



# INSULATED

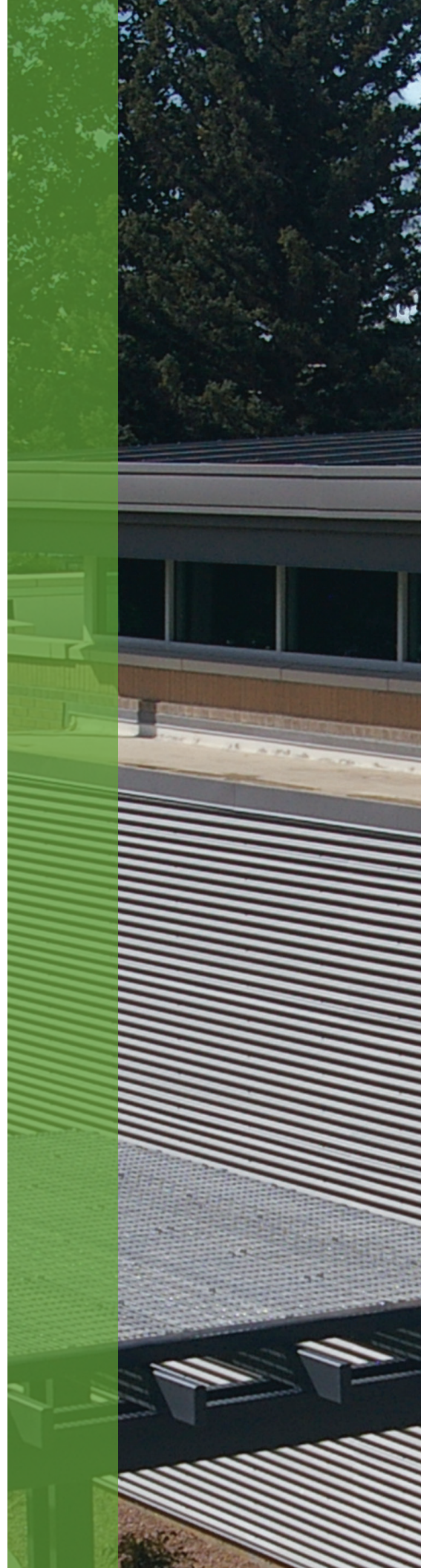
Design Solutions





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## THE MBCI ADVANTAGE

Since 1976, MBCI has been dedicated to providing our customers with the highest quality products and excellent service from our skilled professionals. MBCI is the industry leading manufacturer of metal roof and wall systems, supplying products to the architectural, institutional, commercial, industrial, residential and agricultural markets. MBCI has facilities positioned strategically throughout the United States to best serve our customers.

*The industry leading manufacturer  
of metal roof and wall systems.*





# Benefits of Insulated Metal Panels

Insulated metal panels offer many advantages over traditional building envelope materials, including building performance benefits, sustainable building contributions and LEED advantages.

## BUILDING BENEFITS

- Gain longer spanning capabilities requiring fewer structural supports than similar building materials, which may reduce the building's framing cost in both material and labor
- Lightweight and arrive to job site ready for installation allowing for faster and easier installation, reducing labor costs and providing earlier business starts and quicker payback on the capital investment
- Due to high insulating capabilities, less insulation space is needed to comply with building energy codes leading to maximized enclosed space
- Provide an architecturally pleasing appearance with our concealed fastener profiles
- Available in a wide variety of colors and profiles and can be customized to meet the needs, design and function of most construction applications
- Offered in a vast selection of applied finishes, allowing the building's exterior to resemble a precast or stucco, masonry and other conventional construction materials
- Adaptable for use with many other building materials including concrete tilt-up, stucco, brick, block, single-skin metal panels, glazing and EIFS
- Requires minimal maintenance that can lead to potential cost savings over the lifetime of the building
- Alleviate water wicking, as common with fiberglass insulation, because of the closed cell nature of the foam
- Ancillary cost reductions related to increased energy efficiency, HVAC equipment capacity reductions and more

