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Source Book 15 Inspiration, Innovations and Cutting-Edge Ideas to Inspire Your Next Construction Project















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Barndos: What's In a Name?

e don't have many limitations when our manufacturers, suppliers, and builders want to submit a project for consideration in this Source Book issue, which is essentially our Buildings of the Year. A group of editors and other staff members make the choices, and we try to include a wide cross-section of building types, so we don't limit the options.

But trends do appear of their own accord, and that trend this year was quite obviously barndos, aka barndominiums, aka barn homes, aka "insert your favorite nickname here."

What gets interesting from both an industry and an editorial standpoint is what to label such a building. One company calls them barndos, the next one prefers barndominium, one company has trademarked the term "Shome" (Greiner Buildings), and some companies don't like any of those terms, they prefer just calling the structure a "barn home" or "shop house."

The point isn't that we should stop and agree on the terminology. That will play itself out over time. What we can agree on is that this is a trend that appears to be creating a market and fulfilling a need for a group of people. Actually, the word "trend" can sound like

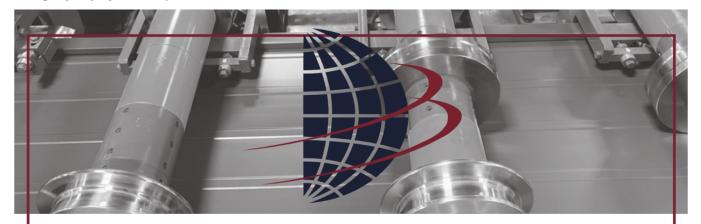
an insult, as if this will go away some day, and that doesn't appear likely.

What a barndo concept does is pull together a few elements that are probably overdue to have been pulled together. Basically, it means there's a residential area, but under the same roof, there is something else like a barn or a shop. Part of what makes that all possible is that we're able to create such large structures nowadays; in the past, the house and the shop were simply different buildings. But if we can fit them under the same roof, why not?

More on that topic coming soon because we're building a barndo digital magazine and website. If your company produces them, or accessories for them, let me know.

Thanks to all of the companies who contributed to this year's Source Guide, no matter the building type. There are featured projects in every issue, so please visit our website to get yours pictured in our next issue.

Rocky Landsverk, managing editor rocky@shieldwallmedia.com



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Gary Reichert, Publisher, Shield Wall Media

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INDUSTRY PARTNERS



































Residential Garage

PIONEER POLE BUILDINGS

www.pioneerpolebuildings.com

LOCATION:

Freehold, New Jersey

SIZE:

40' x 50' x 16'

POSTS

RigidPly Rafters: 3-ply 2x6 GluLam with ground contact 0.60 PCF CCA treatment, 8' on center.

FOUNDATION:

Concrete

ROOF FRAMING:

2x6 top and bottom chord trusses, 40' span. Purlins: 2x4, 2' on center, flat.

ROOF:

Everlast Metals Omni Series II, 27 gauge, color black.

SIDING:

Everlast Metals Omni Series II, 28 gauge, color slate.

FASTENERS:

PremierMetals KWIKSEAL MB Woodbinder for walls, ZXL MB Woodbinder for roof.



e can only imagine the conversations when these homeowners show their friends the ultimate garage. "Wow. Now *that's* a garage."

This is not actually a completely new building; it's a renovation. This building was originally a monitor style dog kennel connected to a small traditional style post frame building. The original monitor style was demolished but the existing concrete slab was left in place. The small traditional post frame building was also left in place.

Pioneer Pole Buildings, Inc. then constructed a new 40' x 50' x 16' post frame building attached gable-to-gable to the building that was left in place. The existing building was reroofed and reskinned to match the new construction.

Reusing some of the previous buildings and the slab limited the overall spend and made the customer's dream a reality by keeping it in his budget as compared to other construction types.

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GOLD KEY WINNER

Residential Garage (continued)









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Brewery Renovation

ENGLERT

www.englertinc.com

LOCATION:

Colt's Neck, New Jersey

BUILDER:

Leon Contractors LLC

ROOFING & GUTTERS:

Englert

DOORS & WINDOWS:

Andersen

SIDING:

James Hardie, Hardie Plank Lap Siding ource Farmhouse Brewery, nestled in the rural town of Colt's Neck, New Jersey, is a remarkable establishment housed in a 130-plus-year-old barn that exudes timeless beauty and historical significance. Philip and Keri Petracca, the proud owners of this unique award-winning brewery, have taken great care to preserve the barn's original wood structure and ensure its historical charm remains intact. Alongside this restoration, the Petraccas had an equally important desire — to install a standing seam metal roof that would enhance the barn's aesthetic appeal while being easy to maintain.

To bring their vision to life, the Petraccas entrusted the responsibility to Leo Deborda, a skilled contractor from Leon Contractors LLC. Recognizing the significance of sourcing high-quality materials, the Petraccas clarified that quality, durability, and low maintenance were essential criteria for their chosen roofing option. After carefully deliberating and exploring various possibilities, Leo Deborda recommended Englert, a reputable supplier renowned for its exceptional materials. Englert provided the roofing metal and the gutters to this project.

The outstanding attention to detail of Source Farmhouse Brewery renovation has garnered Historic Preservation Awards and was featured on Samantha Brown's Places to Love (Season 5 Episode 502), a popular two-time Emmy Awardwinning PBS show.



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Pole Building Wedding Venue

HANSEN POLE BUILDINGS

www.hansenpolebuildings.com

LOCATION:

Rifle, Colorado

SIZE:

66 x 84 x 17 (eave height)

ROOF PITCH:

4/12

BUILDING MANUFACTURER:

Hansen Pole Buildings

BUILDING TYPE:

Monitor

ENGINEER:

John Raby & Associates

LUMBER & ROOF TRUSSES:

Foxworth-Galbraith

CUPOLA:

MWI Components (48", glass windows)

STEEL ROOFING & SIDING:

American Building Components 29g Select Imperial Rib. Gray siding, roof in Regal White.

FASTENERS:

Powder-coated diaphragm screws by Leland Industries

ENTRY DOOR:

Plyco

VENTED RIDGE:

Marco LP-2

GLULAM COLUMNS:

Timber Technologies, 3-ply, 2x6

ENGINEERED HANGERS:

Simpson Strong-Tie

VENTED VINYL SOFFIT:

Kaycan

WINDOWS:

Silverline, dual-glazed white vinyl sliding windows, integral J-channels.



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- 3 Colors to Match Doors (Polar White, Clay & Black)















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Pole Building Wedding Venue (continued)

lista View Events is a mountain wedding venue situated in Rifle, Colorado. Located just three hours outside Denver, this secluded sanctuary provides celebrations of all styles and sizes with a vibrant and versatile celebration setting.

Hansen Pole Buildings specifically designed the shell of the wedding barn to be charming and rustic but not overbearing. This means you can easily customize the interior with your decor, florals, specialty furniture, and more. Or, it can easily be transformed into a more intimate space for smaller parties. It boasts plenty of seating indoors, a waterfront view, and landscaping around the property.

American Building Components provided the 29g roofing and siding metal. Timber Technologies' 3-ply 2x6 glulam columns were used.

