

FLIP THIS ISSUE

SPECIAL SECTION: METALCON PREVIEW



Rural Builder

Serving The Construction Trade Since 1967

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SEPTEMBER 2021

Vol. 55, Issue 6

**BUSTING MYTHS
ABOUT COLD-FORMED STEEL**

NATURAL LIGHTING WITH POLYCARBONATE

SCHOLARSHIP RECIPIENT FINDS HER PATH

CLOSER LOOK:

BI-FOLD DOOR FRAMES

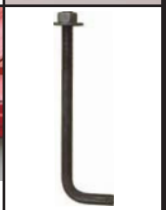




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Mill closure will cause paper variation

Dear Readers,

It seems too many of my publisher's letters start with the words, or the thought, "What an interesting world." I am certain we all would like the opportunity to return to a business climate resembling normalcy. Well, we ain't there yet.

Because of supply chain disruptions, I know many manufacturers are working hard to find solutions to deliver their products. We are no exception.

The Evergreen paper mill [Pactiv Evergreen Inc.] closed, which represents a 13% market share of the type of paper used in publishing short run magazines like ours. This will result in the expected changes impacting delivery and pricing for that specific product. The good news is since your subscriptions are requested and free, you *won't* see a price increase. In the current situation, neither will our advertisers.

What you *will* see is a possible variance in paper weight and coating type. We will do everything within our power to continue offering a quality product and meeting the higher standards we have endeavored to uphold over the last two years and get issues out on time.

As with all challenges, this also creates opportunity. We are in the process of launching the improved digital versions of our magazines and our new websites. The articles are formatted to be read on smartphones and tablets, not in the flip book (let's pretend we

are a magazine because we have no imagination) style. We are also working on ways to incorporate the printed ads into the digital issues and unveiling improved versions of the Buyers' Guides.

We will continue to innovate and grow. If the paper seems different temporarily, it is what we needed to do to get the magazines to you on time. When the paper market returns to normal we will go back to the heavier and higher-quality paper we moved to two years ago.

Lastly, please see this as an example of what happens when the labor force is reduced and shut downs disrupt the supply chain. The paper cost between the Source Book and the September issue of Rural Builder increased by 14% in just two weeks. This is the same situation all industries have been facing for the last 18 months. It is time to open up and get back to normal.

Whether you believe in masks and vaccines is unimportant. What is critical is we find a way to open and get people back to work. Hiding has never been and never will be an actual solution to any challenge.

Regardless of the destination, life is a one-way street and the direction is forward.



Gary Reichert, Publisher

There's power in the vote

You will recall that a few weeks ago I told you there would be an opportunity to vote for your favorite Source Book project. We've included a printed ballot in this issue (on page 34). Simply tick the box beside the project you'd like to vote for and complete the contact information. (No voter ID required! 🗳️) Mail it in and we'll take care of the rest.

This is your chance to determine which case study gets written for the December edition of Rural Builder. We'll tally the votes and do an in-depth study of the project that gets the most favorable feedback. We'll contact the submitting company and the builder and develop what was a quick-hit project snapshot in the Source Book into a full-blown case study wherein you will learn a lot more about the build itself, more about the products that went into the project, and we'll also profile the builder (if they wish to participate). It's a great opportunity to show your support for your favorite supplier(s) and support your peers.

If you prefer to save a stamp and vote online, scan the QR code on the form. We've also included the option on the printed ballot and to make it easy for you to sign up or renew your free

subscriptions to all our magazines.

The other item I wanted to make sure I mentioned in my editor's note this time is the profile of Maria Ralph, a mikeroweworks Foundation Scholarship recipient. I spoke with Maria at length about her work and education experience, and what it was like applying for the scholarship. The conversation was inspiring. If I was able to convey in the article half of the positivity that I felt during the conversation, I've met my objective.

In these interesting times, we all need to read or hear more feel-good stories. If you or someone you know would like to share your positive and motivational experiences in the trade, we would love to hear from you. You know where to find me!

Until next time — be well.



Karen Knapstein, Editor



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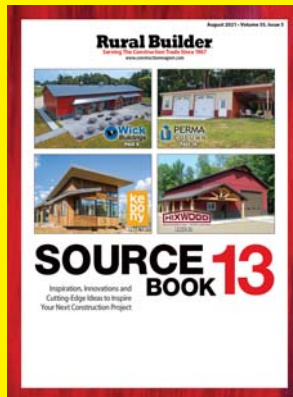
Agricultural barn with stainless steel-framed bi-fold doors. Stainless steel is a good fit for corrosive environments because the material is resistant to corrosion.

Courtesy of Diamond Doors.



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**COMPLETE THE
BALLOT ON PAGE 34
TO VOTE FOR YOUR
FAVORITE SOURCE
BOOK PROJECT.**



The "people's choice" project will be the subject of an in-depth case study in the December edition of *Rural Builder*.

Rural Builder®



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Rural Builder (ISSN: 0888-3025) Volume 55 Number 6 is published monthly, except January, April, June and November, by Shield Wall Media LLC, 150 Depot St., Iola, WI 54945. Periodical postage paid at Iola, WI, and at additional mailing offices. Canadian Agreement Number: 40665675. POSTMASTER: Send address changes to Rural Builder, Barb Prill, PO BOX 255, Iola, WI 54945. Copyright 2021 Shield Wall Media LLC. Rural Builder and its logo are registered trademarks. Other names and logos referred to or displayed in editorial or advertising content may be trademarked or copyright. Rural Builder assumes no responsibility for unsolicited materials sent to it. Publisher and advertisers are not liable for typographical errors that may appear in prices or descriptions in advertisements. Mailed free to rural contractors and their suppliers throughout North America. Others may subscribe: \$29.98 for 1 year, \$55.98 for 2 years, and \$79.98 for 3 years in the U.S.; \$39.98 for 1 year, \$74.98 for 2 years in Canada.

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Maria Ralph Found Her Tribe In The Trade

BUTTE, MONTANA, RESIDENT MARIA RALPH was awarded a mikeroweWORKS Foundation Scholarship in 2017. Maria became interested in building early in her life, though she didn't act on the impulse until relatively recently. "I wanted building blocks as a child. I wanted a Barbie house too, but for the sake of having the house – not the dolls that went with it," she mused.

"When I was about 10, I found floorplans on scraps of paper," she recalled. "I guess my Dad was interested in architecture when he was younger. But when I found the scraps of hand-drawn floorplans, I was fascinated with it."

However, Maria couldn't pursue her interest in building as a young adult. "When I graduated from high school, I passed up the opportunity to go to the University of Arizona, where I grew up." At that time, she took a one-year course at the Phoenix Institute of Technology and earned a certificate. While there, she met her husband and moved to Montana.

"I worked jobs here and there and ended up working at Staples. I worked there for a long time, but got tired of the corporate culture," she explained. "I ended up opening my own coworking space."

Habitat for Humanity proved to be Maria's first solid step toward entering the construction trade. Her coworking space is next to Habitat for Humanity; she decided to volunteer and found that she loved it. "I did a lot of painting and trim work. I got to work on a lot of different

projects. I really enjoyed it."

The inspiration to jump in with both feet came from an unexpected direction. "It felt like I had a lot of extra time on my hands, and I was trying to figure out how to make my business work better. I'm a faith-based person; I was praying for guidance on what to do." Inspiration struck when her son and his girlfriend began attending Highlands College, the trades part of Montana Tech.

"My son's girlfriend went into the carpentry program and she just loved it," Maria recalled. Highlands College Associate Dean Bill Ryan made the schooling experience an overwhelmingly positive one. "My son's girlfriend had lots of good things to say about the program." It all sounded encouraging, so Maria looked into the school for herself and told her husband that she was thinking about attending; he was supportive from the get-go.

She registered and started in the construction program at Highlands in Fall 2017. Having stepped down as associate dean of the college, Bill Ryan was one of her instructors. "Those two years at Highlands, when I was hands-on working on projects, it was wonderful," Maria said. "At the time, the college had a service/learning partnership with Habitat for Humanity, so I ended up working back there as part of the instruction. I did a lot of things; I learned a lot from working with Habitat for Humanity. I found my tribe and they carry hammers. I knew that



mikeroweWORKS Foundation scholarship recipient Maria Ralph is now pursuing her Bachelor's Degree in Construction Business Management and hopes to one day become a general contractor. SUBMITTED PHOTO.

was where I was supposed to be."

Maria applied for the mikeroweWORKS Foundation Scholarship the spring before she started at Highlands. She was notified of winning the scholarship the week before she started school. When asked about her scholarship application experience, she said, "The process was very easy. You have to write a little bit about what you hope to do with your education in the trades, and answer questions about your experience and how eager you are to be a recipient. But it was very easy. It's one of easiest scholarships to apply for. Plus, they have a partnership with Wolverine, and they gave me a free pair of boots. The mikeroweWORKS foundation is very supportive of the trades and getting into the trades. And they support people who want to get an education to



As a result of a collaboration with mikeroweWORKS Foundation (www.mikeroweworks.org), *Rural Builder* is featuring profiles of Work Ethic Scholarship recipients in each of its issues. Hundreds of scholarships have been awarded to trade-school students who value hard work and taking personal responsibility. *Rural Builder* applauds these students and wants to acknowledge their choice to apply their talents to skilled trades. Thank you, mikeroweWORKS Foundation, for your continuing efforts to close the skills gap and "reconnect the average American with the value of a skilled workforce."

get a good paying job without a lot of debt. I still share that information with other students. I tell them it's one of the easier scholarships to apply for."

After completing her initial two-year program, Maria decided to continue her education by entering the Highlands College construction management program. "It's a business management degree," she explained. "A business degree with construction emphasis. It includes operations management, human resources, and a little construction, like estimating and scheduling. A lot of it is geared towards engineering. I'm graduating in December 2021."

Even though she is still attending school, Maria remains intent on keeping her S.W.E.A.T. Pledge. "The Pledge is very relatable to me so I have no problem sticking with it," she said. "My Dad raised four girls with a strong work ethic; he wasn't afraid to put us to work."

"Trying to keep the debt down is one of the bigger points," she continued. (The second part of her education – the management part – hasn't been supported by a lot of scholarships.) "I'm taking on extra gigs to pay for it. Knowing what I do and having a trade background is how I'm paying for the management program. That's keeping the debt down."

Ambassador for the Trades

Maria acts as an ambassador for the skilled trades by informing students about (and offering to help them with) the mikeroweWORKS Foundation scholarship applications. She also encourages men and women of all ages to work with their hands. When asked what advice she would give those who are thinking about entering the skilled trades, she said, "Jump on it! I'm 51 years old. One of the things I came across at Highlands College is some of the best, most engaged students were in their early thirties. They had already left their run at another career or job to make a living. They found their second wind at Highlands learning a trade."

