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Source Book 16

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





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The Annual Rural Builder Source Book

A Trusted Source of Information and Inspiration

As I write this, I'm reflecting on Shield Wall Media's first Post-Frame Building Show in Branson, Missouri. There's nothing like a trade show to break away from the routine and get a fresh dose of enthusiasm.

While the internet is a great resource for information, nothing can replace the in-person benefits of a show, as attendees can network to develop new working relationships, strengthen existing ones, and glean valuable, first-hand insights from experts working across a wide range of construction segments.

More often than not, the best conversations at a show aren't scheduled. They're spontaneous and can lead to unexpected business opportunities and long-lasting friendships. I can personally attest to that. On the flight down, as I was getting settled into my seat on the plane to Springfield, I opened our show guide. My seatmate saw it and struck up a conversation. He, too, was headed to the show, and we had a great discussion. It's amazing how much I learned from him in that 90-minute flight.

In our magazines, we do our best to cull the most up-to-date information in the industry to share with our readers. We gather it from reliable sources, present it in a visually attractive manner, and because we know your time is valuable, we make it concise and reader-friendly.

In this issue, our annual Source Book, we're showcasing building projects to highlight trends, builders, manufacturers, and components. We invite builders to submit projects year-round via the link on the landing page of our website. They'll be considered for our Projects of the Month and next year's Source Book. It's excellent free publicity, so be sure to take advantage of it!

If you haven't had a chance to read our inaugural *Construction Survey Insights* (CSI) issue, you'll want to set aside some time to do so. It's packed with data to give you a valuable big-picture overview of where we've been and where we're headed. It's an election year, so there are some unknowns, but the report gives excellent insight into the market factors that we do know. **RB**



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Gary Reichert,
Publisher, Shield Wall Media



e-mail the editor at
dan@shieldwallmedia.com

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Farmer's Market Store

MITCHENER BUILDERS

mitchenerbuilders.com

ROOF PITCH:

8/12

POSTS:

Ridgiply, 6"x6" 4-Ply

TRUSSES:

Cussewago Truss

ROOF PANELS:

Everlast, Everlasting Omni, 27ga

WALLS:

Everlast Metal panels and
Versetta Stone cladding

FASTENERS:

Atlas

WINDOWS:

VWD

SPECIAL INTERIOR FEATURES:

Refinished tongue-and-groove
Johnson pine

This attractive building is destined to become a customer favorite — an ever-popular farmer's market store offering farm products and fresh produce. A family-owned small business that's a welcome alternative to big box grocery stores, it's sure to become a favorite destination for locals, as well as travelers passing by who want to take advantage of the opportunity to buy farm-fresh food for their families.



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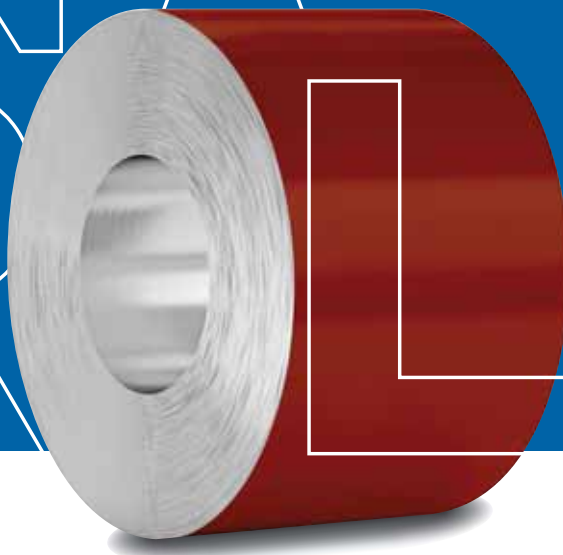
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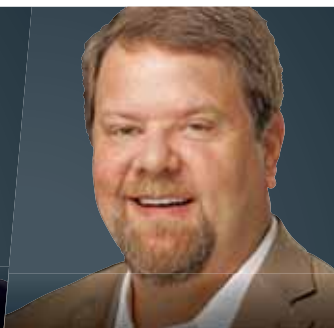
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Hobby Shop

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truemetalsupply.com

INSTALLER:

FLOW Roofing
flowroofing.com

LOCATION:

New Market, Tennessee

SIZE:

50'x50'x16'

ROOF PANELS:

True Metal Supply, True Blue Tuff-Rib metal roof panels

SIDING PANELS:

True Metal Supply, True Blue Tuff-Rib metal siding

TRUSSES:

True Metal Supply steel trusses

FASTENERS:

Atlas, WoodUltimate Fasteners

Levi's Building Components,
FrameGrip Structural Screws

ANCHORS:

Triangle Fastener, Sturdi-Wall Anchors

SEALANT:

Atlas, UltiBond

DOORS:

Plyco Series 99E walk door

VENTILATION:

Marco Industries LP2

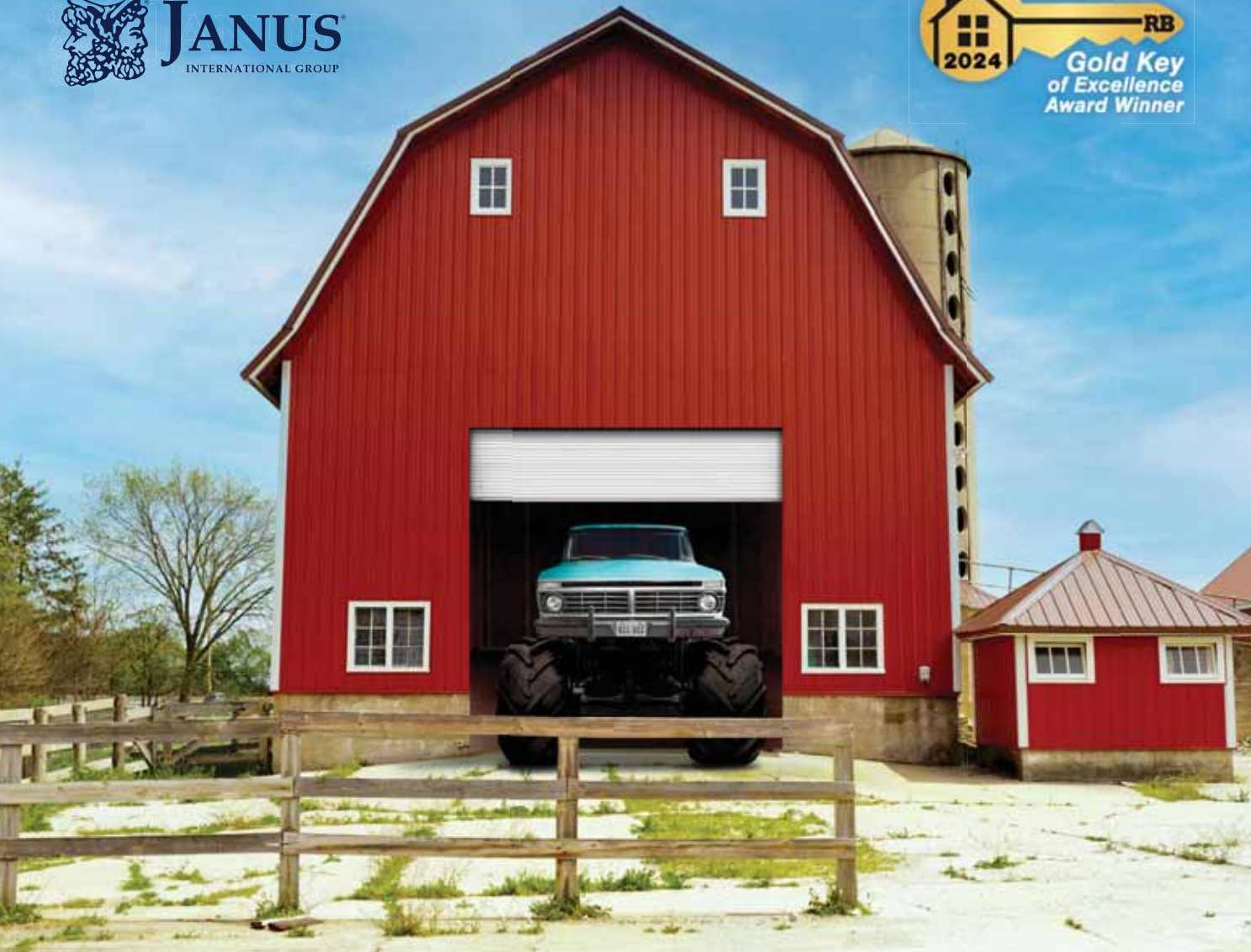
COIL COATINGS:

Sherwin Williams Coil Coatings

LUMBER:

Old South Wood Preserving

Located in New Market, Tennessee, this robust 50'x50'x16' post-frame building serves as a versatile hobby shop. The impressive structure is adorned with lifetime, True Blue Tuff-Rib metal roofing and True Blue Tuff-Rib metal siding, both expertly manufactured and supplied by True Metal Supply. The American Steel Trusses, also provided by True Metal Supply, ensure exceptional strength and durability. FLOW Roofing skillfully installed the building, guaranteeing a high-quality finish. True Metal Supply delivered all essential components, including fasteners, sealant, anchors, and more, ensuring the building's integrity, longevity, and aesthetic appeal.



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 PO Box 255, Iola, WI 54945



Post-Frame Workshop

WALTERS BUILDINGS

www.waltersbuildings.com

SIZE:
42'x63'x14'

ROOF PITCH:
4/12

DOORS:
Sunlight Windows, Legacy 20ga
smooth steel entry door

FASTENERS:
ST Fasteners and Maze Nails

POSTS:
Walters Buildings, 5"x6"

ROOF PANELS:
Walters Buildings, 28ga G90
JWS steel panels

TRUSSES:
Walters Buildings

VENTILATION:
MWI soffit

WALL PANELS:
Walters Buildings

WINDOWS:
Aeris, 1000 Series

OVERHEAD DOORS:
Haas Door, CA-315



This 42'x63' post-frame workshop seamlessly combines practicality and luxury, becoming the envy of rural estates as it stands tall overlooking a serene lake. Located against a backdrop of changing fall foliage, it captures the essence of rural living.

With glass overhead doors on both endwalls and five additional doors under the lean-to porch, the structure effortlessly transforms from storage to an event space, adapting to the diverse needs of any property.

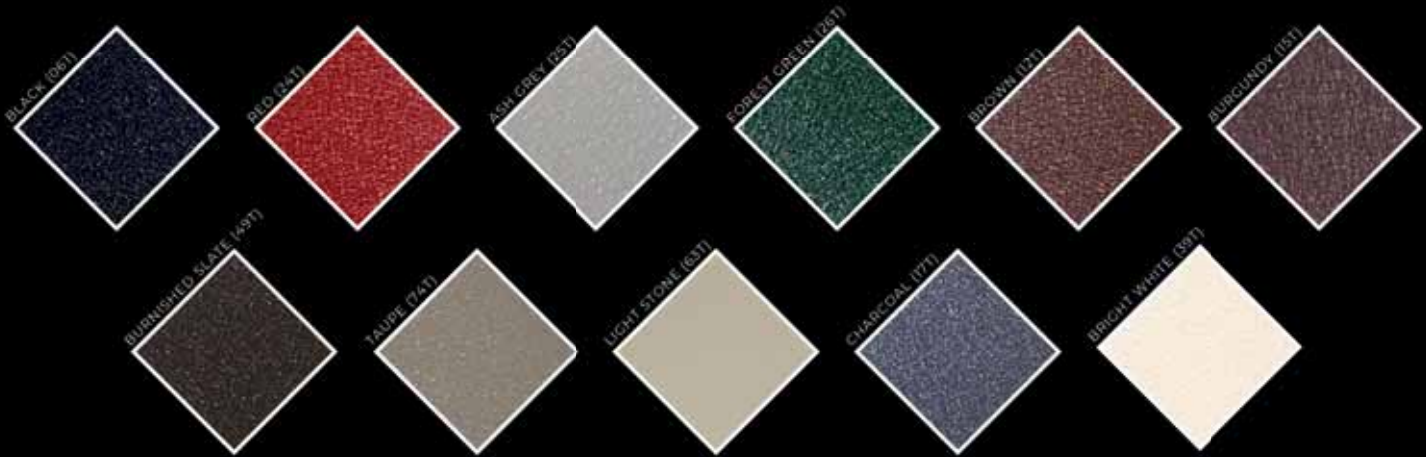
The project was designed by Walters Buildings using its patented Sheer Transfer Plate column system, along with its G-90 28ga steel for the siding and roof. The siding is charcoal with brick wainscot and the roof is galvalume.