Vista View Events is available seasonally from May through October to host gatherings of up to 200 guests. The centerpiece of the property is the stunning white wedding barn, which is perfect for both ceremonies and receptions alike. Spread out over 5,000 square feet, the custom-built wedding venue has a pristine white interior that radiates a contemporary yet timeless atmosphere.























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Drop Down Cupola Barn

AMERICAN BUILDING NETWORK

www.americanbuildingnetwork.com

BUILDER:

LC Contracting LLC

SIZE:

44 x 41 x 14/8

ROOF PITCH:

3/12 main building, 2/12 lean-to section

ROLL-UP DOORS:

Asta America 10x8 automatic roll-up doors with header seals and Dutch 45 trim kits

FASTENERS:

Levi's Building Components

POSTS:

American Building Network 14g galvanized steel square tubing (double legs for main building)

TRUSSES:

American Building Network 14g galvanized steel square tubing

ROOF AND WALL PANELS:

American Building Network 29g galvanized steel paneling (vertical) with Sherwin Williams Valspar color applied

WINDOWS:

Tiger Steel 30"x30" double-hung

CUPOLA:

IPS Packaging 3'x3'



his local customer came to American Building Network needing a large metal garage building with the visual character of a rustic barn. ABN came up with a custom design that features a 34' x 41' main building with a 10' x 41' covered porch that includes multiple frame-outs with Dutch 45 trim kits. And it's all topped off with a distinctive 3' x 3' cupola in the center of the roof.

The barn building also includes two 10' x 8' automatic roll-up doors from Asta America with header seals and Dutch 45 trim kits, a walk-in door, and nine 30" x 30" double-hung windows.

It's completely functional and reliable for vehicle parking and storage, and it looks fantastic with its clay vertical roof, burnished slate vertical sides, classic white trim, and colored screws. The structure is certified for wind gusts up to 140 mph and snow loads up to 30 psf, too.

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Sinton, Texas



Post-Frame Residential

H&D QUALITY BUILDERS

www.hdqualitybuilders.com

BUILDING MANUFACTURER:

Borkholder Buildings & Supply

BUILDER:

H&D Quality Builders

SIZE:

4,608 sq. ft.

FOUNDATION:

Midwest Perma-Column, precast concrete Perma-Column, 3-ply 2x6 posts.

ROOF PANELS:

McElroy Metals, Max Rib Ultra 29g, Kynar Paint

TRUSSES:

Borkholder Buildings, 48' double scissor trusses, 48' attic trusses

WALL PANELS & SIDING:

Graber Post Buildings, steel board and batten, 29g

WINDOWS:

Tempco vinyl windows

ANCHORS:

H&D Quality Builders, Exposed Tab Ridgeline Safety System anchors

RAPID FRAMING SYSTEM:

Borkholder Buildings & Supply



Ridgeline Safety Systems' permanent exposed tab anchor used by H&D Quality Builders.

his building was built to serve as the retirement home for a husband and wife. They sold their home in town and moved out to the countryside with this home, looking for some seclusion and privacy. The footprint includes a space for a woodshop in conjunction with the garage space, with office space in the attic trusses above the garage. A porch on the side of the home was built to serve as the segue into the outdoor patio/ fire pit area they are planning to build.

To frame the exterior walls of the home, posts were set on top of the Perma-Columns, then a Rapid Framing System was used. This framing system is a panelized girt system that incorporates all window and door openings in the panels from the plant. The time spent on site framing these openings was significantly reduced.

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LOCATION:

Central Vermont

BUILDERS:

Savelberg Construction & Mad River Post & Beam

SIZE:

36' x 52'

ROOF PITCH:

8:12 with 4:12 overhang

DOORS:

Classic Equine Equipment. Includes barn end doors, custom loft door, 4x8 Dutch doors, stall doors.

BARN DOORS & SIDING:

Montana Timber Products (Douglas Fir Aquafir).

WINDOWS:

Marvin - Elevate Collection.

ROOF PANELS:

Englert Metal standing seam (matte black)

ACCENT LIGHTING:

Northeast Lantern

WAGON WHEEL LIGHT:

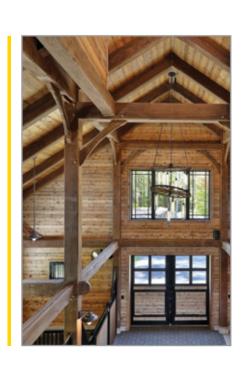
Conant Metal & Light

INTERIOR STAIN:

Horizontal reverse tongue-andgroove stained with Heritage Natural Finishes

WEATHERVANE:

Weathervanes of Maine



he purpose of the building is to house horses as well as serve as an office space for the owners, plus it's a getaway in the mountains. Given the location in the hills of Central Vermont, the geography and weather were a main hurdle throughout the construction process. This caused a few delays in construction. Overall, it was a smooth process, and the finished look was well worth the wait!

Classic Equine Equipment provided much of the materials, including the barn end doors with 2"x6" galvanized steel tubing, decorative wood fill pattern, and quad glass top. Its equipment custom loft door utilizes 2"x4" galvanized steel tubing to match the lower barn end door. There are CEE Dutch doors with 2"x4" galvanized steel tubing with matching decorative wood fill pattern, and stall doors were done in IPE natural wood. Barn doors were done by Montana Timber Products (Douglas Fir Aquafir).

The concrete foundation has a stone wainscot, with radiant heat in bathroom and office. There's a covered porch on the office side with stone wainscot posts and a covered overhang on the stall side. This wouldn't be considered residential or a barndo because it has no sleeping quarters.

As with any well-planned horse barn, there are amenities like



a rubber aisle pavers, drop-in hay access in the loft to each stall, a wash area with an overhead wand, and a storage area with overhead door for easy outside access to offload grain, supplies, materials, etc. Accent lighting throughout interior and exterior was by Northeast Lantern, with custom wagon wheel light by Conant Metal & Light.





Pole Barn Home & Shops

FBI BUILDINGS

www.fbibuildings.com

SIZE:

60' x 104' x 16' 6"

ROOF PITCH:

3.5/12

BUILDER:

FBi Buildings

INTERIOR BUILDER:

North Custom Homes

GARAGE DOORS:

Lift Master

DESIGN:

Palladian Custom Design

COUNTERTOPS:

Stone Mart / Indy Custom

WATER SYSTEM:

Kinetico

FAUCETS:

Delta

FASTENERS:

HeadLOK

FOUNDATION:

Perma-Column

POSTS:

FBi Buildings & Perma-Column 3-Ply 2x6

ROOF PANELS:

McElroy Metal

CUPOLAS:

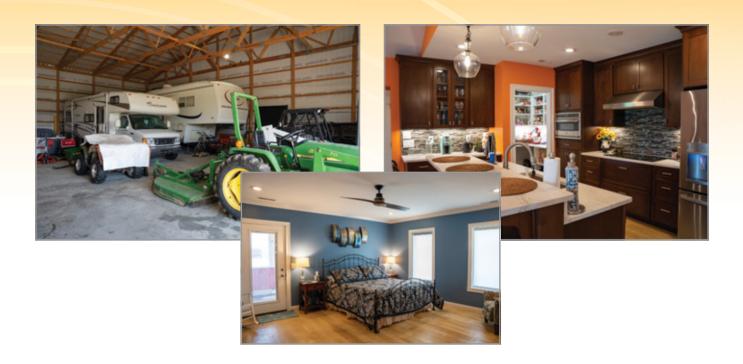
Metalworks, 36" x 36"

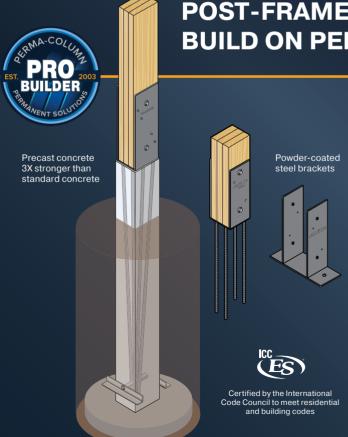
his two-story pole barn home is located in the rural Midwest. Custom features include cupolas, a screen porch and overhead door framing. The pole barn home and shop combo give its owners a place that was unique to their needs. A BendPack lift allows them to work on their automotive projects regardless of the weather outside. The size is 60' x 104' x 16' 6".