## SUSTAINABLE BENEFITS

- Mitigate thermal bridging and thermal drift
- Assist in design conformance to LEED and green building standards, as well as meeting energy efficiency codes
- Qualify as continuous insulation (ci) where required by ASHRAE 90.1 and IECC, and other energy efficiency codes
- Function as a Continuous Air Barrier (CABs) because of their unique self-sealing side joints and impermeable skins
- ASHRAE/California compliant Cool Roof colors as listed on the Cool Roof Rating Council (CRRC) website
- Interior and exterior skins are comprised of 25 to 35 percent recycled content and are virtually 100 percent recyclable



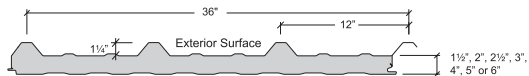
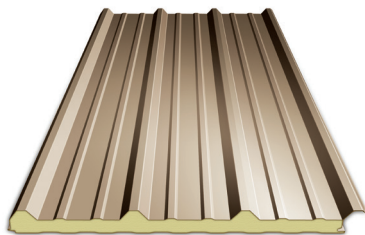


# Insulated Metal Panels



PROJECT: Armstrong Way LOCATION: Plymouth, MA PANEL PROFILE: Striated COLOR: Bright Silver

## LS-36™

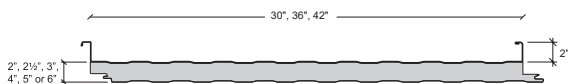
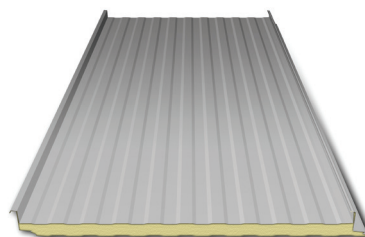


The versatility of the LS-36™ panel offers a multitude of design options. It can be utilized for roof or wall applications. The standard exterior skin is smooth but can be embossed if requested. The interior skin is roll-formed with our standard stucco-embossed Mesa profile.

### Product Specifications

- **Applications:** Roof and Wall
- **Gauges:** Exterior: 26, 24 and 22 | Interior: 26, 24 and 22
- **Width:** 36"
- **Thicknesses:** 1½", 2", 2½", 3", 4", 5" and 6"
- **Length:** 8'-0" to 50'-0"
- **Panel Attachment:** Exposed Fastening System
- **Standard Coatings:** Galvalume Plus®, Signature® 200, Signature® 300, Signature® 300 Metallic, Applied Finishes (Wall application only)

## CFR



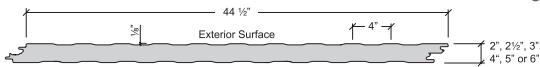
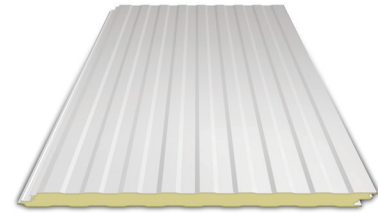
CFR is an insulated metal roof standing seam roof panel and is the newest innovation in all-in-one composite roof panel design, combining durable interior and exterior faces with an unmatched polyurethane core. The CFR insulated metal standing seam roof panel is a truly unique answer to many deficiencies common with more traditional roofing materials of the past.

### Product Specifications

- **Applications:** Roof
- **Gauges:** Exterior: 24, 22 | Interior: 26, 24 and 22
- **Width:** 42" (standard); 30", 36" (optional)
- **Thicknesses:** 2", 2½", 3", 4", 5" and 6"
- **Length:** 9'-6" to 53'-0"
- **Panel Attachment:** Concealed Fastening System
- **Standard Coatings:** Galvalume Plus®, Signature® 200, Signature® 300, Igloo White



## INTERIOR PARTITION & CEILING PANEL



The Interior Partition & Ceiling panel is the optimal choice for interior partitions and interior ceilings. The interior and exterior panel faces are identical images with the same profile for each. The Interior Partition and Ceiling panel is available in a width of 44 1/2", and the profiles have 1/8" ribs that are 4" on center.

