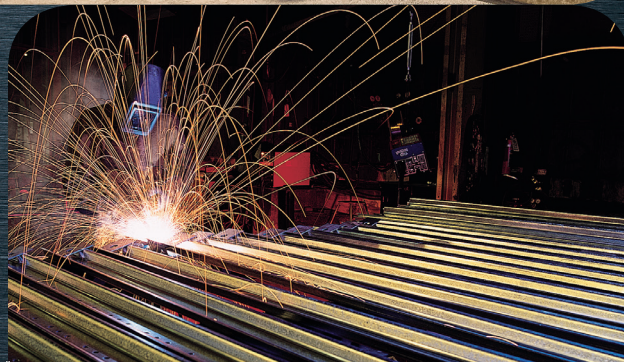




# BUTLER® BUILDING SYSTEMS





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2 - INTRODUCTION



BUILDING SOLUTIONS

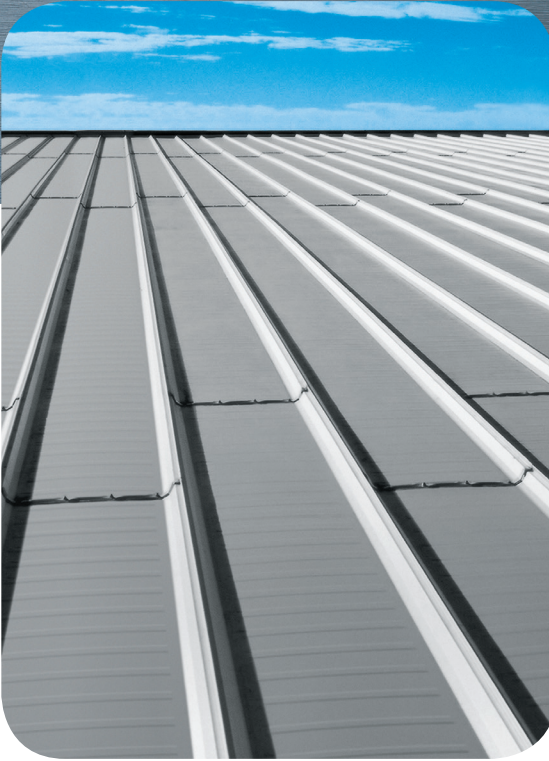
THE BUTLER DIFFERENCE

Butler Manufacturing™ is transforming the face of the construction industry. Building on a rich history of successes, we’re committed to solving today’s construction challenges through the design and manufacture of superior-quality steel building solutions.

For more than 100 years, the name Butler® has been synonymous with building innovation. It all started with the idea to factory-produce building systems, and it continues with new products and services that still set industry standards.

Butler offers virtually unlimited options with regard to a building’s appearance and functionality. And every component of our building is designed, engineered, and manufactured to exact specifications, assuring fast assembly and long-term performance.

We’ve remained the building solutions industry



leader by meeting the needs of building owners more effectively than any other manufacturer. Unmatched building versatility. Extensive design freedom. Lower lifecycle costs. These are just a few of the ways that Butler reduces the total cost of building ownership.

Our parent company, BlueScope, an international flat steel solutions company, allows us to offer more efficiencies and capabilities than ever before. Learn more about BlueScope at [www.bluescope.com](http://www.bluescope.com).

From more innovation to more resources, discover the difference Butler can make with your next building project.

You’ll often hear us refer to our unique product advantages as “The Butler Difference.” We invite you to discover what this difference can mean for you.

BUTLER BUILDERS

With superior knowledge of construction, these independent building professionals offer single-source responsibility and complete construction services. Today there are more than 1,400 Butler Builders worldwide—the largest network of construction professionals in the world.

MR-24® ROOF SYSTEM

It’s the most specified standing-seam roof system on the market, with more than 2 billion square feet installed worldwide. The MR-24® roof system has unique design features that accommodate roof movement under temperature swings and virtually eliminate roof leaks.

FACTORY-PUNCHING

Only Butler offers factory-punched secondary structural members to assure a precision fit on the jobsite. This helps to speed installation, lower

construction costs, and create low-maintenance structures for greater lifecycle cost savings.

HIGH-PERFORMANCE PRODUCTS

With products such as acrylic-coated galvanized C/Z purlins and girts, as well as systems that integrate easily with conventional building materials, Butler provides innovative solutions that enhance performance and add value.

BUTLER-COTE™ FINISH

Butler offers a superior Kynar 500® or Hylar 5000® finish system as the standard exterior finish on all painted panels and trim. This incredibly durable coating is the finest finish in the industry.

INDUSTRY-LEADING WARRANTIES

Our multi-year warranties protect your investment. Available 25-year weathertightness warranties are a testament to the performance that a Butler® building system offers.



*Nothing speaks to The Butler Difference better than satisfied customers—and over 70% of our customers are repeat buyers of Butler® building systems.*











# STRUCTURAL SYSTEMS



## CONVENTIONAL / HYBRID STRUCTURAL SYSTEM

Conventional or Hybrid building designs come in any shape or size to meet the demands for any project. Butler conventional buildings offer the same flexibility found with traditional construction, while using a systems construction approach to deliver a cost-effective, high performance building for a myriad of building end-uses.