It has an exterior color technically called Brite Red, charcoal roof color with 12-inch roof overhangs, an 8-foot screened-in porch, snow guards, and an open-concept interior.

The flexibility of post-frame construction allowed the owners to get a second story without sacrificing the layout for their downstairs. The second story allows an RV camper to be driven in because of the increased, maintenance-free vertical space.







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Wedding Venue Barn

LEVI'S BUILDING COMPONENTS

www.levisbuildingcomponents.com

SIZE:

54' x 50'

BUILDER:

Hershberger Construction

DOORS:

Plyco

FASTENERS:

Levi's Building Components Pro Z 2" (roof). Logrip 1-1/2" (sidewalls). Fastgrip 2" (trim and soffit)

INSULATION:

Solar Guard

ROOF PANELS:

Preferred Metal Roofing 29g Ag panel

WALL PANELS:

Preferred Metal Roofing 29g, 3'

his barn will be used as a wedding venue, making this huge open space metal building the perfect construction method. The 54' by 50' space was built by Hershberger Construction and features a gambrel roof.



Preferred Metal Roofing provided the metal in its 29-gauge model. Levi's Building Components holds it all together with its fasteners being used on the roof, sidewalls, and trim/soffit.

The MWI cupola tops off what will be a facility for creating memories.







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Multi-Use Barndominium

WICK BUILDINGS

www.wickbuildings.com



his pole barn home was built in Brutus, Michigan, with a foundation of column-in-ground with 4-inch poured concrete. One of its wings measures 36' x 48'; a second wing measures 40' x 60'.

The owner was able to combine a living space with any possible options:

- A multi-use toy shed
- Workshop
- Extra-large garage for boats or RVs, or so much more.

The unique type of building allows for greater floor plan flexibility, more expansive interiors, and easier construction of extra-high walls.

Because post-frame building homes typically have columns placed 8 to 10 feet apart, instead of the conventional 1½ to 2 feet with stick-frame stud wall systems, the homeowner enjoys the fact that its reduced obstruction in the walls means more room for insulation and less chance for cold to travel through the wall.



LOCATION:

Brutus, Michigan

BUILDING MANUFACTURER:

Wick Buildings

BUILDER:

Lynnman Construction, Inc.

SIZE:

Wing 1: 36' x 48' Wing 2: 40' x 60'

FOUNDATION:

Column-in-ground with 4" poured concrete

INSULATION:

Dripstop®, also blown fiberglass (ceiling and walls)

POSTS:

Wick Buildings columns 3-Ply 2"x8" treated columns

ROOF PANELS:

Wick Buildings steel in Burnished Slate

EXTERIOR PANELS:

Wick Buildings steel in Beige with **Burnished Slate wainscoting**

WINDOWS:

Andersen Windows



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Residential Pavilion

NEW ENERGY WORKS

www.newenergyworks.com

DESIGNER/ARCHITECT/BUILDER:

New Energy Works

LOCATION:

Oregon

SIZE:

20' x 32'

POSTS:

New Energy Works Douglas fir timbers

TRUSSES:

New Energy Works Douglas fir

SIDING:

Pioneer Millworks Larch Shou Sugi Ban Deep Char hat do pizza boxes, a canceled wedding, and a community hand raising have in common? This backyard pavilion in Oregon. For homeowners Matt & Laura, 2020 was rough. Both work in the front-line medical industry and their

dream wedding was looking less and less likely to ever happen.

The couple decided that they would turn tradition around, forgoing a traditional one-time wedding ceremony and instead spending what would have been their wedding fund on an outdoor timber frame pavilion they



could enjoy with their friends and family for many years to come.

At first, they used empty pizza boxes laid out on the ground to envision their ideas for the space, eventually deciding on a layout for their timber pavilion that included an outdoor pizza oven and Argentine grill, among other amenities. When it came time to hand raise the timber frame, they emailed 30 or so friends and neighbors who all came out to help. The result is a dynamic communal space right in their own backyard.

New Energy Works provided the Douglas fir timbers and trusses. Pioneer Millworks provided the wall panels.





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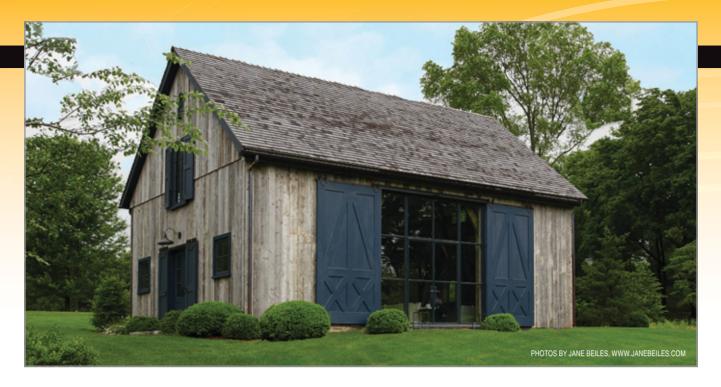




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Party Barn & Guest Space

PIONEER MILLWORKS

www.pioneermillworks.com

LOCATION:

Rural Connecticut

SIZE:

1,000 sq. ft.

BUILDER:

Hobbs, Inc.

ARCHITECT:

Mark P. Finlay

ENGINEER:

Fire Tower Engineered Timber

PREFAB INSULATED WALLS:

New Energy Works HPEz ("High Performance Made Easier™")

TIMBERS & TRUSSES:

Reclaimed White Oak Timbers by Pioneer Millworks

ROOF PANELS:

SIPs & cedar shingles

VENTILATION:

Exposed Spiral Duct

WALL PANELS / SIDING:

Pioneer Millworks American Prairie Weathered Grey Siding & Paneling

WINDOWS:

Marvin Ultimate

ROOF ENCLOSURE SYSTEM:

New Energy Works

or one couple in rural Connecticut, the concept was to create a multigenerational space to enjoy with their five children, friends, and extended family. This understated antiqued party barn is intended to adapt as the family grows and ages.

Intentionally built out of reclaimed timbers and barnwood provided by Pioneer Millworks, the structure has a timeless feel that is completely at home in the country landscape. The reclaimed timber frame was cut, finished, and raised by New Energy Works, which also provided the offsite manufactured wall and roof enclosure system.