"I met a woman in her mid-thirties who entered the welding program," Maria recalled. "She flourished! She found her niche. Some students were veterans who were finding another way to do things



Maria Ralph, far right, found her calling while volunteering with Habitat For Humanity. Shown here is Maria's Highlands College classmates and their Habitat on-site instructor (second from left). PHOTO COURTESY OF MARIA RALPH

by entering the fabrication or welding program and carpentry program. You get to a point where you realize that some people enter jobs to make a living. Then some realize they can find something they love. It's satisfying using your hands! Anyone who reaches the point of asking themselves, "What am I doing here?" should look for the opportunity to get into a good trade school."

"I found my tribe and they carry hammers."

Maria Ralph,
MRWF Scholarship Recipient

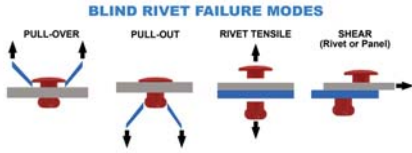
Having no background in working with one's hands shouldn't be a deterrent to learning a trade. Maria explained, "I was at that [inexperienced] point when I first got into school. They teach you what you need to know in a program; they teach you how to do it all. And they teach you safety. It's a learning process. If you're not sure, volunteer for Habitat for Humanity. You'll get a feel for what it takes. I don't know if I would have figured it out without volunteering. What gave me that final push to enter school was volunteering (painting and doing trim work)."

When asked what she would have done differently, she said she would have taken advantage of out-of-state apprenticeship opportunities. "Take advantage of apprenticeships and internships because,

from what I've heard from my classmates, the internships are super valuable. When summer comes along, jump on 'em and learn. And they make good money! I have classmates who came back from jobs out of state, and they had a new truck. They got paid really well. If I could go back in time, I would have taken advantage of those internships and apprenticeships because you learn so much more about the trade."

Thanks to hands-on construction training, Maria feels there are many opportunities for her. And she's not ruling out larger-scale construction work. When asked what her goals are, she said, "I hope to start a small business, a handyman service. I really like to do trim work; I like the details of construction. I may possibly move on to become a general contractor. I've been encouraged by a lot of people that general contractors are needed. There's a building boom in Montana," she explained. "The population is taking huge jumps; people are moving in. The building boom was going strong even through COVID lockdowns."

Maria's enthusiasm is contagious. "We're living in a great country where there are opportunities," she said enthusiastically. "I am super fortunate to live in the United States. There's so much opportunity here! As a Hispanic woman, to be able to get an education in the trades and get a job — and have people approaching me for jobs — I feel very fortunate." **RB**



■ BLIND RIVETS: TRIANGLE FASTENER PUBLISHES PULLOUT, PULLOVER DATA

Triangle Fastener Corporation [www.trianglefastener.com;] announces the publication of pullout and pullover test data for blind rivets and is the only known published data that is available in the metal cladding industry.

The blind rivet tests were conducted as a direct result of requests by the design and engineering community who use rivet pullout and pullover strength when designing various steel or aluminum panel systems. Some blind rivet connec-

tions may experience tensile loading, which can lead to pullout, pullover, or tensile failure of the rivet.

The pullout and pullover tests were conducted at an independent laboratory and includes ultimate load values and the mode of failure. Test results can be found on the TFC website and a copy of the independent test report is available by contacting the TFC Tech Center located in Cleveland Ohio.

Triangle Fastener Co. Acquisition

Triangle Fastener has also announced the acquisition of GLR Fasteners Inc., located in San Jose, California. GLR Fasteners Inc. is a distributor of fasteners used in roofing and glazing applications. GLR has serviced the San Francisco Bay area since 1977 and was owned and operated by Gloria Rubalcava since 1989.

With the acquisition of the company on August 1, 2021, TFC expands its coverage in the Bay Area by providing customers local access to the complete line of Triangle Fastener products and services.

GLR will immediately transition to become a TFC branch. To ensure continuity, the entire GLR team will continue to run the daily operations located at 1425 Koll Circle #104, San Jose, CA 95122.

Triangle Fastener Corporation, a member of SFS, has 24 locations servicing the commercial construction markets since 1977. The company provides a full line of high-performance fasteners, sealants, flashings, and tools used to construct the building envelope, along with interior applications like steel framing and sheet metal.

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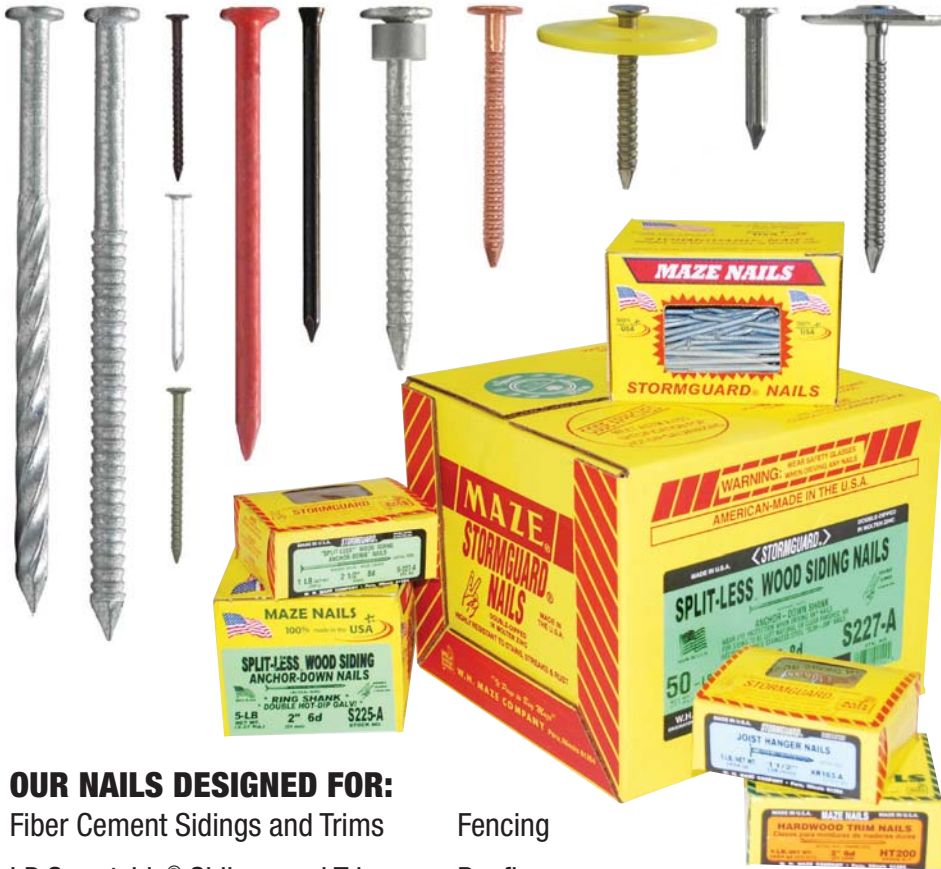


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■ UNION CORRUGATING LAUNCHES NEW VISUALIZER WEBSITE TOOL

For 75 years, Union Corrugating Company (UCC) has been a leader in the metal roofing and building markets. In its decades of existence, UCC has seen many changes — especially in technology. However, one thing has remained the same: UCC's focus on delivering quality products, superior service and value to their customers. In that tradition and reputation, after many months of hard work and dedication, UCC has announced the launch of its updated website and new visualizer tool.

UCC's primary goal during the redesign process was to create a more valuable, user-centric and responsive resource across all platforms and devices. Focusing on making it easier for its customers to learn and locate valuable information about their metal products, services and offerings, the new UCC website allows users to browse metal options by a particular application or industry.

The new UCC website can be found at unioncorrugating.com and features a state-of-the-art building visualizer tool. This visualizer tool allows users to upload their own picture to the website and see UCC's products and colors instantly on their project(s).

"We understand our customers have choices when it comes to purchasing metal roofing, wall panels and metal building solutions," said Keith Medick, President and CEO of Union Corrugating Company Holding, Inc. As a result, we want to provide the best options and the best service to our customers so there really isn't a choice other than UCC. Updating our website was a necessary step in providing our customers with excellent customer service."

■ S-5 MANUFACTURING RECEIVES SAFETY AWARD

S-5! [www.S-5.com], an authority on metal roof attachment solutions, has announced its Texas manufacturing plant has earned the Metal Building Manufacturers Association (MBMA) Safety Award for exceptional performance in maintaining workplace safety and for zero recordable incidents.

Each year MBMA honors member companies that demonstrate exceptional performance in maintaining workplace safety. These awards are given to members for their performance during the previous calendar year. Accepting on behalf of the S-5! team at the 2021 virtual MBMA annual meeting and awards presentation was

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S-5! CEO and Founder, Rob Haddock.

“We are honored to receive this award and are grateful to all of our manufacturing plant employees for their hard work and dedication to making this honor possible,” said Haddock. “We take safety very seriously and have implemented a number of safety initiatives to ensure the S-5! Manufacturing is a safe place to work.”



From left, Jeff Myers, S-5! Manufacturing Plant Manager and Harry Carner, S-5! Vice President of Manufacturing pictured with the MBMA Safety Award. SUBMITTED PHOTO.

MBMA is a leader in advocating for robust safety programs throughout the metal building systems industry. “Promoting workplace safety is one of MBMA’s most important objectives and these awards recognize the member companies that set an example for all of us,” says Tony Bouquot, general manager of MBMA. “S-5! is an active member of MBMA, so it is no surprise that they achieved this award. A full year with no accidents is quite an achievement!”


■ HDI CLOSES PURCHASE OF NOVO BUILDING PRODUCTS

The sale of Novo Building Products [www.novobp.com], Zeeland, Michigan, from Blue Wolf Capital Partners to Hardwoods Distribution Inc. (“HDI”) was completed on July 31, 2021. Based in Langley, British Columbia, Canada, HDI is one of North America’s largest wholesale distributors of architectural building

products to the residential and commercial construction sectors. HDI operates a network of 70 distribution facilities.


Novo Building Products is a manufacturer and distributor of stair parts, mould-

ings, doors and specialty millwork, along with a variety of board products. The company operates Ornamental Decorative Millwork, L.J. Smith Stair Systems, Empire Moulding & Millwork, Southwest

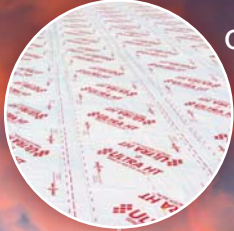


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“We’re excited about joining the impressive HDI family of distribution,” says Jeff Leys president and COO of Novo Building Products. “This is a time of growth at Novo Building Products and this recent acquisition helps strengthen us in the marketplace.”