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Equestrian Barn

NATIONAL BARN COMPANY

www.nationalbarnco.com

LOCATION:

Grove, Oklahoma

SIZE:

40'x80'x12'

ROOF PITCH:

4/12

POSTS:

Burrow's, 5"x5" solid sawn posts set on 12' centers

TRUSSES:

Burrow's, set on 4' centers

WALK DOORS:

Plyco, heavy duty, 3'x6'8", with half glass and crossbucks

SPLIT SLIDING DOORS:

National Barn Company, 15'x11' (two), built on site

WINDOWS:

Westlake Royal Windows Krestmark Collection, 3'x3' vinyl single-hung window (two)

OTHER FEATURES:

11'x52' porch

12'x20' wash bay

8'x12' tack room with walk door, Plyco

3'x3' cupola with weathervane, Plyco

4'x4' bale window with steel frame, Plyco

Tongue and groove lumber for stall fronts and dividers

The Malone family had a vision: a beautiful and functional equestrian barn to house their horses. However, with limited experience in barn construction, the sheer number of options quickly became overwhelming. Understanding this challenge perfectly, National Barn Company stepped in to guide the Malones through the process. Together, they explored various configurations and materials, considering the needs of their horses and daily routines.

The final result is a stunning 40'x80'x12' structure built with quality materials like





5"x5" solid sawn posts and trusses set on close centers for superior strength. The design prioritizes both functionality

and aesthetics. Heavy-duty sliding doors (15'x11') provide easy access for horses and equipment, while two 3'x3' vinyl win-

dows offer ample natural light.

For added convenience, the barn boasts a spacious 12'x20' wash bay, an 8'x12' tack room for secure storage, and a charming 11'x52' porch for enjoying the view. A touch of classic elegance comes from the 3'x3' cupola with weathervane, while the 4'x4' bale window ensures easy hay delivery.

The Malones are thrilled with their equestrian barn. "National Barn Company was very helpful," Mrs. Malone stated, "They did a very good job. We love it!" This sentiment perfectly captures the success of this project. The Malone family's dream barn is not just a functional structure; it's a testament to the power of collaboration and expert guidance in creating the perfect equestrian space.

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Guest House & Man Cave

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SIZE:

60'x72'x18'9"
12'x72'x10' Lean-To
22'x10' second story bump out porch

ROOF PITCH:

4:12

DOORS:

Overhead Doors:
Midland, 2" Energy Saver,
14'x14' and 9'x 8', 25ga

Service Doors:

AJ Manufacturing, 7100 Series

Man Doors:

Bayer Built, 10.375" door jambs
with aluminum cladding

FASTENERS:

SFS, wood grip control seal

FOUNDATION:

Concrete foundation with

Perma-Column SWP83 Sturdi-Wall
Plus Brackets

POSTS:

Littfin Truss, 3-ply 2"x8" columns

ROOF PANELS:

Metal Sales, Classic Rib, 29ga.

TRUSSES:

Littfin Trusses, vaulted scissor

VENTILATION:

ProfileVent

WALL PANELS:

Metal Sales, Classic Rib, 29ga

WINDOWS:

Thermo-Tech, Classic Series

SIDING:

CertainTeed S7 straight edge vinyl
shakes

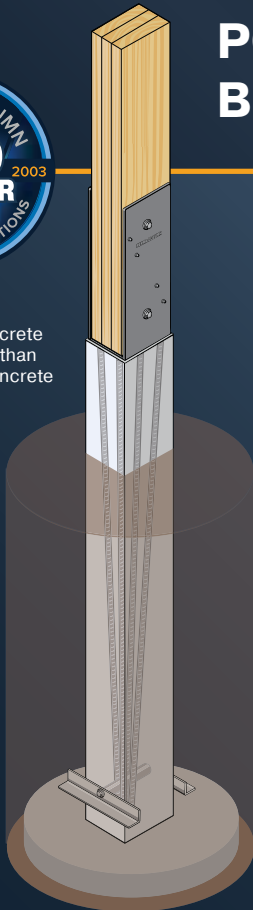
This building is an impressive man cave across the street from the primary residence. It serves as a guest house, office space, social area, and storage for sporting equipment. It was designed to meet the owners' wants and needs while staying within the value post-frame offers.

It's constructed on a foundation using Sturdi-Wall Plus brackets to ensure it will serve the family for generations. Other notable design features include vinyl shakes and frieze board to match the primary residence, a second-story bump-out porch that's half enclosed and half open, in-floor heat, and vaulted ceilings to give the building a greater open feel.

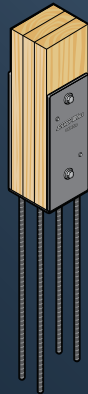
The building is split lengthwise vs. side-to-side, with the living space completed using traditional residential materials and finishes, while the shop side uses both traditional post-frame finishes and aged barn wood.



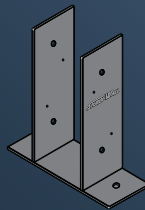
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Residence

WICK BUILDINGS

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BUILDER:

Tri-State Building Corp

SIZE:

40'x80'

TRUSSES:

Wick Buildings, RLC Trusses

ROOF PANELS:

Wick Buildings

WALL PANELS:

Wick Buildings, 29ga Wick steel wall cover

FASTENERS:

Wick Premium Fastener

INSULATION:

6" thick unfaced batt

DOORS:

Plyco, 3' x 6'8" metal frame door with liner

WINDOWS:

Plyco, CTB Step Saver Slider, 4'x3'

ADDITIONAL FEATURES:

Deck in shop
Custom interior finishes
Custom interior trusses
Custom chimney finishes
Custom tiled bathroom

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Church

S-5!

www.S-5.com

LOCATION:

Richfield, Pennsylvania

BUILDER:

Lehman Construction Services Inc.
lehmanconstructionservices.com

SIZE:

15,000 sq. ft.