"We decided to make a brand new 'old' barn," said architect Mark P. Finlay. "I convinced the clients that we could do an antique frame and antique barn board — the whole thing could be old pieces reassembled. We wanted the barn to feel like it had always been there."













Steam Flaking Mill

CHIEF BUILDINGS & CHIEF AGRI

www.chiefbuildings.com & agri.chiefind.com

LOCATION:

Sterling, Colorado

SIZE:

72-foot eave height to house flaker steam chest. 5,700 square feet total of buildings.

BUILDING MANUFACTURER:

Chief Buildings

BUILDER:

SG Milling & Settje Agri-Services

ERECTOR:

Maverick

ARCHITECT/ENGINEER:

Mike Grant, SG Milling

OVERHEAD DOORS:

Raynor Garage Doors

GRAIN BINS:

Chief Agri

STEAM CHEST & GRAIN CLEANER:

R&R Machine Works

BOILERS:

Sellers Manufacturing



32







Settje Agri-Services, built this turnkey steam flaking mill for a large feedlot near Sterling, Colorado.

This facility features an R&R steam chest and flaking mill capable of 30 tons per hour, Sellers boilers, Chief Agri grain handling systems, and a Chief Building.

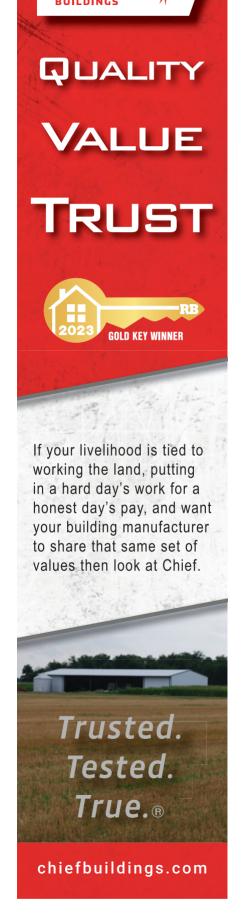
The building and layout were designed for expansion and can handle an additional boiler, steam chest, and mill. The architect and engineer was Mike Grant of SG Milling, which designs, builds, and services livestock feed centers.

The Chief Bin model is a CB 12-10 with a peak load capacity of 34,556 BU. There are two Chief Hopper Tanks (Model CHT 6-6) totaling just under 12,000 BU capacity. The Chief Agri material handling units work at up to 8,000 BPH, and Chief supplied catwalks, towers, etc.

The tallest building is 72 feet high to house the flaker steam chest. The other buildings hold a boiler house, MCC (motor control center), and grain receiving house. There are 5,700 square feet of buildings and construction took seven months.

See a video of this building on our website, ruralbuildermagazine.com.







Passive Solar Residential

S-5!

www.S-5.com

BUILDER:

ME Lunz Contracting

SOLAR PANEL MOUNTS:

S-5! PVKIT

DOORS:

Provia Embark entry doors

FASTENERS:

Trufast SIP TP panel fasteners, 6" and 9"

INSULATION:

Rockwool dense cellulose R-84 roof, R-41 wall

ROOF PANELS:

Metal Sales standing seam Empire EM1-1212

WINDOWS:

Ventana USA Series 86 triple pane

VENTILATION:

Zehnder Q450 ERV

TRUSSES:

Wood, 16" sloping flat







Ihis family home was built to Passive House standards and has been submitted for approval to Passive House Institute US, Inc. (PHIUS) for certification.

The home was built for a family of seven who loves to entertain and spend time with friends and family. The goals

were multi-generational quality, low maintenance, and eliminating utility bills. The house was built with a fully "off-grid" approach. All water is captured from the metal roof. All electricity is generated with S-5! PVKIT roofmounted solar system stored in lithium iron phosphate batteries. The whole house is electric yet still

has all of the typical amenities. One of the biggest challenges was working with some new building materials and paying such close attention to avoiding air leaks and thermal bridges, which are key features of a Passive House.

There were also a number of supply chain delays that occurred throughout the project. From breaking ground to movein, it took 15 months.







Commercial Truck Storage

COVER'S CONSTRUCTION

www.coversconstruction.com

BUILDING MANUFACTURER:

Delta Metals

SIZE:

80' x 153' x 18'

ROOF PITCH:

3/12

OVERHEAD DOORS:

Clopay 24' x 16'

POSTS:

4-ply 2x8

ROOF PANELS:

ASC Building Products Delta Rib 29g

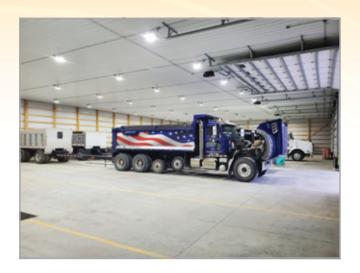
TRUSSES:

Two-ply free span 80-foot

his business owner was tired of not getting all of their equipment out of the elements. So with the help of Delta Metals and Cover's Construction, everything now fits inside.

The building was designed for truck and equipment storage but as it was being built, the customer could see the advantage of adding some features to also allow it to be a repair shop. So they added a ceiling liner, lights, full electric for an air compressor and similar tools, and spray-foamed the walls. The floor has four trench drains to deal with water and mud. They are poured in place and when they get full, the grates are removed, and a mini excavator is used to dig out the mud. With a full concrete floor, this a very useful multi-purpose building.







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Prism Builds LLC

BUILDING MANUFACTURER:

Express Barns

SPECS:

Living: 30' x 36' x 12' (1,080 sq. ft.) Barn: 48' x 36' x 16' (1,728 sq. ft.)

Roof Pitch: 4/12

DOORS:

Amarr, Next Edge, Masonite, Plyco

FASTENERS:

Atlas WoodTite® Metal to Wood #10 1.5" and 2.0" Panel Matched

FOUNDATION:

Contech Engineered Solutions Express system, 24' diameter, 4" wet pour, 52" deep.

INSULATION:

Solex, Owens-Corning, poly foam

POSTS:

Midwest Columns 3-ply 2x6 fingerjoint. Lower 5' protected by Post Protector.

ROOF PANELS:

Express 82k psi with Sherwin-Williams Weather XL 40-year coating.

MISC:

Horse stalls and Dutch doors by MWI.

TRUSSES:

Parker Truss and QSI, 36' common

VENTILATION:

FlexPro LP2 ridge vent

WINDOWS:

Plyco CTB500, Simonton, Pro Shade

hen trying to provide a definition for barndominium or barndo, you'll come across varying opinions about what comprises this new phenomenon. What criteria makes something a barndo?

What isn't in dispute is that you can call it a barndo if it does what this building does; it provides a living space for both people and horses.

Express Barns provided this building and Prism Builds LLC was the builder. The barn has a pull-through, well, septic, water, and power. There are mini-splits for heat and air conditioning.

The people side of the structure features custom teak, marble, and granite countertops. There is custom shower and bath detailing. While the humans got the luxury, the horses got the space. The residential area is 1,080 sq. ft., while the horses received 1,728 sq. ft.

Contech Engineered Solutions provided the foundation system, a precast concrete foundation system called Express Foundations.