- Able to integrate conventional steel such as mill beams and truss girders with Butler secondaries or truss purlins, where appropriate, for economical solutions
- Includes structural designs for mezzanine and multistory applications to maximize space
- Offers unlimited flexibility to use conventional exteriors such as masonry, EIFS or concrete
- Accommodates membrane and built-up roofing systems using structural metal deck

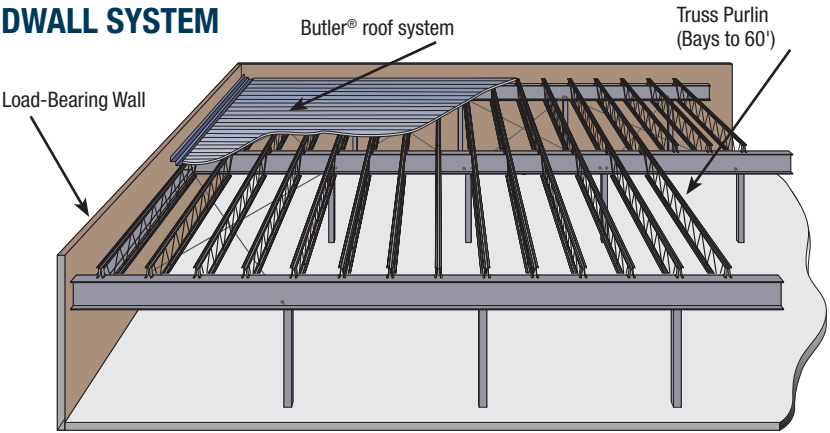
## HARDWALL STRUCTURAL SYSTEM

The Butler Hardwall system combines conventionally built walls with Butler® structural and roof systems. The hardwall system is designed for non-metal load-bearing masonry or concrete wall projects.

- Integrates with the industry's finest standing-seam roof system—the MR-24® roof system
- Provides the opportunity to create traditional flat appearance roof lines by easily integrating with any type of conventionally built walls
- Offers unlimited design flexibility, as well as fast assembly



### HARDWALL SYSTEM



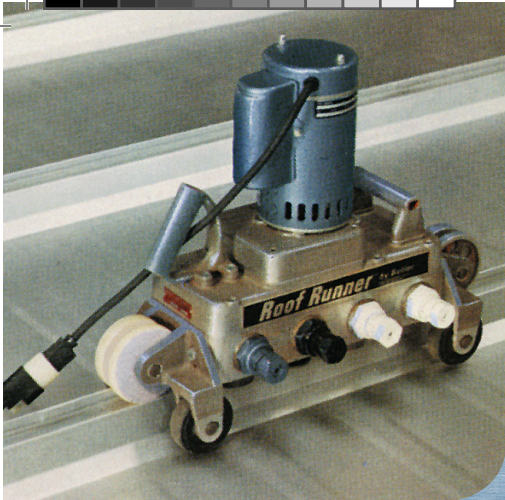
## MULTI-STORY STRUCTURAL SYSTEM

The Multi-Story structural system offers the same benefits of our low-rise building expertise in buildings with two or more stories. The system utilizes the combined technologies of conventional and systems construction to create a cost-effective, high-performance building.

- A single-source solution that provides value, convenience, and architectural enhancement
- Available with a variety of roof and wall options, including any Butler standing-seam roof system
- Exterior finishes including brick, block, curtain wall, and metal wall panels
- Surprising building applications with all the traditional performance benefits of Butler







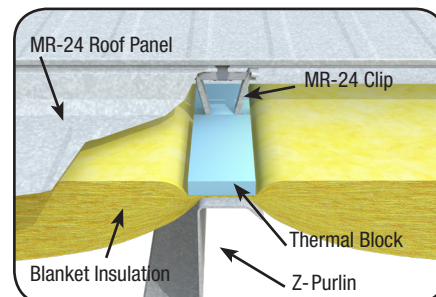
## ROOF SYSTEMS

### MR-24® ROOF SYSTEM

Whether you're tired of dealing with costly roof repairs or you simply want to avoid them from the outset, you'll find the ideal solution in the MR-24® roof system by Butler—the industry's most specified standing-seam metal roof system.

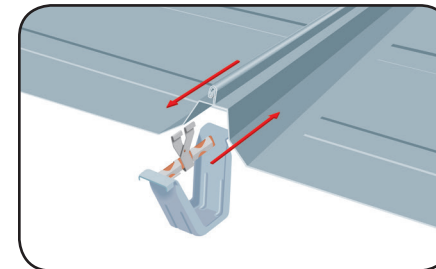
Proprietary technologies have established the MR-24 roof system as the recognized standard in the industry. It acts like a monolithic steel surface covering your entire building, providing superior protection for the inventories, assets, and lives inside.

More than 2 billion square feet of the MR-24 roof system have been installed since 1969, and life cycles of over 49 years have been achieved. It's a testament to the unmatched protection it provides.



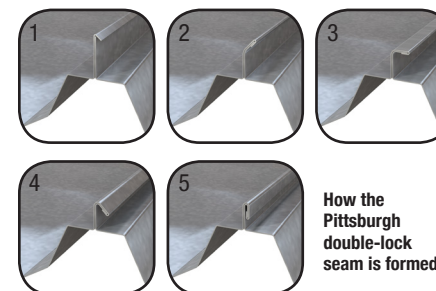
### MOVEABLE ROOF CLIP

The MR-24 clip (below) allows the roof to expand and contract with changing temperatures. This mobility prevents stress at the clips, fasteners, and panel splice that could otherwise make the building vulnerable to leaks and wind damage.



### THE PITTSBURGH DOUBLE-LOCK SEAM

Only the MR-24 roof system seams are mechanically field-rolled 180 degrees to complete a 360-degree Pittsburgh double-lock seam. Other manufacturers simply crimp or snap the seams into place, forming a loose, vulnerable seal.

