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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

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

- 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

PROJECT: Land Remediation  LOCATION: Waterford, NY  PANEL PROFILE: Light Mesa & Santa Fe
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 embossed but can be smooth 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”, 2⅛”, 3”, 4”, 5” and 6”
- **Length:** 8’-0” to 50’-0”
- **Panel Attachment:** Exposed Fastening System
- **Standard Coatings:** Signature® 200, Signature® 300

*Product manufactured in Canada

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”, 2⅛”, 3”, 4”, 5” and 6”
- **Length:** 9’-6” to 53’-0”
- **Panel Attachment:** Concealed Fastening System
- **Standard Coatings:** Signature® 200, Signature® 300
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.

Product Specifications
- **Application:** Wall
- **Gauges:** Exterior: 22
  Interior: 26 (standard); 24, 22 (optional)
- **Widths:** 24”, 30” and 36”
- **Thicknesses:** 2”, 2 1/2”, 3”, 4”, 5” and 6”
- **Length:** 8’-0” to 32’-0” for vertical embossed
  8’-0” to 16’-0” for vertical unembossed
- **Panel Attachment:** Concealed Fastening System
- **Standard Coatings:** Signature® 200, Signature® 300
- **Reveal:** Up to 1” reveal options in 1/4” increments
  or up to 3” reveal options in 1/2” increments

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 44.4”, and the profiles have 1/8” ribs that are 4” on center.

Product Specifications
- **Applications:** Wall and Ceiling (interior only)
- **Gauges:** 26, 24, 22 (both surfaces)
- **Width:** 44.4”
- **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:** Signature® 200, Signature® 300

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
- **Gauges:** Exterior: 26, 24 and 22
  Interior: 26 (standard); 24 and 22 (optional)
- **Widths:** 30”, 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:** Signature® 200, Signature® 300
  *Available only from Metl-Span’s Nevada Plant.*
CF Light Mesa insulated metal panel is well suited for exterior and interior walls and ceiling applications. The shallower version of the Mesa profile creates symmetry on the outside of the building and room to room within. The minor rib provides a flattened appearance. Light Mesa panels are ideal for commercial, institutional and industrial applications.

**Product Specifications**
- **Application:** Wall
- **Gauges:** Exterior: 26, 24 and 22
  - Interior: 26 (standard), 24 and 22 (optional)
- **Widths:** 30", 36" and 42"
- **Thicknesses:** 2", 2½", 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 16’-0" for vertical unembossed
- **Panel Attachment:** Concealed Fastening System
- **Standard Coatings:** Signature® 200, Signature® 300

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. The interior skin employs an embossed Mesa profile. The CF Fluted panel is available in a width of 42".

**Product Specifications**
- **Application:** Wall
- **Gauges:** Exterior: 26, 24 and 22
  - Interior: 26 (standard), 24 and 22 (optional)
- **Width:** 42"
- **Thicknesses:** 2", 2½", 2½", 3", 4", 5" and 6"
- **Length:**
  - 8’-0" to 32’-0" for horizontal
  - 8’-0" to 16’-0" for vertical
- **Panel Attachment:** Concealed Fastening System
- **Standard Coatings:** Signature® 200, Signature® 300

The Santa Fe® exterior skin has a flat exterior profile with an Aztec-embossed pattern resembling a masonry stucco finish. The interior skin employs an embossed Light Mesa profile.

**Product Specifications**
- **Application:** Wall
- **Gauges:** Exterior: 24 and 22
  - Interior: 26 (standard), 24 and 22 (optional)
- **Widths:** 30", 36" and 42"
- **Thicknesses:** 2", 2½", 2¼", 3", 4" and 4"
- **Length:**
  - 8’-0" to 32’-0" Santa Fe horizontal
  - 8’-0" to 40’-0" Santa Fe vertical
- **Panel Attachment:** Concealed Fastening System
- **Standard Coatings:** Signature® 200, Signature® 300
- **Reveal:** Up to 1" reveal in ¼" increments
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 an embossed Light Mesa profile.

**Product Specifications**
- **Application:** Wall
- **Gauges:** Exterior: 24 and 22
  Interior: 26, 24 and 22
- **Width:** 24"*, 30", 36" and 42"
- **Thicknesses:** 2", 2 ½", 3", 4", 5" and 6"

*Available only from Metl-Span’s Nevada Plant

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
- **Gauges:** Exterior: 26, 24 and 22
  Interior: 26, 24 and 22
- **Width:** 36"
- **Thicknesses:** 3", 4", 5" and 6"

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 coated with a Tuff Cote® Applied Finish resulting in a EIFS or stucco-like look without any of the maintenance.

**Product Specifications**
- **Application:** Wall
- **Gauges:** Exterior: 24 and 22
  Interior: 26, 24 and 22
- **Widths:** 24"*, 30", 36" and 42"
- **Thicknesses:** 2", 2 ½", 3", 4", 5"* and 6"*

*5" and 6" CF Tuff-Cast and Tuff Wall available with Mesa, nominal ⅛" deep profile only
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 ThermalSafe panel is available in either Ultra-Light Mesa, Santa Fe or Striated exterior profiles.

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 non-bearing walls in accordance with UL 263 Fire Endurance tests and ASTM E119 tests
- For more complete Fire Resistant rating data, including Fire Resistants for pipe penetrations both metallic and non-metallic, ducts and fire door and window assembly design installed in an ThermalSafe® wall, go to www.mbci.com or shop.mbci.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
- 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: Exposed Fastening System
- Standard Coatings: Signature 200, Signature 300

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

THERMALSAFE®

TUFF-CAST®

CF Tuff-Cast is an attractive insulated metal panel with the appearance of finished precast concrete. The exterior surface of the panel is a hard-aggregated fiber reinforced polymer coating created with the factory-applied Tuff Cote® finish system. Tuff Cote® finish offers an extremely durable, impact and abrasion-resistant coating that can withstand severe weather conditions.