ROOF PITCH:

Three roof pitches
 2/12, 5/12, and 6/12

ROOF PANELS:

AB Martin, ABSeam panel (1.5" high rib, 16.5" rib spacing)
 standing seam metal roof

WALL PANELS:

AB Martin, ABSeam panel
 standing

FOUNDATION:

Lehman Construction Services, Inc.

TRUSSES:

Truss Tech

INTERIOR DOORS:

Houston Star

EXTERIOR DOORS:

Weavers Glass

WINDOWS:

Weavers Glass

VENTILATION:

Cumberland Supply

INSULATION:

R42 blown in attic
 R21 in exterior walls

SPECIAL INTERIOR FEATURES:

The interior features a sanctuary, fellowship hall, five classrooms, four bathrooms, three administrative offices, a kitchen, a nursing mother's room, a youth room and dedicated space for a ladies' group.

ADDITIONAL DETAILS:

Snow Guards, S-5! ColorGard®
 Roof clamps, S-5-S Clamp





Niemoinds Independent Church located in Richfeld, Pennsylvania, first established in the late 1700s, built a new 15,000-square-foot nondenominational church facility, providing worship space, youth programs, and education, Bible studies, a food ministry and more.

The church is constructed with sustainable building materials including ABM panel metal wall sheeting used for siding, a drive-through porch with a metal soffit ceiling and an ABSeam panel charcoal colored, pre-finished, standing seam metal roof.

This area of Pennsylvania experiences much rain, snow, sleet, and hail with high winds regularly sweeping through. The church is located in a valley, which makes these weather conditions particularly challenging for any construction project. Mounted to its roof is the complete S-5! ColorGard snow retention system to protect churchgoers from ice and snow sliding off the roof.

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Residence

HANSEN POLE BUILDINGS

hansenpolebuildings.com

LOCATION:

Garden Valley, Idaho

ENGINEER:

John Raby & Associates

SIZE:

16'x42'x20'

Left shed: 12'x42' sloping from 16'6" to 12'6" open to main building

Left shed (roof only): 12'x42' sloping from 12'6" to 8'6"

Right shed: 20'x42' sloping from 16'6" to 9'10" open to main building

Right shed (roof only): 4'x16' sloping from 9'10" to 8'6"

24" enclosed overhangs

Overhead doors: 12'x14' and 8'x8'

ROOF SLOPE:

4/12

COLUMNS:

Glu-lam, Gruen-Wald Engineered Laminates, Inc.

Perma-Column Sturdi-Wall+ wet set brackets

ROOF PANELS:

ABC 29ga. Select Imperial Rib

RIDGE VENT:

Marco Industries

SCREWS:

Leland Industries 1-1/2" powder-coated diaphragm

SOFFITS:

Kaycan, vinyl full vent

TRUSSES:

BMC Truss & Components Boise, ID

SIDING:

Rough-sawn plain-face T1-11 with 1"x4" STK cedar battens

HANGERS:

Simpson Strong-Tie

This residence framed by spectacular scenery is located in Garden Valley, Idaho, and was built in 2020.



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ROOF PITCH:

6/12

DOORS:

Clopay, 10'x8' Commercial Steel Back Energy Series, Black
10'x8' full-view glass door

FASTENERS:

LedgerLok Fasteners, 3-5/8" and 5"

FOUNDATION:

Concrete footings, columns attached with Sturdi-Wall brackets

INSULATION:

Spray foam, 4"

POSTS:

Midwest Columns, 4-ply 2"x8" and 4-ply 2"x6"

ROOF PANELS:

Hixwood, 29ga, Black

SPECIAL INTERIOR FEATURES:

In-floor heating system

TRUSSES:

Quality Truss

VENTILATION:

24" vented soffit panels on sides and gable

WALL PANELS:

Pinewood board and batten, 9' o.c. batten

WINDOWS:

Anderson, 100 series Black

ADDITIONAL DETAILS:

Flying gable

With carefully selected wood siding exuding rustic charm, the design seamlessly integrates with the natural surroundings while promoting eco-friendliness. Featuring expansive patio spaces and open interiors with unique rooflines, this residence offers a captivating blend of modernity and rustic elegance. The flexible floor plan allows for versatile customization, catering to the diverse needs of homeowners.

Engineered three-ply laminated columns, strategically placed on concrete footings, ensure stability and durability while enabling expansive, unobstructed living spaces. With contrasting exterior elements adding architectural distinction, this project epitomizes our commitment to crafting inspiring and distinctive spaces.



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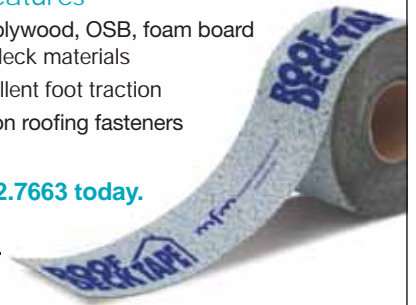
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“Dogtrot” House

CAPLER HOMES

www.caplerhomes.com

SIZE:
3,500 sq. ft.

ROOF PITCH:
8/12

ROOF PANELS:
Englert Metal, 26ga standing seam,
installed by Baber Enterprises

TRUSSES:
Built onsite by Capler Homes

WOOD POSTS:
Milled by Appalachian Hardwoods
from oak trees cut from the site

METAL POSTS:
Custom fabricated and welded by
C&C Fabricators

FIREPLACE:
Accucraft

DOORS:
Anderson, E-Series

WINDOWS:
Anderson, E-series

SUBFLOOR:
Warmboard radiant panels

SPECIAL INTERIOR FEATURES:

- Soapstone counter, Polycorp
- Barnwood siding by Atlantic Reclaimed Lumber

INTERIOR DESIGNER:
Sarah Knicely, Dogwood Design

In the vast tapestry of American architectural history, few styles evoke the nostalgic charm and rustic allure of the dogtrot house. Immortalized in literature, paintings, and photographs, this quintessential Southern dwelling embodies the essence of a bygone era, where the rhythms of rural life echoed through its open breezeways and expansive interiors.