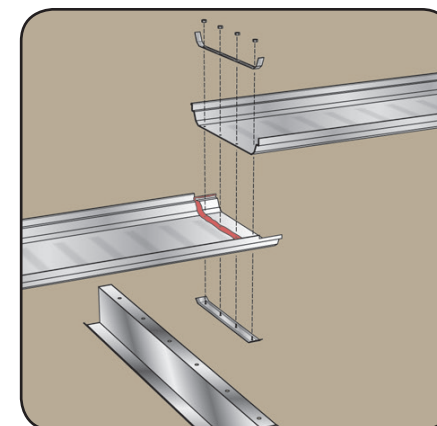


### PERFECT ALIGNMENT

All roof panels and structural members of the MR-24 roof system are factory-punched to assure proper alignment and weathertightness, as well as the accurate installation of closures, roof accessories, and trim.

### STAGGERED PANEL SPLICES

Locating panel splices at the same position across the roof makes it almost impossible to seal and protect against leaks. The MR-24 roof system eliminates this problem with staggered panel splices. All splices are also located over supporting steel to reinforce vulnerable areas, as opposed to midair splices common with other manufacturers.



### ENERGY SAVINGS

Because the MR-24 roof system is metal and moves freely with the forces of expansion and contraction, additional insulation thicknesses will not cause roof deterioration as commonly happens with conventional built-up roofs. A variety of tested insulation systems are available. For information about our energy saving "cool roof" finishes see page 21.

### WIND UPLIFT RESISTANCE

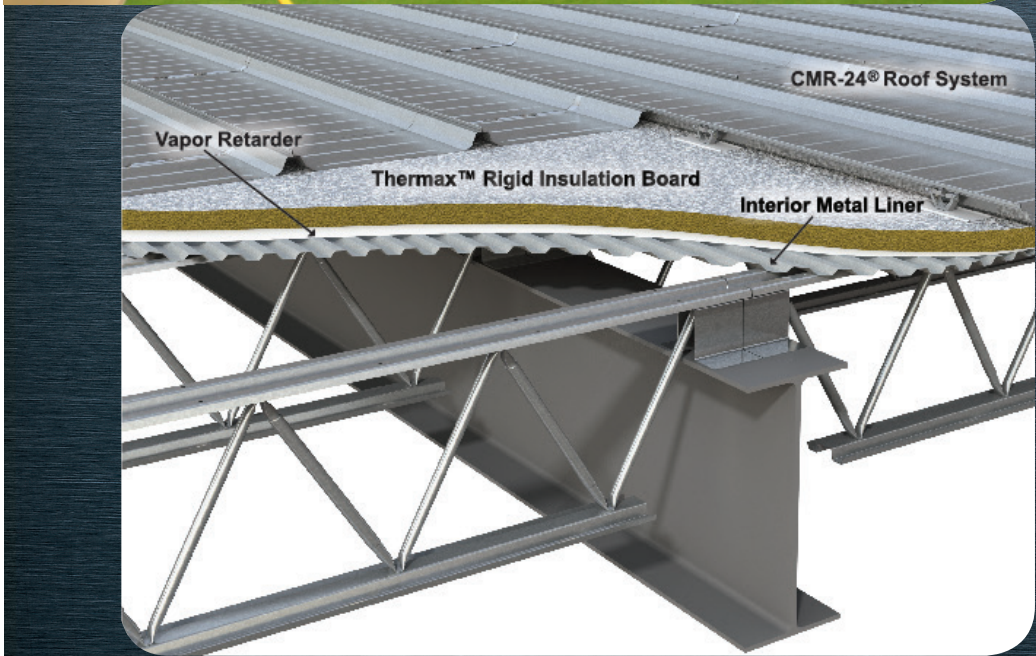
The MR-24 roof system carries the highest UL wind uplift rating (Class 90). It has also been approved by FM Global as a Class 1 Panel roof, which may help lower your insurance costs. In addition, the MR-24 roof system is approved for use under the strictest codes, including Miami-Dade County, Florida.

### 25-YEAR WARRANTY

It stands to reason that the industry's best roof also offers the industry's best warranty. The MR-24 roof system is available with a 25-year weathertightness warranty. Ask your Butler Builder® for details.





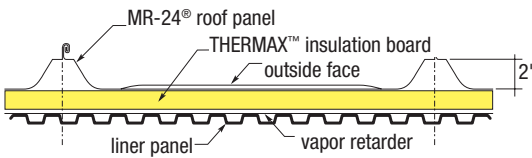


## ROOF SYSTEMS

### CMR-24® ROOF SYSTEM

The CMR-24® roof system offers all the benefits of the MR-24® roof system with a layer of Thermax™ rigid insulation board and an interior steel liner. This liner gives the interior a finished look while protecting the roof's insulation and providing excellent energy savings.

- Excellent energy efficiency with a tested U-factor of .037 or an effective R-value of R-27
- Uses the MR-24 panel clip to allow movement during roof expansion and contraction
- Incorporates the MR-24 Pittsburgh double-lock seam to ensure weathertight performance
- Available 25-year weathertightness warranty
- Thermax metal building board insulation is tested and listed for fire resistance by UL
- Painted or unpainted metal liner is available
- Available "cool roof" finish options



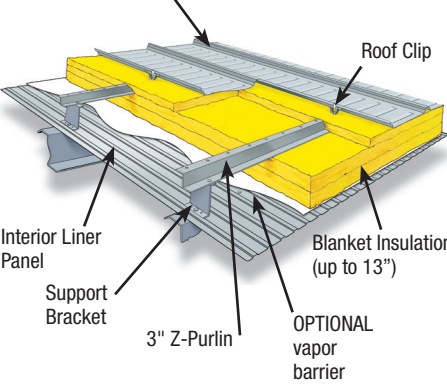
The acoustic characteristics of rigid foam board insulation may not be suitable for certain buildings. See your Butler Builder® for more information.

