

Butler[®] Roof Systems

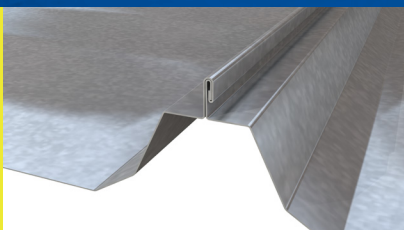
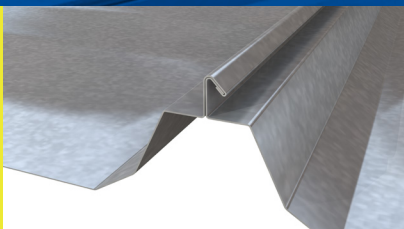
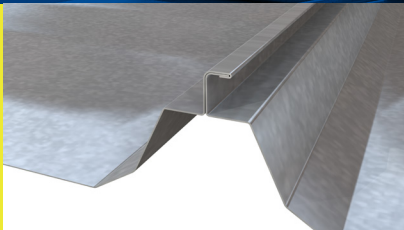
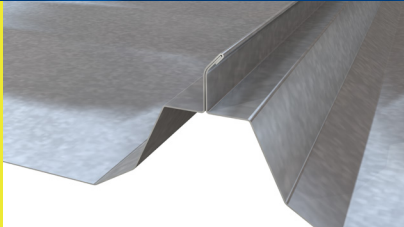
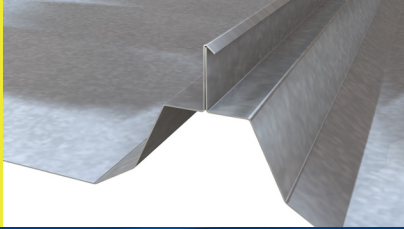
Explore the Butler Difference





Roof Systems

See The MR-24 Difference



The Pittsburgh double-lock seam creates a weathertight roof surface.

MR-24® Roof System

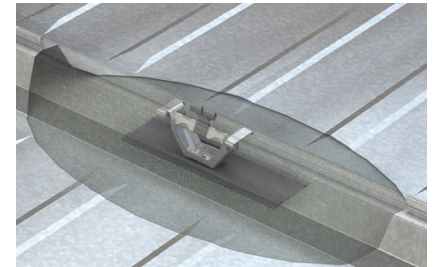
Exclusive factory-punched precision in the most-specified standing-seam roof system.

The MR-24® roof system is specified twice as often as any other standing-seam roof system—more than 3 billion square feet have been installed since 1969. It is the standard by which all other roofing systems are judged. And as a material-efficient, recyclable, low-maintenance, and long-life roof solution, it also offers compelling green attributes.

The MR-24 roof system acts like a single steel membrane to protect your entire building with exclusive features that ensure weathertightness—factory punching, moveable roof clips, 360-degree Pittsburgh double-lock standing seams, and staggered endlaps. All accessories and integrated panels are also engineered for exact fit.



Butler's exclusive Roof Runner® completes the industry's only field-formed 360-degree Pittsburgh double-lock seam.



Engineered for thermal expansion and contraction.

Features

APPLICATIONS

- Retail
- Warehouses
- Manufacturing plants
- Schools
- Gymnasiums
- Airplane hangars
- Other larger structures

KEY ATTRIBUTES

- Factory punching ensures precise alignment
- Mechanically seamed 360°
- Roof clip is super secure, yet allows roof movement
- Staggered panel splices prevent four panel lap
- Butler Scrubolt™ fasteners have twice the pullout strength of self-drillers
- Optional thermal spacer blocks avoid "thermal short circuit" between purlin and roof panel

PROFILE

- 24" wide
- 2 major 2-3/4"-high corrugations
- Cross-flutes on 6" centers reduce wind noise and improve walkability
- Roof slope minimum 1/4" in 12"
- 24 gauge standard, 22 gauge optional

MEETS ALL PERFORMANCE STANDARDS

- Complies with U.S. Army Corps of Engineers Unified Facilities Guide Specifications (UFGS) for Structural Standing Seam Metal Roof (SSSMR) Systems
- UL Class 90 Uplift Rating
- Uplift testing performed in accordance with ASTM E 1592
- FM Global Roof Panel System
- Miami-Dade County, Florida, approved