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Hops Processing Facility

VARCO PRUDEN

www.varcopruden.com

LOCATION:

Yakima Valley, Washington

SIZE:

18,800 sq. ft. (total)

METAL BUILDING SYSTEM:

Varco Pruden

BUILDER:

Tri-Ply Construction LLC

ROOF & WALL PANELS:

Varco Pruden Panel Rib™ Roof, unpainted Galvalume

WINDOWS:

Wintech

ROOF PANELS:

Varco Pruden Tuf-Lite

akima Chief Hops supplies beer makers in the Pacific Northwest and gets its hops from this hops-processing facility owned by Sauve & Sons Farms. The building was engineered by Varco Pruden and its metal framed buildings.

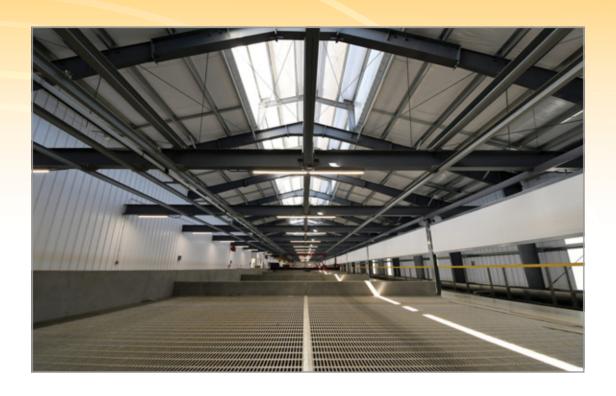
Sauve & Sons Farms is a fourth-generation family growing hops in Yakima Valley since 1938. After harvesting their Yakima Chief Hops crop, it goes to the processing facility, where the green hops are transported by conveyors from the "Picking" building to the drying kiln to process them. After the hops are dry, the next step is to go to the "Cooling/Baling" building.

The enormity of the project (18,800 sq. ft.) is made possible



by the Varco Pruden Rigid Frame system. Frames can be designed for the center ridge, off center ridge, or single slope. The roof pitch can be as low as 1/4:12. Rigid Frames allow for almost any variability in width and eave height.

The Inline 8" Hop Kiln has a full-length mezzanine on one side and conveyor support beams at each frame line. A full-length cupola on the main building provides ventilation.



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Company Nails a 175-year Milestone

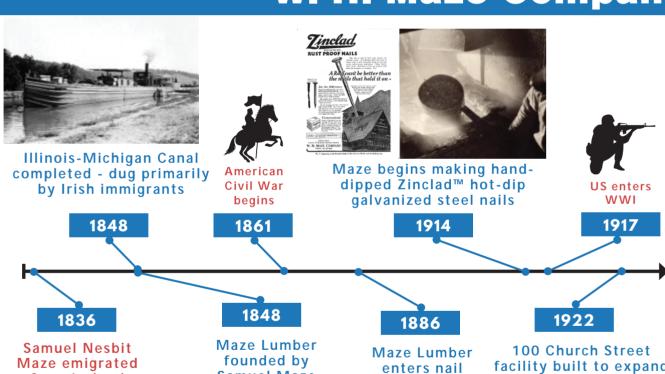
JUST 30 YEARS AFTER ILLINOIS became a state, Samuel Maze started his lumber company along the Illinois River. It eventually grew to include making the nation's largest selection of Specialty Nails.

To this day, Maze's company is still going strong. Maze Lumber is the state's oldest lumberyard, Samuel's great-greatgrandson, Roelif Loveland, is president of Maze Nails, and Maze Company proudly celebrates its 175th anniversary this year.

"We have been blessed with many generations of great associates - both nonfamily and family employees," Loveland said. "A huge part of longevity is having quality people ... and the other part is having quality products that are continually demanded in the marketplace.

"As my brother, Jim, said on the anniversary of his 150-year-old home in Spring Valley, Illinois, we are all simply caretak-

W. H. Maze Company





Samuel Maze



business with pure zinc cut nails



facility built to expand nail manufacturing



ers of old businesses and old houses. It is our job to nurture them and make certain that they survive for the next generation. I am very proud to be spending my years doing exactly that."

He also said he is impressed by his ancestors' ingenuity, which set up Maze Nails for longevity.

"It seems like entrepreneurship was the rule rather than the exception back in those days," Loveland said. "Family owned and operated store fronts and small businesses sprang up everywhere. The Maze boys were pretty clever fellows and built a very strong business for future generations."

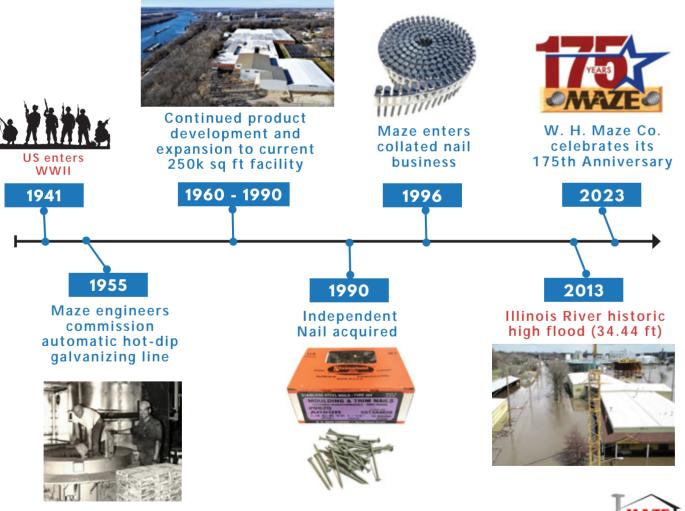
Over the years, Loveland said there have been steady changes to the family business. For example, Loveland said nails were once made entirely of zinc purchased from Illinois Zinc and M & H Zinc, but in 1916 nails started to be made of steel and dipped in zinc.

That was done by hand at first, but in 1955, Loveland said brothers, James and Hamilton Maze, designed a dipping machine to do the work.

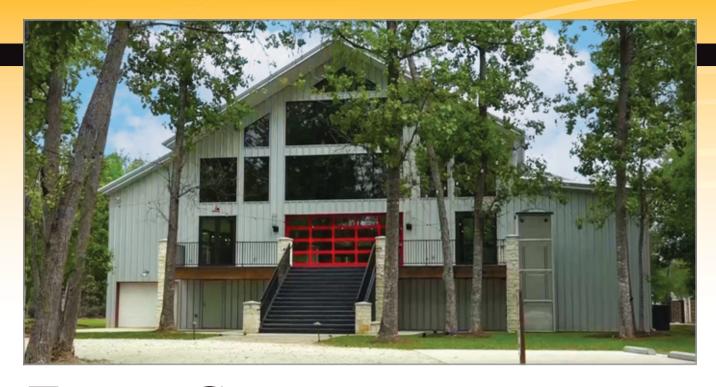
"The only thing that has stayed the same is that both types of nails were highly dependable and became demanded by contractors nationwide," Loveland said.

And with 175 years in the rearview, Loveland said things will continue to evolve. "We continue to change with the times, including updating the products we handle at Maze Lumber and developing new nails that we manufacture and sell at the Maze Nail factory," he said. "We're now looking forward to our bicentennial year!" **RB**

Through the Years







Event Center

SCHULTE BUILDING SYSTEMS

www.sbslp.com

LOCATION:

Houston, Texas

SIZE:

10,000 sq. ft.