The intent for acquisition was originally announced with Blue Wolf on June 23.

■ BRADBURY COMPANY ANNOUNCES EXPANSION FOR KANSAS PLANT

The Bradbury Co., Inc., is expanding its test and assembly facility by approximately 40% to increase manufacturing capacity and provide additional space for testing the custom-built production lines before shipping to customers’ facilities.

The addition, which will extend 10’ higher than the existing facility, will be engineered to house 30-ton cranes. Beginning steps are taking place in the multi-phase expansion process that should be complete by February. In addition to increasing manufacturing space, Bradbury is adding to its labor force and is accepting applications for numerous careers at the global headquarters in Moundridge, Kansas.

“Bradbury manufactures equipment for a variety of industries,” says Ryan Durst, Bradbury President. “We are expanding not only our assembly and testing facility but also our workforce. Our equipment

utilizes the latest automation technology and we are always looking to add highly engaged people to our team. With the addition of robotics and advanced automation, our lines of equipment have lengthened and the additional floor space will accommodate our need to assemble, test and deliver these large systems to our customers. We are excited to complete this expansion project and add capacity to our company as we continue to grow and serve our customers.”

Bradbury’s fabrication shop, where the major components required for the assembly of Bradbury equipment are machined, houses 60 various CNC machines including horizontal lathes, vertical lathes, horizontal mills, vertical mills and boring mills. The custom equipment is built and tested in Bradbury’s assembly and test facility. Careers are available in various positions throughout the company.

■ SHEET METAL SUPPLY CELEBRATES 30TH YEAR

Sheet Metal Supply Ltd. [www.sheetmetalsupply.com] recently celebrated its 30th anniversary with an employee gathering at the plant.

“It’s been an exciting 30 years, no doubt about that,” says Phil Kweton, Founder of Sheet Metal Supply. “Through the years, we’ve increased our product offerings, added staff and recently, we moved into a state-of-the-art 80,000 square foot facility in Grayslake. We succeeded by using

a very simple formula – Customer First!”

Ben Kweton, CSI-EP, Vice President of Sheet Metal Supply, says the company’s first 30 years have been analogous to a tree putting down solid roots and providing a strong foundation upon which to grow stronger, branch out and have an occasional offshoot.

■ HUBER WINS 2020 IMD-PICTET SUSTAINABILITY IN FAMILY BUSINESS AWARD

J.M. Huber Corporation (Huber) has won the 2020 IMD-Pictet Sustainability in Family Business Award for its holistic and long-term approach to embedding sustainability across its operations, from governance to product innovation.

With sustainability rapidly becoming business-critical as a license to operate, the IMD-Pictet Sustainability in Family Business Award acknowledges and motivates family-owned enterprises that strive to excel in corporate sustainability and impact.

The independent jury highlighted the Huber family’s commitment to sustainability and the Company’s clear demonstration of a will to transform itself, including the representation of sustainability at director level and the Huber Principles, which underpin its focus on the Triple Bottom Line of people, planet and profit.

“At IMD, we are very familiar with Huber’s outstanding strengths as a previous winner of IMD’s Global Family Business Award. This is a family-owned company that leads by example by creating positive impact throughout its business and beyond,” said IMD President Jean-François Manzoni. “Our award jury of independent experts praised Huber for its strong leadership on sustainability, from product innovation to best practice governance.”

Founded in 1883 by German immigrant Joseph Maria Huber to make pigments for ink, Huber now operates in 20 countries worldwide as a diversified specialty products business including personal care, food and beverage, agricultural nutrients, sustainable forestry services, building materials and flame retardants. **RB**

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Photo Caption: MWI foil insulation facility



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Add Natural Lighting With Polycarbonate

With up to 90% light transmission, polycarbonate is a healthy choice

Working in natural light not only feels good, but it's good for you. Author and scientific researcher Lisa Heschong recently shared her research findings on the benefits of daylighting and window views with the Fenestration and Glazing Industry Alliance (FGIA, FGIAonline.org) at its 2021 Virtual Summer Conference. A licensed architect, Fellow of the Illuminating Engineering Society (IES) and a founding principal of the Heschong Mahone Group (HMG), Heschong spoke about the many benefits of daylighting and how the fenestration and glazing industry is poised to take advantage of these attributes.

"My journey in daylighting has involved interviewing factory workers and others about lighting quality," said Heschong. "I did a series of studies on the impact of daylighting on human performance, including in schools. I tried to quantify the impact of daylighting on worker performance. 'View' was the big winner in my daylighting studies."

Heschong noticed that simulated lighting products started to crop up in the marketplace, billed as "dynamic lighting" or "circadian lighting." "Research groups around the country looked at integrated office systems that simulated views or created 'integrated environments,'" she said.



Clear polycarbonate allows the greatest amount of light transmission. However, since the light is not diffused, as it would be in a translucent panel, it can create a "hot spot." PHOTO COURTESY OF PALRAM.

Your customer will be less dependant on artificial (circadian) lighting if you provide them with plenty of natural lighting with skylights, windows, and polycarbonate panels. In this article, we focus on polycarbonate panels, which have a broad range of applications in low-rise construction.

Polycarbonate panels are either transparent (you can see through them) or translucent (light comes through them but you can't see through them clearly). Selecting a panel profile that fits the exterior is important. "Typically the metal panel profile is

Light Transmission: Light transmission is the percentage of light that passes through a polycarbonate sheet. When a light beam strikes a polycarbonate sheet, some light is reflected, some absorbed, and the rest is transmitted. Light transmission depends on the reflectance of both surfaces of the sheet and the absorption of light into the sheet. Light transmission decreases with an increase in thickness.

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mimicked by the polycarbonate panel and these different profiles can be used as skylights or cut-down for sidelights on a building," said Alicia Cahill, Customer Service Manager, MWI Components. MWI Components offers seven polycarbonate profiles in a variety of lengths, colors, and thicknesses: Classic AG Panel, Heavy Duty Classic AG Panel, Pro Panel, Ridge Light, CD 2000, Commercial Grade R Panel, and Heavy Duty 1/16" R Panel. Colors include Clear, Opal, Solar Grey, and Soft White. "Most panels are offered in varying shades to allow for customization to the structures' intended purpose/use," she continued. It's important to not choose a panel that is too thin for its intended purpose; don't sacrifice structural integrity in the name of cost savings.

Corrugated polycarbonate is durable and has a high degree of light transmission, which makes the material an excellent choice for increasing the amount of natural light in structures in which animals or people spend any significant amount of time. "Naturally day lit buildings not only create a pleasant and improved environment for livestock," said Cahill, "but they also have significantly lower running costs, and they are more energy efficient than buildings relying on artificial light sources."

Also of import is making sure the panel is oriented correctly. "Know which side or what panels are UV protected so you are not using a panel in a lighted situation that may lead to eventual deterioration," Cahill cautioned.

WORKING WITH POLYCARBONATE

Onduline's TUFTEX Master Series PolyCarb panels are designed to withstand surface temperatures from 270° F to -40° F. The company's Clear panels allow 90% light transmission, while the Translucent White panels allow 70% light transmission.

No special tools are needed to cut or install polycarbonate panels, but there are some cutting and installation tricks that will prevent damage and ensure maximum life expectancy from the material.

Check with the manufacturer (and any applicable local building codes) about cross-bracing requirements; sheet thickness and wind loading will have an affect on bracing requirements. For example, TUFTEX recommends horizontal bracing every 36"

Corrugated Polycarbonate Applications:

- Agricultural Buildings
- Awnings
- Canopies
- Carports
- Covered Walkways
- Greenhouses
- Industrial Roofing
- Patio Covers
- Pergolas
- Pool Enclosure
- Shelters & Sheds
- Sidelites
- Skylights
- Sliding Doors
- Sunrooms
- Vertical Glazings

(bracing perpendicular to the direction that the panels will lay). Depending on the manufacturer or the product, the bracing required to meet the warranty conditions could be different.

Polycarbonate panels are easy to work with. A utility knife can be used to cut a single panel; detail cutting can be accomplished with tin snips. To cut several panels at a time, manufacturers recommend using a jigsaw or circular saw with a fine-tooth blade. (If using a circular saw, use a plywood/panel blade installed backwards.) Use a high blade speed and feed at a medium rate. Proper cutting speed is important: If you feed it too slow, the plastic will melt; too fast and the blade could break out large chips. Get a perfectly straight cut by clamping a straight edge to the stack of



Translucent and transparent corrugated polycarbonate panels from Direct Metals, Inc. Stainless steel fasteners with oversized washers are ideal for installing predrilled polycarbonate sheeting.
PHOTO COURTESY OF DIRECT METALS INC.

polycarbonate sheets to guide the saw.

Andrew Mullen, president of Direct Metals Inc., a supplier that offers a variety of single-ply polycarbonate panels, advised: “Avoid intersecting cuts — if one must be made, drill a hole at the intersection point and then saw to that point.”

Polycarbonates expand and contract more than most roofing and cladding materials, so installation requires predrilling. “Polycarbonate and PVC expand/contract at a different rate than the substrates that they will be fastened to,” advised Cahill. “The fastening holes must be oversized to allow for this expanding/contracting or the panels will get wavy, which could lead to cracking and crazing over time.” Depending on the panel manufacturer, it’s recommended users drill the hole anywhere from 1/16” to 1/8”



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larger than the diameter of the fastener.

Mullen cautioned, “If you don’t predrill or predrill a large enough hole, you’ll get micro-cracks that grow into spider cracks around the fastener. This is the case for all polycarbonate panels.”

If fasteners are over-driven, the panels won’t be able to move as they expand and contract with temperature changes, which will cause dimpling, cracking, buckling and — ultimately — unhappy customers. Mullen advised, “Do not overtighten fasteners — this will cause the rubber washers to fully compress. It is best to use electric screw guns with torque-sensing devices and not impact drivers. Always drive the fastener perpendicular to the surface of the panels until seated. If the washer deforms, the fastener is too tight.”

For a leak-free installation, overlap one corrugation and seal the side laps and end laps with a neutral cure silicone sealant or approved butyl roll sealant tape. Lap ends a minimum of 4”. Use closure strips that match the profile of the corrugated panel on both ends and on horizontal supports.