FINISH CHOICES

- Unpainted Galvalume®
- Butler-Cote™ finish system of 70% Kynar 500® or Hylar 5000® fluoropolymer coating guaranteed not to blister, peel, crack, chip, or experience material rust-through for 25 years
- Standard colors and custom color options available

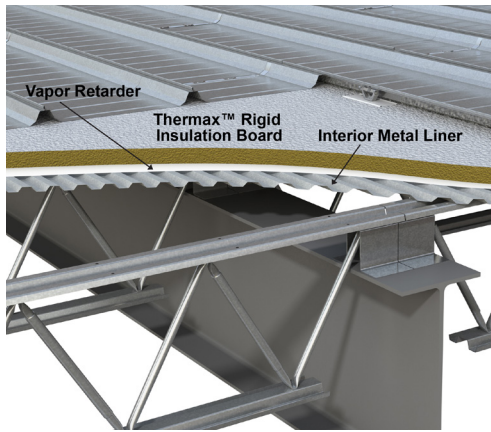
FM Global and UL ratings may result in lower wind damage insurance premiums for your new building.



CMR-24[®] Roof System

The industry standard, insulated for energy efficiency.

The CMR-24[®] composite roof system takes all the strength, flexibility, and weathertightness of the MR-24[®] roof system and adds the superior energy-saving features of a layer of rigid insulation board and an interior liner.



The CMR-24 roof system adds a layer of rigid insulation board and an interior liner to the MR-24 roof system for superior energy efficiency.

Features

APPLICATIONS

- Retail
- Warehouses
- Manufacturing plants
- Schools
- Gymnasiums
- Airplane hangars
- Other larger structures

KEY ATTRIBUTES

- Includes all the features of the MR-24 roof system plus—
- Superior-quality rigid board insulation in a variety of thicknesses and R-values
 - Attractive corrugated interior steel liner
 - Vapor retarder to provide vapor control and prevent condensation

MEETS ALL PERFORMANCE STANDARDS

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FINISH CHOICES

- Unpainted Galvalume[®]
- Butler-Cote[®] finish system of 70% Kynar 500[®] or Hylar 5000[®] fluoropolymer coating guaranteed not to blister, peel, crack, chip, or experience material rust-through for 25 years

THE CORRUGATED STEEL LINER

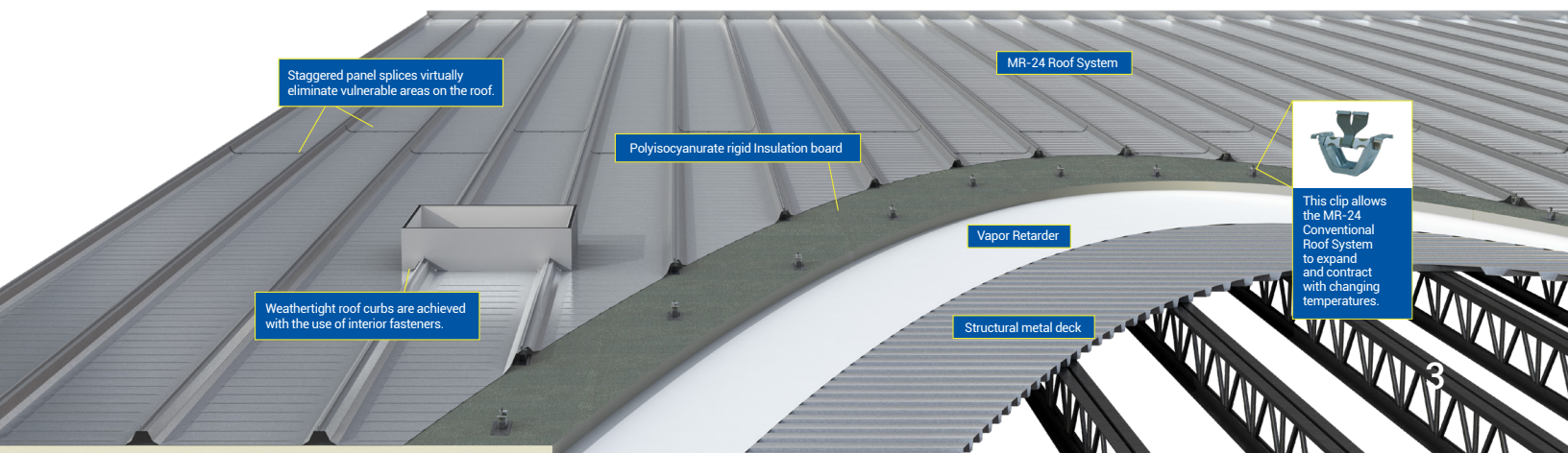
- Protects the insulation
- Acts as a diaphragm to transfer loads throughout the roof system
- Is easy to clean
- Gives the interior a more finished look
- Comes in a painted white finish or unpainted Galvalume finish*

