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SOURCE BOOK 13

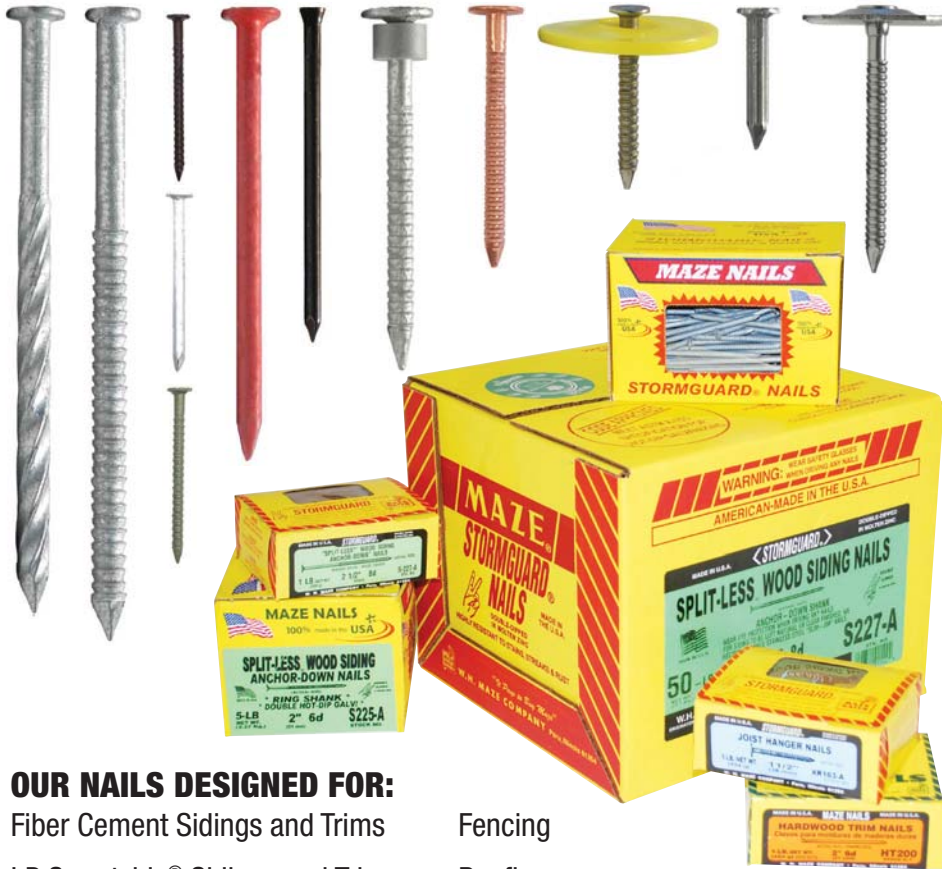
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editor's note

BY KAREN KNAPSTEIN

Parade of homes, sheds, garages ...

THIS YEAR'S SOURCE BOOK IS just a bit different than those you've seen in the past. You'll still see the diverse projects you've come to expect; herein you will find sheds, garages, post-frame homes, a winery, a distillery ... you'll even find a remarkable home restoration, in which a historic house was disassembled, moved, reassembled and painstakingly restored. I've grossly oversimplified the project; learn more about it beginning on page 20.

While I may have my favorite buildings in this issue, I'm not going to share my opinions or preferences with you. I don't want to take the chance of influencing *your* opinion one way or the other. You see, in the next edition of Rural Builder, you'll find a ballot that you can use to vote for your favorite Source Book project. Fill out your ballot and send it back to us. (You can also vote via email; email your favorite to karen@shieldwallmedia.com.) Once we've tallied all the votes, we'll publish the results and you can see if your tastes align with your peers. We'll also reach out to the builders of the top projects and, if those builders are willing to participate, we will profile their businesses right here in Rural Builder. Look for more details in the September edition.

What's different: In this edition, you'll find a select group of Product Profiles. These are just some of the tried and true products that low-rise builders like you use. (Of course, you'll find many, many more product profiles in the October Buyers' Guide edition.)

Looking ahead to the September edition, we'll be diving in to METALCON 2021! It feels wonderful getting back out to attend trade shows. There's just no substitute for meeting face-to-face with manufacturers and builders. The folks over at METALCON have been planning quite the affair. In addition to the exhibitor profiles (including complete contact information), we'll be sharing the new and special events and features that you'll find at the Tampa Convention Center October 6-8. We'll also offer some family-friendly suggestions so you can make the most of your October visit to the Sunshine State.

Until next time — be well.

Karen

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SOURCE BOOK 13



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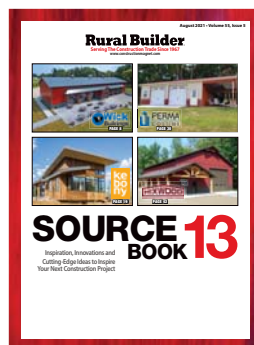
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ON THE COVER:

Clockwise from
top left: Winery by
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Hobby Shop by
Perma-Column;
Multi-Purpose
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Metal; Residence
by Kebony North
America.



e-mail the editor at
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CONCRETE COMMODITY STORAGE



SUKUP MANUFACTURING CO.

www.sukup.com

LOCATION:

Charles City, Iowa

SIZE:

86,250 sq. ft., 2 buildings

CONTRACTORS:

Croell Redi-Mix

BUILDING PRODUCT:

Pre-engineered Steel Building,
Sukup Manufacturing Co.

ROOF AND WALL PANELS:

Roof: Sukup SA-16, 2" Architectural Standing Seam Roof System, 24 ga., Bright Red
Wall: Sukup MSP, 26 ga. Shadow Rib through-fastened wall system, Saddle Tan

This is a new building on an existing Croell Redi-Mix location. On this location they have an already existing operational concrete mixing plant and shop building. The new building is a concrete commodity storage building. The storage area alone is 80,000 square feet and can house 87,000 tons of cement.





Sukup Manufacturing Co. Headquarters - Sheffield, Iowa



Sydenstricker Nobbe Partners Implement - Chillicothe, MO



Ames Municipal Hangar - Ames, Iowa



West Fork Recreation Center - Sheffield, Iowa



Patterson Farms Grain Center - Fillmore, Missouri



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WINERY



WICK BUILDINGS

www.wickbuildings.com

LOCATION:

Jacksonville, Illinois

SIZE:

40' x 120' x 17'
interior clear height

BUILDING MANUFACTURER:

Wick Buildings

BUILDER:

Kevin Miller, Custom Structures, Inc.