Rooted in the vernacular architecture of the early 20th century, the dogtrot house has long been celebrated as a symbol of Southern heritage. Renowned authors like William Faulkner, in works such as *Absalom! Absalom!* and *As I Lay Dying*, imbued these humble abodes with profound social commentary, reflecting the complexities of Southern society. Similarly, Eudora Welty, through her lens as a photographer for the Farm Security Administration, captured the essence of the dogtrot house during the tumultuous 1930s.

Fast forward to the present day, where the spirit of the dogtrot finds new life in a recent project aptly named “The Dogtrot.” Conceived as a modern interpretation of this iconic architectural form, our team embarked on a journey to blend tradition with innovation, paying homage to the past while embracing the demands of contemporary living.

When our client approached us with the vision of creating a cabin that reimagined the dogtrot concept, we recognized the opportunity to craft something



truly exceptional. The design called for a main cabin on one side, flanked by a two-bedroom guest cottage on the other, with a central dogtrot serving as both a functional breezeway and a symbolic link between past and present.

Central to the design concept was the incorporation of a clerestory that traversed all three spaces, suffusing the interiors with a soft, diffused light that seamlessly connected the disparate elements of the structure. Situated atop a mountain, the site offered breathtaking views that we sought to capture from every vantage point within the home. However, realizing this vision meant confronting challenges, chief among them the need to navigate the delicate balance between progress and preservation.

To make room for the footprint of the structure, several specimen oak trees had to be removed — a decision not taken lightly. Yet, in a testament to our commitment to sustainability and local craftsmanship, these trees were meticulously milled, kiln-dried, and repurposed as porch columns and decking, infusing the home with a sense of history and heritage.

Further echoing the ethos of sustainability, the project embraced the use of

locally sourced and reclaimed materials wherever possible. From the reclaimed brick cladding, the two-sided wood-burning fireplace, sourced from Richmond, Virginia, to the sleek modern gas fireplace clad in mill-finish steel, every element of the design spoke to a reverence for the past and a commitment to the future.

In the heart of the home, locally sourced soapstone countertops from the Alberene quarry in Schuyler served as both a functional surface and a tactile reminder of the region's natural beauty — a fitting homage to the rich geological heri-

tage of the area.

In “The Dogtrot,” tradition and modernity converge in a harmonious synthesis, breathing new life into an age-old architectural typology. As we reflect on this project, we are reminded of the enduring power of design to transcend time and place, weaving together threads of history, culture, and innovation to create spaces that resonate with the soul.

In honoring the legacy of the dogtrot house, we pay homage not only to the past but also to the spirit of resilience and ingenuity that defines the American architectural landscape.

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BUILDER:

M&Z Construction

LOCATION:

Stanley, Wisconsin

SIZE:

60'x48' equipment cold storage
 32'x48' heated shop
 32'x32' kitchen/quilting area
 32'x32' upstairs recreation/library room
 10'x60'x66' porch

ROOF PITCH:

5/12

STRUCTURE:

2'x6' ladder-frame construction
 60'x112 trusses, 4' o.c. (scissor)
 4' frost walls

ROOF AND WALL PANELS:

Hixwood Metal Super Rib 100 28ga

OVERHEAD DOORS:

Six C.H.I. doors, all insulated
 Three: 9'x7'6"
 One: 24'x14'
 One: 20'x14'
 One: 12'x14'

WINDOWS:

Silverline slider, 4'x3'

SERVICE DOORS:

Plyco Model 95

FASTENERS:

Plyco EC Extreme (roofing and siding screws)

CUPOLAS:

MWI 36"

INSULATION:

Knauf R-21 batt insulation in walls
 Applegate cellulose in ceiling

This machinery storage/shop/shouse office building in Stanley, Wisconsin is the ultimate in versatility. Featuring six overhead doors for easy access to its heated shop and equipment cold storage area, it's built with 2'x6' ladder-frame construction and includes a kitchen/quilting area and upstairs recreation/library room.





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Wedding Barn

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BUILDER:

Russell Builders
russell-builders.com

ARCHITECT:

Hanlon Architects

ENGINEER:

Stahly Engineering & Associates

POSTS:

New Energy Works, Douglas fir timbers

TRUSSES:

New Energy Works, Douglas fir

ADDITIONAL DETAILS:

Pioneer Millworks hickory flooring milled in the USA

Pioneer Millworks farmed board siding, naturally weathered barn wood siding made in the USA

When Mike and Carrie bought their farmhouse in the Finger Lakes region of New York 23+ years ago, there were foundational remnants of the original turn of the century barn on the property, which they always dreamed of one day rebuilding.

More recently, the couple, who now have four older children, realized they might actually need a barn to supplement the space for socializing and storage their farmhouse could no longer accommodate, but it took a family wedding to really push the project from dream to reality.

While plans for the “banked barn meets pool house” were already underway before their daughter got engaged, it was her request to get married at home that sped the project, clad in reclaimed barn wood, to completion just in time to serve as a family wedding venue.



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BUILDER:

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We Build Barns
professionalbuildingservicesinc.com

LOCATION:

Northern Virginia

STRUCTURE:

Post-and-beam framed

SIZE:

10' ceiling with a full loft space
12' shed roofs

SIDING:

STK Cedar 1"x12"/1"x5" board
and batten with stainless steel
fasteners

ROOF:

Standing seam metal

WINDOWS:

Builders First Source, dual pane vinyl
windows, low E

AISLE:

Rubber pavers, 1-3/4 dog bone over
stone dust base with concrete apron

WASH BAY:

Block wall with two coats
waterproofing, and Infrared heaters

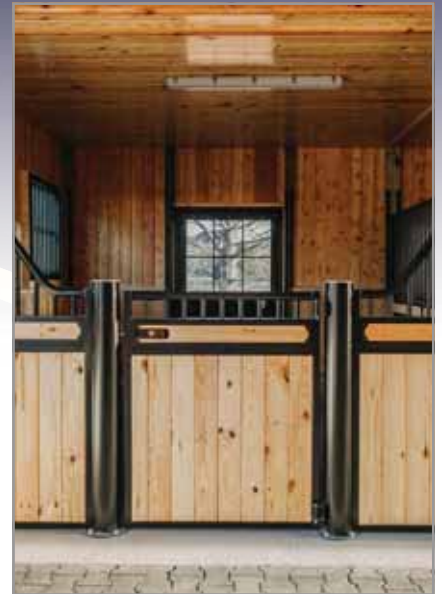
TACK ROOM:

12'x24' tack with mini split half bath

This gorgeous private barn located in northern Virginia was built by Professional Building Services, which specializes in building the finest equestrian facilities in and around northern Virginia.