### THERMALINER™ INSULATION SYSTEM

The state-of-the-art ThermaLiner™ insulation system incorporates all the benefits of the MR-24®, VSR II™ or Butlerib® II roof systems, with the additional advantages of superior thermal efficiency, condensation control, and noise reduction. The roof system is available as painted or unpainted Galvalume®.

- Helps reduce heating and cooling costs and controls condensation
- Superior energy efficiency can be achieved up to a tested U-factor of .026 or an effective R-value of R-38.7
- Self-drilling screws speed installation
- Abuse-resistant liner adds an attractive, finished interior to the underside of the roof
- Liner panel available in a variety of colors
- Can be installed on Landmark™ 2000 or Widespan™ structural system

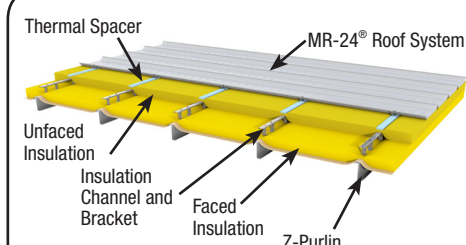
**MR-24® Roof System** (also available with the Butlerib® II or VSR II™ roof system)



### TBS™ INSULATION SYSTEM

As energy codes become more stringent and energy costs continue to fluctuate, it's important to have an insulation system that will help save on your building's heating and cooling costs. The unique design of the TBS insulation system for the MR-24® roof system provides more blanket insulation to meet stringent U-factors and R-values required by stricter energy codes. It also can be installed in a fraction of the time it takes to install competitive below-the-purlin insulation systems.

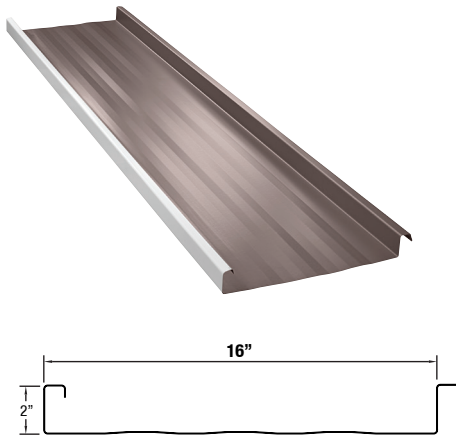
- Installed from the top, eliminating the need for bands and reducing installation time and cost
- Installs with various Butler structural members to accommodate different building designs
- Meets IECC 2015 codes with tested U-factors as low as 0.029
- Roof structurals are accessible as a result of above the purlin system installation
- Sky-Web® and Sky-Web II® fall protection and insulation support system compatible
- Unique design offers improved interior finish
- Maintains vapor retarder integrity



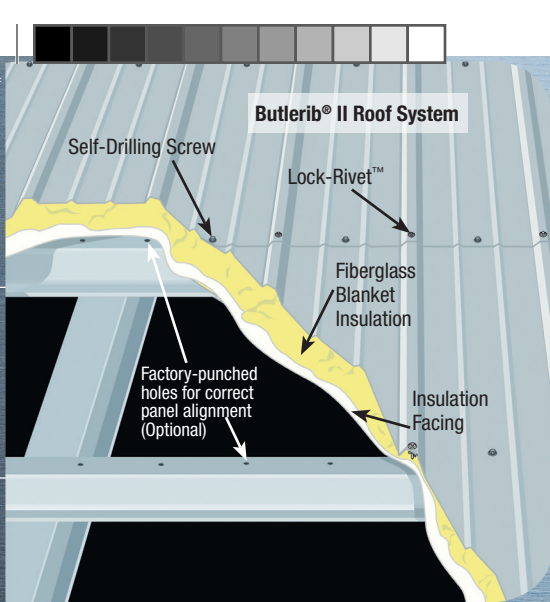
### VSR II™ ARCHITECTURAL ROOF SYSTEM

The VSR II™ roof system is a versatile standing-seam roof developed specifically for architectural applications. Designed to easily accommodate complex roof geometries, the VSR II roof panels can be applied to light-gauge steel framing or any properly designed roof deck on roof slopes of 1/4:12 and greater.

- Has minor longitudinal flutes that provide a pleasing appearance
- Made with the low-gloss, high-quality Butler-Cote™ finish system
- Available in a variety of visually appealing "cool roof" colors
- Approved by FM Global
- Has UL Class 90 wind uplift rating





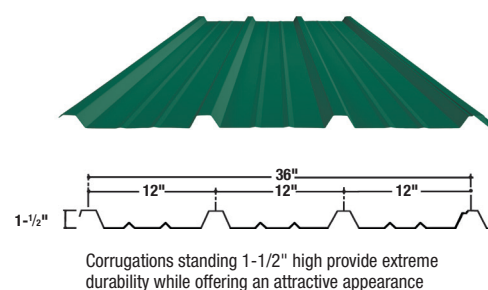


## ROOF SYSTEMS

### BUTLERIB® II ROOF SYSTEM

A building's roof system is no place to compromise quality and protection—particularly on projects with heightened budgetary constraints. The Butlerib® II roof system is engineered to provide the ideal option in such instances, offering low installation and maintenance costs with the assurance of an available 10-year weathertightness warranty.

- The best thru-fastened roof system available in the industry
- Exclusive Lock-Rivet™ fastener doesn't work loose over time
- Special sealant groove assures proper application of the sealant
- Factory-slotted holes allow for thermal expansion and contraction of panels
- Deep 1-1/2-inch corrugation and "return leg" add strength and support



### REROOF SOLUTIONS

Butler offers several reroof options that enable you to address potentially devastating roof problems with an affordable, long-term solution. In most cases, these systems can be installed over an existing roof, avoiding interruptions to your daily business activity.

