

# BUTLER® ARCHITECTURAL SYSTEMS

## BUILDING SYSTEMS DESIGN AND SELECTION GUIDE



BUILDING IN A NEW LIGHT®

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## TAKE A LOOK AT EVERYTHING BUTLER IS TODAY

Imagine combining the speed, precision, and performance of systems construction with unlimited design freedom. Working with Butler Manufacturing™ offers such advantages. As the industry leader for more than 100 years, Butler can bring your design vision to life beautifully with an integrated building systems solution.

Butler offers a wide array of architectural building solutions,



from the design freedom of our Hybrid solutions to systems and components that integrate seamlessly with conventional building materials. Design with metal or concrete walls. With Butler, there are no limits to what you can do.

Butler is also a BlueScope Steel Company. BlueScope Steel is a leader in the steel solutions industry, maintaining a strong commitment to the environment, workplace safety, and sustainable operations. This partnership has enabled Butler to offer you more resources, capabilities, and efficiencies than ever before. To learn more about BlueScope Steel, visit [www.bluescopesteel.com](http://www.bluescopesteel.com).

## SERVICE AND SUPPORT

When you specify Butler systems, you get comprehensive, coordinated project support from design through construction and beyond.

Butler professionals are experts in every phase of the process: matching the most efficient and economical system to your design needs, creating schematics and construction documents and interfacing with builders on-site.

You'll be involved throughout the course of construction in a unique way—but you won't be bearing the burden alone. The Butler Builder® can be your partner in—

- Consultation
- Performance analysis
- Site survey
- Code compliance
- Budgeting
- Design assistance
- Custom component design
- On-site construction guidance

### DESIGN INTEGRITY

Butler uses advanced technology and processes to improve quality, reduce production time, and lower costs. Butler also maintains the high-quality design standards required as a member of the Metal Building Manufacturers Association (MBMA).

**THE BUTLER BUILDER® ADVANTAGE**  
Critical to Butler's capability to deliver

precision-engineered building systems and components are Butler Builders. Butler provides these independent construction professionals—who are strategically located throughout the world—with comprehensive training to bring you—

- Outstanding project management expertise
- Unsurpassed construction capability
- Unequaled turnkey service

To find a Butler Builder® in your area, visit [www.butlerbuilder.com](http://www.butlerbuilder.com).

### CONTACT BUTLER

For more information, visit us on the web at [www.butlermfg.com](http://www.butlermfg.com) or call (800) 250-5596.