BUILDING MANUFACTURER:

Schulte Building Systems (SBS)

SIDING:

Schulte Building Systems (SBS), PBR wall panel profile in 26-gauge metal with a Galvalume finish.

ROOFING MATERIALS:

Schulte Building Systems (SBS), VS-216 standing seam panel profile in 24-gauge metal with a Galvalume finish.

EXTERIOR TRIM:

Schulte Building Systems (SBS), 26-gauge metal with a Galvalume finish.

CANOPY SOFFIT PANELS:

Schulte Building Systems (SBS), SL-12 panel profile in 24-gauge metal with a Polar White finish.

INTERIOR MEZZANINE FRAMING:

New Millennium Building Systems, K-Series Joist with 36" wide floor deck that is 1.5" Deep, 22-gauge and G-60 Galvanized.

DOORS:

Tell Manufacturing Inc. Exterior entry doors are insulated, and wind rated with mortice locksets, lever handle, weather-stripping and keyed alike.

INSULATION:

Carlisle Spray Foam Insulation, SealTite Pro open cell sprayed polyurethane foam.

See a video of this project at ruralbuildermagazine.com/aug23

tarshine Texas is a 10,000 square foot space for family, business and community events on 25 acres in Houston, Texas. Russell Schulte, CEO and founder of Starshine Texas, says that they chose a metal building "to give versatility to the venue so that we could do anything that we wanted."

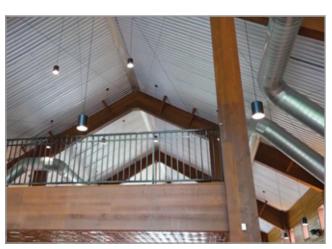
This versatility includes large expansions without any supporting beams to give the owners the ability to set up for many different types of events. The main hall is wide open, allowing them to configure it for a variety of purposes.

The minimal framing in the end walls allows for large banks of windows with views of a beautiful lake. High ceilings coupled with large ceiling fans create a natural ventilation, minimizing the HVAC requirements. The wood cladding gives the whole place a warm cabin-like feel — and it helps with the acoustics during large events.











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Post-Frame Garage & Guest House

WALTERS BUILDINGS

www.waltersbuildings.com

LOCATION:

Princeton, Indiana

SIZE:

36' x 48' x 12.4", roof pitch 8/12

OVERHEAD DOORS:

C.H.I. Overhead Doors, Model 2283 Stockton Design

POSTS:

Walters Buildings 5x6 STP Columns

TRUSSES:

Walters Buildings 35' 9" 8/12 Truss

WALL PANELS:

Walters Buildings JWS 28g / G90

WINDOWS:

Plyco 3040 Vertical Slide, white with grids

alters Buildings built this stunning 36' x 48' garage with living quarters upstairs in Princeton, Indiana. The company partnered with the customer to design and construct this incredible post-frame building that combines a spacious garage with comfortable living quarters, perfect for guests, a home office, or a cozy retreat.

The project features a 16' x 8' gabled dutch porch entrance, an 8/12 roof pitch, and Walters Buildings' JWS charcoal steel

panels. The first floor interior features an overhead door on the side wall and end wall for plenty of access into the garage as well as a bathroom with shower.

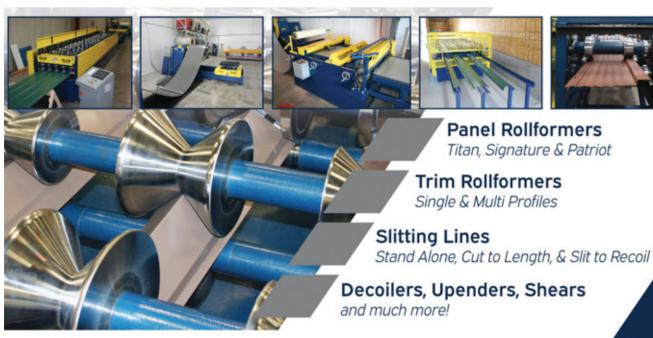
Walters Buildings manufactured the attic trusses and installed the floor system for the upstairs attic and the customer finished the living quarters to include an office and kitchenette area. The end result showcases the seamless integration of a spacious garage and inviting living quarters.











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Post-Frame Residential

GRABER POST BUILDINGS

www.graberpost.com

LOCATION:

Montgomery, Indiana

SIZE:

Home: 40' x 30' Garage: 32' x 24'

SIDING:

ProVia White Vinyl Siding

ROOFING:

Graber Post Buildings - 29 Gauge G-Rib Black Frost

WINDOWS:

Pella 250 Series

DOOR:

Thermatru Double Door

OVERHEAD DOORS:

CHI Overhead Doors 2250 Series

SCREWS & FASTENERS:

ST Fastening System KwikSeal MB

SOFFIT:

T3 Viny Soffit

n employee of Graber Post Buildings and his wife built an adorable but affordable home in Montgomery, Indiana. It sits next to his parents' farm (you can see the silo next door).

This home is 40' by 40' and the garage is 32 ' by 24'. Some post-frame homes that try to stay on the affordable end of the spectrum sit on slabs but this home has a full basement. The interior (not pictured) has big cathedral ceilings and an open concept.

"This couple wanted a budget-friendly house that wasn't missing the aesthetics," said Graber marketing director Trent Wagler. "They didn't give up the look but they finished this home for a nice price."

There are several cost-cutting but not "cheap" elements to this home, including vinyl wood-and-batten siding, and an Ag panel roof (higher-end residential homes usually use standing seam).

The couple made the porch trusses on their own, so they didn't go through a manufacturer and saved some money there, though you'd argue a manufacturer couldn't have replicated their quality.

Wagler pointed out that black metal roofs can get a shine or a glare to them, but Graber's have a textured metal effect ("Black Frost") which turns out looking classier and more like shingles.

Put it all together and you have a really nice mid-level home for an affordable price.









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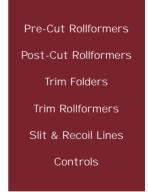








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PHOTOS BY MICHELE ISEBRAND

Pickleball Facility

METAL BUILDING CONTRACTORS & ERECTORS ASSOCIATION

www.mbcea.org

LOCATION:

Mankato, Minnesota

SIZE:

32,000 sq. ft.

BUILDING DEALER:

APX Construction Group

ERECTOR:

Midwest Steel Erectors

ARCHITECT:

RDS Architects

PRE-ENGINEERED BUILDING:

Metallic Building Systems

SIDING:

Metl-Span/NUCOR, 3" insulated metal panel

ROOFING MATERIAL:

MBCI, 24" Double-lok standing seam roof

VENTILATION:

Carrier and Greenheck, two groundmounted RTUs with fabric and metal ductwork







ickleball is one of the fastest growing sports in the country and the Picklebarn is a hub for pickleballers from beginner to expert.

The Picklebarn is a dream come true for owners Mitch and Sidney Elofson. The couple spent a summer college internship in Florida where they were first exposed to the growing sport of pickleball. They knew right away that they wanted to bring the sport to the masses in their hometown.



Despite challenging winter weather conditions and the ever-changing supply chain, the athletic complex's doors were opened 10 months after breaking ground. The Picklebarn is one of just a few dedicated professional pickleball facilities in the country and the largest indoor pickleball facility in Southern Minnesota.