WALL PANEL:

Wick Steel, 29 ga., G-90, Red

WAINSCOT & ROOF PANEL:

Wick Steel, 29 ga., G-90,
Charcoal Gray

DOORS:

Service doors: Plyco Corp.
Overhead doors: Haas Door

CUPOLAS:

MWI Components (2) 36" louvered
vented cupolas; (1) 48" window
cupola

INSULATION:

Ceiling: Blown fiberglass
Walls: Fiberglass blanket

VENTILATION:

24" vented overhangs
Flo-Thru Ridge Vent

FASTENERS:

SFS Woodgrip color-matched screws
Maze Nails

OTHER:

Concrete-attached columns
Decorative bale doors
4' canopy over overhead doors
Gable foyer entry
Perforated steel ceiling panel for
sound abatement
Tyvek Infiltration Barrier on walls

The Waters Edge Winery & Bistro was built in Jacksonville, Illinois as a destination location for both quality wine and events. The owners needed a space that could accommodate both production of wine and guests in a warm and friendly setting, without the space feeling like a large warehouse. Kevin Miller of Custom Structures, Inc. [www.custom-structures-inc.com], an experienced Wick Builder with more than 25 years of experience, took the customer's needs and was able to translate them into two buildings that can serve a number of uses. The main building is the winery and bistro with indoor/outdoor seating. A slightly smaller building, the "Wine Barn," is set up as an event center and frequently hosts weddings.

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RESIDENTIAL 'RE-SKIN'



GRABER POST BUILDINGS

www.graberpost.com

LOCATION:

Southern Indiana

SIZE:

2,228 sq. ft.

BUILDER:

Graber Post Buildings

ROOF:

Graber Post 26 ga. 16" Standing Seam AZ55 Galvalume

WALLS:

Graber Post 26 ga. 10" Board & Batten, White

FASTENERS:

ST Fastening Systems



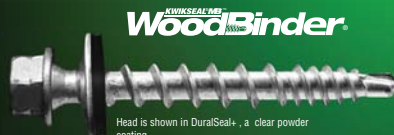
Constructed in 2000, this single story ranch style home was beginning to show some wear. The original asphalt shingles and vinyl siding were well past their service life, which gave the owners the opportunity to upgrade to more durable materials. Graber Post Buildings had the solution with their new 10" coverage 26 ga. metal Board and Batten siding and their 26 ga. 16" coverage Standing Seam metal roofing.





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MULTI-PURPOSE GARAGE



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www.coversconstruction.com

LOCATION:
Granger, Iowa

SIZE:
56' x 72'

ARCHITECT:
Midwest Manufacturing

CONTRACTORS:
Cover's Construction LLC,
Dallas Center, Iowa

BUILDING SYSTEM:
Midwest Manufacturing

ROOF AND WALL PANELS:
Roof: Prosnap Standing Seam
Wall: SmartSiding

INSULATION:
Spray foam

WINDOWS:
Jeld-Wen Windows

Our customer wanted a modern farmhouse/barn style to use as a garage for their car collection as well as a place to entertain friends and family. They wanted an open concept with lots of natural light.



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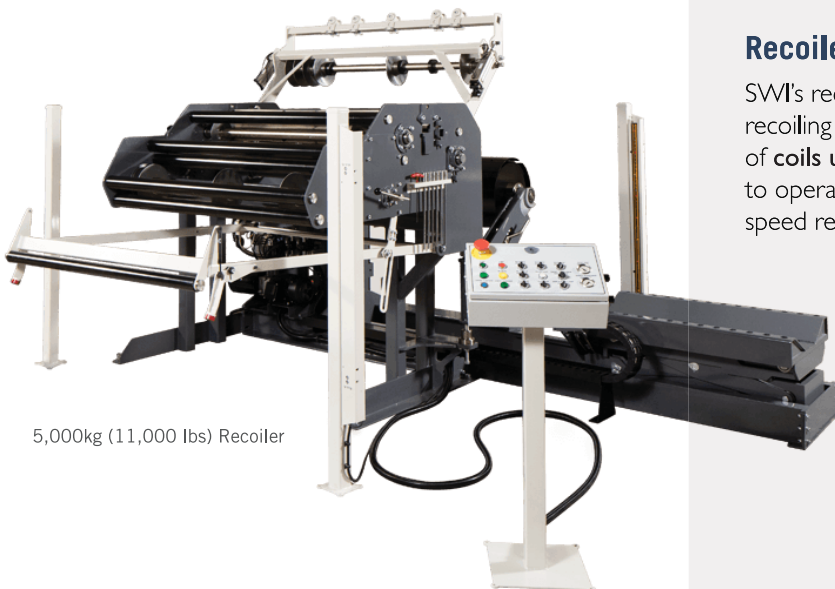
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DISTILLERY



METALLIC BUILDING SYSTEMS

www.metallic.com

LOCATION:

North Charleston, South Carolina

SIZE: 19,000 sq. ft.

BUILDING SYSTEM:

Metallic Building Systems

BUILDER:

Trident Construction

ROOF AND WALL PANELS:

Roof: MBS SuperLok®, Galvalume Plus®

Wall: MBS PBC Panel, Charcoal Gray

WINDOWS:

YKK, Model YHS-50TU, 2 1/2' x 5'

OVERHEAD DOORS:

Acme Doors

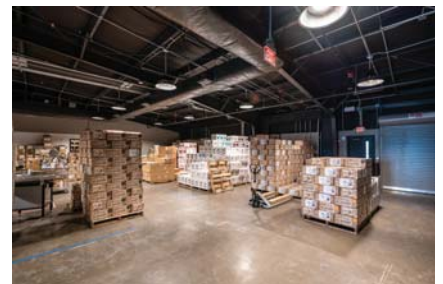
FANS: Swifter

After years of growth, Firefly Spirits, Charleston's oldest working distillery – best known for producing the world's first sweet tea flavored vodka – had outgrown their original distillery and tasting room.

Now a nationally recognized brand with more than 25 spirits distributed in all 50 U.S. states, Firefly founders Jim Irvin and Scott Newitt decided to move their operation to North Charleston and sought a builder who could replicate the small, quaint feel of their original distillery on a larger scale using stronger materials.