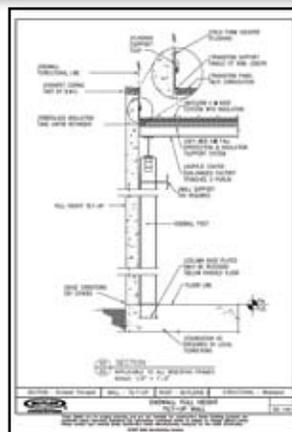
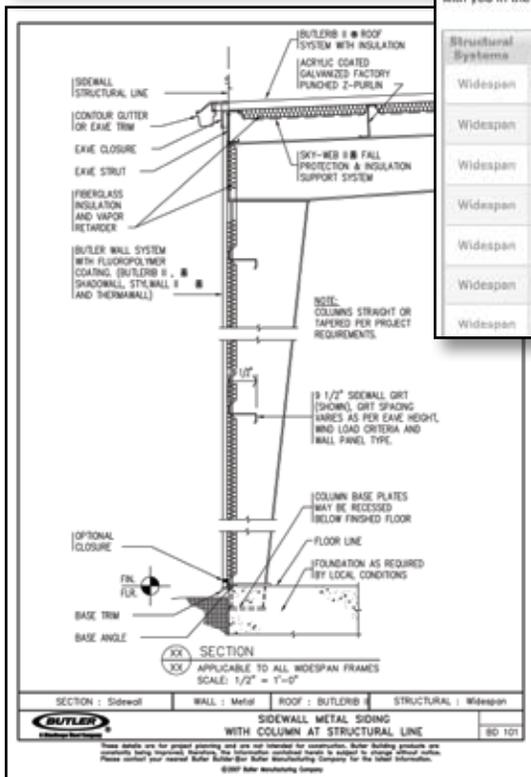
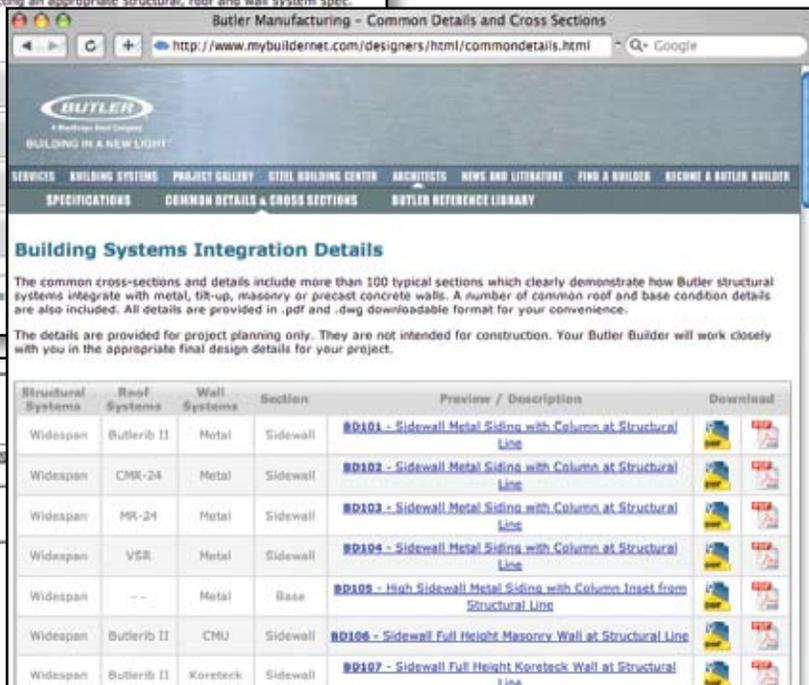
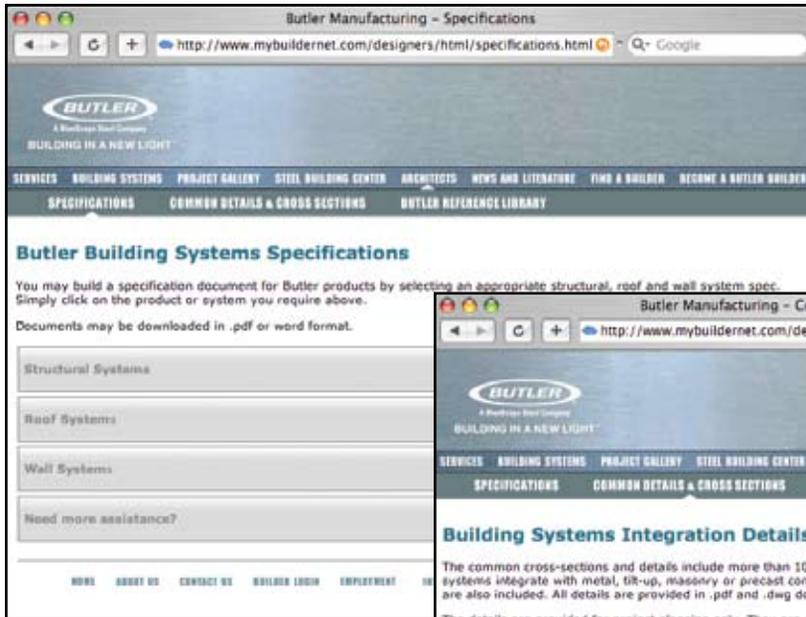
# DETAILS AND SPECIFICATIONS ONLINE

Butler is dedicated to providing designers the tools needed to incorporate Butler systems into any building design. Our website includes AutoCAD compatible details and Word formatted specifications. The easy-to-

navigate pages make it easier than ever to source Butler products.

You'll find more than 100 common architectural details and complete product specifications online. Just

go to [www.butlermfg.com/architects](http://www.butlermfg.com/architects), register to gain access to the site, and you're on your way.



Butler's online resources make it easier than ever to incorporate Butler systems into your building design.



# SELECTION CHART

## STRUCTURAL BUILDING SYSTEMS

	STRUCTURAL		ROOF SLOPE		PERIMETER WALLS		
	Bay Size	Multi-Story	Low	High	Metal	Non-Metal Load-Bearing	Non-Metal Curtain Wall
Widespan™	Up to 40 ft.		•	•	•	•	•
Landmark™ 2000	Up To 60 ft.		•		•	•	•
Multi-Story	As Required	•	•		•	•	•
Hardwall	Up to 60 ft.		•			•	

## ROOF SYSTEMS

### NEW CONSTRUCTION

	Structural	Architectural	Insulation	SEAMS			PERFORMANCE			
				Rib Height	Machine Seamed	Through-Fastened	UL-90 Classification	US Army Corps Tested	FM Global Available	Miami-Dade County Approved
MR-24®	•		Blanket/TLS†	2¾"	•		•	•	•	•
CMR-24®	•		Rigid Board	2¾"	•		•	•	•	•
VSR™	•	•	Blanket/TLS/Rigid	2"	•		•	•	•	
Butlerib® II	•		Blanket/TLS	1½"		•	•	•	•	•

### RETROFIT STRUCTURAL SYSTEMS

	Structural	Architectural	Cavity Height
Low-Profile Retrofit	•		1½" min. (roof has existing slope)
High-Profile Retrofit	•		3" min. (roof has existing slope)
Slope Build-Up Reroof	•	•	1¼"+ (provides added or new roof slope)

## WALL & FASCIA SYSTEMS

	Factory-Punched	Factory-Insulated	Panel Width	SURFACE OPTIONS				PANEL-TO-PANEL CONNECTION	
				Flat	Fluted/Fineline	Stucco Appearance	Embossed	Hidden Fasteners	Interlocking Panels
TextureWall™ Panel		•	42"	•		•		•	•
Butler Thermawall™ Fineline		•	42"		•		•	•	•
Butler Thermawall Fluted		•	42"		•		•	•	•
Butler Thermawall Flat		•	36"	•			•	•	•
StylWall® Fluted			16"		•		•	•	•
StylWall Flat		•‡	16"	•			•	•	•
Shadowwall™		Optional	36"		•				
Butlerib® II		Optional	36"		•				