The Picklebarn includes eight tournament-grade pickleball courts, luxury

locker rooms, a pro shop, and a fitness room on the main level of this 32,000 square foot pre-engineered metal building. There is a 5,000- square-foot mezzanine with a viewing area, snack bar, private event room and floor-to-ceiling stone fireplace.

The primary building includes a high-sliding standing seam roof system: 24" Double-Lok roof panels, with R49 (15") Banded liner system. The secondary building includes 36" PBR roof panels with a R49 banded liner system. The primary building is a single-slope, multi-span with straight columns.

The secondary building/entrance includes a symmetrical frame profile with straight columns and a 8/12 slope. Custom cedar and masonry finishes were incorporated throughout the building, integrating these elements with sections of the metal building components was a challenge.

The final result proved to be worth it. Thoughtful, high-end finishes combined with the functionality of a PEMB makes the Picklebarn a must-visit destination in the region.



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NATIONAL BARN COMPANY

www.nationalbarnco.com

LOCATION:

Henryetta, Oklahoma

SIZE:

42' x 67' x 14'

ROOF PITCH:

4:12

BUILDER:

National Barn Company

LUMBER:

Burrows Post Frame Supply, 5' x 5' CCA treated wooden post are set on 10-foot centers

TRUSSES:

Burrows Post Frame Supply set on 5-foot centers

METAL AND TRIM:

Burrows Post Frame Supply Quadra Loc Plus 26g Painted Rustic Red and Light Stone with Burnished Slate trim

DOOR:

Plyco Series 20

WINDOWS:

WeatherBarr fixed window, Krestmark series 400 vinyl single-hung insulated glass

INSULATION:

SolarGuard

WINDOWS:

WeatherBarr fixed window, Krestmark series 400 vinyl single-hung insulated glass

his custom-built barn home has three bedrooms and 2.5 baths. It features a living room, kitchen, separate dining room, full utility, and a bonus room/play area above the garage.

The front porch is an open rafter concept with stained cedar. The home's 4' x 6' rafters and 6' x 6' post beams were attached peg-style, and were stained by the customer prior to installation.

A 42' x 67' enclosed residential/ shop building has 14-foot ceilings. Custom-made, factory-engineered trusses above the garage area for the upstairs playroom offset to the side 25 feet. There are common trusses through the remaining 42 feet. The





customer finished out the barn home interior.

Posts are 5'x5' CCA treated, set on 10' centers. Trusses are set on 5' centers. The windows from Krestmark are Low-E and Argon gas. The building is fully insulated via products from SolarGuard.

Not pictured is a 30' red accent wall in the interior.





Residential Restoration

TANDO COMPOSITES

www.tandobp.com

LOCATION:

Hudson Valley, New York

BUILDER:

J-Pro Construction LLC

SIDING & CLADDING:

Tando Composite's Beach House Shake in Pacifica style (fresh red cedar look) TandoStone foundation cladding Tando Architectural Sill

HOUSE WRAP:

TYPAR (applied to previously existing sheathing)
Polar Industries WeatherAll XL (3/8" insulation)

WINDOW TRIM:

Berger Bros. vinyl aluminum coated coil.

FOUNDATION FURRING:

ProWood treated plywood

CORNER POSTS:

PlyGem Mastic

TRIM:

PVC trim for doors, front porch columns, and beams: Royal Moldings PVC, Veranda brand PVC

TRIM FASTENERS:

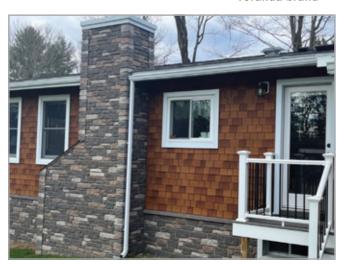
Cortex screws

GARAGE DOOR:

Garage Door Supply House – Hillcrest

HANDRAILS:

Veranda brand



ake and Mary Worstell bought a fixer-upper home in Carmel, New York, nearly 10 years ago after spending their early married life in Staten Island, New York, where Jake served as a fire-fighter for FDNY.

After their second child was born, the couple decided to relocate to a more rural part of the state just 50 miles north of the city. With some scheduling finesse, Jake was able to continue his career with the FDNY while establishing a successful Hudson Valley contracting business, J-Pro Construction.

Having worked as a carpenter from a young age, Jake quickly earned a stellar reputation for full-service renovation focusing on kitchen, bathroom, and deck

restoration. Keeping up on new advancements in building products, the contractor recently transformed the exterior of his own home using two composite products from Tando.

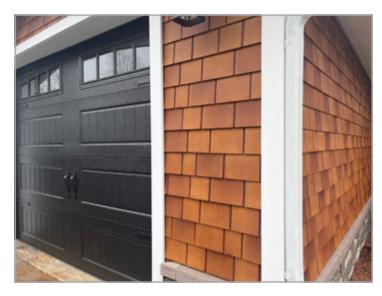
"We realized a few years ago that after remodeling for customers, it was time for our own renovation," said Worstell. "When we purchased the fixer upper in 2013, it was over 40 years old and hadn't been updated at all. After renovating the interior last year, it was time to tackle the outside. We chose Beach House Shake, a composite shingle, for the exterior walls and TandoStone, a composite stone, to cover the foundation wall."

Beach House Shake is an authentic composite shingle with the classic beauty

of natural cedar. It features realistic wood grain textures and saw cuts in a traditional 5-inch shingle. It is designed to make the installation process user-friendly and time efficient.

For the TandoStone, the Worstells chose Creek Ledgestone in Bucks County Gray. This popular design features various stone sizes with natural grout lines. The natural variation of each stone created an attractive aesthetic for the home's foundation. To create a clean line between the shake and the foundation, Jake used Tando's Architectural Sill for a sleek transition.

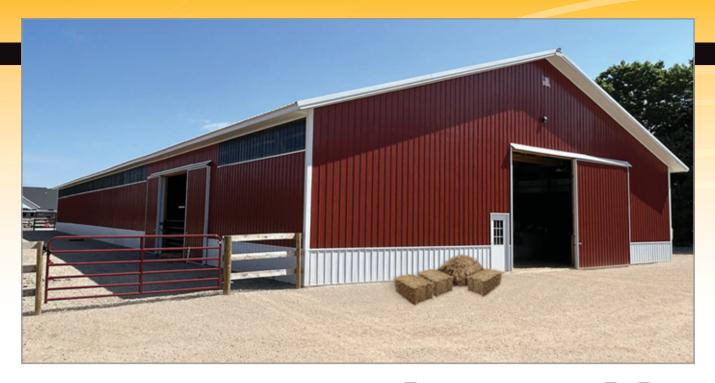
The previous siding was not removed but rather covered by TYPAR house wrap and Polar Industries WeatherAll XL continuous insulation.