"When Firefly first came to us, their architect had drawn up plans for a conventionally built structure," said Todd Bulwinkle, vice president at Trident Construction. "But we knew a metal building would be faster, more cost efficient and, with Charleston situated in a hurricane-prone area, steel would provide the strength needed to endure high-storm conditions."

"We used 12 different metal building structures and put them together to create an old horse-barn look," said sales rep Jay Murphy. "And to top it all off, the grand entrance looks identical to the original distillery, 30 miles away in Wadmalaw Island."



RESIDENCE & WORKSHOP



CHIEF BUILDINGS

www.chiefbuildings.com

LOCATION:

Merino, Colorado

SIZE:

11,200 sq. ft.

ARCHITECT:

Buildings By Design

CONTRACTORS:

Sierra Steel

BUILDING SYSTEM:

Chief Buildings

ROOF AND WALL PANELS:

Roof: Chief STC

Wall: Chief AP

INSULATION:

High "R" liner system

OTHER:

Wrap-around porch roof panels:

Chief CS

Cottonwood Creek Farms, a family owned non-GMO poultry, pork and beef producer utilizing sustainable farming techniques. Project is a 2-story residential building with attached garage and work shop. Wrap-around porch is wood framed and embellished with gabled projections, hips & valleys, and includes panels and trim to match the main structure.



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RESIDENCE



KEBONY NORTH AMERICA

www.kebony.us

LOCATION:

Animas Valley, New Mexico

BUILDING SIZE:

3,590 sq. ft. (livable)

ARCHITECT:

Jim Rothwell

ROOF PANELS:

Metal Sales Magna-Loc flat pan standing seam

ROOF UNDERLAYMENT:

Metal Sales ms-HT SBS modified bitumen self adhesive

SIDING:

Kebony Clear Tongue & Groove Cladding

DOORS:

Interior: TruStile, painted

Exterior: Kolbe Vistaluxe, aluminum clad, painted wood interior

WINDOWS:

Kolbe Vistaluxe, aluminum clad, painted wood interior

MILLWORK:

Delta Millworks

VENTILATION:

Multi-zone Hydronic in-floor heat w/ insta-hot boiler and sidearm storage

INSULATION:

Cellulose blown in: R-49 roof; R-22 walls; R-38 floors over crawl space.
Dox XPS rigid polystyrene under slabs on grade, R-10

PHOTOGRAPHY:

Marona Photography

OTHER:

Rain screen system: Zip-sheathing and Core-a-vent flow management system

A custom modern home sitting atop a bluff overlooking New Mexico's 85-mile-long Animas Valley recently completed construction, according to architect Jim Rothwell, who designed the project.

"After taking the time to understand and appreciate the power of the views, the clients decided on a strong yet simple form for the massing," Rothwell said. "Which was essentially a direct response to the views, all coupled with a site-driven expression of natural materials."

Kebony was specifically chosen for its natural wood texture and rich brown color that will naturally develop a silver-grey patina, minimizing maintenance without further use of finish treatment.

"The idea was strength in form, calm in approach, and natural in finish," Rothwell said.

HISTORIC HOME RESTORATION



CERTAINTEED

www.certainteed.com

LOCATION:
Cape May, New Jersey

SIZE:
3,559 sq. ft.

BUILDER:
Paul Burgin Builders

SUPPLIER:
Universal Supply, Cape May

SIDING:
CertainTeed: Cedar Impressions Staggered Perfection (Snow), Cedar Impressions Scallop, Half Cove and Octagon (Snow), Cedar Impressions T5 Sawmill (Snow)

INTERIOR PAINT:
Benjamin Moore Chantilly Lace

For decades, the “Avalon House” was a fixture of the coastal community of Avalon, New Jersey. The impressive, three-story Queen Anne-style home—built in 1895 by Avalon’s first tax assessor George W. Kates to serve as his summer cottage—currently sits on a plot 20 miles away in neighboring town of Cape May. In 2017 the property was sold to a developer who planned to raze the historic property to make way for a two-story, single family home with a swimming pool. After a long and unsuccessful effort to preserve the home in the city of Avalon, the Scharnikow family that had owned the home from the mid-1950s to the mid-1990s utilized a quitclaim deed to buy back the home for \$1. The one stipulation was that the home would be physically moved to another location.

The Avalon House was disassembled and moved north to a muddy storage yard in Egg Harbor Township, where the home sat in pieces for more than a year while the Scharnikow family obtained the permits to physically transport the home

40 miles down the Jersey Shore to a plot they secured in Cape May. The home had survived two lightning strikes, numerous nor’easters, and the Great Atlantic Storm of March 1962, but sitting in the mud without a foundation for more than a year took its toll on the home’s flooring, exterior, and structural elements. By the time the home reached its final destination to Cape May to local fanfare, much of the home was in need of a serious facelift.

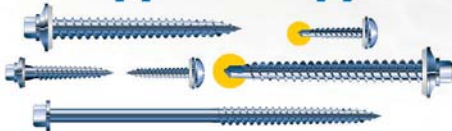
The Scharnikow family wanted to retain original circa 1895 appearance of the house while making it comfortable and functional for 21st-century living. According to homeowner Adrienne Scharnikow, blending the old and new required a lot of work and attention to detail. Modern improvements included an addition doubling the home’s square footage from 1,820 to 3,559 square feet, converting the layout from a 3 bed/2 bath to a 6 bed/5 bath, bringing all of the plumbing and electrical up to code, and adding closet space.

At the same time, Scharnikow



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maintained or restored many of the original Victorian features, including much of the original wood flooring; classic light fixtures; black exterior scrollwork; decorative exterior corbels; interior molding with bullseye plinth blocks; a front porch with a pebble dash finish made of beach stones, shells and sea glass; an original claw foot tub; and the home's third story viewing tower (with two feet added for a better view of the coastline). Certain delicate items like original stained glass windows were removed from the house and re-installed after the move to Cape May.

One area that needed attention was the home's original mixed cedar shake siding. Much of it was soft or rotted. The city of Cape May takes historic preservation seriously and required siding materials that could replicate the appearance of a late Victorian era home. CertainTeed Impres-



sions polymer shingles were selected for their era-appropriate look and maintenance-free demeanor.