Mullen cautioned, “While polycarbonate panels are resistant to a variety of chemicals, many sealants, paints, coatings, adhesives, and insulation backings may be adverse to the material. A reaction to sealants may look like spider cracking within the panel, weakening the panel’s integrity prior to installing. It is suggested to consult a pre-tested list of sealants, adhesives, and coatings

Eye Health & Technology

About 20 years ago, scientists identified cells in our retinas that are especially sensitive to blue light, or the type of light often produced by digital screens, explained researcher Lisa Heschong. These cells signal directly to the brain, and they impact almost all aspects of human health.

When it comes to eye health, the retina is the most energy intensive tissue in the body, noted Heschong. “One hundred years ago, less than 2 percent of people were myopic, or near-sighted,” she said. “Now, it’s much higher. Again, it’s connected to circadian stimulus.”

from the manufacturer.”

When installing corrugated polycarbonate panels, fasten on the crown of the corrugation when the panel is applied on the roof; fasten in the valleys when installed on walls. Fasten the panel from one end to the other; don’t fasten from each end towards the middle. If installing a polycarbonate ridge cap, use closure strips, but reverse the strip so it’s facing down to fit into the panel profile on the roof. This will give you a smooth surface on which to mount the ridge cap.

Incorporating more natural lighting via polycarbonate panels into your builds will brighten their interiors and can give the building occupants a stronger feeling of well-being... even if the occupants have four legs instead of two. **RB**

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Choosing Stainless Steel Bi-fold Door Frames

STAINLESS STEEL DOOR FRAMES ARE the top choice for livestock barns and other corrosive environments. As a builder or installer, you are dedicated to providing customers with the best quality product. Installing a commercial-sized door on a new or existing building can be a considerable investment for customers. Choosing the right product can ensure long-term satisfaction with their building.

Commercial bi-fold doors consist of two pieces of steel frame joined together by industrial hinges. Installed to the exterior of the building, the door lifts upward and folds in half, using minimal space in front of the building to operate and leaving maximum headroom inside.

The bi-fold door frame is exposed on the inside of the building, which leaves the steel susceptible to rust and deterioration in corrosive environments. To combat this, a stainless-steel frame is used, improving the durability and longevity of the door.

A STRONGER DOOR

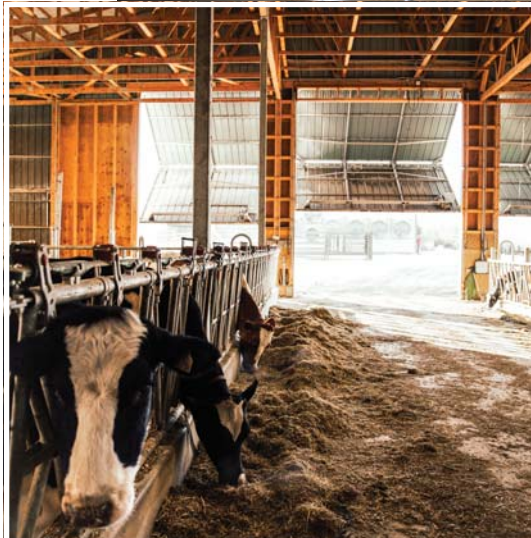
According to Samantha Wiebe, a Diamond Doors representative, stainless steel frames are the recommended option for corrosive environments because they resist rust and cracking.

Diamond Doors [<https://diamonddoors.com/>] has been manufacturing bi-fold doors since 1998, and they have seen the effect of using regular steel when stainless has been recommended. “The door needs replacing two years later. Rust and cracking result in multiple repairs. This is why it is important for the door to be suited to the project, to increase door lifespan and functionality,” says Wiebe.

Stainless steel is a combination of materials including iron, chromium, nickel,



PHOTOS COURTESY OF DIAMOND DOORS



and other alloys. The percentage of each material is dependant on the grade of stainless steel used in manufacturing, but 304 grade stainless steel is popular for door frames.

This is because it has a low thermal conductivity, improving heat retention in the building. An improved surface finish helps the steel resist cracking and increases its overall strength.

The added chromium protects against rust by oxidizing on the surface, creating a corrosion-resistant barrier between the metal and the air.

Finally, with a maximum tensile strength of about 89 900 psi, which is higher than a regular steel frame, a stainless-steel door frame has better resistance to high winds.

IT'S NOT ABOUT LOOKS

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product feature

A regular steel frame deteriorates quickly when faced with high humidity or acidic environments, reducing the lifespan of the door.

These environments cause rust, pitting, and other damage, which decreases the structural integrity of the door frame and creates a potentially dangerous situation. In comparison, a stainless steel frame is much stronger when faced with these conditions.

DOOR APPLICATIONS

There are a wide variety of uses for stainless steel door frames, particularly in the agricultural industry. Livestock barns, poultry barns, and pig barns are all highly corrosive and humid. These environments are tough on regular steel, which makes stainless steel doors an ideal choice.

Vegetable storage buildings, equipment wash bays, and marinas are all applications where a stainless steel bi-fold door would be recommended.

ADDED BENEFITS

Like every other bi-fold door, stainless steel frames come fully equipped with industry standard features.

These features include safety sensors, which protect against accidental closures on equipment or personnel. Bi-fold doors also have an improved insulation rating, resulting in better protection against harsh weather and extreme temperatures.



Their locking systems improve the seal between the door and the building, and a large clear opening leaves more room for storage inside.

Select bi-fold door companies also offer an entire package with the stainless steel door frame, including stainless steel hinges, hinge pins, and lift cables. This ensures that every part of the door is long-lasting and functional. At Diamond Doors, they also include a stainless steel, sealed motor. "This provides assurance of the door's operation in the harshest environments," Wiebe says.

The benefits of a bi-fold door, coupled with the strength and durability of a stainless steel door frame, are compelling.

SOLUTION FOR EVERY NEED

A more durable frame means less maintenance and more convenience.

There is no need to refinish the door frame with paint and primer. The higher tensile strength of stainless steel provides better protection in windy locations, and the longer lifespan of the door makes the purchase of the door a wise investment.

Stainless steel bi-fold door frames offer increased longevity and strength when compared to standard door frames. Highly suited for corrosive environments, a stainless steel frame is a recommended choice for livestock and poultry barns, wash bays, and vegetable storage. **RB**

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Installation Advice:

Installers should:

- Always install according to the manufacturer's instructions
- Ensure you are using the proper weight-rated track and trolley system to support your doors

- Consider your latch & locking options.
- Determine if your doors will be functional or non-functional prior to installation
- Use Stay Guides. Stay Guides aid in bottom door retention, which reduces the amount of door sway. This helps prevent wind damage.

Installers should not:

- Ignore the manufacturer's instructions
- Assume your doors' weight will be supported by the track & trolley system.
- Use an operational tool such as the MWI Double Truck Trolley Kit as a justi-

fication for adding higher weighted doors to lower weight-rated track and trolley systems. Kits like these are utilized for smoother door operation by reducing the load on each trolley.

What are some of the common mistakes installers make?

- A common mistake is not securing the door in both open or closed positions. When a door is not secure in an open or closed position, wind can cause damage or even cause the door to come completely off the track.

Round Track vs. Square Track

Usage is based on preference from



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round to square track. Square track has been in existence longer, but round typically results in smoother operation.



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Common mistakes to avoid:

- Each door style, bifold or hydraulic, offers something different and each has specific advantages. Talk with your door manufacturer to make your decision easier.
- If you are in a high wind or hurricane area, you should consider having automatic windpins placed on your door for added stability.
- Is your door equipped with various built-in safety operations and precautions?

Your door manufacturer should be able to provide you with photo eye sensors, warning horns and lights, remote openers, walkdoors, keyless entry and backup systems in case of power outages.

- All doors equipped with remote openers should have a warning system to alert persons in the immediate area that the door is about to open or close.
- Make sure the door will fit the building perfectly to ensure smooth, safe installation with no loss of headroom.
- Make sure you know the door weights, engineering data, wind load and design specifications for your hydraulic or bifold door.
- Find out what lead time will be needed from the time you place your order to delivery time.
- Don't substitute quality for price. **RB**

Door Hardware Defined

By MWI Components

Track: What the entire door system hangs from.

Track Cover: Hides the track and provides a clean appearance (optional)

Trolley: What the door hangs on - Engages the track and allows the door to move horizontally

Rail (Side, H and Bottom):

- Side Rail is the vertical framing members used to make a sliding door.
- H-Rail is used to create a lap over the Side Rail in a split door application.
- The Bottom Rail is the lower horizontal framing member used to make a bottom rail, it is also what will be used to provide additional bottom door retention by using in conjunction with Stay Guide or Rollers.

Latch: Latches should be used at both jamb sides, the center of a split door application for retention purposes and also on the exterior for allowing you to open.

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COLD-FORMED STEEL BASICS

Dispelling the Myths of Using Cold-Formed Steel as a Structural Material

WHEN SOME BUILDING OWNERS CONSIDER

structural systems for their construction projects, they overlook cold-formed steel (CFS) framing. Why? There are many common misconceptions about the effectiveness of CFS as a structural material.

However, a range of successful projects have proven these myths false. CFS framing can be an excellent alternative to other structural materials for a variety of multi-family and non-residential projects.

Below, we explore some of the most common myths about CFS as a structural material.



Cold-formed steel is an effective option for load-bearing walls.

The NAHB Research Center measured test samples and found that galvanized steel coating's corrosion rate offered a life expectancy of 325 to over 1,000 years.
PHOTOS COURTESY OF BUILDSTEEL, BUILDSTEEL.ORG

recommended coating weights, and the team should follow proper installation procedures to protect the coatings once welds or fasteners are applied.

MYTH:

STRUCTURAL CFS FRAMING WILL RUST OR CORRODE OVER TIME

Some building professionals assume that all steel will rust, but CFS framing is galvanized with coatings to prevent corrosion.

In fact, the NAHB Research Center measured test samples in varying North America locations and found that galvanized steel coating's corrosion rate offered a life expectancy of 325 to over 1,000 years.

For optimal performance, the contractor should be sure that the CFS framing members meet the AISI S201 specifications for

MYTH:

CFS IS ONLY APPROPRIATE FOR NON-STRUCTURAL WALLS

While it's true that CFS is lightweight, which makes it an ideal material for interior non-structural walls, CFS is an effective option for load-bearing walls as well. CFS weighs one-third less than wood studs and has the dimensional stability to maintain its structural integrity over the long term — meaning it won't settle or sag like other structural materials.

Because a structural CFS framing system will not warp or settle, adjacent materials that rely on the frame's strength, such as plaster, will be less likely to crack as well. CFS is also non-combustible, providing additional fire safety benefits over other materials.

MYTH:

STRUCTURAL CFS FRAMING IS LIMITED TO LOW-RISE, STANDARD CONSTRUCTION

Multiple building owners have used structural CFS framing as a durable, cost-effective solution for mid-rise construction projects, from multi-family housing to institutional developments. For example, the residential complex City Green in Milwaukee, Wisconsin used structural CFS framing for three apartment towers, one of which is 10 stories above ground.