†ThermaLiner Insulation System (pg. 13)

‡Includes 1" nom. rigid polyisocyanurate insulation board

## WIDESPAN™ STRUCTURAL SYSTEM

*The industry's leading rigid frame system.*

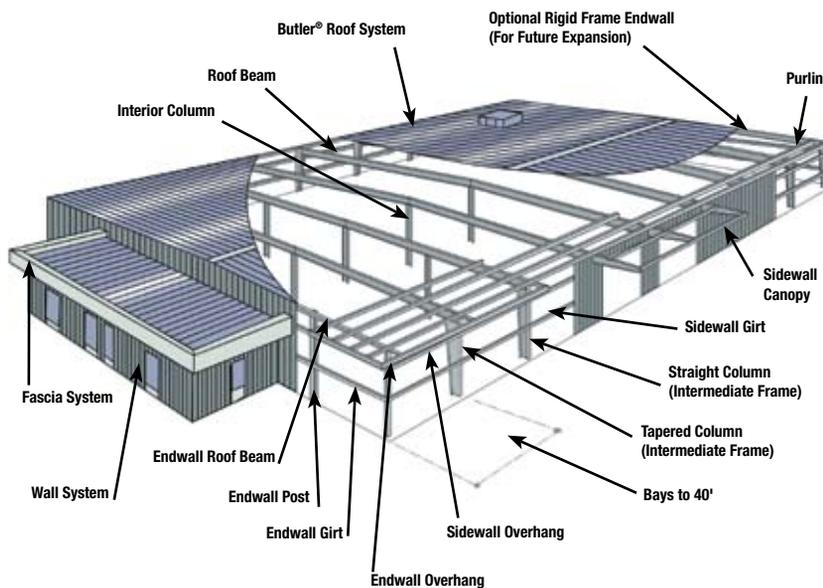
The Widespan™ structural system is Butler's basic building system. Economical, yet engineered and fabricated with a quality that sets the industry standard, the Widespan system proves the value of getting the fundamentals right.

For starters, only Butler provides factory-punched primary and secondary structural components—precision engineering that ensures timely, economical, and problem-free on-site assembly.

With bay spacing up to 40 feet, the Widespan structural system maximizes interior space. It features the proven practicality of a rigid frame and offers almost unlimited design flexibility.

The Widespan structural system uses acrylic-coated galvanized C/Z structural members. This finish is superior to primer paint and provides for a brighter interior finish than red oxide primer finishes.

When you choose the Widespan system, you know that Butler has already laid the groundwork for successful project execution—since all components are engineered to your exacting specifications.



The Widespan system features exclusive factory-punched components—precision engineering that ensures problem-free on-site assembly.

### APPLICATIONS

- Retail
- Offices
- Manufacturing
- Gymnasiums



### KEY ATTRIBUTES

- 40' maximum bay spacing (16'–40' in 6" increments)
- Roof slopes from ¼"–6" in 12" or greater
- Factory-punched components for precision assembly
- Acrylic-coated galvanized C/Z structural members

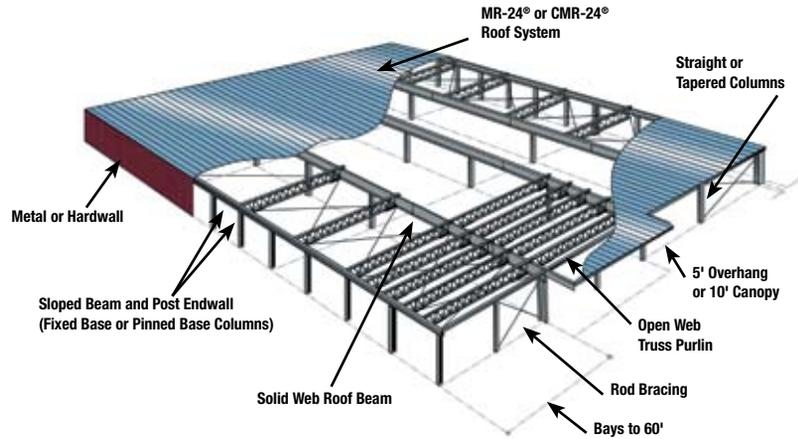
### SYSTEM DESCRIPTION

- LRF, MRF, or WX framing accommodates various roof slopes, extensions, and clearspan interiors
- Multi-span rigid frame
- Tapered or straight columns and roof beams
- MR-24®, CMR-24®, VSR™ or Butlerib® II roof systems
- Variety of metal and non-metal exterior wall systems
- Height: any height at ⅛" increments
- Width: unlimited
- Expandable endwalls available

## LANDMARK™ 2000 STRUCTURAL SYSTEM

*Maximum design flexibility for wide-open spaces.*

The Landmark™ 2000 structural system offers the benefit of Butler systems engineering while allowing bay lengths up to 60 feet. The system features open web truss purlins and rod bracing in the roof for strength in spanning larger bay designs. With its low slope, the Landmark 2000 structural system works best in applications where steep roof slope is not a design objective.