This barn is equipped with beautiful European stall fronts and dividing walls along with durable, long-lasting barn doors provided by StallWorks LLC.

The owner has been more than pleased with her barn and the functionality and ease it brings to her and caring for her horses. The horses love the ability to stick their heads out the top of the Dutch doors during the hot summer months.



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Church

EMERSON BARNs LLC

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SIZE:

38'x94' with 18'x42' entry foyer and restrooms. 4,017 sq feet.
14'x24' covered porch
16'x40' covered porch
6'x8' covered porch

FOUNDATION:

5" concrete slab

TRUSSES:

Kingdom Building Supply, 6/12 wood trusses 24" o.c (vaulted ceiling in auditorium)
9' wood-framed walls 2"x6" construction with 2"x4" horizontal purlins

SIDING:

United Steel by Kingdom Building Supply, 29ga Taupe crinkle metal with Burnished Slate crinkle wainscot

SIDING SCREWS:

Kwikseal

ROOF:

29ga Burnished Slate crinkle metal from Kingdom Building Supply

ROOF SCREWS:

ZXL

INSULATION:

Astro Armor foil insulation under siding and roof

WINDOWS:

Quaker double hung

KITCHEN CABINETS:

Artesia Woodworks

When the congregation at Desert Rose Christian Fellowship in southern Arizona decided to move forward with building a meetinghouse, it made sense to go with a wood framed/metal exterior building due to a tight budget, durability in the harsh climate, and ease of construction. It was a great blessing to each one involved and the project was completed with 90-95% donated labor. All the work was done by the community except the drywall, floor polishing, and kitchen cabinet manufacturing.

Ground was broken in May 2023 and completion was in December 2023. The first day of framing was started with a bare slab at 6 a.m. and by 4 p.m. the last truss was on. Most of the work was done by approximately 15 volunteers with a work-day almost every weekend. It was a long, grueling seven months, but looking back everyone can say it was a great experience



and it fostered a community spirit working closely together.

A special thanks to God for making this possible. A special thanks to Kingdom Building Supply from Kingdom City, Missouri for providing the metal exterior and trusses at a subsidized cost.





Hobby Shop

FBI BUILDINGS

www.fbibuildings.com

LOCATION:

Ada, Michigan

SIZE:

42'x64'x16'-6" + 24'x24'x10'-6"

ROOF PITCH:

5/12

DOORS:

AJ Manufacturing, 22"x36"

FASTENERS:

SFS Fasteners

FOUNDATION:

Concrete

INSULATION:

Knauf, R-19 Fiberglass

POSTS:

FBI Buildings, 3-ply 2"x6"
laminated columns

ROOF PANELS:

McElroy Metal, 29ga steel

SPECIAL INTERIOR FEATURES:

McElroy Metal, 29ga steel liner

TRUSSES:

FBI Buildings, 24' and 42' Single Ply

WALL PANELS:

McElroy Metal, 29ga steel

WINDOWS:

AJ Manufacturing, 3'x4' Double
Hung Black Vinyl

ADDITIONAL DETAILS:

Mansards: FBI Buildings,
3'x4'x12' overhang

This project was built with FBI Building's exclusive QLYFT Building System. The QLYFT building system is an unprecedented way of erecting post-frame structures. It was created to improve field employee safety while taking building quality to new heights.

Experience the ultimate hobby shop with the Downey Barn, located in Ada, Michigan. This post-frame barn is unlike any other, boasting an impressive design that will make any hobby enthusiast's dreams come true. The owner uses this shop for working on cars and hosts a golf simulator.

Constructed with high-quality materials, the Downey Barn features wind-load reinforcing, 12" end wall and 24" side wall overhangs, 3'x4' double-hung black vinyl windows, and mansard overhangs over garage doors.

With a building size of 42'x64'x16'-6" +



24'x24'x10'-6", it has plenty of space to indulge in hobbies. The barn's striking charcoal color and matte black roof create a sleek and modern appearance. Plus, the designer stone wall matches the residence for a seamless look.

The Downey Barn also includes an 8'x24' porch and a steel interior liner package, ensuring it has everything needed to create the ultimate hobby space.



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Shouse

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SIZE:

60'x90'x18', 60'x45'x9'

ROOF PITCH:

4/12

DOORS:

Gerkin, Bayer Built

FASTENERS:

Wick Buildings

FOUNDATION:

Concrete, Mono Slab EZ Artic Form

INSULATION:

Flash and batt, 1.5" spray foam then fiberglass blankets. Attic, cellulose R60

POSTS:

Wick Buildings

ROOF PANELS:

Wick Buildings

TRUSSES:

Wick Buildings

WALL PANELS:

Wick Buildings

WINDOWS:

Gerkin

ADDITIONAL FEATURES:

- Timber frame and cedar wrapping to mimic timber framing gables and porches
- Double herringbone with shiplap on fireplace
- Tray ceiling in master bedroom
- Onyx walk-in shower for master bath and soaker tub
- Hidden walk-in pantry in kitchen

This is a true shouse, with a house on one side and a thriving tool distribution business on the other. The business area serves as showroom, with a warehouse and garage for the three route trucks, and an employee apartment. The house is wide open with a vaulted main area and a very large hidden walk-in pantry. The master bedroom has a tray ceiling, and the master bath has large soaker tub, onyx walk-in shower, large walk-in closet, concrete storm shelter that doubles as a mechanical room, additional bedrooms, bathroom, and an office. The outside front porch features two gables, one clad in LP SmartSide shakes. The other is a cedar-wrapped truss to mimic timber framing. The porch columns are solid fir, and the main gable has fir posts for a timber-framed accent. The back porch is wide open to overlook the peaceful backyard.



