the look-out for like-minded companies, and Hixwood is a perfect fit. "Harvey and Paul are salt-of-the-earth kind of guys," per Crawford, and Ambassador helps make their vision reality. Further, he states that Ambassador is generally not a "buy-and-flip" type of company; they usually hold the companies they have acquired.

What the Merger Means

The merger means that Hixwood is now serving a total of 17 states across the Midwest and the Eastern United



Metal building components by Hixwood, wrapped for protection and ready for delivery. PHOTO BY SHARON THATCHER

States. Customers of Country Metals and Qualiform Metals should expect the same commitment to quality services that they have always experienced, according to Crawford.

"The marketing, website and logos on the trucks have changed," he said. "Our relationships with customers have not. If anything, this will provide more resources to ensure we meet customer needs."

This is in keeping with Crawford's statement that on the rural side of the business, their aim is to help rebuild and revitalize rural America. He sees Ambassador as being part of a larger movement that has people working to rebuild the Town Square, businesses, and farms, not necessarily to modernize but to impact people in a positive way. That is what it's all about. **GSCB**



Hixwood supplies builders with metal panels, trims, and other metal components. The company is now serving 17 states across the Midwest and Eastern US. PHOTO BY SHARON THATCHER

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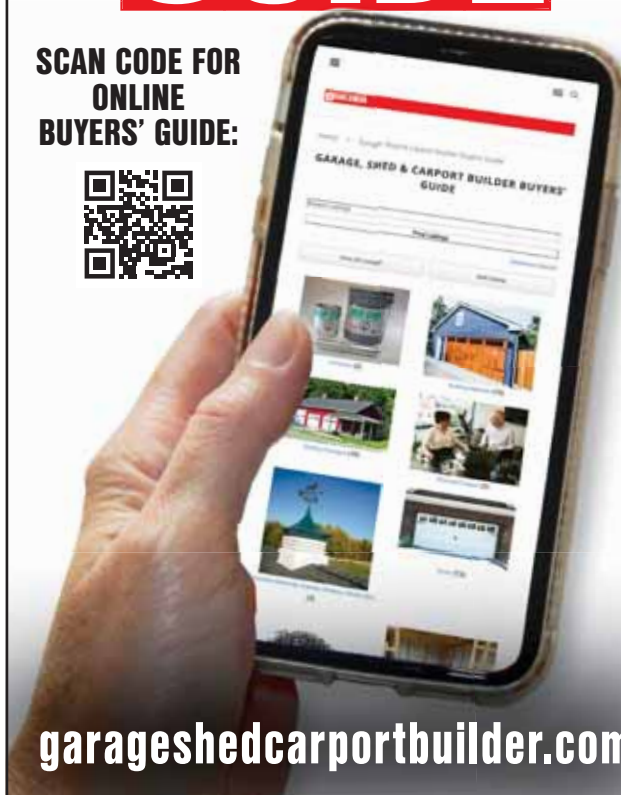
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