Another important consideration for contemporary architecture is that CFS framing opens up the possibility for unique design opportunities beyond standard block construction. Consider the 43,000-square-foot Faena Forum public cultural center at the Hotel Miami Beach in Florida. Its impressive 70-foot-diameter spiral circles inside a 40-foot-high coffered dome that relied on radiused cold-formed steel as its primary structural framing.





CFS weighs one-third less than wood studs and has the dimensional stability to maintain its structural integrity over the long term.

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Using cold-formed steel as part of a building's structural system can reduce total construction costs.

MYTH:

SHIFTS IN TEMPERATURE CAN WEAKEN STRUCTURAL CFS FRAMING

The swing from hot, dry conditions to repeated freezing and thawing can weaken many construction materials, making them prematurely age. With weather patterns tending to longer duration heat waves and cold snaps, structural CFS framing can actually help buildings withstand extreme temperature shifts because CFS is dimensionally stable and does not expand or contract with moisture content.

MYTH:

STRUCTURAL CFS FRAMING IS NOISIER THAN OTHER MATERIALS.

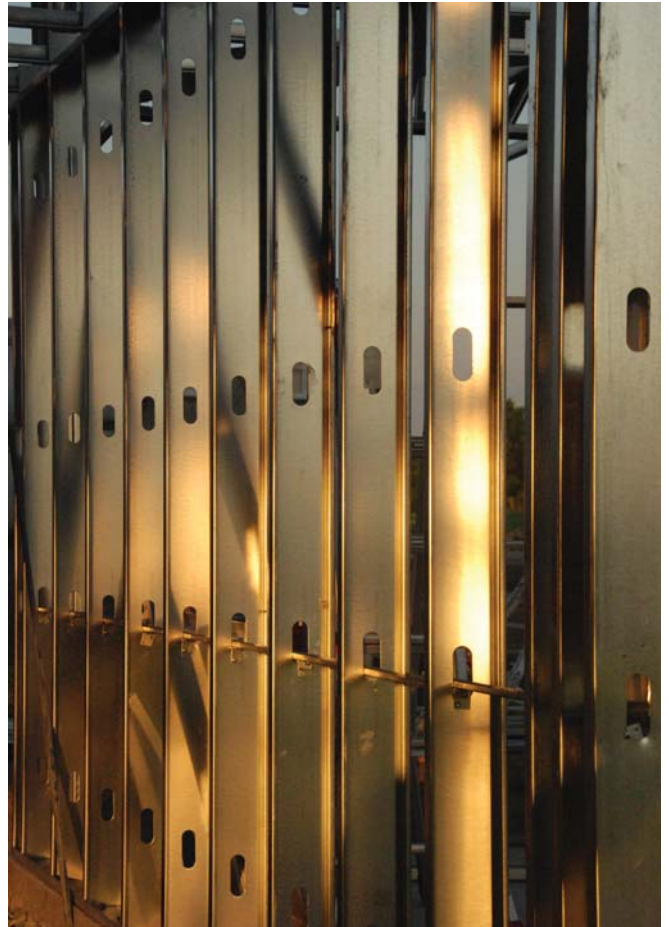
Research reveals that people spend 90 percent of their time indoors, and sound reduction is so important to a quality indoor environment that LEEDv4 has an acoustic performance credit intended to provide occupants of workspaces and classrooms with less noise disruption.

With any structural material, what matters most in construction is designing assemblies that provide optimum acoustical performance. Adding acoustical insulation to the wall's stud cavity, using indirectly connected layers of material on each side of the studs or joists, and adding gypsum underlayment to the floor decking can all help to reduce sound transmission. Learn more about minimizing building noise when using CFS.

MYTH:

STRUCTURAL CFS FRAMING COSTS MORE THAN OTHER MATERIALS.

When you consider the overall construction cycle, using CFS as part of a building's structural system can reduce total construction costs. An owner who built two comparable Holiday Inns in Texas — one with wood framing and the other with CFS — dis-



Cold-formed steel is dimensionally stable and does not expand or contract with moisture content.

covered that the use of pre-fabricated CFS framing accelerated the hotel's erection and required less materials and labor, saving money on construction.

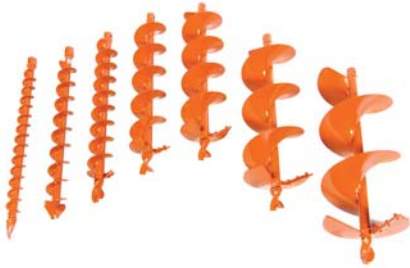
The general contractor of a six-story Embassy Suites hotel in Ohio estimated that the project saved \$10 per square foot by using CFS framing for interior and exterior load-bearing and non-load-bearing walls, and floor and roof joists.

As project owners increasingly opt to use load-bearing CFS framing, their successful developments are combatting these common myths. Not only is it possible to use CFS as part of the structural system of a building, but it provides significant benefits from financial and design standpoints. It also enhances a project's long-term durability, which reduces maintenance issues and can lower insurance premiums.

To see if your next project could benefit from switching to a load-bearing CFS structural system, contact BuildSteel for complimentary project assistance [<https://buildsteel.org/project-assistance/>]. Their team of experts can review your design and make recommendations for design and cost-effectiveness improvements. **RB**

new products

BY RURAL BUILDER STAFF



■ BOR-MAX SERIES EARTH AUGERS

General Equipment Company has introduced the 2350 Bor-Max™ Series earth augers and auger extension, offering digging performance for small, hand-held type earth auger products. These augers are specially designed to drill through unconsolidated soil classifications, such as loams, sands, soft clays and granular rubbles.

The Bor-Max Series earth augers are engineered with heavy-gauged helicoid-type flighting and axle to better withstand bending and torque loads. Overall, the augers are built to be aggressive with soil penetration, requiring less horsepower to dig a hole. Cupped flighting in combination with an increased flighting pitch is intentionally designed to maximize the amount of soil removed to produce cleaner holes with less spill back.

The cast-steel boring head features an alloy-steel screw bit and heat-treated cutting blade that are easily field replaceable to ensure minimal downtime. The cutting blade's outside edge extends past the boring head and flighting to extend service life of the auger. The augers come in nominal diameters ranging from 2" to 8" (51 to 203 mm). The plain shaft-type auger extension can be used with all auger sizes and increases the digging depth by 15" (381 mm).

The Bor-Max series earth augers are designed specifically for use with General Equipment Company's 200 Series EPIC™ hole digging products plus competitive products utilizing 1" diameter auger drive connections.

www.generalequip.com

■ DISPOSABLE HARD HAT LINERS

NoSweat has created the first disposable performance liners specifically for hard



hats that absorb sweat instantly while preventing odors, stains, acne and the constant need to stop and wipe up sweat with a towel or a shirt sleeve.

NoSweat American-made thin liners offer a universal fit in all brands and makes of hard hats and bump caps. The liners are compliant with major safety standards requirements. They can be installed in seconds by peeling and sticking a liner to the inside of the headwear. SweatLock technology instantly begins to absorb sweat. Moisture is locked inside the liner to help prevent dripping sweat, fogging, sweat stains, acne and odor. Each liner absorbs about 2 ounces of sweat.

The liners are performance, safety and hygiene based allowing users to keep their eye safely on the job, without distractions that are associated with sweating. Depending on the person and activities being performed, each liner can last anywhere from one use up to two weeks.

www.nosweatco.com

■ EAGLE GRIP LOCKING HANDLE TOOLS

Malco Products, SBC, has announced the launch of Eagle Grip, its newest line of professional-grade locking handled tools. Eagle Grip tools are the first full line manufactured at Malco's plant in DeWitt, Nebraska, the birthplace of the locking pliers.

Forged from the finest grades of American steel, Eagle Grip tools deliver strong performance on the job and are backed by Malco's 70-year heritage of innovation, quality and safety. The first nine products in the Eagle Grip line include locking pliers, clamps and seamers, for use in sheet metal, automotive, welding and agriculture applications:

Locking Pliers: 7" & 10" Straight Jaw Locking Pliers; 7" & 10" Curved Jaw Locking Pliers with Wire Cutter.

Clamps: 11" Locking C-Clamps; 11"



Locking C-Clamps with Swivel Pads.

Seamers (available soon): 3", 6" & 9" Locking Sheet Metal Seamers.

Verified by third-party testing of the LP10WC (curved jaw locking pliers with wire cutter) versus leading traditional locking pliers, Eagle Grip is the strongest locking pliers in the world. They are made in the USA and backed by a lifetime satisfaction guarantee.

www.eaglegripusa.com



■ ELASTOMERIC METAL ROOF COATING

Nationwide Protective Coatings (NPC) has introduced PERMAKOTE® metal roof paint, which is a bright white elastomeric acrylic roof coating designed to work on a metal roof system. It is a water-based, high-build formula that possesses acrylic waterproofing technology. It also qualifies for a Class A fire rating test as per ASTM E84-01, NFPA 101 Life Safety Code. Use of the PERMAKOTE® Metal Roof Paint in conjunction with NPC's Primer, Seam Tape and Elastomeric Caulk options provide a metal roof restoration system with up to a 15 year warranty.

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www.nationwidecoatings.com

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Natural Magnesium Hydroxide

A flame-retardant filler for TPO roofing membranes

TPO roofing membranes are one of the fastest growing commercial roofing segments. They are made up of a Thermoplastic Polyolefin base and a variety of mineral fillers, depending on the required flame retardancy. This type of roofing has become widespread thanks to its natural ability to reflect UV radiation. The typical life span of a TPO roof is 15 to 20 years—if installed and maintained properly, this can be increased up to 30 years.

As the membrane is exposed to all kinds of stress factors, like sun radiation, heating-cooling cycles, wind (mechanical impacts), humidity, etc., only proper components are to be used in the production of a TPO membrane in order for it to maintain its insulating and mechanical properties throughout the life cycle. On the other hand, any mineral filler added to the plastic will decrease its ability to withstand aging and shorten its lifetime. This is why only the purest synthetic fillers have been traditionally used in the production of flame-retardant TPO roofing membranes.

To create fire-resistant membranes, synthetic grades of aluminum (ATH) or magnesium hydroxide (MDH) are commonly used as flame retardants. EcoPiren® is a natural magnesium hydroxide, produced exclusively of the purest minerals mined in the Russian Far East. Similar to synthetic grades of ATH and MDH, it provides a combination of flame retardancy and mechanical properties. In this study, we are going to show that the purity of EcoPiren® aids in the production of TPO roofing membranes without sacrificing any aging resistance, fire performance, or mechanical properties.

