PRODUCT SHOWCASE
INSULATED METAL PANELS

METL-SPAN DELIVERS HIGH-QUALITY, DURABLE AND ENERGY-EFFICIENT SOLUTIONS DESIGNED FOR UNPARALLELED PERFORMANCE TO STAND THE TEST OF TIME.

Metl-Span is a dynamic industry innovator dedicated to manufacturing and providing the highest quality insulated building panel products. Since our origination in 1968, we have been pioneers in research, design, production and sale of state-of-the-art insulated metal panels for institutional, commercial, industrial and cold storage buildings.

Metl-Span ensures you will remain on-time and on-budget with your building projects through our unmatched customer service. Because our employees understand your needs and are committed to your success, we provide you with the tools needed to incorporate our insulated panels into virtually any building design.

**WHY INSULATED METAL PANELS (IMPs)**

**FEATURES & BENEFITS**

- **ALL-IN-ONE BARRIER**
  Metl-Span panels are comprised of an advanced urethane core* that is injected between two pre-finished steel facings, forming a single, all-in-one unit. The result is the most thermally efficient panel available. Wall panels also have a specially formed side joint that permits the hidden application of sealant within recessed grooves, creating an impenetrable water and vapor seal that protects your building against extreme weather.

- **TIME**
  Metl-Span panels are pre-fabricated units, shipped to the jobsite ready-to-install in nearly all types of weather.

- **LABOR COSTS**
  Insulated metal panels are designed for easy and efficient installation to keep your project on schedule with concealed fastener system in the side joint. It allows quick installation, reducing construction time and getting closed in sooner.
  IMPs reduce the amount of labor trades associated with conventional multi-component wall and roof assemblies. IMPs all-in-one construction provides all the necessary thermal, air, vapor and water barriers in a single product.

- **ENERGY EFFICIENCY**
  Each insulated metal panel contains an advanced urethane core* that provides highly efficient insulation to drive down building energy usage and overall costs.

- **PRESENCE**
  Metl-Span strives to offer production dates determined by customer needs, not manufacturer convenience. With manufacturing locations across the United States and Canada, Metl-Span offers faster service to our customers and reduced transportation costs.

- **GREEN STANDARDS/SUSTAINABLE**
  Metl-Span panels are sustainably constructed, qualifying many buildings for credits in the Leadership in Energy and Environmental Design (LEED®) Rating System.

- **FIRE-RESISTANT SOLUTIONS**
  Composite IMPs are available, using non-structural mineral wool insulation fabricated and tested to achieve the needed fire ratings.

- **DESIGN FLEXIBILITY**
  Metl-Span panels are available in a variety of flat and corrugated surfaces suitable for exterior walls, interior walls and roofs. They come in multiple profiles that can be used in either horizontal or vertical designs with custom modular widths and corners. Rounding things out is the full range of colors, reveals, and detail accessories that can support or enhance any design.

*ThermatSafe panels contain a fire-resistive mineral wool core.
IMPs create the perfect envelope solution in one easy step compared to traditional multi-component built-up systems.

**INSULATED METAL PANELS**

**INSULATED METAL PANEL WALL**
- Double joint system provides redundancy against leakage.
- Rigid, continuous insulation, no loss of R-value due to compression.
- Meets or exceeds energy code requirements in ALL climate zones.
- FM 4880 Class 1 approved. Suitable for use in combustible and non-combustible construction per IBC chapter 26.

**BACKUP WALL WITH BRICK OVERLAY**
- All-in-one barrier component wall simplifies design and installation.
- Eliminates condensation risks associated with cavity walls.
- Meets energy code requirements in ALL climate zones.
- Single step installation provides savings when labor costs are high.

**INSULATED METAL PANEL ROOF**
- IMPs are rigid, no loss of R-value due to compression.
- Weathertight seams ensure proper performance against leakage.
- Panels are factory notched and swaged for ease of installation.
- Panels contain all necessary control layers (air, water, vapor and thermal).

**TRADITIONAL BUILT-UP METHODS**

**SINGLE LAYER WALL**
- No redundancy - failures in barrier wall result in uncontrolled leakage.
- Compressed insulation can reduce in-place R-values by as much as 40%.
- Vapor barrier facing subject to wear and tear, damaging air/vapor barrier integrity.

**BACKUP WALL WITH BRICK OVERLAY**
- Cavity wall design is complex and varies with climate zone.
- Multiple component walls require different trades, increasing construction time and risk.
- Cavity based insulation can reduce rated R-values by up to 40%.

**MULTI-COMPONENT WALLS**
- Increases wall design complexity.
- Multiple components = multiple trades = increased labor cost and risk.
- Barrier wall design may vary with climate zone.

**SINGLE LAYER ROOF**
- Compression of insulation results in R-value drops of as much as 40%.
- No longer possible to meet energy codes in many areas with this system.