The Cape May Historic District is included in the U.S. National Register of Historic Places, so the town has high standards when it comes to restoring homes. The variety of Cedar Impressions shingle shapes allowed Burgin and his team to accurately replicate the Queen Anne style of the Avalon House with modern materials less susceptible to coastal moisture. Burgin utilized a combination staggered shingles on the front and older sides of the house; scallop, octagon, and half-cove shingles on the front, gable, and tower; and sawmill shingles on the majority of the addition, which was built onto the back of the home. In all, 54 squares of polymer siding were used to restore the Avalon House's original, off-white façade.

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- Rotate Center Post clockwise until desired height is reached
- Double check top plate for level and correct location
- Back fill with concrete mix covering the bottom 6" of Center Post
- Finish backfilling hole after concrete has set up
- Backfill in 12" lifts and tamp each lift
- Attach center guide bracket to top plate with 3/8 bolts
- Avoid driving on Center Post until concrete has completely cured

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CLIMATE-CONTROLLED SHOP



POPLER RIVER CONSTRUCTION LLP

www.poppleriverconstruction.com

LOCATION:

Colby, Wisconsin

SIZE:

60' x 100' x 16' w/ 8' x 16' + 16' x 8'
wrap-around porch

DESIGNER & BUILDER:

Popple River Construction LLP

ROOF AND WALL PANELS:

Roof & Walls: Everlast Roofing Inc.
Lynx panel, 28 ga., Charcoal

Wainscot: Everlast Roofing Inc., 28
ga. Lynx panel, Clay

Trim: Everlast Roofing Inc., 28 ga.,
Clay

WINDOWS:

Windgate vinyl slider windows in Tan

ENTRY DOORS:

30/68 Plyco Model 20, Hickory Moss

OVERHEAD DOORS:

Ideal Door w/ Ultra Grain Walnut
finish

INSULATION:

Spray foam walls, cellulose attic

VENTILATION:

Vented eave soffits in Clay and
ridgecap closures

FASTENERS:

ST Fastening Systems

OTHER:

Stained cedar porch posts

The customer needed a climate controlled shop for his trucking business and for additional personal storage space. The interior is finished with white metal liner panel. Woodgrain finish steel overhead doors complement the stained cedar porch posts. Stamped concrete was used for the porch floor. In-floor radiant heat keeps the building at a comfortable temperature during cold WI winters and also quickly dries up any snow melt from trucks that are parked inside overnight.



PLYCO

BARN WITH LEAN-TOS



REED'S METALS

www.reedsmetals.com

LOCATION:

Florida

SIZE:

Main Pole Barn: 24' x 40' x 10"

Lean Tos: 10' x 40' x 8'

ROOF AND WALL PANELS:

Main Pole Barn: 4:12 pitch

Roof: PBR Metal Roofing Panel, 26 ga., Galvalume, 25-yr. warranty

Wall: PBR Metal Siding Panel, 26 ga., AkzoNobel Coating, Barn Red, 45-yr. warranty

LEAN TO:

2:12 Pitch

Roof: PBR Metal Roofing Panel, 26 ga., Galvalume, 25-yr. warranty

MAIN POLE BARN PURLINS:

Red Oxide painted 6" ZEE purlins

TRUSSES:

Red Oxide painted trusses



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MULTI-PURPOSE SHOP



FRONTIER BUILDERS LLC

www.buildwithfrontier.com

LOCATION:

Bedford County, Pennsylvania

SIZE:

50' x 88' x 16' w/ 16' x 88' x 8' second floor; 8' x 22' x 8' hipped porch

ARCHITECT / DESIGNER:

Frontier Builders LLC

CONTRACTORS:

Frontier Builders LLC

ROOF AND WALL PANELS:

Roof: Fabral Grandrib 3 Plus with CondenStop; **Walls & Interior Liner Panel:** Fabral Grandrib 3

DOORS:

Overhead: CHI Overhead Door, (3) 14' x 14', Model #5283
Walk: (3) ThermaTru, 36"
Attic Access: AJ Manufacturing, 2' x 4'

WINDOWS:

(7) PlyGem ProSeries 3' x 6',
(4) PlyGem ProSeries 3' x 4'

VENTILATION

Marco Industries, LP2, vented ridge closures; 16" vented overhangs

CUPOLAS:

(2) 30" w/ fixed glass windows,
(1) 48" w/ fixed glass windows & weathervane

INSULATION

Ceiling: R-38 dry blown cellulose w/ 6 MIL vapor barrier
Walls: R-19 kraft faced fiberglass batt; DOW Gaps & Cracks spray foam

SNOW RETENTION

Snow Defender 4500

This 50' x 88' x 16' multi-use post frame project located in South Central Pennsylvania has many unique features. Designed to be a multi-use shop for excavation and racing equipment, the client also wanted to add a second floor attic space for a future living space. With over 5,800 sq. ft. of useable space, this turn-key project is a complete package.

OTHER:

Posts: RigidPly Rafters 4-ply 2"x8" GluLam posts w/ 4' "Y" bracing & 16" blocking

Headers: Quadruple 2"x12" SYP MSR Headers

Weather Barrier: Tyvek

Attic Subfloor: 3/4" AdvanTech

Shutters: Mid-America raised panel vinyl shutters

Gutters: Alcoa 6" seamless Aluminum w/ 4" downspouts

Porch Posts: Superior Plastic Products Post Sleeves



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MULTI-PURPOSE GARAGE



CEDAR VALLEY POST-FRAME LLC

www.cedarvalleypf.com

SIZE:
30' x 48'

DESIGNER & BUILDER:
Cedar Valley Post-Frame LLC

DESIGN SOFTWARE:
SmartBuild Systems

WINDOWS:
Wincore

ENTRY DOOR:
Plyco Series 92

GARAGE DOORS:
Palmerton Garage Door

ROOF AND WALL PANELS:
Everlast II Omni 27 ga. AZM125 w/
Colorbond paint

FASTENERS:
Everlast WoodBinder Screws

VENTILATION:
MWI Components Ultra X Ridge Vent

This 30' x 48' three car features 10' x 10' overhead doors, three 5' wide dormers and a 3' front overhang. Additional features include radiant floor heating, epoxy floor, ducted split system HVAC, an explosion proof fan and 14' wide attic space. The black and charcoal exterior features bronze windows, bronze entry door and bi-directional wood grain overhead doors. We isolated the garage from the attic space by insulating and finishing the stairwell and installing an entry door at the top of the stairs. Although unfinished, the builder ran the drain plumbing for a bathroom to be installed in the attic in the future.