The Landmark 2000 system maximizes interior space with bays of up to 60 feet.

Butler creates components with design flexibility in mind, to accommodate any building geometry. Our team will work with you from start to finish to make sure the building is constructed to express your design in the most efficient, affordable way possible.



### APPLICATIONS

- Warehouses
- Manufacturing
- Aeronautics

### KEY ATTRIBUTES

- 60' maximum bay spacing (15'–60' in 6" increments)
- Roof slopes from ¼"–5⁄8" in 12"
- Factory punched components for precise alignment

### SYSTEM DESCRIPTION

- Solid web roof beam
- Exclusive factory-punched Butler open web truss purlins
- Tapered or straight columns
- MR-24®, CMR-24® roof systems
- Variety of metal and non-metal wall systems
- Height: any height at 1⁄8" increments
- Length or width virtually unlimited
- Expandable endwalls available



## HARDWALL BUILDING SOLUTIONS

*The industry's finest roof system meets conventionally built walls.*

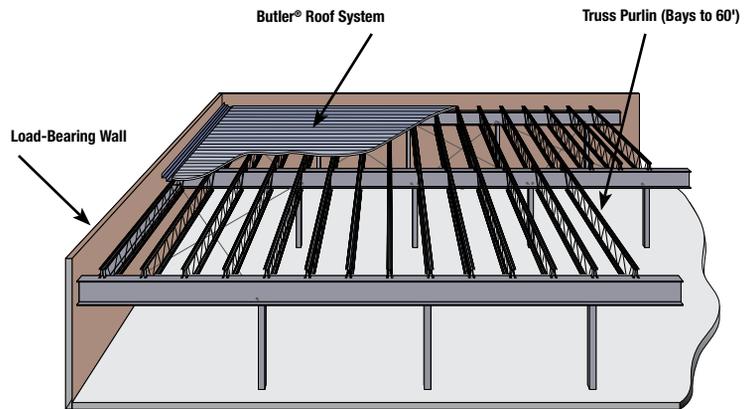
If your design calls for conventionally built walls—masonry, acrylic coatings, precast, cast-in-place, or tilt-up concrete wall systems—you can still take advantage of Butler's precision-engineered factory-built systems for a hybrid solution that offers the best of both worlds.

The industry's finest standing-seam roof system—the MR-24® roof system—integrates with almost any conventional non-metal load-bearing perimeter wall when you specify the unique Hardwall structural system. This system provides the opportunity to create traditional flat appearance elevations and roof lines utilizing conventional coping and flashing details.

You'll benefit from unlimited design flexibility, as well as fast and safe assembly.

### APPLICATIONS

- Offices
- Fire stations
- Strip malls
- Schools
- Multi and single units
- Large industrial
- Retail



Truss purlin design allows for maximum column-free space.



The Hardwall system combines conventionally built walls with the performance of Butler structural and roof systems.



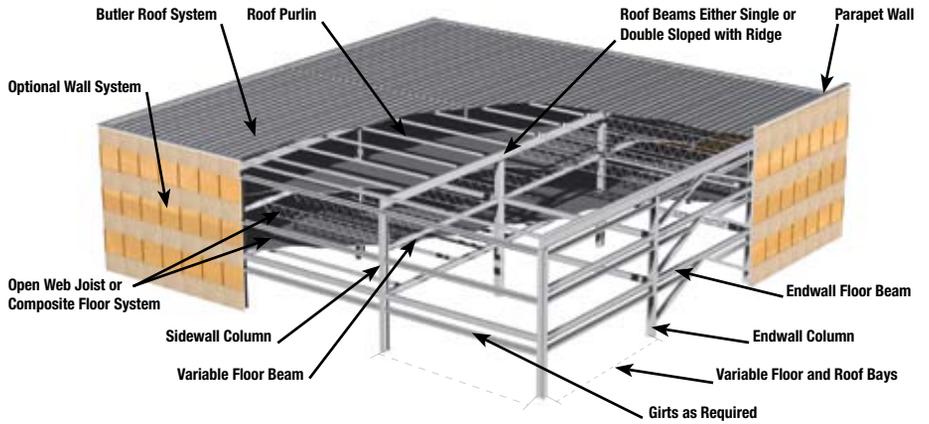
## MULTI-STORY STRUCTURAL SYSTEM

*Taking precision Butler engineering to a higher level.*

Butler provides even more design flexibility with a Multi-Story structural system that accommodates projects of up to eight stories.

You can benefit from the Butler single-source advantage by working with Butler's engineering team from start to finish to achieve the optimum solution for each of your multi-story design challenges—including unusual building shapes and heavy floor loads.

The Butler Multi-Story system uses industry-leading components for fast, on-budget project completion, giving you control of every stage of the process. And factory-fabricated components are designed for strength and ease of erection—resulting in savings of time and money.



The same Butler flexibility and versatility is available for multi-story projects.



Butler systems can be used for almost any multi-story building from two to eight stories.