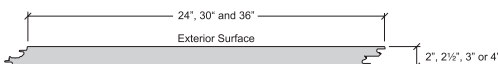
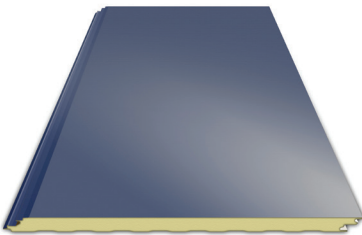
### Product Specifications

- **Applications:** Wall and Ceiling (interior only)
- **Gauge:** 26, 24, 22 (both surfaces)
- **Width:** 44 1/2"
- **Thicknesses:** 2", 2 1/2", 2 3/4", 3", 4", 5" and 6"
- **Length:** 8'-0" to 52'-0" for vertical embossed  
8'-0" to 40'-0" for vertical unembossed

- **Panel Attachment:** Tongue-and-Groove with Exposed Fasteners
- **Standard Coating:** Igloo White

\*Available only from Metl-Span's Nevada Plant

## CF ARCHITECTURAL



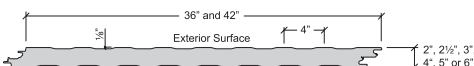
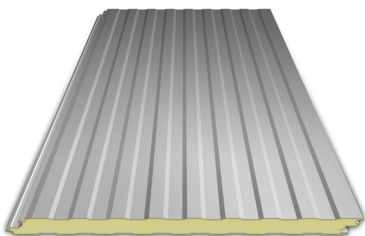
The CF Architectural wall panel employs a flat appearance providing a monolithic look that is great for high-profile architectural applications. The CF Architectural allows for designers to mix multiple panel widths and colors on the same wall. It also allows flexibility for continuous corners along with a complete line of aluminum extrusions and accessories to complete the wall system. When desired, these panels can also be mixed with vertical or horizontal panels to achieve most any look a design requires. This panel is available in widths of 24", 30" and 36", and can be used in vertical or horizontal applications.

### Product Specifications

- **Application:** Wall (Vertical and Horizontal)
- **Gauges:** Exterior: 22 | Interior: 26 (standard); 24, 22 (optional)
- **Widths:** 24", 30" and 36"
- **Thicknesses:** 2", 2 1/2", 3" and 4"
- **Length:** 8'-0" to 32'-0" for embossed  
8'-0" to 16'-0" for unembossed

- **Panel Attachment:** Concealed Fastening System
- **Standard Coatings:** Galvalume Plus®, Signature® 200, Signature® 300, Signature® 300 Metallic, Applied Finishes, Igloo White
- **Reveal:** Up to 1" reveal options in 1/4" increments or up to 3" reveal options in 1/2" increments

## CF MESA



The CF Mesa panel is designed for exterior wall applications, interior wall partitions and interior ceilings. The appealing relatively flat exterior and interior skins have a Mesa profile. The versatility of this panel allows for a uniform appearance from outside to inside and from room to room in partition applications.

### Product Specifications

- **Application:** Wall (Vertical)
- **Gauges:** Exterior: 26, 24 and 22  
Interior: 26 (standard); 24 and 22 (optional)
- **Widths:** 36" and 42"
- **Thicknesses:** 2", 2 1/2", 3", 4", 5" and 6"

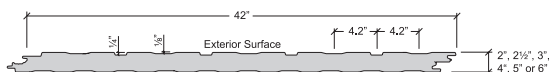
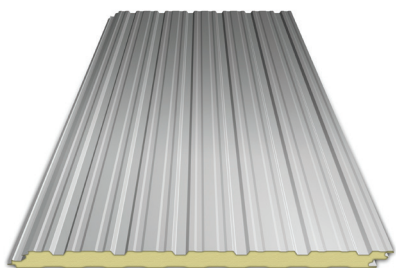
- **Length:**  
8'-0" to 32'-0" for horizontal embossed  
8'-0" to 16'-0" for horizontal unembossed  
8'-0" to 52'-0" for vertical embossed  
8'-0" to 40'-0" for vertical unembossed
- **Panel Attachment:** Concealed Fastening System
- **Standard Coatings:** Galvalume Plus®, Signature® 200, Signature® 300, Signature® 300 Metallic, Applied Finishes, Igloo White





PROJECT: W.L. Hutcherson YMCA LOCATION: Tulsa, OK PANEL PROFILE: Striated NATURAL STONE: Adobe Red and Sedona Snow

## CF FLUTED



The traditional styling and distinct vertical lines of the CF Fluted are ideal for custom-designed or conventional building construction, especially commercial and industrial applications. It can also be used in cold storage applications. The interior skin employs a stucco-embossed Mesa profile. The CF Fluted panel is available in a width of 42".