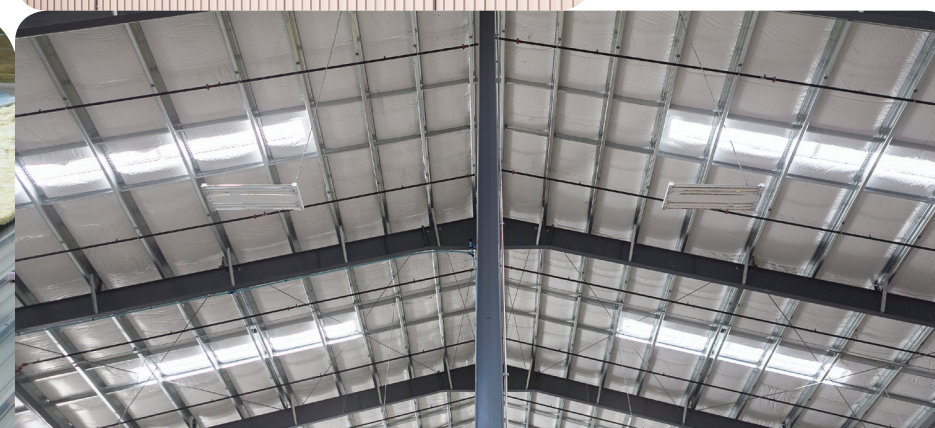
- **Retrofit Metal-Over-Metal Systems** allow the MR-24® roof system or the VSR II™ architectural roof system to be installed over an existing metal roof
- **The Slope Build-up Reroof System** is designed for application over flat built-up or membrane roofs
- **The RetroLite™ Daylighting System** is specially designed to replace an aging Lite\*Panl system on a MR-24® or CMR-24® roof system

A Butler reroof system offers a recyclable, low maintenance and long-life roof solution that will enhance the energy efficiency of your building.



### SUNLITE STRIP® DAYLIGHTING SYSTEM

The self-curbing SunLite Strip® daylighting system adds natural daylight, occupant comfort and energy-savings to any Butler building featuring the MR-24® standing seam metal roof system. Installed in one-third the time of industry standard curb-mounted systems, this unique SunLite Strip design can reduce roof penetrations by 30% while also preserving the MR-24 roof system's weathertight integrity.



- Reduces electric lighting costs by up to 70% when combined with lighting controls
- Prismatic acrylic domed technology adds up to 3 times the amount of light earlier and later in the day vs. translucent panels
- Prismatic lenses provide 100% diffused light to eliminate hotspots and glare
- Helps owners take advantage of federal tax deductions
- Can provide a return on Investment in 3 to 5 years

### SKY-WEB® FALL PROTECTION AND INSULATION SUPPORT SYSTEMS

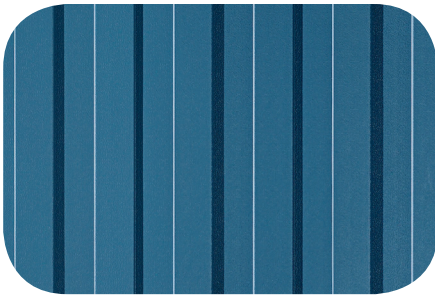
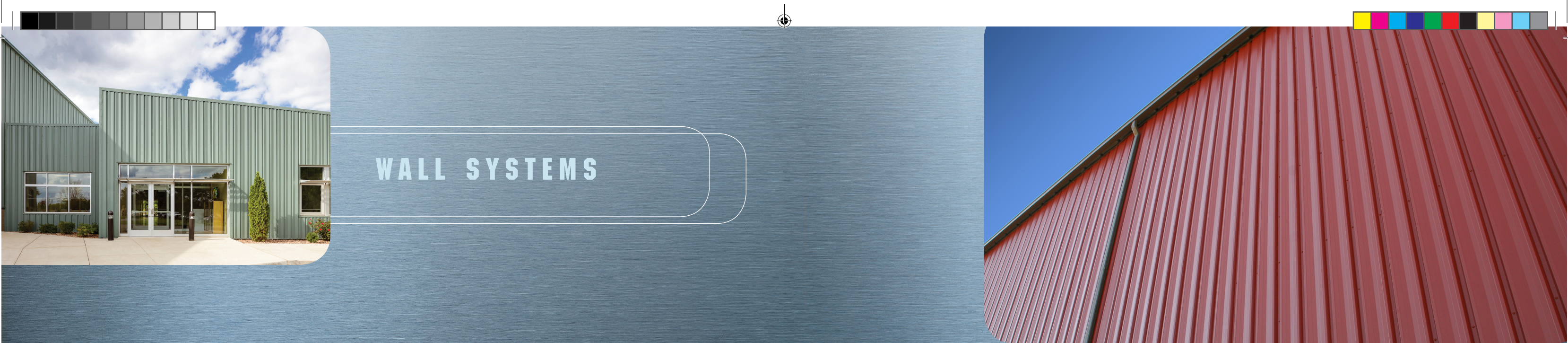
The Sky-Web® and Sky-Web II® systems protect workers from falls and certain objects that may be dropped during roof construction. The innovative mesh systems remain in place to act as an insulation support after the building is complete.

- A passive restraint system similar to an automobile airbag
- No worker initiative required—and no need to tie off with lanyards at leading edge of roof
- Allows free movement without tangling in safety lines or installing safety nets



Sky-Web® and Sky-Web II® do not eliminate fall hazard from the non-leading-edge perimeter of the roof during installation.