### APPLICATIONS

- Offices
- Retail
- Schools
- Medical buildings
- Mixed use

### KEY ATTRIBUTES

- Projects of two to eight stories
- Accommodates conventional wall materials
- Bolted connections for fast assembly and fewer errors

### SYSTEM DESCRIPTION

- Choice of roof systems
- Choice of wall options (Butler systems or conventional wall materials)

## HYBRID BUILDING SOLUTIONS

*Design driven to achieve an optimal building solution.*

You may already know Butler to be the industry's leading manufacturer of steel building systems. But the capabilities of Butler only begin with high-performance systems construction.

Butler® building systems are also designed to seamlessly integrate with conventional building materials for a Hybrid building solution. A Hybrid building solution from Butler integrates three types of primary structural steel (mill beam, three plate members and truss girders or hybrid combinations) with secondary structural members – either Zee purlins, truss purlins or bar joists. Mezzanine or multi-story floor members are also included in a comprehensive structural design.

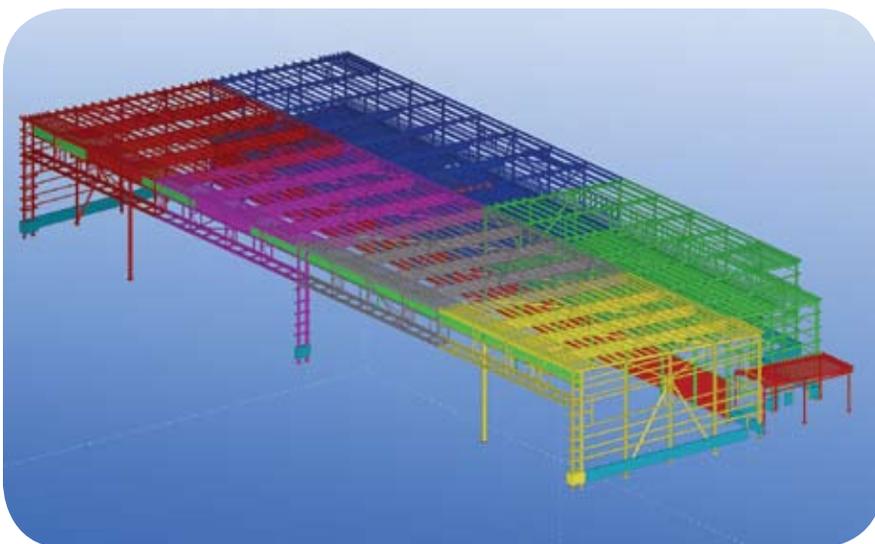
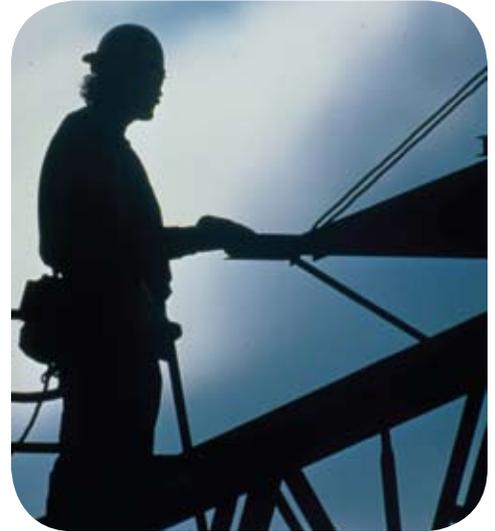
The Butler Hybrid building solution integrates any wall material - such as masonry, EIFS, concrete or our metal wall systems - with the structural

system, to create the desired architectural effect. Our factory-fabricated transition details mesh with non-metal wall materials without extensive field modifications.

The Butler Hybrid building solution can also accommodate building designs that call for a roof solution using metal deck and an appropriate membrane roofing material.

### DESIGN-DRIVEN FOR AN OPTIMAL SOLUTION

The preliminary design stage is the critical portion of your project. That's when our involvement in the earliest stages of project planning allows us to arrive at the most cost effective solution. Utilizing Tekla software, we efficiently detail complex structural designs and provide BIM interface if required.



## SKY-WEB II® FALL PROTECTION AND INSULATION SUPPORT SYSTEM

*Unique, easy-to-install safety systems.*

The Sky-Web II® system protects workers from falls and certain falling objects off the leading edge of a roof during construction. The innovative mesh system remains in place to act as an insulation support after the building is complete.

As a passive restraint system similar to an automobile airbag, Sky-Web II requires no worker initiative—no need to tie off with lanyards. It also allows free movement without tangling in safety lines or installing safety nets.

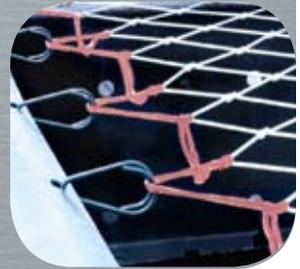
**Please note: Sky-Web II does not eliminate fall hazard from the non-leading-edge perimeter of the roof during installation.**

### KEY ATTRIBUTES

- Fall protection system
- Permanent insulation support system
- Made to order for most building configurations
- OSHA reviewed
- Light color blends with insulation facing

### SYSTEM DESCRIPTION

- 2¾" x 2¾" square grid of DuPont nylon type 6-6 twisted twine
- Leading edge: 6' strip of 30# twine, color coded for identification
- Supplied in widths up to 60' to reduce field splices



An alternate fall protection and insulation support system, Sky-Web®, is also available.