A comparative test of different flame-retardant fillers' perfor-



mance has been conducted in a model formulation to evaluate the capabilities of high- and low-purity brucite against high-purity synthetic ATH and MDH.

The original mechanical properties were first evaluated (Picture 1, below right). Synthetic grades (not surprisingly) showed top-of-the-pack results. Uncoated and excessively coated brucite grades showed the poorest results. Appropriately coated high-purity and low-purity brucite grades showed good results, landing only slightly below the synthetic fillers.

Next, aging tests were conducted: accelerated thermal aging at 140°C (284°F) and accelerated UV aging (ASTM D4329 cycle A). Samples were exposed to high temperatures, UV radiation, and moisture condensation. After the tests, both mechanical properties and oxidation induction time were evaluated.

Synthetic fillers performed differently based on their purity.

Fire test results

Filler		EcoPiren® 5,5C	Synthetic MDH	Synthetic ATH
Self-extinction (YES/NO)	YES-NO	NO	NO	NO
T*, sec	s	95	105	80
Dripping	YES-NO	YES	YES	YES
Time to start dripping (s)	s	33	33	40
Type of dripping	-	Frequent burning small particles	Medium burning particles	Infrequent burning big particles
Horizontal flame propagation, cm	-	5	4	8

*T - time necessary for top of the flame to reach the top of the specimen (20 cm)

The samples made with seawater-grade MDH of moderate purity could not withstand the full length of the test and were destroyed, along with low-purity brucite grade (both were coated with stearic acid). Uncoated, high-purity brucite grade and extensively coated brucite grade performed similarly to each other in terms of elongation, which also dropped below 100%. On the other hand, high-purity synthetic and brucite grades performed better and the end result was almost identical for sMDH and EcoPiren® 5,5C. Mechanical properties of all compounds changed during the UV test, similar to the thermal aging. Due to lower temperature, the decrease appeared much lower.

Another important property, which drastically changes during UV testing, is OIT, which indicates the residual ability to withstand the stress factors.

Moderate-purity synthetic MDH grade performed worst of the synthetic fillers,

with high-purity synthetic MDH finishing on top of three. Low-purity brucite started and finished worst, confirming the bad influence of the iron contamination on the aging performance. Appropriately coated high-purity brucite EcoPiren® 5,5C started the test and finished it with the highest OIT, which shows the ability of high-purity natural fillers to compete against synthetic grades in aging performance.

Fire resistance is also an important part of any TPO membrane. Though the tested formulation is not highly flame retardant, it is sufficient for the market. To compare the performance of the synthetic MDH and ATH with natural brucite EcoPiren®, a vertical DIN 4102 B2 fire test was conducted. The testing parameters were as follows:

- Sample dimensions: 20 x 20 x 1.5 cm (7.8" x 7.8" x 0.6")
- Fire application angle to the bottom edge of the sample: 45°
- Burner: Bunsen type

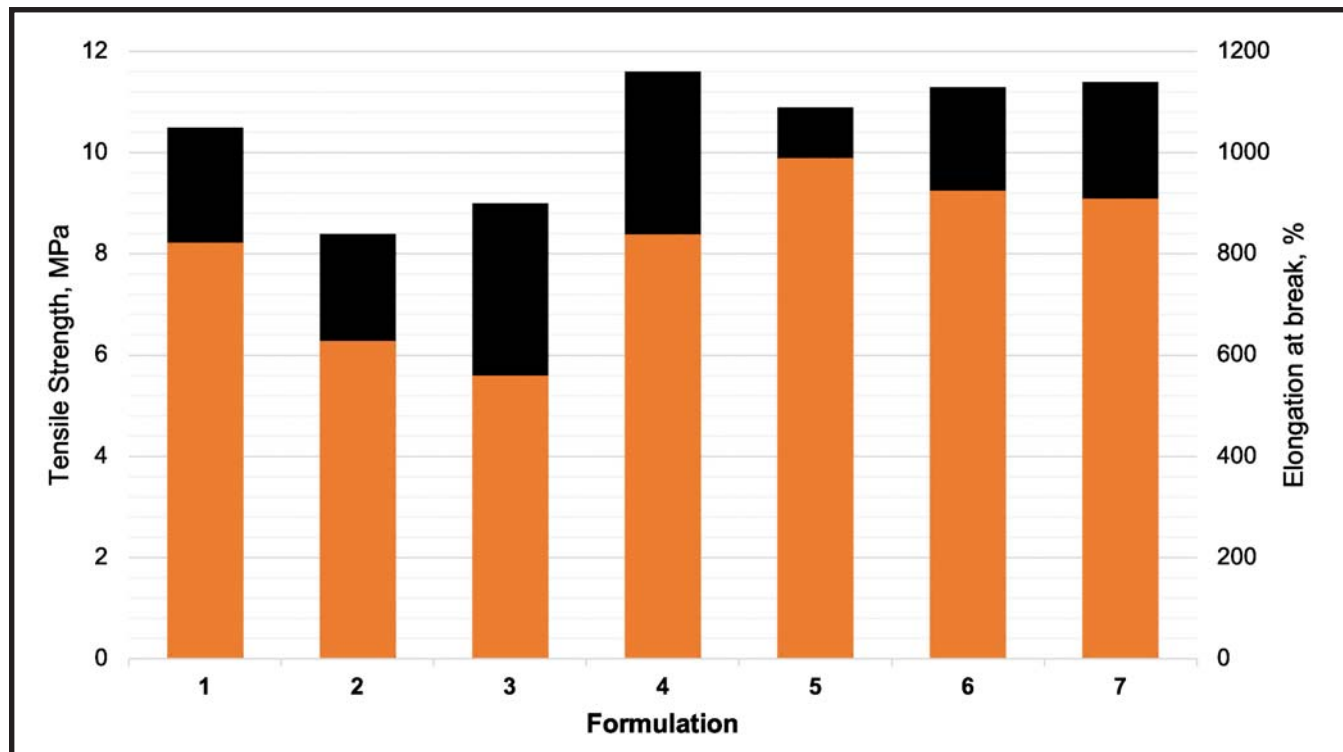
- Flame application time: 30 seconds
- Compound filling level: 50%

As the overall flame performance of the samples is not so high, the comparison between results of different fillers shows the similarity between both MDH grades (though the synthetic one is obviously the favorite here) and the advantage of the MDH over the ATH in terms of flame propagation speed.

CONCLUSION

The performed tests show that the use of synthetic fillers is not a universal answer to aging requirements. There is a difference between synthetic grades based on purity, which can be a borderline between a nice and unacceptable performance. The purity of natural brucite EcoPiren® proved enough to withstand tough aging tests on the same level or better than the purest synthetic fillers on the market, with slight to no sacrifice of mechanical performance.

RB



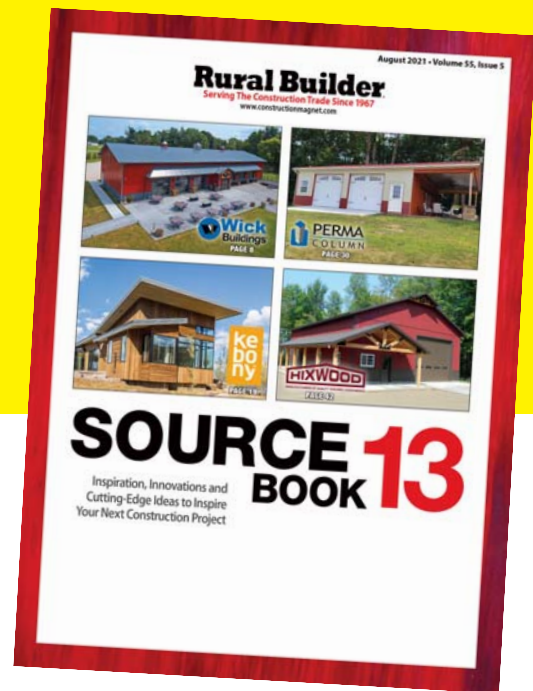
Picture 1: Original mechanical properties

■ Tensile strength

■ Elongation at break

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calendar

BY RURAL BUILDER STAFF

Before making travel arrangements, check with the show producer to confirm there have been no changes to event dates, venue, or show hours.

OCTOBER

4-8, Building Component Manufacturers Conference, CHI Health Center, Omaha, Nebraska. <https://bcmcshow.com/>

6-8, METALCON, Tampa Convention Center, Tampa, Florida. www.metalcon.com

NOVEMBER

4-5, Garage, Shed & Carport Builder Show, Century Center, South Bend, Indiana. 715-252-6360; <https://garageshedcarportbuilder.com/2021-gsc-builder-show/>

16-18, DeckExpo, Kay Bailey Hutchison – Dallas Convention Center, Dallas, Texas. <https://www.poolspapatio.com/en/deckexpo.html>

16-18, International Pool / Spa / Patio Expo 2021, Kay Bailey Hutchison-Dallas Convention Center, Dallas, Texas. www.poolspapatio.com/en/home.html

DECEMBER

6-8, Construction SuperConference, J.W. Marriott Bonnett Creek, Orlando, Florida. constructionsuperconference.com

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Leadership Conference, Glacier Canyon Conference Center, Wisconsin Dells, Wisconsin. www.nlassn.org/page/LeadershipCon, 888-544-6822

18-20, Frame Building Expo, Gaylord Opryland Resort & Convention Center, Nashville, Tennessee. nfba.org

FEBRUARY

1-2, NLA Expo Nebraska, Embassy

Suites Hotel & Conference Center, LaVista, Nebraska. www.nlassn.org/page/expos, 888-544-6822

1-3, International Roofing Expo, New Orleans, Louisiana. theroofingexpo.com



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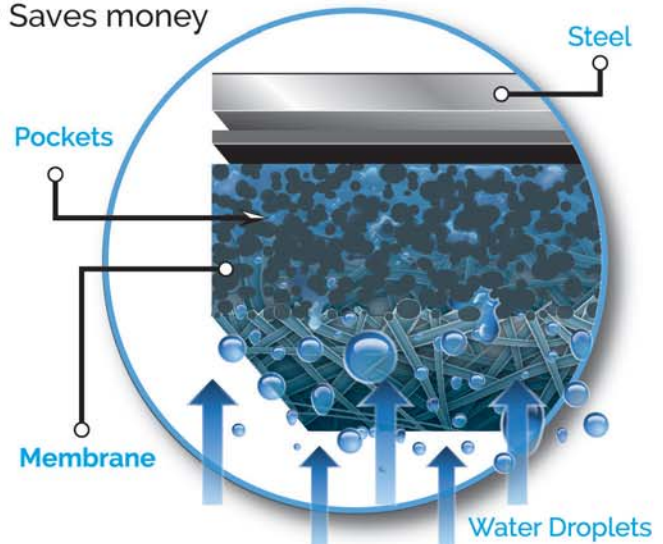
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METALCON

Returns to Tampa

Producer Announces Keynote Speakers, Highlights, Major Sponsors



The Tampa Convention Center will host METALCON 2021 from October 6-8, 2021.