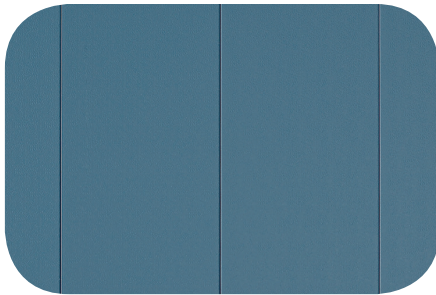
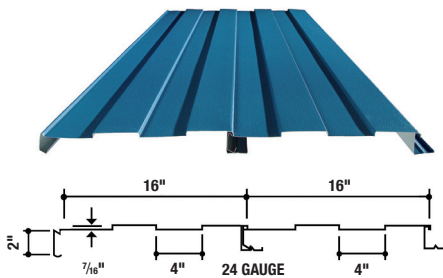




## STYLWALL® II FLUTED WALL SYSTEM

The ribbed design of the StylWall® II Fluted panels provides a rich appearance in new or retrofit uses.

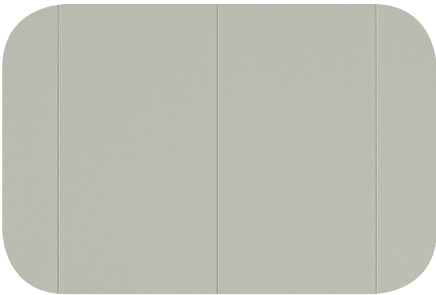
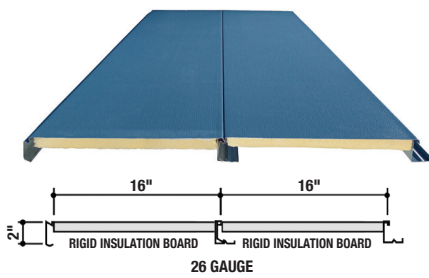
- Concealed fasteners add to vertical appearance
- Fluted panels accommodate a variety of insulation systems
- Can be combined with other conventional wall materials such as brick and glass



## STYLWALL® II FLAT WALL SYSTEM

StylWall® II Flat wall panels feature an outside embossed surface. Each panel is fastened to the wall structural system and then “locked” into the adjacent panel, concealing the fasteners and enhancing the building’s appearance.

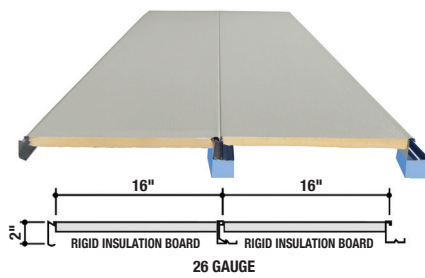
- Rigid insulation board improves the insulating properties of the wall and the flatness of the metal face
- Conventional finishing materials can be easily fastened to the interior



## eSTYLWALL™ II FLAT OR FLUTED WALL SYSTEM

The eStylWall™ II Flat or Fluted wall system is an energy efficient solution with appealing visual interest for any project. Combining the aesthetic benefits of the StylWall® II wall panel with a patented thermal spacer block design delivers superior energy efficiency.

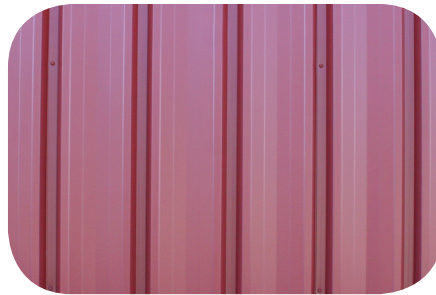
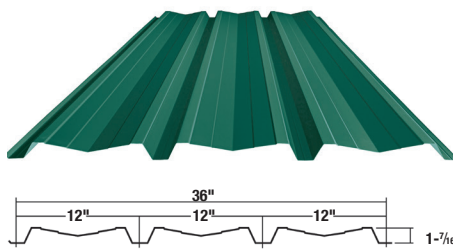
- Thermal spacer blocks reduce thermal short circuits where insulation is compressed to improve energy efficiency
- Fluted panel enables thicker layers of insulation to achieve an enhanced thermal performance
- Higher energy efficiency reduces operating costs



## SHADOWWALL™ WALL SYSTEM

The Shadowwall™ wall system is ideal for creating architecturally pleasing exteriors, particularly in instances where energy efficiency is a key concern.

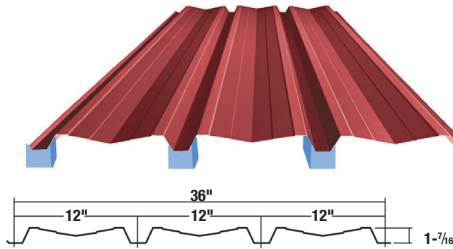
- Fasteners are recessed deep in panel corrugation to enhance appearance
- Accommodates added insulation for enhanced energy efficiency
- Available factory-punched panels and structurals add speed and accuracy in installation
- Transition pieces assure precision with window and door installation



## eSHADOWWALL™ WALL SYSTEM

The eShadowwall™ wall system adds the patented thermal spacer block design to increase energy efficiency while maintaining architectural appeal with the Shadowwall™ wall panel. The tested thermal spacer block design allows more depth for thicker layers of insulation.

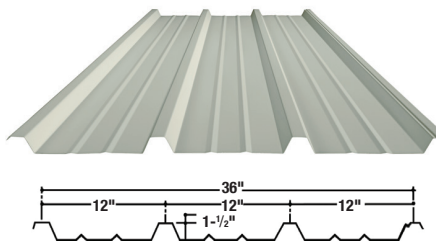
- Visually striking appearance
- Fewer fasteners than most wall panels
- Thermal spacer blocks reduce short circuits where insulation is compressed
- Add energy savings with thicker insulation



## BUTLERIB® II WALL SYSTEM


With an attractive combination of quality and affordability, the Butlerib® II wall system remains an extremely popular choice for virtually any type of building application.