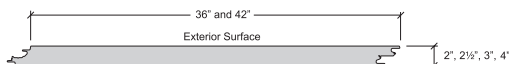
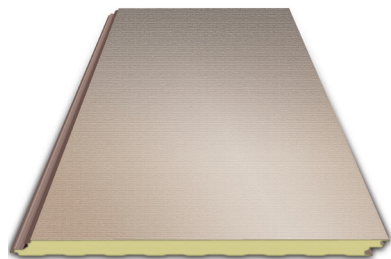
### Product Specifications

- **Application:** Wall (Vertical)
- **Gauges:** Exterior: 26, 24 and 22  
Interior: 26 (standard), 24 and 22 (optional)
- **Width:** 42"
- **Thicknesses:** 2", 2½", 2¾", 3", 4", 5" and 6"

- **Length:** 8'-0" to 32'-0" for horizontal  
8'-0" to 52'-0" for vertical
- **Panel Attachment:** Concealed Fastening System
- **Standard Coatings:** Galvalume Plus®, Signature® 200, Signature® 300 Metallic, Igloo White

\*Available only from Metl-Span's Nevada Plant

## SANTA FE®



The Santa Fe® exterior skin has a flat exterior profile with an Aztec-embossed pattern resembling old-world hand plaster. The interior skin employs a stucco-embossed Light Mesa profile.

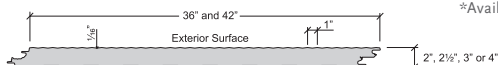
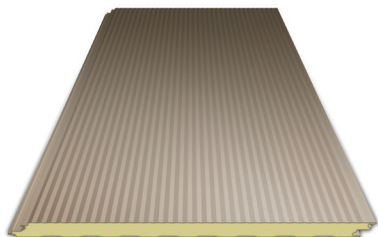
### Product Specifications

- **Application:** Wall (Vertical or Horizontal)
- **Gauges:** Exterior: 24 and 22  
Interior: 26 (standard), 24 and 22 (optional)
- **Widths:** 36" and 42"
- **Thicknesses:** 2", 2½", 2¾", 3" and 4"

- **Length:**  
8'-0" to 32'-0" Santa Fe horizontal unembossed  
8'-0" to 40'-0" Santa Fe vertical embossed
- **Panel Attachment:** Concealed Fastening System
- **Standard Coatings:** Galvalume Plus®, Signature® 200, Signature® 300, Signature® 300 Metallic, Applied Finishes, Igloo White
- **Reveal:** Up to 3" reveal options in ¼", ½", ¾" and 1" increments

\*Available only from Metl-Span's Nevada Plant

## STRIATED



The exterior skin of the Striated panel is profiled with minor striations, giving it a flat look and providing a linear appearance while blending with the panel side joints. This panel is an excellent alternative to typical flat wall panels. The interior skin has a stucco-embossed Light Mesa profile.

### Product Specifications

- **Application:** Wall (Vertical or Horizontal)
- **Gauges:** Exterior: 24 and 22  
Interior: 26 (standard), 24 and 22 (optional)
- **Widths:** 36" and 42"
- **Thicknesses:** 2", 2½", 2¾", 3" and 4"

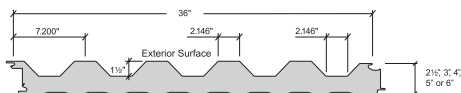
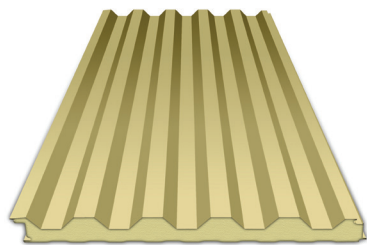
\*Available only from Metl-Span's Nevada Plant

- **Length:**  
8'-0" to 32'-0" horizontal embossed  
8'-0" to 16'-0" horizontal unembossed  
8'-0" to 40'-0" for 24", 30" and 36" vertical embossed  
8'-0" to 32'-0" for 42" vertical embossed  
8'-0" to 16'-0" vertical unembossed
- **Panel Attachment:** Concealed Fastening System
- **Standard Coatings:** Galvalume Plus®, Signature® 200, Signature® 300, Signature® 300 Metallic, Applied Finishes, Igloo White
- **Reveal:** Up to 1" reveal options in ¼" increments