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HOBBY SHOP



PERMA-COLUMN

www.permacolumn.com

LOCATION:

Auburn, Pennsylvania

SIZE:

28' x 48' x 10'

CONTRACTORS:

Original Pole Buildings, Bethel, Pennsylvania

ROOF AND WALL PANELS:

Roof: AB Martin Roofing
Wall: AB Martin Panel

INSULATION:

Fiberglass batt, R30 ceiling

VENTILATION:

Ridge cap, vented soffit

FASTENERS:

ABM Screws

SNOW GUARDS:

Snow Jacks

OTHER:

AB Martin Roofing Board-N-Batton Siding
Perma-Column precast columns



The customer requested both a hobby shop for storage plus an entertainment area which included the 28' x 12' open pavillion area. All columns including the stone wrapped pillars on outside pavillion were done with Perma-Column precast columns and 3-ply 2x6 glue lam posts to give it a "lifetime" foundation.



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HOME & SHOP



MPB BUILDERS

www.mpbuilders.com

LOCATION:
Lamartine, Wisconsin

SIZE:
50' x 56' shop; 42' x 52' living area; 8' x 52' wrap-around porch

BUILDING DESIGNER:
MPB Builders

ROOF AND WALL PANEL:
McElroy Metal

WINDOWS:
AJ Manufacturing, Harmony

WALK DOORS:
AJ Manufacturing

OVERHEAD DOOR:
CHI Overhead Doors

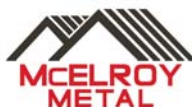
INSULATION:
Bay Insulation

FASTENERS:
Ideal Fasteners

This new facility was built for Ken Montsma of Lamartine, Wisconsin, who was looking for a building to act as a garage/shop and also to serve as his home.

The project includes a 50' x 56' insulated and lined shop area with 50' x 16' two story area, to house his office, restroom, laundry room, mechanical room as well as two spare bedrooms upstairs. The living quarters (42' x 52') has an open room concept with large dining and den area with large kitchen area along with a master bedroom and bathroom.

The living quarters portion has vaulted ceilings with car siding on walls and ceiling along with half log siding on exterior of walls to accent the wrap around porch (8' x 52'). "The owner is an avid hunter and he wanted a rustic cabin look that he could show off his animal mounts and be able to look out the large bay windows into the country side and enjoy the wildlife", explains project manager Doyle Pokorny. "This was a unique and fun project to be a part of."





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MULTI-PURPOSE SHOP



METAL DEPOTS

www.metaldepots.com

LOCATION:

Zachary, Louisiana

SIZE:

Home: 7,890 sq. ft.

Shop: 75' x 60'

ROOF AND WALL PANELS:

Home Roofing: Metal Depots Slimline® snap-lock concealed fastener panels;

Roof color: Coal Black

Porch roof:

PBR Panels in Charcoal

Porch wall: PBR Panels

Installer: KLM Erectors

OVERHEAD DOORS:

Overhead Door Co.

FASTENERS:

Metal Depots

Home builders have a tendency to live in several of the homes they build. At some point, all homeowners build the home they know will be their last move. Carl Blackwell, owner of KLM Erectors in Zachary, Louisiana, expects the home he moved into in July 2020 to be his final stop. So, the plan had to include a shop behind the house that features a kitchen, gym and game room.

Blackwell started building the home and shop in early 2020. The 7,890 sq. ft. home has 6,110 sq. ft. of living space, including a porch topped by 980 sq. ft. of Slimline® snap-lock concealed fastener panels. The roofing color is Coal Black to match the asphalt shingles on the rest of the home.

For the shop, Blackwell started with the “roof only” package and worked on selecting components, including wall materials, as he went along. The roofing is PBR Panels in Charcoal, approximately 4,500 sq. ft. The PBR exposed fastener panel covers 36” and has a rib height of 1-1/4”.

“The front of the shop is brick and the left side is 75’ of PBR Panels,” Blackwell says. “The other side is divided into three equal sections, a kitchen, game room and a gym, all facing the pool.”





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AUCTION GALLERY



SMARTBUILD SYSTEMS

www.smartbuildsystems.com

LOCATION:

Orleans, Indiana

SIZE:

81' x 148' x 16' w/ wrap-around porch

BUILDER:

Graber Post Buildings

DESIGN SOFTWARE:

SmartBuild Systems

ROOF & WALL PANELS:

Graber Post Buildings (GPB) G-Rib, 29 ga. Coating: 40-year AkzoNobel 1050: Dark Red, Shiny Black

OVERHEAD DOOR:

CHI Overhead Doors, insulated, w/ Liftmaster opener

RAIN & SNOW HANDLING:

GPB 6" seamless gutters (color matched). GPB Snow Block

CUPOLAS:

MWI Components: (1) 4x4 w/glass, (2) 3x3 w/louvers

FASTENERS:

ST Fastening Systems

POSTS:

GPB 3-ply 2x8 laminated columns



Robinson Auctions and Services contacted Graber Post Buildings with ideas of building structure that could be the main facility for all their auction needs as well as a facility that could be rented out for other events. This building has served its purpose well for birthday parties, family reunions and gatherings, holiday parties, meetings, and even wedding receptions. Graber Post took their sketches and was able to bring them to life!





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- Weathervanes



HOBBY SHOP



GREINER BUILDINGS

www.greinerbuildings.com

LOCATION:

Muscatine, Iowa

SIZE:

60' x 60' x 16'

BUILDER:

Greiner Buildings

ROOF AND WALL PANELS:

Central States Panel Loc Plus,
29 ga.

DOORS:

AJ Manufacturing, 7100 Series

WINDOWS:

AJ Manufacturing, Harmony EZ Fit

FASTENERS:

Maze Nails, Atlas Screws

FOUNDATION:

Embedded Post Saver-wrapped
columns with insulated frost wall

INSULATION:

Walls: Closed cell spray foam,
R-14;
Ceiling: Cellulose, R-38

VENTILATION:

MWI Components pre-cut vented
soffit

OTHER:

Posts: Rigidply glulam with
GreenPost

Trusses: Engineered Building
Design 60' clear span

Wainscot: Versetta Stone



This custom-designed post frame residential garage is used to store classic cars, house a workshop area, and features a cozy social space for family and friends to gather. At 3,600 square feet, this spacious building is lined and insulated, climate-controlled and includes a 3/4 restroom.