- Deep 1-1/2-inch panel corrugations reinforce the building’s panel strength
- Available factory punching of panels assures fast and accurate installation
- Predesigned transition materials coordinate with other building materials











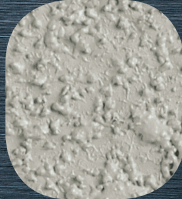
Aspen White II



Adobe II



White II



Gray II

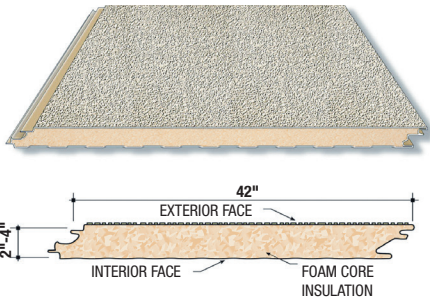
Note: Colors as shown may vary from panel colors due to variations in the printing process. Colors and color availability subject to change without notice.

# COMPOSITE WALL SYSTEMS

## TEXTUREWALL™ PANEL WALL SYSTEM

TextureWall™ panels have an exterior textured surface that creates a stunning stucco appearance. The surface is created by the Texture-Cote™ finish system, a hard aggregated, fiber-reinforced polymer finish that resists the effects of impact, abrasion, and weather.

- Satisfies many local building codes requiring masonry or stucco exteriors
- Features a full 10-year warranty on material and application
- Factory-fabricated composite insulated metal panels deliver excellent energy efficiency with effective R-values of R-15.1 to R-29.4 (for a range of panel thicknesses from 2" to 4")
- Factory-applied finish of TextureWall panels allows system to be erected in virtually any weather condition
- Features concealed fasteners and allows simple installation from outside the building envelope



## BUTLER THERMAWALL™ WALL SYSTEM

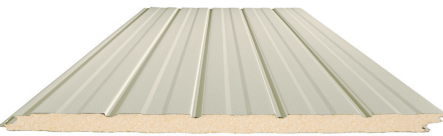
The Butler Thermawall™ wall system is a factory-fabricated composite insulated metal wall system with concealed fasteners for a clean, attractive appearance. Panel thicknesses of 2, 2-1/2, 3, and 4 inches are available to match your thermal performance needs, with effective R-values ranging from R-15.1 to R-29.4.

The R-value of the polyurethane core used in Butler Thermawall and TextureWall panels is among the highest insulating value (per inch thickness) of any building material available today.

The system is UL certified for 1- or 2-hour fire resistance assembly when installed per UL U652.

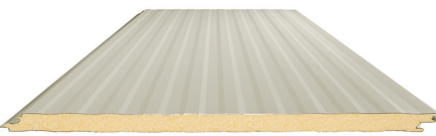
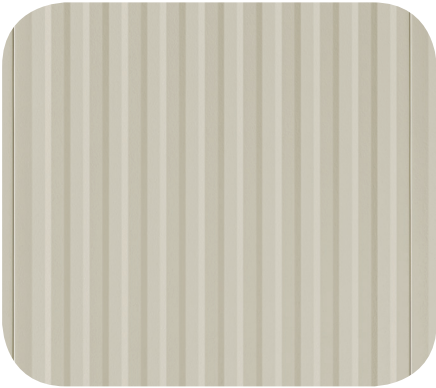
### FLUTED PANELS

Butler Thermawall™ Fluted panels create an exterior surface with fluted (deep) corrugations.



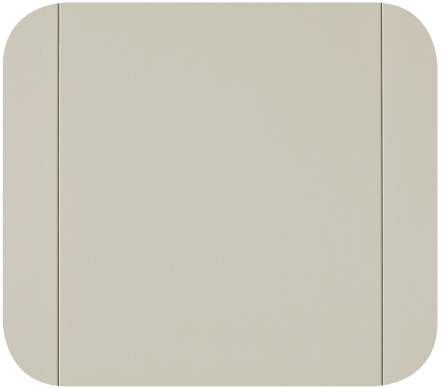
### FINELINE PANELS

Butler Thermawall™ Fineline panels create an exterior surface with fineline (shallow) corrugations.



### FLAT PANELS

Butler Thermawall™ flat panels create a smooth, embossed exterior surface.





For unusually large or complex buildings, Butler Manufacturing™ can save you time and money. We design conventional structural steel with the cost efficiency of Butler engineered building systems. From initial design to finished construction, experienced engineers and project managers can provide a single-source solution to your building needs—working in tandem with your local Butler Builder.®

- Reduced turnkey construction times with the design-build method
- Trusted Butler systems to fit most any building need
- Worldwide network of experienced Butler Builders
- Large clearspan structures—such as sports facilities and aircraft hangars
- Heavy industrial complexes—such as steel mills and paper processing plants
- Highly architectural structures—such as multi-story offices, retail centers, and churches

Simply designed for greater affordability and faster construction, the Classic II™ Building System is ideal for applications from small to large. Classic II Building Systems are ideal for uses such as agricultural, commercial, or light industrial facility needs. Available in a wide variety of slopes, widths, and heights.

- Competitively priced and delivered quickly
- Reliable protection provided by the industry's strongest metal panels
- Unmatched performance for years of low-maintenance ownership
- Butler-Cote™ finish resists chalking and fading and is backed by a 25-year warranty
- Engineered and manufactured to meet local building codes



The same high-quality engineering and manufacturing expertise that has made Butler the steel building systems leader goes into each of our self-storage products. These building systems can be designed to fit any width or length in 5-foot increments. Interiors are also designed to be high on flexibility—yet low on maintenance costs.