*Now available in all BR II wall colors

The MR-24[®] Conventional Roof System

Proven to deliver superior protection and efficiency on your conventional

The industry's number one standing-seam metal roof system with added energy efficiency on your conventional building or reroof project. A unique clip allows for attachment to the structural deck with self-drilling fasteners.



Staggered panel splices virtually eliminate vulnerable areas on the roof.

Polyisocyanurate rigid Insulation board

MR-24 Roof System

Vapor Retarder

Structural metal deck

Weathertight roof curbs are achieved with the use of interior fasteners.



This clip allows the MR-24 Conventional Roof System to expand and contract with changing temperatures.



Roof Systems

Butlerib® II Roof System

The economical roof system available with an optional 10-year weathertightness warranty.

The Butlerib® II roof system—the best through-fastened roof system in the industry—is weathertight and economical to install and maintain.



The Butlerib II system is the best through-fastened roof system in the industry.

Features

APPLICATIONS

- Small industrial
- Small community
- Distribution and warehouses

KEY ATTRIBUTES

- Outstanding value leader
- Designed to AISI specifications
- Slots allow for expansion/contraction
- Grooves assure proper sealant application
- Optional Butler Lock-Rivet™ fasteners enhance weathertightness

PROFILE

- Panel width 36"
- Four 1-1/2" - high major corrugations
- 1/8" - high minor corrugations
- 26 or 24 gauge

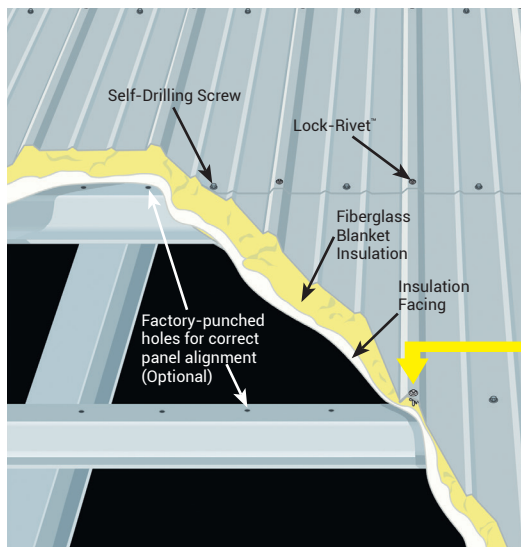
MEETS ALL PERFORMANCE STANDARDS

- UL Class 90 Uplift Rating
- FM Global Roof Panel System
- Miami-Dade County, Florida, approved
- U.S. Army Corps of Engineers CEGS 07416 Certification

FINISH CHOICES

- Unpainted Galvalume
- Butler-Cote finish system of 70% Kynar 500 or Hylar 5000 fluoropolymer coating guaranteed not to blister, peel, crack, chip, or experience material rust-through for 25 years
- Standard colors and custom color options available

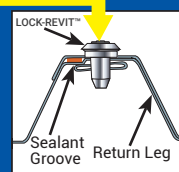
Factory punched panels (optional) ensure accurate endlap alignment and easy installation, while Butler's exclusive "return leg" provides extra support at the sidelaps.



Why the Butlerib® II Roof System Beats the Competition

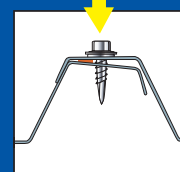
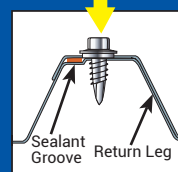
To provide added support against roof traffic, Butlerib® II roof panels incorporate a return leg on all sidelap connections.

Butler Method



Other Manufacturers

Downward Pressure





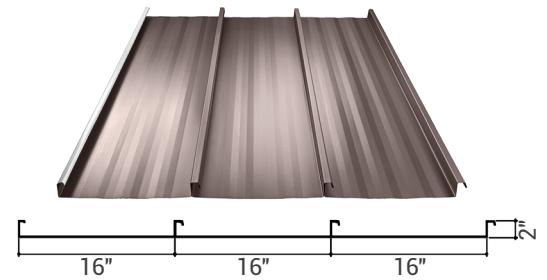
VSR II™ Architectural Roof System

Combine design flexibility and aesthetics with this versatile standing-seam roof system.