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Hobby Shop

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SIZE:

40'x60'x15'

ROOF PITCH:

6/12

DOORS:

Clopay, 5000 Series 2-10'x10', 10'x12', 12'x14'

FASTENERS:

Levi's, 1.5" Pro-Z

FOUNDATION:

8" CMU, 12" AFF

INSULATION:

4.5" open-cell sidewalls, 12" cellulose attic

POSTS:

2"x6" SPF studs, 24" o.c.

ROOF PANELS:

Certainteed, Carriage House

TRUSSES:

Precision Truss, 40', 6/12, 24" o.c., parallel chord porch trusses

VENTILATION:

MRV center vent soffit, shingle over ridge vent

WALL PANELS:

Metal Exteriors, 28ga Elite panel in textured Rustic Red

WINDOWS:

ProVia DH, Endure Series 36"x48" and 36"x60"

CUPOLA:

Good Directions Kent Vinyl 42"sq.x54" h.

SPECIAL INTERIOR FEATURES:

Drywall sides with composite lumber toe kick, 28ga ceiling panels

ADDITIONAL DETAILS:

ProVia entry doors, 20ga steel Legacy Series

This attractive, yet practical hobby shop nestled in an idyllic setting, features four service doors for convenient access for large vehicles, covered man-door entrances, and Rustic Red wall panels and carriage house roof panels for a traditional look.





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ExxoTec Elite PVC fabric

TRUSSES:

Legacy Building Solutions,
solid steel I-beam frames, hot-dip galvanized to ASTM A123 standards

PRECAST CONCRETE PANELS:

Hanson Silo Company

CONVEYOR SYSTEMS:

Doyle Equipment Manufacturing Co.

Being able to customize a structure for the needs of a building owner is one thing. The ability to customize it to the future needs of a customer is another matter altogether. Brent Benike is the general manager for Northern Farmers Co-op in Williams, Minnesota. Their organization had needed more fertilizer storage space for quite some time, but they wanted a building that could be expanded and modified based on future needs.

The changing nature of the farming business was one of the drivers for expanding the co-op's fertilizer situation. With equipment becoming more sophisticated, farmers can get their crops in the ground faster than ever (weather permitting). Consequently, fertilizer businesses have to be ready all the time. "You have to be at capacity to be able to handle that in today's ag world," said Benike. "Product has to be on hand so you can get it out the

door quickly."

Northern Farmers Co-op had an old elevator that it tore down to expand its fertilizer capacity, and they came to Legacy Building Solutions to design a new tension fabric building that fit on the company's land, which is hemmed in by a railroad on one side and a state highway on the other. Fitting structures into existing spaces is business as usual for Legacy. The company customizes every building it creates by utilizing steel I-beam construction for the frame. High-strength PVC fabric cladding is used for the roof, sidewalls, and end walls.

Northern Farmers plans to eventually add a volumetric floor blender in the new building, so extra space was provided for that. The co-op also chose to use precast concrete walls to create bins inside the structure, something Legacy often recommends. While the railroad and the highway prevent the new building from being




wider, its length could be expanded. An old Quonset hut is almost ready to be torn down, and Benike plans to expand the building into that space. By communicating those expansion goals up front, it gave Legacy's engineering team the opportunity to design end walls that will accommodate that growth.

Fertilizer storage can be hard on steel. As Benike puts it, "Everything that fertilizer dust touches wants to corrode." Legacy offers a range of epoxy coatings for the steel frames. Northern Farmers Co-op opted for hot-dipped galvanized steel frames, plus an interior fabric liner that seals the frames off to prevent contact with fertilizer dust.

Benike said the cost of their new fertilizer structure was about half of what a traditional stick building would be. "We needed reasonably priced storage," he said. "We didn't feel like a traditional building was going to fit our budget."

The building is in a busy tourist area near northern Minnesota's Lake of the Woods, and Benike says he's gotten comments about how attractive the storage facility is. While conducting research, Benike visited Legacy's central Minnesota headquarters to see their range of fabric structures — from the steel manufacturing plant to the paint shop to the main offices. "It made us a believer pretty quickly," he said.






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Grace Roofing

SIZE:

<https://gracerooftingcontractor.com>

FASTENERS:

Atlas, #10X1" Ultralo/wafer pancake head wood screw, stainless steel pop rivets, Charcoal FBF43SGY

ROOF PANELS:

Best Buy Metals, 26ga Titan Loc 100 16" Wide 40 yr., Charcoal

ADDITIONAL DETAILS:

Special Trim

Titan-Loc 100, Denver Extended

Eave 10'0" 26ga, Charcoal

Titan-Loc 100, Offset Cleat 10'0" 26ga, Charcoal

Titan-Loc 100, Flat Ridge 10'0" 26ga, Charcoal

Titan-Loc 100, Denver Box Rake

14'0" 26ga, Charcoal

Titan-Loc 100, Box Sidewall 10'0" 26ga, Charcoal

Special Trim 26ga, Charcoal

This amazing waterfront home features an eye-catching structure on in a beautiful rural setting. Best Buy Metals facilitated the metal roofing and trim/accessories for this project.