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# BUILDING GREEN

LEED® Gold certified: Willis A. Smith Offices

## A COMMITMENT TO BUILDING GREEN



From material use to transportation costs, construction has an impact on the environment. At Butler, we strive to meet all construction needs with attention to sustainability, providing a more efficient way to complete your construction project. Butler is a member of the U.S. Green Building Council—a testament to our focus on developing responsible building practices.

- Steel is the proven standard in the effort to create sustainable architecture—and Butler® building systems contain a high percentage of recycled steel.
- Butler's factory-produced made-to-order building systems minimize jobsite fabrication and associated waste
- Efficient thermal building envelopes are available to reduce energy consumption
- Regional Butler fabrication plants bring production closer to building sites, reducing transportation energy costs
- The green attributes of Butler can help you earn credits toward LEED® certification



LEED Silver Certified: University of Connecticut, Mark R. Shenkman Training Center

## “COOL ROOF” FINISHES

Butler offers a full palette of fluoropolymer color finishes that meet reflectance and emittance standards for “cool roofs” as established by energy codes. These 25-year finishes have a Solar Reflectance Index (SRI) as high as 91.

Butler “cool roofs” help reduce the Heat Island Effect which produces high relative temperatures in urban areas. In this way, Butler building systems help ensure a safer habitat and climate.

Butler roof products featuring the Energy Star® label keep buildings cooler by increasing solar reflectivity, thereby reducing energy use, utility costs and air pollution.



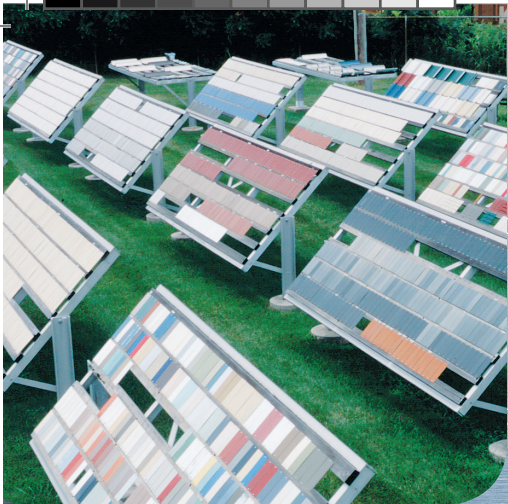
## BUTLER-COTE™ - A SUSTAINABLE FINISH SYSTEM

Butler's sustainable Butler-Cote™ premium finish is the standard exterior finish on all painted panels and trim. It features high reflectivity to help lower energy consumption and meets or exceeds EPA regulations for low-VOC paints. This incredibly durable Kynar 500® or Hylar 5000® system is the finest factory-applied finish in the industry, resisting fading and chalking to remain vibrant for years. Many attractive standard color options are available with a Solar Reflectance Index (SRI) of 29 or greater.

While many manufacturers' warranties are prorated after a certain period of time, we offer our Butler-Cote roof and wall panel warranty for a full 25 years—with no prorating. The 25-year warranty also protects against blistering, peeling, cracking, or chipping of the paint coating. It's a testament to our high performance standards.







## BUILD WITH CONFIDENCE

The IAS accredited Butler Guarded Hot Box is a state-of-the-art design that can accommodate 8'x 10' roof or wall sections fitted with up to 300 sensors to accurately measure temperature, humidity and air flow.



### INNOVATION – THE BUTLER RESEARCH CENTER

Demonstrating Butler's commitment to excellence, the Butler Research Center has led the industry in product development and innovation since 1959. The Butler Research Center is the most comprehensive facility of its kind, conducting ongoing tests of Butler's current materials and products to ensure continual, evolutionary improvements of Butler® building systems.

- All structural steel, panel materials, bolts, fasteners, and sealants are subjected to rigorous quality control
- The strength of components and systems is studied with a variety of full-scale tests
- Panel finishes are tested for qualities such as weathering, adhesion, color match, gloss, hardness, and a variety of performance characteristics in virtually any environment

### THERMAL PERFORMANCE TESTING

In the early 1970's, Butler constructed one of the first Guarded Hot Boxes in North America for the in-place performance testing of U-factors for roof, wall and insulation system assemblies. Today, Butler has expanded this program by constructing a state-of-the-art Guarded Hot Box to develop and test new assemblies which meet new stringent building codes while saving energy and money.

### A BUILDER YOU CAN TRUST – YOUR LOCAL BUTLER BUILDER®

No aspect of The Butler Difference is more important than the Butler Builder®. Today there are more than 1,400 Butler Builders worldwide, representing the largest network of construction professionals in the world. From initial design through completed construction, no one builds like your Butler Builder.

- Independent construction professionals who undergo comprehensive training from Butler Manufacturing
- Single-source responsibility assures faster construction and greater cost effectiveness
- Local businesspeople with outstanding reputations in their communities

Using Butler ADVANTAGE®<sub>NXT</sub> software, your Butler Builder can help you design a complete turnkey building solution to perfectly suit your needs.



### DESIGN INTEGRITY

Butler Manufacturing is an IAS-accredited metal building manufacturer. The IAS accreditation program recognizes manufacturers who design and fabricate safe, high-quality structures. It assures quality and consistency in metal building manufacturing.

The rigorous certification process scrutinizes all of the things that are important to you in selecting a manufacturer, including raw material purchasing, welding practices, material receiving, quality control measures, and overall fabrication quality assurance. As a buyer, you should always specify an IAS-accredited fabricator and require a copy of the accreditation certificate. It's your symbol of quality assurance. Butler also maintains the high-quality design standards required as a member of the Metal Building Manufacturers Association.







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