The VSR II™ architectural standing-seam system combines the quality appearance of a batten roof system with the strength and performance of a structural roof system.

Flexible enough for your most imaginative and unique projects, the VSR II system accommodates even the most complex roof geometries and popular details such as continuous roof-to-fascia designs (not recommended in snow areas). The VSR II roof system can be used as a structural roof system or placed over roof deck materials as a nonstructural roof system—

- Spans structural members spaced up to 5' on centers as a structural roof system
- Structural spanning capability often results in lower cost



Features

APPLICATIONS

- Office buildings
- Municipal
- Condominiums
- Auto dealerships
- Healthcare facilities
- Banks
- Churches
- Retail
- Libraries
- Schools

KEY ATTRIBUTES

- Roof clips allow up to 2-1/2" of movement
- Return leg is machine seamed
- Factory-applied sealant
- Splices occur over supporting steel
- Optional blanket insulation up to 6"
- Optional thermal block to avoid "thermal short circuit" between purlin and roof panel

PROFILE

- Panel width 16"
- Prepainted fasteners match panel color
- Roof slope $\geq 1/4"$ in 12"
- 24 gauge standard, 22 gauge optional

MEETS ALL PERFORMANCE STANDARDS

- Complies with U.S. Army Corps of Engineers Unified Facilities Guide Specifications (UFGS) for Structural Standing Seam Metal Roof (SSSMR) Systems
- UL Class 90 Uplift Rating
- Uplift testing performed in accordance with ASTM E 1592
- FM Global Roof Panel System

FINISH CHOICES

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- Butler-Cote™ finish system of 70% Kynar 500® or Hylar 5000® fluoropolymer coating guaranteed not to blister, peel, crack, chip, or experience material rust-through for 25 years
- Standard colors and custom color options available



Roof Systems

Retrofit Metal-Over-Metal System

The Butler low-profile and high-profile retrofit systems.

The low-profile and high-profile systems each allow installation of an MR-24® or VSR II™ standing-seam roof system—with unique factory punching and staggered endlaps to provide optimum weathertightness—over an existing through-fastened rib-type roof.

Whether you're specifying for a cavity depth under or over 3," the low- and high-profile systems each feature a complete line of accessories, including stainless steel gutters, as well as all the benefits of the industry-leading MR-24 and VSR II roof systems.

Features

APPLICATIONS

- Retrofit for existing through-fastened rib-type roofs or standing-seam roofs for high-profile systems

KEY ATTRIBUTES

- Complete line of integrated engineered products
- Minimum slopes of 1/4" in 12" (MR-24) or 1/2" in 12" (VSR)
- Clip design accommodates movement in roofs up to 250' wide

LOW PROFILE

- 1-1/2" cavity height, MR-24 roof system only
- Panel support blocks rest on the flats of the existing panel to transfer loads to existing structural members

HIGH PROFILE

- >3" cavity height
- Metal spacers allow thicker insulation
- Also used with VSR roof system



Slope Build-Up Retrofit System

A fully engineered reroof solution from Butler.

This is the industry's premier custom reroofing solution, combining high-quality Butler roof systems to mesh with a building's existing roof slope design, no matter how complicated.

The MR-24 roof system is used for low-slope roofs with a minimum slope of 1/4" in 12". For higher-slope applications where the roof plays an important role in the building's appearance, the VSR architectural roof system may be used.

Features

PROFILE

- Uses industry-leading MR-24 roof system for low-slope areas
- Field-cutting of vertical components for maximum flexibility
- Slope Build-Up framing system accommodates the VSR II roof system for higher-slope areas



A Butler reroofing system is a long-term solution that saves the cost and inconvenience of tearing off an existing roof.

Roof Insulation & Daylighting

ThermaLiner™ Insulation System

A superb insulation option for Butler roof systems.