PROJECT: Urology Medical Office LOCATION: Virginia Beach, VA PANEL PROFILE: 7.2 Insul-Rib™ COLOR: Silver Metallic

## 7.2 INSUL-RIB™

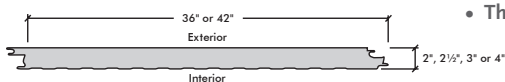
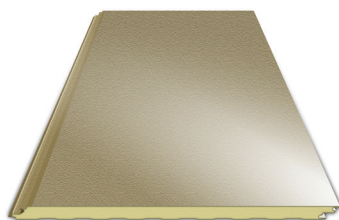


The 7.2 Insul-Rib™ Panel combines a traditional 7.2 rib panel design with a premier polyurethane foam core. The 7.2 Insul-Rib™ Panel can be installed both vertically and horizontally, allowing architects the same design flexibility that is available with our single skin 7.2 Panel.

### Product Specifications

- **Application:** Wall (Vertical or Horizontal)
- **Gauges:** Exterior: 26, 24 and 22 | Interior: 26, 24 and 22
- **Width:** 36"
- **Thicknesses:** 2½", 3", 4", 5" and 6"
- **Length:** 8'-0" to 32'-0" for horizontal  
8'-0" to 40'-0" for vertical
- **Panel Attachment:** Offset Double Tongue-and-Groove with extended metal shelf for positive Concealed Face Fastening
- **Standard Coatings:** Galvalume Plus®, Signature® 200, Signature® 300, Signature® 300 Metallic, Weathered Metal Series and Woodgrain Metal Series (for interior)

## TUFF WALL®



The Tuff Wall® panel is designed for exterior applications where an aggregate look is preferred. The exterior skin of the panel is embossed flat, while the interior skin has the embossed Light Mesa profile. The exterior panel skin is with a stucco look and a Tuff-Cast™ finish resulting in the look of precast concrete.

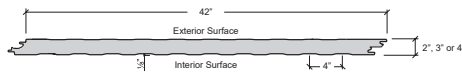
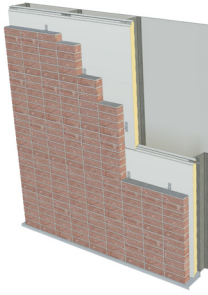
### Product Specifications

- **Application:** Wall (Vertical and Horizontal)
- **Gauges:** Exterior: 24 and 22 | Interior: 26, 24 and 22
- **Widths:** 36" and 42"
- **Thicknesses:** 2", 2½", 3", 4", 5"\* and 6"\*
- **Length:** 8'-0" to 32'-0" for horizontal textured  
8'-0" to 40'-0" for vertical textured
- **Panel Attachment:** Concealed Fastening System
- **Standard Coatings:** Tuff-Cast™, Tuff Wall® and Granite Rock

\*5" and 6" CF Tuff-Cast and Tuff Wall available with Mesa, nominal ⅜" deep profile only



## HPCI BARRIER™



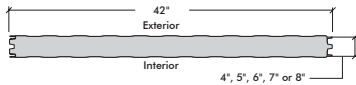
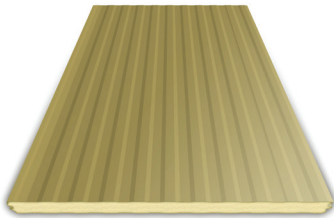
The HPCI Barrier™ insulated metal panel is an air, water, thermal and vapor barrier panel that can be used behind any type of façade. This back-up panel may be installed in a horizontal or vertical orientation completely outside the structural supports. There are no thermal bridges to reduce the energy efficiency of the wall. HPCI Barrier™ is quick and easy to install and provides an economical solution to conventional air, water, thermal and vapor control without sacrificing thermal efficiency. This panel must be separated from the interior of the building by an approved thermal barrier of .5" (12.7 mm) gypsum wallboard to meet IBC requirements.