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Storage/Garage

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SIZE:
45'x50'x16'

ROOF PITCH:
4/12

FOUNDATION:
Pro Footer Bracket

POSTS:
Rigid Ply Rafters, 3 Ply 2"x6"

ROOF PANELS:
Cherry Creek Metals, Taupe 36"
Ag Panel 29ga

WALK DOORS:
Two Plyco, 2 Series 3068

OVERHEAD DOORS:
North Central

TRUSSES:
Western Building Supply

WALL PANELS:
Cherry Creek Metals, Lite Stone 36"
Ag Panel 29ga

WINDOWS:
Four Plyco, 4030 Stepsaver with grids

VENTILATION:
MWI gable louvre

GUTTERS:
Flo Tek Gutters, 5" Steel K-style

SPECIAL FEATURES:
4" Rebar Reinforced Concrete

ADDITIONAL DETAILS:
Cupolas, Royal Crowne

Wainscot, Taupe & LiteStone 36",
48" Taupe

This 45'x50'x16' storage building has enough room for the owner's fifth-wheel camper, plus space to park ranch vehicles out of the weather. It's fully insulated with 2" spray-foam insulation and a blown-in cellulose ceiling. The 4' Taupe wainscot nicely accents the Lite Stone side panels. Natural lighting is also utilized through the 3' translucent panels along each side.





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Multipurpose Shop

FARROW BUILT

www.farrowbuilt.ca

SIZE:
40'x76'x19'

ROOF PITCH:
4/12

DOORS:
Steel Craft

FASTENERS:
Metal Experts, #14x1.25

FOUNDATION:
Farrow Built, cast-in-place 8" foundation wall

INSULATION:
R28 Batt Insulation

POSTS:
Farrow Built, 5-Ply 2"x8"

ROOF PANELS:
Metal Experts, 29ga Charcoal

TRUSSES:
Kamloops Truss

VENTILATION:
Flex-O-Vent ridge venting

WALL PANELS:
Metal Experts, 29ga Olivia Green

This shop was built on a sloped site with a 10' retaining wall foundation in the rear. Access to the living suite is ground level at the rear of the building. There is a garage and an office under the suite. The owner will have his hired property caretaker stay in the suite. He'll be storing RV's in the large bays and the office area will be a place to hang out with the boys. The deadline for the build was March 1, 2024, and it was finished on Feb. 29, 2024. Good thing it was a leap year!





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<https://blunierbuilders.com>

SIZE:

34'x53'x10' Home
48'x 48'x12' Garage
4,106 sq. ft.

ROOF PITCH:

Main: 8/12
Garage: 4/12

FOUNDATION:

Blunier Builders

TRUSSES:

CIT

ROOF PANELS:

McElroy Metals, Max Rib, Matte Black

WALL PANELS:

McElroy Metals, Max Rib, Charcoal

FASTENERS:

SFS

OVERHEAD DOORS:

Raynor

MAN-DOORS:

Plyco & Therma Tru

POSTS:

Blunier Builders

WINDOWS:

AJ Harmony

VENTILATION:

Vented ridge, vented soffit

INSULATION:

Walls: 3" Sealtie sprayfoam
Ceiling: Blown fiberglass

This attractive bardominium features two bedrooms, two bathrooms, a steel-lined attached garage with vaulted ceiling, multiple CedarTone porches, including a) 20'x15' screened-in porch, 12" roof overhangs, 3'x7' custom cedar mansard, steel-wrapped chimney and fireplace, and a utility room that doubles as a storm shelter.



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NEW PRODUCTS



S-51 Unwells New Clamp for Riverlock Profiles
 S-51, the inventor of engineered, manufactured, metal roof attachments, introduced its new S-5-RC™ clamp for attaching a wide range of roofing accessories to the Riverlock™ metal roof profile. The two-piece design of the S-5-RC interfaces with the rib geometry and creates a mechanical interlock strong enough to mount most rooftop applications with certified holding strength, protecting the roof from corrosion and preserving the metal panels' thermal cycling characteristics. Applicable for small- and large-scale industrial, commercial and institutional projects, the clamp can be installed anywhere along the seam for placement flexibility. Installers can utilize the S-5-RC with rails or pair the clamp with the S-51 PVKIT™ solar solution for streamlined rail-less and penetration-free solar mounting to save time and money. Made of high-tensile structural aluminum to match Riverlock's long-lasting performance, the S-5-RC requires no maintenance or reinspection and is warranted for the life of the roof.

New Stanley's Control-Lock™ Tape Measures
 Stanley has released the new Control-Lock tape measures that feature an integrated finger brake, providing users with maximum control and protection when extending and retracting the blade. Coming in lengths of 12, 16, 25, 26, and 30 feet, they're made to reach out to 12 feet. Features listed:
 • An integrated finger brake that provides improved control of the blade when measuring and retracting



Malco Products Expands Line of C-RHEX Drivers
 Malco Products, SBC, one of the nation's leading solution developers and manufacturers of a variety of high-quality tools for the building trades, today launched an extension of its line of award-winning, Cleasable, Reversible Magnetic Hex Drivers: the Building Construction Series, which features deeper sockets for installing fasteners with higher head heights such as concrete anchors, pole barn screws and other common fasteners for roofing, siding and gutter applications. The C-RHEX Building Construction Series models are available in six lengths from 2" through 12". Reversible 1/4" and 5/16" hex sockets allow for quick changes between sizes, and the Building Construction Series drivers are designed to work effectively with painted fasteners, as well as specialized pulls in the internal sockets prevents fastener sticking. End-users can save valuable time and effort by having access to two reversible hex sizes in one driver with color-coded grooves for easy identification. These drivers are built with S2 hardened steel



Bosch: New Cordless Rotary Hammer Has Corded Power
 Bosch has released a new cordless rotary hammer that it says has the power of a corded tool. The concrete rotary hammer is called the Proxactar 18V SDS-max 1.5/18" Rotary Hammer (GBH18V-40C) and outperforms its corded counterpart, the Bosch 11264EVs, according to Bosch. Features listed:
 Cordless Design: Delivers corded hammer performance, with 6.7 Ft.-lbs. of impact energy (EPTA) powered by a single 18V CORE18V 8 Ah or 12Ah battery, making concrete work easier. KickBack Control: Reduces the risk of sudden tool reactions in binding conditions. Soft Start and Controlled RPM: Adjusts the tool rpm and bpm for more controlled drilling and chiseling applications when working with softer materials like brick and tile. Anti-Vibration System: Helps to reduce tool vibration, due to the longer air cushion built into the hammer tube and dampers added in the handle. Lock-On/Off Button: Keeps the tool running when locked on (hammer mode only) and helps prevent accidental activation of the tool trigger when locked off.



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