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BEFORE



Equestrian Riding Stable

AMERILUX INTERNATIONAL

www.ameriluxinternational.com

LOCATION:

Neenah, Wisconsin

BUILDER & BUILDING PACKAGE:

Pinno Buildings

HORSE STALLS:

AmeriLux EZ Liner PVC

DAYLIGHTING:

AmeriLux Polycarbonate

SIDING & ROOF STEEL:

McElroy Metal 29 ga. Kynar

WALK DOORS:

Plyco 20 Series

INSULATION:

Knauf R-19 batt walls with R-38 blown

TRUSSES:

Custom

70' SLC ClearSpan trusses for arena 33' RLC ClearSpan trusses for stall barn

POLES:

Timbertech glu-lam columns

INTERIOR FINISH:

McElroy Steel with tongue and groove for stalls T-11 for tack rooms

CUPOLAS:

Harvard products 3'x3' louvered



amed after Grandma Rosie (Rose Ann), Legacy Rose Farm is located on a beautiful piece of land surrounded by tall trees and fields in Winnebago County, Wisconsin. "When we saw the land, we knew it was a sign," explained Brittany. "We decided to sell our home and build our girls their dream barn and riding arena, and a new family home."

Working closely with construction company Pinno Buildings out of Rosendale, Wisconsin, Brittany's brother personally designed the new riding facility. He owns a large horse farm just one mile down the road and has always been into horses, sharing his passion with Brittany's three girls since before they even started grade school.

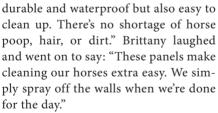
"To be very honest, my brother spent a full year designing every square inch of our land including where to put the pastures, paddocks, horse shelters, well pumps, hayfield, outdoor riding arena, parking, and even our home," Brittany said. "He was onsite working right alongside all the construction workers making sure every detail was met. It was pretty incredible. We could not have done this huge venture without him!"

A lot of thought was put into the design of Legacy Rose Farm's new riding facility — everything from size and style to which building materials were used. Essential features such as bigger stalls, wider aisleways, a dedicated wash area, ample storage, proper flooring, adequate ventilation, and plenty of natural light were all taken into consideration.

"Our horses mean everything to our farm! We may spoil them a lot, but it's easy to forget what they really do for us and our students! They give you so much more in return when they are taken care of, appreciated, and treated like family."

Perfect for covering the walls and ceiling of the horse wash stalls, EZ Liner™ PVC Interlocking liner panels offer a smooth finish that is easy-to-clean, low maintenance, and abuse resistant. "We needed something that was not only





Installed under the overhang at the top of the barns side walls, translucent corrugated polycarbonate eavelights from AmeriLux let plenty of daylight in. Not only does it make the arena a more enjoyable riding space; it enhances the horse's overall well-being and health. This low-cost feature also reduces the need for artificial lighting, saving energy and money.





Metal Building Barn & Store

FABRAL METAL WALL AND ROOF SYSTEMS

www.fabral.com

LOCATION:

Waupaca, Wisconsin

WALL AND ROOF PANELS:

Fabral GrandRib3

BUILDER / INSTALLER:

Forest Construction

WINDOWS:

Pella

INTERIOR FANS:

Big Ass Fans

EXTERIOR STONE WORK:

Krukowski Stone Co., Inc.

stablished in 1855, Brooks Farms is a sixth-generation, vertically integrated dairy and crop farm in Waupaca, Wisconsin. The farm rotates corn, alfalfa hay and wheat crops on 1,600 acres.

As part of a significant expansion, the Brooks family doubled the size of their herd of dairy cows and needed to update their facility to accommodate the additional livestock. Fabral Metal Wall and Roof Panels was selected to provide a durable, low maintenance exterior.

Regionally prominent, this farm runs tours and has a direct-sale service through pickup orders at their location (certain times of the year). Interestingly, it is both a beef and dairy farm.

"We are a dairy farm. So, what's the beef? The duality of a dairy cow provides it all – milk, cheese, meat and more," states the website. "Our family farm's responsibility is to provide the highest quality care, allowing our cows to do it all."

The farm is run by father/daughter duo Ron Brooks and Zoey Nelson. They have been featured in numerous magazine and online articles and have been featured on local television. They milk 600 Holstein cows twice a day in a double 16 Germania parlor. "Cow comfort is always top of mind for us. Our cows have fresh sand bedding, self-grooming brushes and a daily buffet of TMR (total mixed ration). Their mixed ration is composed of haylage, corn silage, protein mix, vitamins and minerals for a well-balanced diet."

The buildings are temperature-controlled which increases the animals' production.

"Vertical integration" in agriculture means the operation manages both production and processing activities. You can learn about this farm at brooksfarms1855.com.



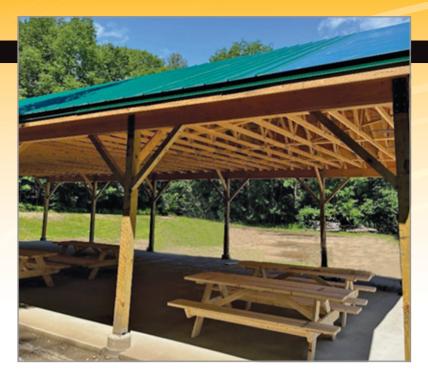












Scout Camp Pavilion

FASTENMASTER

www.fastenmaster.com

LOCATION:

Russell, Massachusetts

SIZE:

30' x 60'

ROOFING SYSTEM:

PVC membrane system: Sika Sarnafil Décor System

BUILDING SYSTEM:

FastenMaster: TrussBRACE

FASTENERS:

FastenMaster: HeadLOK, ThruLOK, FlatLOK, and MVP Fasteners



The roofing industry joined to honor the loss of one of its own by building this pavilion for the local Boy Scout camp.

A Pavilion for Vinny

inny Abbondanza was a long-term employee of OMG Roofing of Agawam, Mass. He was a true leader in the commercial roofing industry and loved by everyone who knew him. In his spare time, he also served as an Assistant Scoutmaster with Boy Scout Troop 114 of Southwick, Mass., and enjoyed the outdoor program as well as working with the youth and his friends, and of course watching his son earn the rank of Eagle Scout.

Vinny passed away unexpectedly from Covid in 2020. In Vinny's memory, the roofing industry, led by CentiMark, raised funds to build a wonderful 30' x 60' pavilion at the local Scout Camp that Vinny loved — the Horace A. Moses Scout Reservation in Russell, Massachusetts.

The pavilion is in the field by the Aquatics Lodge, which is the most used facility in the Camp, to best serve youth at all levels in the program. The Western Mass Council currently serves nearly 1,500 boys and girls, ages 5 to 17, from across the region. The pavilion will be used most of the year for a variety of scouting activities. Mostly, however, this is a great tribute to Vinny.

The project has been widely supported through financial and/or product donations by some of the commercial roofing industry's companies, including OMG, Inc., CentiMark, the Roofing Alliance (which is part of the National Roofing Contractors Association), Carlisle SynTec, GAF, Johns Manville, Sika Sarnafil, Rock-

wool/Roxul as well as many individuals who knew or worked with Vinny.

Footings for the structure were poured last fall, with construction beginning in earnest this spring. The project has been managed and constructed by a group of volunteers including some of Vinny's former colleagues from OMG, Inc., and his Scout Troop.

During construction of the structure, many FastenMaster products (a division of OMG) were used including their new TrussBRACE, as well as their HeadLOK, ThruLOK, FlatLOK, and MVP Fasteners. The PVC membrane roofing system is a Sika Sarnafil Décor System that mimics the look of the other green metal roofs throughout the camp.



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