**CAVITY FILLED ROOF**
- Multiple components increase installation time.
- Installation requires working over and under roof.
- Air/vapor barrier is punctured by purlin bracing.
- Air/vapor barrier difficult to install in wind, hard to keep smooth and flat.
Ideally suited for cold storage, commercial and industrial buildings - such as, education, warehouses, healthcare, offices and many more. In addition, retrofit renovations are a great option for upgrading appearances and adding insulation values to existing structures. Metl-Span insulated metal panels can help make your dream building become a reality and add to LEED certification.

WHAT WE’VE DONE

A LOOK AT OUR WORK

PROJECT: THE CANNON
Panel Type: 7.2 Insul-Rib
Location: Houston, Texas

PROJECT: FRESH DIRECT
Panel Type: Light Mesa, Mesa
Location: Bronx, New York

PROJECT: THE PABLO CENTER AT THE CONFLUENCE
Panel Type: 7.2 Insul-Rib
Location: Eau Claire, Wisconsin
RETROFITS
APPLICATIONS

Metl-Span IMPs are an ideal solution for retrofit construction including: Walls, Ceilings and Roofs. Retrofitting is the most efficient and cost-effective way to get your building up to code while maintaining business operations inside.

PROJECT: 54 MIDDLESEX
PANEL TYPE: CF ARCHITECTURAL
LOCATION: BEDFORD, MASSACHUSETTS

BEFORE

AFTER

WATCH VIDEO
Due to their excellent insulating and weatherproofing characteristics, as well as their very competitive installation cost, Metl-Span panels are ideally suited for use as walls, ceilings and roofs for commercial, industrial and institutional buildings of virtually any scale, in both new and retrofit construction.

### Project Specifications

**Project:** South Carolina Aeronautical Training Center  
**Panel Type:** CF Architectural Vertical  
**Location:** North Charleston, South Carolina

#### CF Architectural Vertical

**Panel Specifications**

- **Width:** 24", 30", 36"  
- **Thickness:** 2", 2½", 3", 4"  
- **Length:** Non-Directional Embossed  
  - 8’-0” to 32’-0”  
  - Unembossed  
  - 8’-0” to 16’-0”

**Exterior Profile:** Flat appearance providing a monolithic look, embossed or unembossed

**Exterior Face:** G-90 galvanized or AZ-50 aluminum-zinc coated steel in 22 Ga.

**Interior Profile:** Light Mesa, nominal 1/16” deep, embossed or unembossed

**Interior Face:** G-90 galvanized or AZ-50 aluminum-zinc coated steel in 26, 24 and 22 Ga.

**Joint:** Offset double tongue-and-groove with extended metal shelf for positive face fastening

**Reveal:** Up to 1” reveal options in 1/4” increments or up to 3” reveal options in 1/2” increments

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**Contact Metl-Span for reveal options. | ●Endfolds, factory pre-formed corners and trimless ends available. | ●Available only from Nevada plant. | ●Not available as an exterior application. | Contact Metl-Span for custom length availability.**
PROFILED

CF STRIATED

PANEL SPECIFICATIONS
Width: 24", 30", 36", 42"
Thickness: 2", 2½", 2¾", 3", 4"
Length: Non-directional embossed
- 8'-0" to 32'-0" Horizontal
- 8'-0" to 40'-0" for 24", 30", 36" Vertical
- 8'-0" to 32'-0" for 42" Vertical
- Unembossed
- 8'-0" to 16'-0" Horizontal
- 8'-0" to 16'-0" Vertical

Exterior Profile: Longitudinal striations, nominal 1/32" deep, embossed or unembossed
Interior Profile: Light Mesa, nominal 1/16" deep, embossed or unembossed
Interior Face: G-90 galvanized or AZ-50 aluminum-zinc coated steel in 26, 24 and 22 Ga.
Joint: Offset double tongue-and-groove with extended metal shelf for positive face fastening

CF MESA

PANEL SPECIFICATIONS
Width: 30", 36", 42"
Thickness: 2", 2½", 3", 4", 5", 6"
Length: Non-directional embossed
- 8'-0" to 32'-0" Horizontal
- 8'-0" to 52'-0" Vertical
- Unembossed
- 8'-0" to 16'-0" Horizontal
- 8'-0" to 40'-0" Vertical

Exterior Profile: Longitudinal corrugations spaced at nominal 4" on center, nominal 1/8" deep, embossed or unembossed
Interior Profile: Mesa, nominal 1/8" deep or Light Mesa, nominal 1/16" deep, embossed or unembossed
Interior Face: G-90 galvanized or AZ-50 aluminum-zinc coated steel in 26, 24 and 22 Ga.
Joint: Offset double tongue-and-groove with extended metal shelf for positive face fastening