### Product Specifications

- **Application:** Wall (Vertical or Horizontal)
- **Exterior and Interior Gauges:** 26
- **Width:** 42"
- **Thicknesses:** 2", 2½", 3", 4", 5", 6"
- **Length:** 8'-0" to 32'-0" horizontal  
8'-0" to 52'-0" vertical

- **Insulation Material:** Zero ozone depleting polyurethane
- **Panel Attachment:** Tongue-and-Groove, Concealed Fastener
- **Standard Coating:** White Polyester

## THERMALSAFE®



The ThermalSafe® Panel consists of metal facings bonded to a structural mineral wool core to create a composite panel that achieves fire resistance ratings under the most demanding conditions. Unlike traditional wall materials, the ThermalSafe® Panel offers a level of flexibility architects, contractors and building owners won't find in any other product in the U.S. The mineral wool panel is rated for its 1-, 2- and 3-hour fire resistance qualities and provides satisfactory thermal performance and protection from the elements. The R-value of this panel is 3.61 per inch of insulation.

### Fire Resistant Data

- The finished panel in 4" thickness for one-hour, 7" thickness for two-hour and 8" thickness for three-hour Fire Resistant ratings for nonbearing walls in accordance with UL 263 Fire Endurance tests and ASTM E119 tests
- For more complete Fire Resistant rating data, including Fire Resistant ratings for pipe penetrations both metallic and non-metallic, ducts and fire door and window assembly design installed in an ThermalSafe® wall, go to [www.mbc.com](http://www.mbc.com) or [shop.mbc.com](http://shop.mbc.com) and follow links to Fire Resistant approvals data.
- Wall-framing support members and adjacent construction may require fire protection as specified by applicable building code. The customer is responsible for specifying the appropriate fire protection of these areas.

### Features & Benefits

- Resists high temperatures and will not burn because of mineral wool core
- Can be disassembled, moved and reinstalled rather than having to be demolished, waste materials disposed of and the walls completely rebuilt
- Our exclusive integral spline design eliminates labor to install a separate cement board spline at side joint of panels to maintain the fire rating
- Good sound reduction acoustical properties because of mineral wool
- Dimensionally stable, water repellent and will not expand
- Can be combined with other MBCI panels for an aesthetically consistent profile facing, texture and color

### Product Specifications

- **Application:** Wall (Vertical or Horizontal)
- **Gauges:**  
Exterior: 26 and 24 | Interior: 26 and 24
- **Width:** 42"
- **Thicknesses:** 3", 4", 5", 6", 7" and 8"

- **Length:** 8'-0" to 40'-0", variable by thickness
- **Panel Attachment:** Exposed Fastening System
- **Standard Coatings:** Galvalume Plus®, Signature® 200, Signature® 300, Signature® 300 Metallic, Igloo White





# Materials & Coatings

Insulated metal panels not only come in a wide variety of profiles, but they are also available in a vast assortment of colors and applied finishes.

## COLOR OFFERINGS

Outstanding performance and durability are achieved through our two separate paint systems, Signature® 300 and Signature® 200. MBCI's color offerings provide reflectivity performance meeting ENERGY STAR® criteria. Insulated metal roofing panels are coated with infrared reflective Cool Roof finishes.

## SIGNATURE® 300

This coating is a fluorocarbon paint system formulated with 70% Polyvinylidene Fluoride (PVF2) resins. Fluorocarbon products use either Hylar 5000® (a registered trademark of Solvay Solexis) or Kynar 500® (a registered trademark of Arkema, Inc.) resins. The long-life finish offers the ultimate in color retention, film flexibility and durability. It is highly recommended for architectural applications.

## SIGNATURE® 200

This paint system is a Modified Silicone Polyester paint system. These coatings offer excellent chalk and fade resistance, as well as good weathering characteristics for the commercial, industrial and institutional markets.

## IGLOO WHITE

This paint system offers optimum exterior protection and resistance to chemical corrosion and ultraviolet radiation. This coating provides excellent chalk, fade and mar resistance. As a standard, insulated metal panels are offered with an Igloo White paint finish on the interior skins. Igloo White is an FDA-approved color.

## GALVALUME PLUS®

Galvalume® material has a corrosion resistant aluminum-zinc alloy applied by a continuous hot-dipping process that conforms to ASTM A792 in coating class AZ55. A clear acrylic coating is applied to the Galvalume® to create Galvalume Plus®.