The customer chose a color scheme and exterior accents to match their nearby brick home. Other notable features include eye-catching Versetta stone wainscot, color-matched walk and overhead doors, and an abundance of natural light provided through large windows along the rooflines.

Post frame construction was chosen for its durability, quick construction time, and efficiency for heating and cooling.



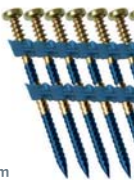


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LOCATION:

Upstate New York

SIZE:

Nine solar PV systems: total system size, 294.055 kW; 1,083 panels installed

ARCHITECT:

Secor Engineering

GENERAL CONTRACTOR:

Secor Building Solutions

ROOF AND WALL PANELS:

Roofs: Fabral 1½" SSR Series; Fabral Grandrib 3
Walls: Ameri-Cana Panels

PV CONTRACTOR:

LTHS Solar

ELECTRICAL CONTRACTOR:

Lauterborn Electric; Bleier Electric, Inc.

INVERTERS:

Fronius

OTHER:

Roof Clamps: S-5-PVKIT®2.0 (1,900);
S-5-S Mini Clamp (1,900)

In 1984, as a senior at Cornell University studying pomology (fruit science) and economics, Chip Bailey founded KC Bailey Orchards, a now 230-acre apple orchard in upstate New York. A first-generation farmer, Chip was always interested in orchards growing up in Wayne County, New York, the largest apple producing county east of the Mississippi. Chip and his wife, Karla, are environmentally-conscious people who understand the potential for generating renewable energy on their farm and have integrated a holistic approach to growing their 10+ varieties of apples.

On site, nine metal buildings primarily provide cold storage for their apples after harvest and prior to distribution. Each building was constructed with Ameri-Cana siding and Fabral® metal roofing. Five of the nine roofs feature direct-attach solar photovoltaics (PV). The PV was secured to the roofs with the S-5-PVKIT®2.0 solar attachment solution and S-5-S Mini clamps. The remaining structures utilize a traditional rail system.

The Bailey's chose to use metal building components not only for their lasting performance and durability, but also because of their reflective properties, which lowers the temperature of the building and enhances its cold-storage functionality.



HOME & STORAGE SHED



AMERICAN BUILDING COMPONENTS

www.abcmetalroofing.com

LOCATION:

North Carolina

SIZE:

Home: 36' x 80' x 17' tall (peak)

Shed: 40' x 40' + (3) 20' lean-tos (not shown)

BUILDER:

AW & Sons Construction,
Salisbury, North Carolina

ROOF & WALL PANELS:

American Building Components
Imperial Rib - Roof: Coal Black;
Walls: Vintage White;
Porch Ceiling: Hawaiian Blue

SNOW GUARDS:

Levi's Building Components

INSULATION:

ABT Foam board (R-10.8);
CertainTeed batt (R-19 walls),
CertainTeed blown-in (R-40
overhead)

Owners David and Janet Robertson wanted a unique and energy-efficient home for their hobby farm.

Mid-State Metals of Cleveland, North Carolina, designed the buildings and supplied builder AW & Sons Construction of Salisbury, North Carolina, with the components. "The Robertsons knew we build energy-efficient post-frame homes," says John Jancic, owner of Mid-State Metals. "They came to us looking for a home they could live in without ever having to move to a rest home; a home with everything on one level, with 36-inch doors, no carpeting or anything trippable."

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MULTI-PURPOSE SHOP



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SIZE:

45' x 66' x 16' sidewalls

BUILDER:

M-Z Builders

FOUNDATION:

Post-frame on 4' poured concrete frost wall

ROOF AND WALL PANELS:

Roof: Hixwood Metal SuperRib 100, 28 ga., Beckers BeckryTex coating, Burnished Slate
Walls: Hixwood Metal SuperRib 60, 29 ga, Beckers BeckryTex coating, Textured Red

DOORS:

Service: Plyco Corp.
Overhead: CHI Overhead Door

POSTS:

Richland Laminated Columns

INSULATION:

Owens Corning fiberglass R21 in walls. Applegate loose-fill cellulose insulation in ceiling

VENTILATION:

MWI Components ventilated soffit;
Marco Flex-O-Vent in ridge

FASTENERS:


East Coast Fasteners


OTHER:

Starwood Rafters:
Decorative peak accents
Trusses: 5-Star Trusses
Porch ceiling finished with carsiding












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PHOTOS: HORTONPHOTOINC.COM

PETERSEN | PAC-CLAD

pac-clad.com

LOCATION:

Yulee, Florida

SIZE:

Total Gross: 2,658 sq. ft.

ARCHITECT:

Dasher Hurst Architects

ROOF AND WALL PANELS:

Petersen Snap-Clad standing-seam panels, 16", 24 ga., Graphite finish

SHINGLES:

Atas International CastleTop diamond-shape shingles, Silversmith finish

SIDING:

Fiberon Composite Siding in Ipe

A new Wildlight branch for First Federal Bank of Florida puts an industrial twist on basic gabled designs to create a quirky, inviting building that's highlighted with standing-seam metal panels used for both roofs and walls. Designers with the Jacksonville office of Dasher Hurst Architects were given a few guidelines from the community, according to firm principal Tom Hurst, AIA. These included siting the building close to the front property line. Elements like front porches that spur personal interactions and provide some relief from the Florida sun also are encouraged.

"It was important to them that the architecture fit into the new neighborhood, which included other commercial buildings with a decidedly 'industrial' aesthetic," Hurst says, adding that there was a bit of tension to also ensure 'industrial' didn't equate to unwelcoming. "They wanted to make sure the building felt inviting and encouraged the use of woods and other warm materials."

The most dramatic element in that palette are the standing-seam panels, which run vertically up the top half of the walls and gable ends and continue up the roof in an effort to accentuate the gabled volume, Hurst says. "We wanted the building to feel like a solid, extruded object, rather than separate walls and roof – to achieve this, we needed a material that would work equally well for both," he says. "Standing-seam metal is one of the few materials that fit this situation."



