Butler Manufacturing Company is the industry’s leading provider of roofing solutions that address the most critical concerns of architects, builders, and building owners. From new construction to retrofit, and from low-slope systems to soaring rooflines, you’ll find the beauty you desire and the protection you need in the many roofing offerings from Butler.

Butler has maintained a reputation for quality in the building industry for more than 100 years. We use only the best materials and innovative procedures, fabricating roof systems engineered to stand the test of time. That might be all you need in a roof, but it isn’t all you get with Butler.

When you specify Butler® roof systems, you enter into a uniquely collaborative relationship. From concept through project completion, you benefit from dependable support and technical guidance. Butler experts work with you to make optimum component choices.

With Butler as your partner, you see reduced development and construction times—a fast track from commencement to occupancy. Consistent, dependable long-term technical guidance starts during design and lasts until completion and beyond.

Critical to Butler’s capability to deliver precision-engineered building systems and components are Butler Builders®, independent construction professionals who undergo comprehensive training provided by Butler. Strategically located throughout the world, Butler Builders provide—

- Outstanding project management expertise
- Construction capability to ensure that your project is built on time—and within budget
- Unequaled turnkey service

To learn more about how Butler Builders can help ensure the success of your project, visit www.butlerbuilder.com.

You want your building to be constructed with the same precise standards you put into the design. Butler roof systems offer optimal control to make sure those standards are met, top to bottom.

As the industry leader, Butler has a roof for every building design, from low-slope to complex roof geometries, and for new construction or retrofit. Use the Product Selection Chart on the next page to choose the right Butler system for your project.
Butler is a member of the U.S. Green Building Council and is dedicated to providing better-performing roof systems with attention to sustainability. The MR-24® roof system, for instance, offers compelling green attributes as a material-efficient, recyclable, low-maintenance, and long-life roof solution. Butler roof systems also enhance energy efficiency to lower energy consumption inside the building.

**SUSTAINABLE ARCHITECTURE**

Butler offers a selection of sustainable 25-year fluoropolymer color finishes that meet reflectance and emittance standards for “cool roofs” as certified by the CRRC. All finishes applied by Butler meet or exceed EPA regulations for low-VOC paints.

**GUARDED HOT BOX**

Butler’s commitment to environmental responsibility is longstanding, and the company has a proven history of developing innovations that contribute to the energy efficiency of its products.

A demonstration of this is one of the first guarded hot boxes in North America, which was built by Butler for the testing of actual R-values. This testing assures that thermal values provided by Butler are verifiable and can be trusted.

**COOL ROOFS**

Butler roof products featuring the Energy Star label keep buildings cooler by increasing reflectivity and reducing energy use, utility costs, and air pollution. Butler cool roofs reduce the Heat Island Effect, which produces high relative temperatures in urban areas.
The MR-24® roof system is specified twice as often as any other standing-seam roof system—more than 2 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.

With the best roof warranty available in the industry—25 years for panel finish protection and weathertightness—the MR-24 roof system is the best insurance for the long life of your building.

**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
- Splices over standing steel for strength
- Staggered panel splices prevent exposed seams
- Butler Scrubolt® fasteners have twice the pullout strength of self-drillers
- Optional thermal spacer blocks avoid “thermal short circuit” between purlin and roof panel

**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

**PROFILE**
- 24“ wide
- 2 major 2”-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
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** (steel roof deck).

APPLICATIONS
- Retail
- Manufacturing plants
- Gymnasiums
- Other larger structures
- Warehouses
- Schools
- Airplane hangars
- Uplift testing performed in accordance with ASTM E 1592
- FM Global Roof Panel System
- Miami-Dade County, Florida, approved

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

**The acoustic characteristics of rigid foam board insulation may not be suitable for certain building applications.

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.

Factory-cut and punched panels (optional) ensure accurate endlap alignment and easy installation, while Butler’s exclusive “return leg” provides extra support at the sidelaps.

APPLICATIONS
- Small industrial
- Small community
- Distribution and warehouses
- U.S. Army Corps of Engineers CEGS 07416 Certification

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 corrugations
- ⅜“-high minor corrugations
- 26 or 24 gauge
- 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

WWW.BUTLERMFG.COM/ARCHITECTS
VSR™ ARCHITECTURAL ROOF SYSTEM

The VSR™ 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 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 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

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

### KEY ATTRIBUTES
- Roof clips allow up to 2½” of movement
- Return leg is machine seamed
- Factory-applied sealant
- Splices occur over supporting steel
- Optional blanket insulation up to 6”
- Optional purlin spacer blocks avoid “thermal short circuit” between purlin and roof panel

### PROFILE
- Panel width 16”
- Fluted or nonfluted
- Prepainted fasteners match panel color
- Roof slope ≥ ½” 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
- 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

Both the clips and panels of the VSR roof system have a factory-installed sealant to prevent leaks from driving rains.
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™ 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 seamed-in curbs and stainless steel gutters, as well as all the benefits of the industry-leading MR-24 and VSR roof systems.

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

LOW PROFILE
- 1½" 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

KEY ATTRIBUTES
- Complete line of integrated engineered products
- Minimum slopes of ¼" in 12" (MR-24) or ½" in 12" (VSR)
- Clip design accommodates movement in roofs up to 250' wide

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 ¼" 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.

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

Precision-built to fit seamlessly.

Taking precision factory engineering to the next level, Butler offers a complete range of accessories fully engineered at the factory to fit seamlessly—and weathertight—into Butler® roof systems.

Studies show that 90% of roof leaks are due to poorly designed or installed roof penetrations. Butler’s exclusive factory punching eliminates misalignment, and an internal flange design not only conceals fasteners within the curb, but also further eradicates leaks.

THERMALINER™ INSULATION SYSTEM

A superb insulation option for Butler roof systems.

The ThermaLiner™ insulation system incorporates all the benefits of the MR-24®, VSR™, 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.

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 Butler structural system (see Sweets 13 34 19/BUT)