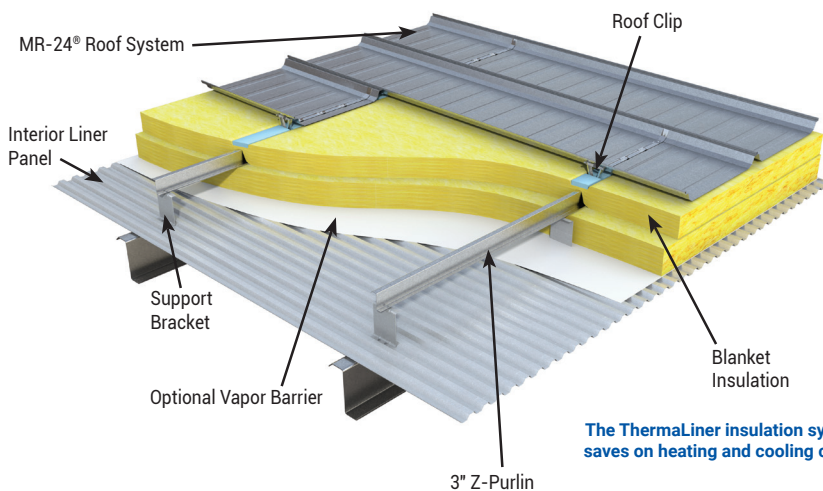
The ThermaLiner™ insulation system incorporates all the benefits of the MR-24®, VSR II,™ or Butlerib® II roof systems while providing the additional advantages of an interior liner panel, superior thermal efficiency to R-40, condensation control, and acoustic properties.

Features

KEY ATTRIBUTES

- R-values available up to R-40
- Vapor retarder controls condensation
- Liner offers finished interior look*
- Noise reduction
- Can be installed on any new Butler structural system or as a retrofit system

*Color options



The ThermaLiner insulation system saves on heating and cooling costs.

SunLite Strip® Daylighting System

A simple, superior way to reduce energy costs.

The SunLite Strip™ daylighting system adds natural daylight, energy savings, and occupant comfort to any Butler® building featuring the MR-24® roof system—new or retrofit applications.

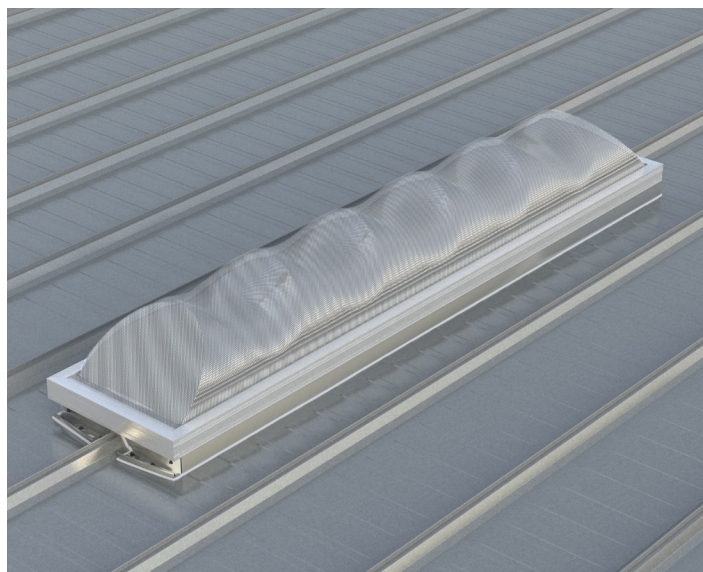
Features

APPLICATIONS

The versatile system can be integrated with lighting controls for new construction or retrofit applications.

KEY ATTRIBUTES

- Reduces electrical lighting consumption and lighting costs up to 70% when integrated with lighting control systems
- Design can reduce roof penetrations by 30%—reducing field labor and protecting the weathertight integrity of the MR-24® roof system
- Prismatic polycarbonate domed technology adds up to 3 times the amount of light earlier and later in the day vs. translucent panels
- Can provide a return on investment (ROI) in an average of 3 to 5 years



Experience the Butler Difference.

Butler Builders—offering single-source responsibility and complete construction services. Find your local Butler Builder® at www.butlermfg.com.

High-performance products—such as acrylic-coated galvanized C/Z purlins and girts, and structural and wall systems that integrate easily with conventional building materials.

Butler-Cote™ finish—only Butler offers this superior full-strength Kynar 500® or Hylar 5000® Fluoropolymer finish system as the standard exterior finish on all painted panels and trim.



Butler Manufacturing
Kansas City, MO
816-968-3000

www.butlermfg.com

Butler® building products are constantly being improved; therefore, the information contained herein is subject to change without notice. Before finalizing project details, contact your nearest Butler Builder® or Butler Manufacturing™ for the latest information.

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