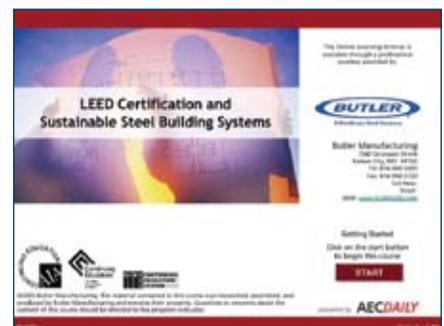
## AIA-CERTIFIED CONTINUING EDUCATION

Butler makes additional resources available to the architectural community through online continuing education seminars approved by the AIA.

The Butler **LEED Certification and Sustainable Steel Building Systems** seminar provides an overview of how the use of steel building systems can contribute to LEED certification, including a discussion of the characteristics of green building products, LEED requirements, and features of steel building systems. Our **Life Cycle Costs of Metal Roofing Products**

seminar provides an overview of the types, characteristics and benefits of metal roofing products, cool roofing, and related finishes as well as a comparison of Life Cycle Costs (LCC) of metal roofing versus conventional roofing systems.

You will qualify for 1.0 AIA/CES continuing education unit upon completion of either of these online courses. To learn more or to download a seminar, go to [www.aecdaily.com/en/303542](http://www.aecdaily.com/en/303542) or [www.aecdaily.com/en/1588021](http://www.aecdaily.com/en/1588021).



Convenient online seminars approved by the AIA.

## COMPELLING GREEN ATTRIBUTES

Butler building systems are inherently green, made with substantial percentages of recycled and recyclable steel. When you add Butler's own green technologies and practices, you have a sustainable building solution that offers a surprising level of affordability –

- Butler engineering optimizes a building design to enhance the most efficient use of raw materials
- Through extensive testing and computer modeling, Butler is able to optimize the amount of steel used to meet stringent building codes
- In many instances, lighter-weight structures can also reduce the size of footings and foundations, reducing the amount of concrete and steel used
- A high percentage of Butler components contain recycled scrap materials. By salvaging unused steel from consumer and industrial users, Butler creates an ecologically attractive way to complete building designs
- Butler buildings can be easily modified, providing a cost-effective means of construction and remodeling while also extending the life of the building

### CONTRIBUTING TO LEED®

Building with Butler can also earn credits toward LEED certification. Butler building

Credits potentially attainable by using Butler products are available in the following LEED credit categories—

Sustainable Sites 7.2—Heat Island Effect—Roof	1 credit
Materials and Resources 4.1—Recycled Content	1 credit
Materials and Resources 4.2—Recycled Content	1 credit
Exemplary Performance (when recycled content is 30% or better)	1 credit

*Because all building projects are unique, consult with your LEED-Accredited Professional to determine what LEED credits may be achievable with your building.*

systems have been used to help fulfill LEED-certified project requirements throughout North America, and Butler has LEED-Accredited Professionals on staff to guide and direct our commitment to building green.

### REGIONAL MANUFACTURING

Most Butler buildings products will ship 500 miles or less to the jobsite. This emphasis on regional manufacturing enables us to reduce the energy costs associated with shipping our products.



Ten strategically located plants bring production closer to building sites.

### LOW VOC PAINT FINISHES

All paint finishes applied by Butler meet or exceed EPA regulations for low-VOC paints. They are also factory applied to eliminate the air-quality issues related to field painting.



**Four of the six categories outlined by LEED that contribute to sustainability are applicable to Butler building systems—**

- Sustainable sites
- Energy and atmosphere
- Materials and resources
- Innovation and design process

### ENERGY-EFFICIENT SYSTEMS

Butler offers a range of energy-efficient roof and wall systems that can achieve a thermal efficiency rating of R-40 or more if required.

### COOL ROOF FINISHES

Butler offers sustainable 25-year color finishes that meet the reflectance and emittance standards established by the energy codes for “cool roofs” as certified by the Cool Roof Rating Council (CRRC). Butler cool roofs help mitigate the Heat Island Effect, which produces high relative temperatures in urban areas that contribute to smog formation.



Butler is a member of the U.S. Green Building Council.



## ROOF SYSTEMS

### 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 2 billion square feet have been installed since 1969. It is a material-efficient, recyclable, low-maintenance, and

long-life roof solution available with a 25-year warranty for panel finish protection and weathertightness.

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.

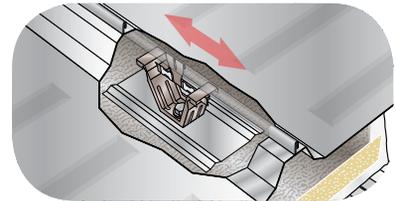
### CMR-24® ROOF SYSTEM

*The industry standard, insulated for energy efficiency.*

The CMR-24® composite roof system takes all the strength, flexibility, and weathertightness of the MR-24 and adds

the superior energy-saving features of a layer of rigid insulation board (Thermax™) and an interior liner that provides a more finished interior appearance.