METALCON, the only global event dedicated exclusively to the application of metal in design and construction, announces its program line-up for this year's annual conference and trade show, which takes place at the Tampa Convention Center from Wednesday, Oct. 6-Friday, Oct. 8.

From intensive pre-show workshops to more than 40 free educational sessions located inside the exhibit hall to inspiring keynotes and Super Sessions, top industry experts will share their knowledge with attendees who are eligible to earn more continuing education credits than ever before, including AIA, CSI, NAB-CEP and ICC learning units among others.

"We are extremely grateful to our 2021 sponsors, without them the show would not be possible: Mill Steel Company (platinum

METALCON 2021 OCTOBER 6-8 TAMPA CONVENTION CENTER

333 S. Franklin St., Tampa, FL 33602
Produced by PSMJ Resources, Inc.

level), Sherwin-Williams (gold level), CIDAN Machinery Inc., and Flack Global Metals (silver level) along with long-time partner, the Metal Construction Association," said METALCON Show Director, Judy Geller.

KEYNOTE SPEAKERS

Keynote speakers for this year's show include Keith Colburn star of the Discovery Channel's hit show *Deadliest Catch* and captain of the Alaska king crab fishing boat, *Wizard* along with Ken Simonson, chief economist of the Associated General Contractors of America.

On Wednesday, October 6 at 10 a.m., Colburn will share his insights on leadership, teamwork, safety and being successful in



On Wednesday, October 6, Keith Colburn, captain of the 155-foot *Wizard*, one of the fishing vessels featured on the *Deadliest Catch* television series, will give the presentation, *Words of Advice from the Captain of the Wizard: It's Not Magic, It's Hard Work!*



S-51 founder Rob Haddock will present the popular “Metal Roofing 101” course at METALCON 2021.

UNLESS OTHERWISE INDICATED, PHOTOS COURTESY OF PSMJ RESOURCES, INC.



On Thursday, October 7, Ken Simonson, who has more than 40 years of experience analyzing, advocating, and communicating about economic and tax issues, will present the talk, U.S. Construction Outlook: Pandemic Impacts, Policy Initiatives, Project Implications.

today’s hyper-competitive business environment by providing parallels between his life as a captain and the high stress, highly competitive construction industry in *Words of Advice from the Captain of the Wizard: It’s Not Magic, It’s Hard Work!*

Then, on Thursday at 10 a.m., Simonson who has more than 40 years of experience analyzing, advocating and communicating about economic and tax issues will present the *U.S. Construction Outlook: Pandemic Impacts, Policy Initiatives, Project Implications*. Simonson serves as liaison to the Census Bureau’s Construction Data Modernization Working Group. He is a Fellow and past president of the National Association for Business Economics, and co-director of the Tax Economists Forum, which he co-founded.

A variety of special focus areas are planned, including:

THE ARCHITECT’S EXPERIENCE

Featuring a series of events over two days focused on the use of metal as a design and construction component, this new “show-within-a-show” is for architects, designers, specifiers and engi-



The new Architect’s Experience component of METALCON 2021 focuses on the use of metal as a design and construction component. PHOTO COURTESY OF BRENNAN PHOTO VIDEO



Acclaimed architect Yann Weymouth will present a keynote presentation for the Architect’s Experience, which will inspire architects, designers, specifiers and engineers.

neers to breathe new life into projects and solve a wide variety of architectural, structural, environmental and building performance challenges — all through the use of metal. Also offered is an optional off-site tour of the Salvador Dalí Museum and a special keynote presentation by acclaimed architect Yann Weymouth.

THE INSULATED METAL PANEL PAVILION

For the first time ever, at METALCON, the IMP Alliance (leading manufacturers, material suppliers, and resellers) brings together the six major independent brands of leading insulated metal wall and roof panels that produce 85%-90% of all IMPs shipped in the U.S. and Canada, all in one location: ATAS International, Inc.; All Weather Insulated Panels; CENTRIA; GreenSpan Profiles; Metl-Span; and True Core Insulated Panels.

Each will display their newest products and visual illustrations of various projects while offering on-site product and technical guidance. Understand why IMP roof panels are being described as “tomorrow’s roof panels today.”



METALCON offers plenty of social networking opportunities. Oktoberfest returns for the 2021 show.

THE NEW SOLAR CENTER

Business owners, designers, contractors, EPCs, solar developers and installers discover how solar can expand their businesses in a variety of educational sessions and live demonstrations in the solar center sponsored by S-5! Don't forget to sign up for the METALCON Solar Trivia Games!

Additional Learning Centers offer five 45-minute sessions from 11:30 a.m.-5 p.m. on Wednesday and Thursday, and from 10:15 a.m.-1 p.m. on Friday. Sessions include the **Business Development Learning Center** that covers best practices and need-to-know information to take your business to the next level. And it includes the **Technical Know-How Learning Center** that offers the latest construction technology products and solutions.

SUPER SESSIONS

Also, new this year is METALCON's Super Sessions to address some of the major issues facing the construction industry today. Whether it's post-COVID strategic planning, the ownership transition process, materials, supply chain and labor woes, or growth opportunities to consider, each Super Session will arm attendees with new information, fresh ideas, and strategic direction.



Sponsored by S-5, the new Solar Center is the place where attendees will discover how solar can expand their businesses through educational sessions and live demonstrations.

Super Sessions include:

- Find Your Focus for 2022 & Beat the Competition.
- Creating an Exit Strategy: How to Successfully Transition



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- 304SS Cap & EPDM washer combination provides lifetime protection for your metal roof. WOODZIP SCAMP includes a 304 SS/EPDM bonded washer for enhanced strip out prevention in light density wood.
- WOODZIP HI-LO Type 17 thread design is larger than traditional #12 diameter. It is designed for maximum strip out in OSB & other light density wood.
- #12 WOODZIP is an excellent choice for new construction or replacement of #9/#10 fasteners that have loosened.
- 5/16" HWH provides exceptional pullover strength versus a traditional 1/4" HWH on metal to wood screws.



MIAMI-DADE COUNTY LISTED



- STEELZIP self-drilling point is designed to drill 10-16 gauge steel purlins consistently with no "point walking". The 1/4" diameter stitch screw securely fastens 26 gauge side laps & other light gauge trim.
- DMG85 corrosion resistant coating over zinc plating provides additional protection on fastener shank. Meets Dade County, FL requirements for corrosion protection. Both parts are ideal for coastal high corrosion areas & are available in many powder coated colors for additional protection.

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METALCON was last held in Tampa, Florida, in 2015, when it marked its 25th anniversary. PHOTO BY MCOBAT PHOTOGRAPHY

Ownership and Leadership.

- Disrupting Construction – Trends in Modular Building & Shipping Container-Based Structures.
- Stop the Insanity: Why Construction Needs Workforce Diversity.
- Federal Update – Solar Trade & Manufacturing.
- Perspectives: What Contractors & Architects Wish the Other Understood About Their Process.
- The Roaring '20s Are Here! METALCON Live!... LIVE at METALCON!
- How to Recruit & Retain Women in Construction.
- Using Technology Automation to Work Smarter.
- Metal Architecture Design Awards Seminar.

METALCON continues to offer in-depth workshops, which take place on Tuesday, Wednesday, and Thursday and aim to provide cutting-edge education and training.

METALCON GIVES BACK

Each year, METALCON gives back to the local community where the show takes place. METALCON is partnering with Feeding Tampa Bay for this year's giving back program, which will raise money to help provide food to more than 1 million families in the 10-county area of West Central Florida.

"We couldn't be more excited to bring METALCON back to you for the first time in two years," said Geller. "Like many, we took advantage of the 'year of the pivot' and reached out to those who we serve – past and present – to map out the next chapter for an event that humbly began 31 years ago. The result is METALCON 2021, packed with opportunities to connect and to share ideas, solutions and information, along with the education you need to take your business to new heights — all in the beautiful



Each year, METALCON gives back to the local community where the show takes place. This year, Feeding Tampa Bay will be the beneficiary of the giving back program. UNLESS OTHERWISE INDICATED, PHOTOS COURTESY OF PSMJ RESOURCES, INC.

city of Tampa, Florida."

ABOUT METALCON

METALCON is the largest international event in the metal construction and design industry. Established in 1991, it's the only annual trade show and conference devoted exclusively to the application of metal in design and construction. Contractors, architects, developers, owners, fabricators, manufacturers and suppliers from more than 50 countries attend each year. Industry experts from 200 leading companies exhibit the latest products, solutions and game-changing technologies, while sharing their knowledge with attendees. METALCON'S success is based on a dynamic exhibit hall, extensive educational programs and interactive learning opportunities. **RB**

Plan Your Visit

Make sure to visit these exhibitors in Tampa at METALCON 2021



THE BRADBURY GROUP

Bradbury Group, The
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The Bradbury Group provides roll forming, cut-to-length, leveling, automated production systems, insulated panel equipment, metal tile roofing systems, and controls for entry-level operations up to full-scale facilities. Our machines and systems are known for their reliability, high productivity, and scrap reduction. Our product lines offer a variety of roll formers designed for fast tooling and section changes including panel, purlin, trim, steel framing and portable roll formers, roll-forming tools and dies, advanced hydraulic levelers with e-Drive™ technology, cut-to-length lines, high-speed presses and shears, hydraulic punch and cutoff systems, insulated panel and mineral wool systems, embossing and calendaring equipment, metal tile roofing systems, and automation controls. Bradbury's roster of trim shop equipment includes hydraulic long folders, Panther Cub II™ Slitter/Shears, uncoilers and recoilers, stand-alone sheet slitters, coil tipper, gutter machines and hemmers.



Building Products Development (BPD)
Booth 514

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866.766.3254
574-722-5543 (fax)
sales@wegotclips.com
www.wegotclips.com

Building Products Development (BPD), a Logan Stampings company, specializes in designing, manufacturing and testing a wide variety of clips that outperform others in the industry to accommodate the needs of its customers. The company's accomplishments include the development of standing seam clips with exceptional performance that can easily be adapted to fit almost any standing seam profile.