Product Specifications
- Application: Wall
- Gauges: Exterior: 24 and 22
  Interior: 26 (standard), 24 and 22 (optional)
- Width: 36” and 42”
- Thicknesses: 2”, 2½”, 3”, 4”, 5½” 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: Factory applied Tuff Cote® textured finish

*5” and 6” CF Tuff-Cast and Tuff Wall available with Mesa, nominal ½” deep profile only
BENEFITS OF BACKUP WALL SYSTEMS

BW Systems are the ultimate backup wall systems, providing superior air, water, thermal and vapor protection in an all-in-one barrier component compared to traditional multi-component wall systems.

BUILDING BENEFITS

- Provides an air barrier, vapor barrier and moisture control, drain plane and superior thermal performance in one composite assembly.
- Encloses the building faster in all weather conditions.
- Works well for all building types in all climates.
- Assembly thermal performance achieves u-factors that exceed International Energy Conservation Code® (IECC) requirements in all climate zones.
- BW with different wall assemblies meets the requirements for the NFPA 285 multi-story fire test.
- Fully tested for air, water infiltration, vapor and thermal performance.

TESTING

Building and energy code compliance are critical parts of any construction project. BW provides a superior solution for these requirements and outperforms multi-component wall assemblies. BW System exceeds IECC energy performance requirements based on u-factors tested in accordance with ASTM C1363. BW System compliance is based on using the u-factor Alternative Method as published in a table by climate zone in the IECC. BW has several wall assemblies that pass NFPA 285 and it meets the most rigorous standards in IBC Chapter 26. BW’s single component design provides a simpler, faster and more thermally efficient solution.

PROJECT: New Tech Headquarters  LOCATION: Mansfield, TX  PANEL PROFILE: PBU
BW Systems are the ultimate backup wall systems, providing superior air, water, thermal and vapor protection in an all-in-one barrier component compared to traditional multi-component wall systems. They can be vertically and horizontally installed with nearly any type of exterior rainscreen system. These unique insulated metal wall panel systems introduce new standards in cost savings, design integrity and sustainability. Easily and quickly installed in a single step, the BW Systems eliminate the need for multiple work crews, expediting close-in/dry-in building times and reducing the likelihood of improper installation.

**Single Component vs. Multi-component**

With its single component construction, BW is a vast improvement over traditional multi-component building technology. A single component means a single source of responsibility, including less coordination, fewer scheduling and interface issues, and one-step installation by one contractor. Together, this adds up to a faster, more efficient construction process.
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 0.5” (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
- **Insulation Material:** Zero ozone depleting polyurethane
- **Panel Attachment:** Tongue-and-Groove, Concealed Fastener
- **Standard Coating:** White Polyester

BW UNIVERSAL SYSTEM™

The BW Universal System is the ultimate backup wall system providing superior air, water, thermal and vapor protection in an all-in-one barrier component. It can be horizontally installed with nearly any type of exterior rainscreen system, from single skin and modular metal panels to brick, ACM panels and others. It spans up to 24” o.c.

**Product Specifications**
- **Application:** Wall (Horizontal)
- **Exterior and Interior Gauges:** Exterior: 29 | Interior: 29
- **Width:** 32”*, 36”
- **Thicknesses:** 2”, 3”
- **Length:** 12’-0” or 20’-0”
- **Insulation Material:** Polyisocyanurate
- **Panel Attachment:** Panel Clips, pre-punched rails integrated with the panel joinery and integrated brick tie clips.
- **Standard Coating:** Epoxy Primer

*Primarily for brick applications

**Rainscreen selection guide**

<table>
<thead>
<tr>
<th>RAINSCREEN</th>
<th>BWUH RAIL*</th>
<th>BWUV RAIL</th>
<th>BRICK TIES</th>
<th>PANEL CLIPS*</th>
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<tr>
<td>Horizontal Profile Panels</td>
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<td>Vertical Profile Panels</td>
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<td>Brick</td>
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<td>Terra Cotta</td>
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<td>ACM Panels</td>
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<td>X-vert.</td>
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<td>Honeycomb Panels</td>
<td>X-horiz.</td>
<td>X-vert.</td>
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<td>Stucco</td>
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<td>Perforated Panels</td>
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*Additional subgirts are required.
The BW Stretch System is the ultimate backup wall system providing superior air, water, thermal and vapor protection in an all-in-one barrier component. It can be vertically installed with multiple types of exterior rainscreen systems and can span up to 6 ft. o.c.

**Product Specifications**
- **Application:** Wall (Vertical)
- **Exterior and Interior Gauges:**
  - Exterior: 22 | Interior: 26
- **Width:** 30", 36"
- **Thicknesses:** 2", 2½", 4"
- **Length:** 12'-0" or 20'-0"
- **Insulation Material:** Polyisocyanurate
- **Panel Attachment:** Panel Clips
- **Standard Coating:** Epoxy Primer

**Rainscreen selection guide**

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<thead>
<tr>
<th>RAINSCREEN</th>
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<tbody>
<tr>
<td>Horizontal Profile Panels</td>
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<tr>
<td>Vertical Profile Panels</td>
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</tbody>
</table>

*Additional subgirts are required.*
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.

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.

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.

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 USDA Compliant color.

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 is available for the interior offering for 36” and 42” wide insulated metal panels.

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.

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 EIFS 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.mbci.com/imp or shop.mbci.com. We look forward to serving you.

PROJECT: Soul City Church
LOCATION: Bloomingdale, IL
PANEL PROFILE: 7.2 Insul-Rib
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.mbci.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®.

For current information, visit our website at www.mbci.com.