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



All the performance of the MR-24 Roof System with the addition of insulation and a metal liner.

### VSR™ ARCHITECTURAL ROOF SYSTEM

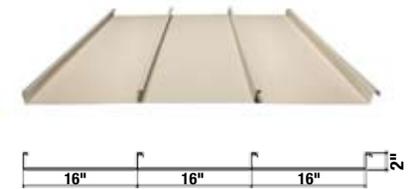
*Striking. Versatile. High-performing.*

The VSR™ architectural standing-seam system combines the 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 with spanning supports placed up to 5' on centers or

placed over roof deck materials in a nonstructural roof system.



The VSR system accommodates complex roof geometries and simplifies flashing designs.

### BUTLERIB® II ROOF SYSTEM

*Butler performance in an 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 ensure accurate endlap alignment and easy installation, while Butler's exclusive "return leg" provides extra support at the sidelaps.



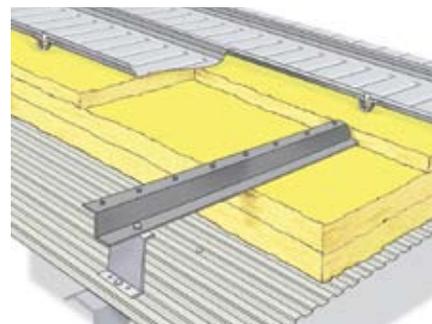
A deep 1½" corrugation adds strength to the Butlerib II panel.

## THERMALINER™ INSULATION SYSTEM

*A superb insulation option for Butler roof systems.*

The ThermoLiner™ insulation system incorporates all the benefits of the MR-24®, VSR,™ or Butlerib® II roof system while providing the additional advantages of an interior liner panel, superior thermal

efficiency to R-40, condensation control, and acoustic properties.



The ThermoLiner insulation system saves on heating and cooling costs.

## REROOFING: SOLUTIONS FOR THE LONG TERM

### RETROFIT METAL-OVER-METAL SYSTEM

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

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

The low-profile retrofit—

- Allows for a maximum 3" of blanket insulation
- Is designed for major corrugation heights of 1½" or less

The high-profile retrofit—

- Allows for thicker insulation
- Is designed for higher corrugation heights
- Can be applied to an existing standing-seam roof



The MR-24 low-profile metal-over-metal retrofit system allows for a maximum 3" of blanket insulation.

### SLOPE BUILD-UP RETROFIT SYSTEM

*The Butler fully engineered reroof solution.*

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.



The slope build-up retrofit system, for complicated rooflines.

## COOL ROOFS

### SOLAR ROOF FINISHES

*Butler roof systems with solar finishes can help reduce energy consumption.*

Butler offers several sustainable 25-year fluoropolymer color finishes that meet reflectance and emittance standards for "cool roofs" as certified by the Cool Roof Rating Council (CRRC). For example, our Solar White

color has an SRI of 83. Butler roof products featuring the Energy Star label keep buildings cooler by increasing reflectivity and reducing energy use, utility costs, and air pollution.



## COLORS AND FINISHES

*Butler-Cote™ Finish—the art of a fine finish.*

Butler-Cote™ is the state-of-the-art low-gloss exterior finish that's standard on all painted Butler roof panels, wall panels, trim, gutters, and downspouts. This high-performance fluoropolymer—a full-strength, 70% Kynar 500® or

Hylar 5000® finish—holds its original color longer than silicone polyester or acrylic coatings, even in the most punishing environments.

The Butler-Cote finish resists the chalking and fading that ages a

building before its time. Our 25-year warranty guarantees against excessive chalking and protects against blistering, peeling, cracking, and chipping and is not prorated over the life of the warranty.

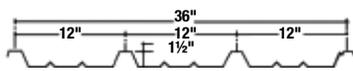
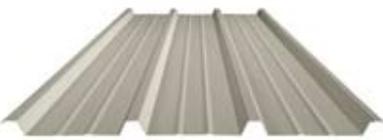
## WALL AND FASCIA SYSTEMS

*Quality that's apparent on the surface—and within.*

Any design and objective can be achieved choosing from the wide array of Butler wall and fascia systems. They afford total flexibility—either paired with Butler® building systems

or conventional steel construction—and do not require extensive field modifications when coupled with conventional materials such as brick, block, and stucco.

Butler wall systems include trim for all accessories and transitions, and the Butler-Cote low-gloss fluoropolymer coating finish system.



**BUTLERII® II**  
*Wall or Fascia System*

The basic exterior for a Butler building: economy without compromise on quality.