Direct Metals Inc.
Booth 315

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Fort Myers, FL 33905
855.800.8878
orders@directmetalsinc.com
www.directmetalsinc.com

Direct Metals Inc. supplies long-life warranted fasteners, foam and vented

closure products, pipe flashings for metal and shingle roofs, Pan-Clip pancake and wafer head screws and panel clips, painted rivets, butyl mastic, reflective foil insulation and polycarbonate roof and sidewall panels to the exposed fastener and standing seam metal roof industries. Corrosion resistance and fastener drill performance drives the desire for excellence. Product is shipped from two distribution centers: Fort Myers, Florida and Plymouth, Indiana.



Dr!pstop/File USA
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For over 20 years Dr!pStop has been the best way of dealing with condensation on non-insulated metal roofs in a simpler, more economical way. It has been tried and tested in every climate condition all across the globe. The membrane will absorb the water caused by condensation, thus preventing dripping from the roof. The material serves as an added layer of protection for the metal in corrosive environments while also improving acoustic proper- ties inside the building. Dr!pStop is factory applied during the panel production process and shows up on the job site already installed on the panels. Steel Shield is designed to protect roofing panels against abrasion.

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Dynamic Fastener

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Dynamic Fastener offers same-day shipping of screws, painted rivets, anchors, flashings, safety equipment, hand tools and power tools. In-house custom painting of screws and rivets, with one or two-day lead time. Dyna-Guard snow retention system for metal roofs. Dyna-Clamps are available to accommodate many different profiles of standing seam roofs. The company's free, 140 page, full color, tool and fastener handguide provides engineering data, details product offering and pricing. Locations: Kansas City, MO (Main office), Chicago, Houston, Las Vegas, Memphis, St. Louis, St. Paul.



GSSI Sealants Inc.

Booth 1219

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Houston, TX 77055
832.778.6400

miguel@gssisealants.com
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GSSI Sealants, Inc. is a manufacturer of premier elastomeric butyl rubber sealants. GSSI has produced tapes for the metal building industry as well as other commercial applications for over 30 years. Our tapes are well regarded for their excellent tack and strength. Our MB10A tape is a standard in the industry and is available in all common sizes. Custom size production is also available. We hope you will consider our tapes for your next job.

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Malco Products, SBC, based in Annandale, Minnesota, manufactures "tools of the trade" for professionals engaged in exterior remodeling (roofing, siding, and gutters). These specialized tools are built to last, rigorously tested, and backed by a limited lifetime warranty. Malco is proud to be employee-owned and a Specific Benefit Corporation in the state of Minnesota, a legal designation that indicates that a specific social benefit — employee ownership — is the primary driver of Malco's business decisions.

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For over 23 years, Reed's Metals, has been an award winning and industry leading provider of metal roofing and panels systems, post frame, tube buildings and pre-engineered steel buildings. At Reed's Metals we've got what you need. Come visit booth #1241 at METALCON and ask about our new purlin mill or request a free quote for your next metal roofing or metal building project. For a complete list of our product offerings and services visit www.reedsmetals.com or call 1-800-581-4645. #reedsmetals



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As one of the original exhibitors in 1980, and every show since, S-5!® is happy to be part of METALCON once again! Since 1992, S-5! has been the leading authority on metal roof attachment solutions. S-5!'s zero-penetration

clamps attach ancillary items to standing seam and exposed-fastened metal roofs, while maintaining roof integrity and warranties.

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■ DYNAMIC FASTENER TWO-PIECE CLAMPS

Dynamic Fastener introduces our new two-piece clamps, the DC-TS2 and DC-ZR2. Mini versions of these two clamps are also in stock. Two-piece clamps are designed so that the insert can be removed prior to installation allowing the clamp to be fitted at virtually any location on the roof panel seam. That feature eliminates the need for the installer to slide the clamp up the seam from the eave to the required clamp location. These clamps are designed to be used on panels such as Centria SRS3 (See DC-TS2) and Merchant & Evans Zip Rib (See DC-ZR2).



■ S-5! WINDCLAMP2X

S-5! expanded its WindClamps™ line, with the addition of the new WindClamp2X. The design of WindClamp™ products increases wind resistance for standing seam and other concealed-fastened metal roofs.

The new WindClamp2X are small aluminum clamps placed over the roof's seam at designated intervals to prevent male-to-female seam separation and/or seam separation from the roof's mounting clip. Attaching these highly-tested clamps to a roof's seams have proven to dramatically improve wind uplift performance and increase strength by more than

200%. WindClamps increase – and often double – wind resistance, preventing various forms of failure, including seam separation and clip disengagement when used at roof clip locations. It is a solution to preserving rooftops in some geographic regions and/or “zones” with an increased probability of extreme wind uplift conditions.



■ DMI SCAMP 304 STAINLESS STEEL FASTENER

As painted metal roofing systems continue to improve in quality and longevity, it is important for the fasteners that are installed on these roofs to match the warranties of the panels and “complete the roof system”. The DMI #12 diameter SCAMP 304 Stainless Steel cap metal to wood screw and self-drill for all steel applications accomplishes this objective. Assembled with a 304 Stainless Steel Bonded sealing washer and the shank coated with DMG85 corrosion coating, this fastener will match the paint warranties on all metal panels.

It is available with high quality powder coating to match most panel manufacturers and meets the rigid requirements set by Dade County to be listed as an acceptable choice for high corrosion coastal areas. The #12 SCAMP metal to wood can be used on new construction or can double as a replacement fastener for #10 diameter screws that have backed out.



■ FISHER HAND TOOLS CAULK GUN

The Fisher Hand Tools™ caulk gun is the newest product offering from Levi's Building Components. Quickly handle caulking jobs with ease thanks to its variety of carefully thought-out features, created and tested by industry experts. The powder-coated 360° rotary steel riveted carriage has a dripless design and is equipped with a built-in puncture tool and easy-to-use-squeeze grip. With each trigger pull, a 12:1 thrust ratio is applied to the tube piston, allowing thicker caulk to move through the gun faster.



■ ASC MACHINE: NEW TKR-X LINE

ASC's innovative design of the all-new TKR-X™ Roll-former offers a high level of flexibility in the purlin market.

The TKR-X™ Modular Punch Press uses a combination of 4-Post and CEE-frame die sets to guarantee highest throughput speeds. All servo-adjustable Cee-frames automatically move in and out to position the punch in the desired location on the web.

The new modular construc-

tion system of the TKR-X™ Roll-former makes it possible to add 3 levels of automation:

- 1) Auto Assist: Auto change over C/Z and web and flange
- 2) Auto Gauge: Auto set up drive rolls and fixtures
- 3) Full Auto: Auto fixture and eave strut set up

The valuable eave strut feature (up to 5:12 pitch) is now included on all TKR-X™ Roll-former units. ASC customers can also expand their product portfolio and enter new markets by adding the new S-WEB (min 3") and XL-WEB (max 24") option. In addition, we also offer fully automated coil handling systems, coil conditioning units, live video monitoring, EWON remote support, and much more.



■ NEW SCHWEISS DOORS PHONE APP

Schweiss SMART Doors allows customers to remotely connect to their buildings or hangars inside and out, regardless of location, using a Smartphone cellphone app.

The newly marketed Schweiss SMART Door app allows opening or closing a new or existing Schweiss Bifold or Hydraulic Door and is also compatible for use on other manufacturers' doors.

Utilizing 4G inside and outside camera links it can be used to adjust temperature, view security footage and turn on engine/cabin pre-heat. You can control what is going on in and outside your building 24/7. **RB**

View of the Tampa Convention Center, located in downtown Tampa.



TAKING IN TAMPA

There is a multitude of options to enjoy great food and beverages, excitement and adventure, and even relaxation while in Tampa. So, plan today to enjoy the most of this METALCON 2021 host city.



Marine life is an abundant element of the Sunshine State, and equally plentiful are aquariums and related facilities perfect for visitors of every age.



With a variety of community neighborhoods and cultures, the dining options in Tampa are well-known for diverse and delicious treats. PHOTO BY KEIR MAGOULAS, VISIT TAMPA BAY



With dozens of golf courses in the Tampa Bay area, spending time on picturesque greens, like those of Streamsong Resort pictured here, is a grand idea. PHOTO COURTESY VISIT TAMPA BAY



The coastal city of Tampa provides a wide variety of opportunities to enjoy waterfront activities, both adventurous and relaxing. PHOTO OF CANOE ESCAPE, BY KEIR MAGOULAS, VISIT TAMPA BAY

ART & CULTURE

With a rich mix of cultures and traditions, Tampa offers an eclectic selection of locations devoted to artistry, living history, and a celebration of community.

- The Dali Museum (off-site tour destination of METALCON's Architect's Experience)
- Tampa Museum of Art (including Art on the House – free admission from 4 p.m. – 8 p.m. on Thursdays)
- Florida Museum of Photographic Arts
- Tampa Bay History Center
- American Victory Ship Mariners Museum
- Florida Air Museum
- The Ringling (enjoy a robust review of art and circus history)
- Museum of Science & Industry (MOSI)

SPORTS & RECREATION

In addition to being home to the NFL Champion Tampa Bay Buccaneers, Tampa lays claim to professional baseball, soccer, and hockey teams, miles of beaches, and golf courses galore.

- Nearly a dozen golf courses
- Laser OPS Extreme Gaming Arcade
- Pirate Water Taxi
- Axe Throwing Tampa
- Archibald Beach Park
- Canoe Escape
- Charter fishing

NATURE & ADVENTURE

The bounty of coastal scenery in Tampa is second-to-none. The area showcases a variety of destinations highlighting science and nature. In addition, opportunities to enjoy adventures and thrill-seeking experiences are also plentiful.

- Busch Gardens Tampa (including Busch Gardens Bier Fest – Fridays, Saturdays, and Sundays during October)
- Zip lining (Empower Adventures Tampa Bay — with a stunning view of Tampa Bay)
- Clearwater Marine Aquarium
- Bok Tower Gardens
- Safari Wilderness Ranch
- Big Cat Rescue
- Adventure Island (30-acre waterpark)
- The Dinner Detective (Mystery dinner show, Oct. 7)

DRINKS & DINING

With METAL CON taking place at the Tampa Convention Center, located at the mouth of the Hillsborough River and in the heart of downtown Tampa, the options for delicious meals and choice beverages are abundant. Additionally, if craft beer makes your mouth water, there are nearly 60 breweries in and around Tampa.

Below are some of the establishments named “Best Of” in 2021 by TAMPA Magazine:

- Mission BBQ
- Cigar City Brewing
- Mama's Kitchen (Best Diner)
- Bern's Steak House
- Buddy Brew Coffee
- Noble Crust (Best Southern Restaurant)
- Hattricks (Best Pub)