CORPORATE HEADQUARTERS



MCELROY METAL

www.mcelroymetal.com

LOCATION:

Columbia, South Carolina

METAL INSTALLER:

Aqua Seal Manufacturing & Roofing, Cayce, South Carolina

ARCHITECT:

David Sickinger, AIA, LEED AP, Principal, Garvin Design Group, Columbia, South Carolina

WALLS:

McElroy Metal, 24-ga. MSR Panel (3,665 sq. ft.) in Sherwin-Williams Fluoropon PVDF Charcoal, installed vertically. 24-ga. Wave Panel (5,597 sq. ft.) in Sherwin-Williams Fluoropon PVDF Matte Black installed horizontally.

The warehouse area of the building features McElroy's exposed fastener 24-ga. R-Panel (6,392 sq. ft.) in Charcoal.

ALUMINUM COMPOSITE MATERIAL (ACM):

Reynobond ACM (1,063 sq. ft.)



In an effort to consolidate operations in several buildings into one modern office and warehouse facility, Terminix constructed a two-story corporate office in a highly visible location along Interstate 26 in Columbia, South Carolina. Aesthetics were essential for this project so three distinct panel profiles from McElroy Metal adorn the façade.

"The exterior design expression needed to pay homage to the materials and color palette of the original structures, but in a contemporary and forward-looking way," says David Sickinger, AIA, LEED AP, at Garvin Design Group of Columbia. "Since the original buildings on this campus used a gray/beige brick and gray metal panels, the intent was to replicate those material selections as a means to provide a link to the past. The building's architecture was to be much grander in scale and open in terms of the amount of exterior glazing, so the veneer selection provided an opportunity to incorporate a sense of familiarity. However, the scale of the brick and profiles of the metal panels were changed to respond to the larger scale of the new structure."



CLASSIC CAR WORKSHOP



METL-SPAN

www.metlspan.com

LOCATION:

Adirondack Mountains, New York

SIZE: 12,000 sq. ft.

ARCHITECT: Gary McCoola, Glens Falls, New York

IMP INSTALLER:
Munter Enterprises, Saratoga Springs, New York

FRAMING:
Ceco Building Systems

ROOF AND WALL PANELS:
Roof: Metl-Span CFR, Galvalume®
Wall: Metl-Span 4" thick CF Flute panels, Medium Bronze

OVERHEAD DOORS:
Schweiss Doors, 16' x 14'

WINDOWS:
Alpen Windows 1025 Series
Fiberglass (ZR-10)

SOLAR:
Hanwha Q-Cells Panels; SolarEdge inverters; Installed by ADK Solar

A classic car enthusiast wanted a state-of-the-art facility in the Adirondack Mountains of New York. "The goal was to create a workshop and storage space for a collection of vehicles that is energy efficient, low maintenance and has the simple aesthetic of an agricultural barn," says Gary McCoola, Architect PLLC. McCoola says insulated metal panels were chosen because they provide a weather-tight exterior skin, a high thermal resistance and a pre-finished interior skin in a single component.

"On the exterior, the brown siding color was selected so the building would blend into the wooded site, particularly during the winter when foliage was down," McCoola says. "The galvanized roof color was selected to resemble that of a tin barn roof and to reflect the summer solar heat."

To add to the 12,000 sq. ft. building's efficiency, south-facing solar panels are attached to the roof. Todd Coffin, Project Coordinator for Munter Enterprises, says the biggest challenge was the complex rooflines with multiple valleys coupled with handling the length and weight of 6" thick roofing panels on a 6:12 roof pitch on a tight Adirondack woods site.



WORKSHOP



WORLDWIDE STEEL BUILDINGS

www.worldwidesteelbuildings.com

LOCATION:

Harlan, Indiana

SIZE:

48' x 55' x 12', w/ 24' x 55' x 6' monitor and (2) 15' half trusses

BI-FOLD DOOR:

Hi-Fold Door Co.

WALL PANELS:

Worldwide Steel Buildings, 29 ga.

ROOF:

Worldwide Steel Buildings
Standing Seam; asphalt shingles
(by owner)

WINDOWS:

Plyco Corp.

PLYCO

OTHER:

Steel trusses by Worldwide Steel Buildings; wood purlins and girts; stone wainscot (by owner)



MACHINERY STORAGE



WALTERS BUILDINGS

www.waltersbuildings.com

LOCATION:

Jackson, Wisconsin

SIZE:

36' x 64' w/ 11.4' heel height; 2,304 sq. ft.

ROOF AND WALL PANELS:

Walters Steel, 28ga panels:

Roof: Brown roof steel with DripStop

Walls: Red end walls

OVERHEAD DOORS:

(5) Haas #600 series w/ WiFi Jack Shaft Operator

CUPOLAS & WEATHERVANES:

MWI Components, (2) 36" cupolas, brown

MWI Components, 30" weathervanes: (1) sailboat & (1) lighthouse

OTHER:

Posts: STP mech-lam 3-ply 2x6



This custom pole barn is the perfect backyard addition for someone in need of additional machinery storage. The real beauty of the building is in the finishing touches. This building includes four overhead doors on the side wall with an additional overhead door on the back end wall. The front of the building includes our Touch of Class sliding doors, two windows, a decorative hay loft door and exterior lighting above the main entrance.

The exterior lighting is included on the side of the building over every overhead door and the walk door. The building is finished with twin cupolas on top with an LED light wired into them for a stunning final project that sparkles in the evening hours.

SOURCE BOOK PROJECT GUIDE

PRODUCTS & SERVICES

This guide will help you find the companies, suppliers, and manufacturers that provided products or services for the projects in this edition of *The Source Book*. (See each company's ad on the page indicated.)

ARCHITECTS/DESIGNERS

- Buildings By Design
- Cedar Valley Post-Frame LLC
- Dasher Hurst Architects
- Frontier Builders LLC
- Garvin Design Group
- Gary McCoola
- Jim Rothwell
- Midwest Manufacturing
- MPB Builders
- Popple River Construction LLP
- Secor Engineering

BUILDING SYSTEMS

- Ceco Building Systems
- Chief Buildings, p. 15
- Greiner Buildings
- Metallic Building Systems
- Midwest Manufacturing
- Reed's Metals, p. 18, 25
- Sukup Manufacturing Co., p. 7
- Walters Buildings
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- Worldwide Steel Buildings

COATINGS

- AkzoNobel
- Beckers
- Sherwin-Williams Coil Coatings

BUILDING DESIGN SOFTWARE

- SmartBuild Systems

DOORS

- Acme Doors
- AJ Manufacturing
- Allmar
- CHI Overhead Doors
- Haas Door Co.
- Hi-Fold Door
- Kolbe
- Overhead Door Co.
- Palmerton Garage Door
- Plyco Corp., p. 27
- Schweiss Doors
- ThermaTru
- TruStile