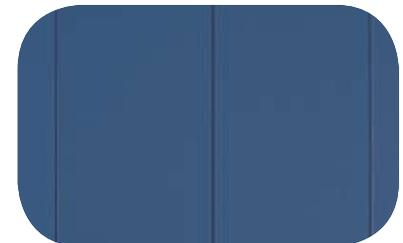
- Deep 1½" corrugation for extra strength
- 24 or 26 gauge
- Scrubolt™ or self-drilling screw fasteners
- Optional factory punching for top and bottom connections
- Panel width—36"
- Up to 40' length



**SHADOWWALL™**  
*Wall or Fascia System*

Fewer fasteners than most ribbed panels for lower installation costs and reduced heat loss. Optional factory punching assures proper alignment.

- Recessed fasteners allow a uniform appearance
- Accommodates thicker blanket insulation
- Semi-concealed Scrubolt or self-drilling screw fasteners
- Panel width—36"
- Up to 40' length



**STYLWALL® II**  
*Wall or Fascia System*

Either ribbed or flat design with embossed pattern provides a rich appearance in new or retrofit uses. Features concealed fastener panels.

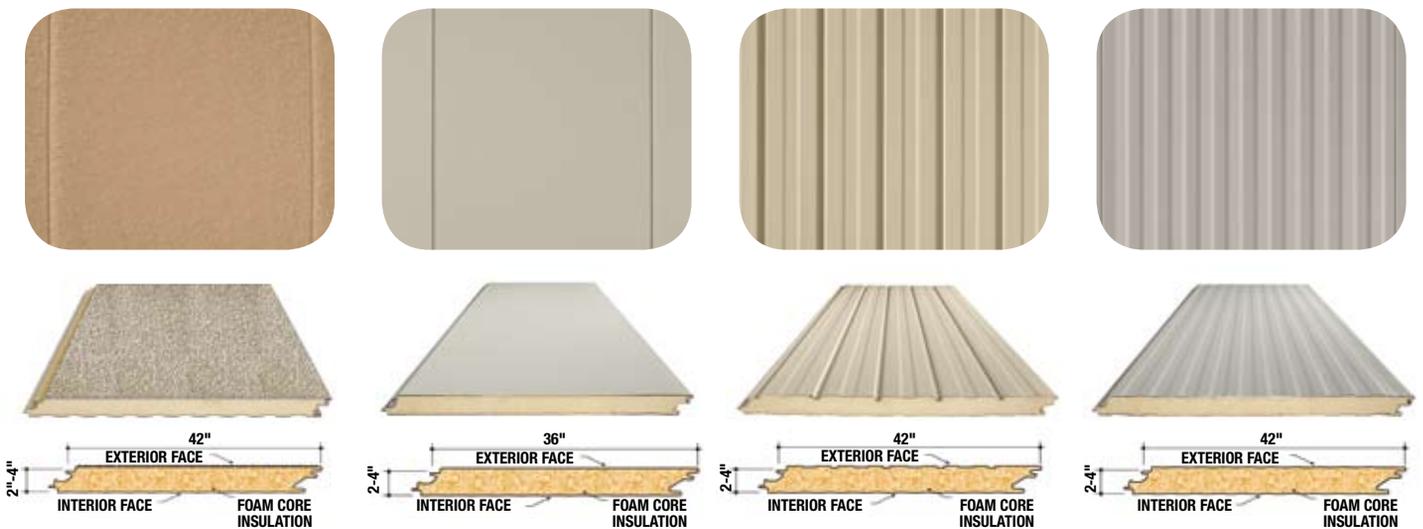
- Snap-in-place joints
- Hidden fasteners
- Flat or fluted
- Factory-installed rigid insulation board on flat StylWall II panels
- Fluted panels accommodate a variety of insulation systems
- Panel width—16"
- Up to 40' length

# BUTLER-COTE™ COLORS



Butler offers a wide spectrum of standard and custom fluoropolymer coatings for roof and wall systems. Standard colors are shown here.

Note: Colors may vary due to variations in the printing process. For actual paint colors, refer to the Butler-Cote color chart and paint chips. Colors and availability differ by product and may change without notice.



## TEXTUREWALL™ Panel Wall System

Stucco appearance combining attractive appearance with durability.

- Hard, aggregated, fiber-reinforced polymer finish
- Factory applied for construction in virtually any weather condition
- Optional field painting of accents and other colors
- Satisfies many local building ordinances requiring masonry or stucco exteriors
- Finline metal interior
- Full 10-year finish warranty

## BUTLER THERMAWALL™ Flat Wall System

- Flat, embossed surface for a clean look
- Panel width—36"

## BUTLER THERMAWALL™ Fluted Wall System

- Deep fluted exterior
- Panel width—42"

## BUTLER THERMAWALL™ Finline Wall System

- Embossed shallow fineline exterior
- Panel width—42"

All Butler Thermawall and TextureWall panel wall systems feature—

- Factory-installed foam core insulation for excellent energy efficiency and added rigidity
- Thermal break joint design that enhances energy efficiency
- Concealed fasteners within panel joint
- Attractive, durable fineline interior metal face
- Factory-fabricated transitions to combine with other wall materials
- UL certifications available for 1- or 2-hour fire resistance ratings
- 2", 2½", 3", and 4" thicknesses
- FM Global approval





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Butler Manufacturing  
 Kansas City, MO  
 816-968-3000

Butler Buildings Canada  
 Burlington, ON  
 Canada L7M 3X1

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