## STAINLESS STEEL

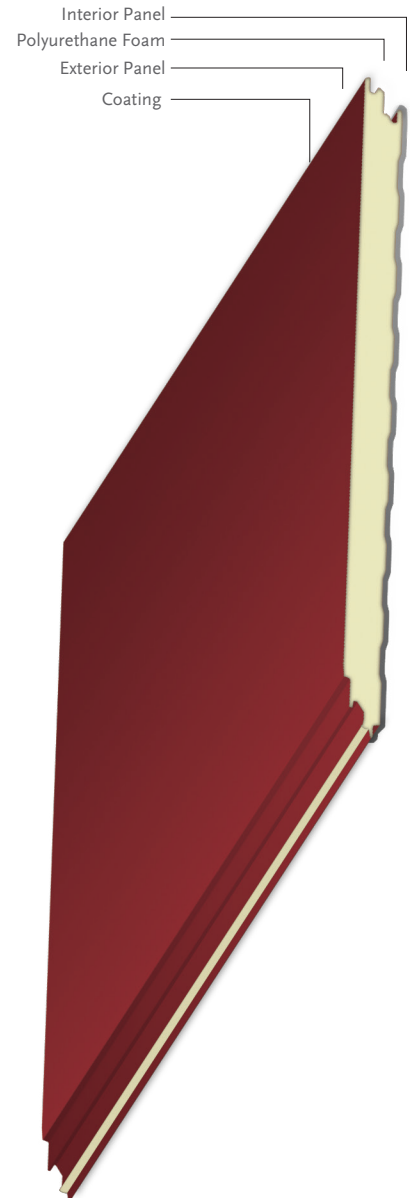
Stainless steel is available for the interior offering for 36" and 42" wide insulated metal panels. It is also available for the exterior substrate of the Royal panel.

## PLASTISOL COATINGS

Plastisol coatings are available for insulated metal panels. The Plastisol substrate extra corrosion resistance needed for metal buildings exposed to acid rain in industrial or chemical environments. It can be used for both roof and wall panels. The standard is 4 Mil white.

## WARRANTIES

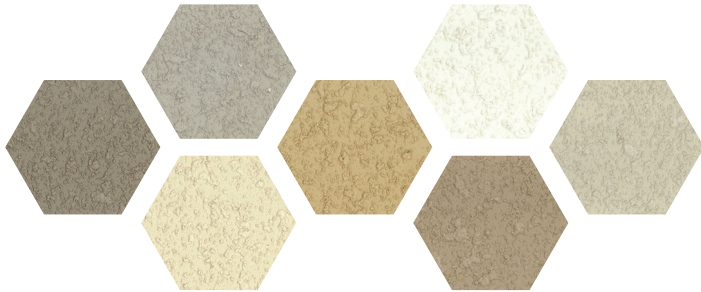
Signature® 300, Signature® 200 and Galvalume Plus are each warranted for exposure to normal atmospheric conditions. See Insulated Metal Panel limited warranty for details.





# Applied Finishes

Our Tuff-Cast™ and Tuff Wall® offer an ideal substitute to masonry or tilt-wall construction



## **TUFF-CAST™ & TUFF WALL® FINISHES**

Insulated metal panels are available with acrylic based textured finishes that provide a pre-cast or stucco-like appearance respectively. Our numerous textured finish offerings allow for an architecturally pleasing look for your exterior design.



## **MBCI: THE NAME YOU CAN TRUST**

When working with MBCI, you get more than just a great product. Our experienced team of professionals is vastly knowledgeable and highly respected throughout the industry.

We want you to be successful, and we want your building project to be a success. Call MBCI today or visit us online at [www.mbc.com/imp](http://www.mbc.com/imp) or [shop.mbc.com](http://shop.mbc.com). We look forward to serving you.





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Descriptions and specifications contained herein were in effect at the time this publication was approved for printing. In a continuing effort to refine and improve products, MBCI reserves the right to discontinue products at any time or change specifications and/or designs without incurring obligation. To ensure you have the latest information available, please inquire or visit our website at [www.mbc.com](http://www.mbc.com). Application details are for illustration purposes only and may not be appropriate for all environmental conditions, building designs or panel profiles. Projects should be designed to conform to applicable building codes, regulations and accepted industry practices. If there is a conflict between this manual and project erection drawings, the erection drawings will take precedence. MBCI's insulated metal panel product line is manufactured by Metl-Span®.