FASTENERS

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- Atlas Bolt & Screw
- East Coast Fasteners, p. 3
- Everlast Roofing
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- Maze Nails, p. 2
- Metal Depots
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- SFS
- ST Fastening Systems, p. 11

FOUNDATION PRODUCTS

- Croell Redi-Mix
- ExpoCrete
- Perma-Column, cover, p. 31
- Post Saver
- Superior Plastic Products

INSULATION

- ABT Foam
- Applegate
- Bay Insulation
- CertainTeed
- Johns Manville

MOISTURE CONTROL

- CondensStop
- DripStop

ROOF & WALL PANELS

- AB Martin
- Ameri-Cana
- American Building Components
- Everlast Roofing
- Fabral
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- Metal Sales
- Metl-Span
- Petersen | PAC-CLAD
- Versetta Stone

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- Fiberon
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- SmartSiding

SNOW MANAGEMENT

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- Levi's Building Components, p. 17
- Snow Jacks

SOLAR COMPONENTS

- Fronius
- Hanwha
- SolarEdge

STRUCTURAL COMPONENTS

- 5-Star Trusses
- Graber Post Buildings
- Perma-Column
- Richland Laminated Columns
- RigidPly Rafters
- Starwood Rafters

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- Marco Industries
- MWI Components, p. 37

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- Tyvek

WINDOWS

- AJ Manufacturing
- Alpen Windows
- Jeld-Wen
- Kolbe
- Plyco Corp., p. 27
- PlyGem
- Wincore
- Windgate
- YKK

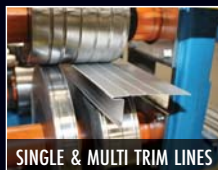
OTHER

- ADK Solar
- AW & Sons Construction
- Aqua Seal Manufacturing & Roofing
- Atlas International
- Bleier Electric, Inc.
- Corporate Contractors, Inc.
- Cover's Construction
- Custom Structures, Inc.
- Delta Millworks
- Lauderborn Electric
- LTHS Solar
- Metal Sales
- M-Z Builders
- Marona Photography
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- Original Pole Buildings
- Paul Burgin Builders
- Secor Building Solutions
- Sierra Steel
- Trident Construction

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855.438.9425



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www.graberpost.com
800.264.5013



Reed's Metals

Reed's Metals, headquartered in Brookhaven, Mississippi, provides metal roofing systems, metal roofing panels, pole barns, and pre-engineered steel buildings. Reed's is comprised of nine sites utilizing state-of-the-art technology and fabrication methods. Among Reed's offerings are pre-engineered metal buildings, rigid frame buildings, Galv-Econ buildings, post-frame structures, mini storage buildings and LX Tube Building Structures.

www.reedsmetals.com
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ROOF & WALL PANELS



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www.mcelroymetal.com
800.950.6531



Union Corrugating Co.

Union Corrugating is a provider of metal roofing products, supplies and wall systems for residential, commercial and agricultural applications. Current residential and agricultural metal roofing options include MasterRib, ValuRib, Corrugated, 5V, SL150, Advantage-Lok II, FL100, Union Rib, TS-324, Trapezoidal Panel, 7/8 Corrugated, R/PBR/IR Panel, M Panel, SL175, ML150, and ML200. We also offer a full range of metal structural framing components including Ceess, Zees, Receiver Channel and Eave Struts.

www.unioncorrugating.com
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SUPPLIES & SOLUTIONS



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815.945.3667



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diamonddoors.com
833.565.0933



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Kevmar Garage Doors

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.

www.kevmarmfg.com
217.543.2828



Safe-Way Door

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574.267.2813



MWI Components

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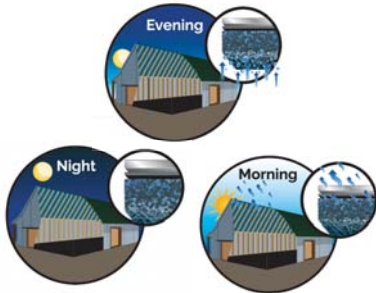


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MWI Components

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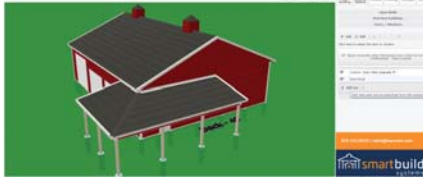
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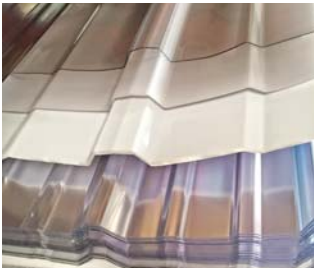


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- Building Owner/Developer
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calendar

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.

SEPTEMBER

13-16, FABTECH, McCormick Place, 2301 S. King Dr., Chicago, Illinois. fabtechexpo.com

21-23, Western Roofing Expo, The Mirage, Las Vegas, Nevada. www.westernroofingexpo.com

21-23, Associated General Contractors (AGC) Annual Convention, Orlando World Center Marriott, Orlando, Florida. convention.agc.org

21-23, Greenbuild International Conference + Expo, San Diego Convention Center, San Diego, California. <https://informaconnect.com/greenbuild/>

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



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NOVEMBER

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

DECEMBER

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



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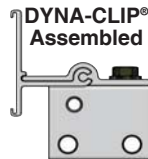
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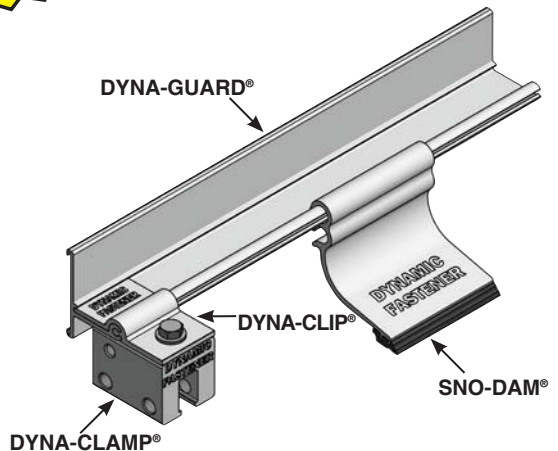
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