CF LIGHT MESA

PANEL SPECIFICATIONS
Width: 30", 36", 42"
Thickness: 2", 2½", 3", 4", 5", 6"
Length: Non-directional embossed
- 8'-0" to 32'-0" Horizontal
- 8'-0" to 52'-0" Vertical
- Unembossed
- 8'-0" to 16'-0" Horizontal
- 8'-0" to 40'-0" Vertical

Exterior Profile: Lightly profiled 1/16" deep, longitudinal corrugations spaced at nominal 4" on center, embossed or unembossed
Interior Profile: Light Mesa, nominal 1/16" deep, embossed or unembossed
Interior Face: G-90 galvanized or AZ-50 aluminum-zinc coated steel in 26, 24 and 22 Ga.
Joint: Offset double tongue-and-groove with extended metal shelf for positive face fastening

CF FLUTE

PANEL SPECIFICATIONS
Width: 42"
Thickness: 2", 2½", 2¾", 3", 4", 5", 6"
Length: Non-directional embossed
- 8'-0" to 32'-0" Horizontal
- 8'-0" to 52'-0" Vertical
- Unembossed
- 8'-0" to 16'-0" Horizontal
- 8'-0" to 40'-0" Vertical

Exterior Profile: 1" wide, nominal 3/8" deep, longitudinal reveals at 8.4" on center, embossed
Interior Profile: Light Mesa, nominal 1/8" deep or Light Mesa, nominal 1/16" deep, embossed or unembossed
Interior Face: G-90 galvanized or AZ-50 aluminum-zinc coated steel in 26, 24 and 22 Ga.
Joint: Offset double tongue-and-groove with extended metal shelf for positive face fastening

**CF 7.2 INSUL-RIB**

**PANEL SPECIFICATIONS**
- **Width:** Nominal 36”
- **Thickness†:** 3”, 4”, 5”, 6” (Rib height included in thickness)
- **Length:**
  - **NON-DIRECTIONAL EMBOSSED**
    - 8'-0” to 32'-0” Horizontal
    - 8'-0” to 40'-0” Vertical
  - **UNEMBOSSED**
    - 8'-0” to 32'-0” Horizontal
    - 8'-0” to 40'-0” Vertical
- **Exterior Profile:** 7.2” on center rib pattern, 1 ½” tall, embossed or unembossed
- **Exterior Face:** G-90 galvanized or AZ-50 aluminum-zinc coated steel in 26, 24 and **22 Ga.**
- **Interior Profile:** Mesa, nominal 1/8” deep, embossed or unembossed
- **Interior Face:** G-90 galvanized or AZ-50 aluminum-zinc coated steel in 26, 24 and 22 Ga.
- **Joint:** Offset double tongue-and-groove with extended metal shelf for positive face fastening

**LS-36**

**PANEL SPECIFICATIONS**
- **Width:** 36”
- **Thickness:** 1½”, 2”, 2½”, 3”, 4”, 5”, 6” (Rib height not included in thickness)
- **Length:**
  - **NON-DIRECTIONAL EMBOSSED**
    - 8’-0” to 50’-0” Vertical
  - **UNEMBOSSED**
    - 8’-0” to 50’-0” Vertical
- **Exterior Profile:** 1½” high major ribs at 12” on center, embossed or unembossed
- **Exterior Face:** G-90 galvanized or AZ-50 aluminum-zinc coated steel in 26, 24 and 22 Ga.
- **Interior Profile:** Mesa, nominal 1/4” deep, embossed or unembossed
- **Interior Face:** G-90 galvanized or AZ-50 aluminum-zinc coated steel in 26, 24 and 22 Ga.
- **Joint:** Overlapping with a single tongue-and-groove
- **Fastening:** Exposed through fasteners
- **Uplift Performance:** FM Approvals Standard 4471

*Contact Metl-Span for reveal options.* | ●Endfolds, factory pre-formed corners and trimless ends available. | *Available only from Nevada plant.*

±Center-to-center corrugation spacing, may vary by manufacturing location. | **Not available in unembossed.**

+ Not available as an exterior application. | Contact Metl-Span for custom length availability.
FIRE RESISTANCE
THERMALSAFE® & THERMALSAFE NON-EXPOSED FASTENER (NEF)
Achieves a one-, two- or three-hour fire resistance rating for walls and 1.5 hours for ceilings.

INTERIOR PARTITION

**THERMALSAFE CLEANSEAM**

**PANEL SPECIFICATIONS**

**Width:** 42”, 44.4”

**Thickness:** 2”, 3”, 4”, 5”, 6”

**Length:** 8’-0” to 20’-0”

**FRP Face Profile:** No profile, 0.075” thick, Class A, unembossed FRP, USDA Compliant

**Non FRP Face Profile:** Mesa, nominal 1/8” deep, embossed or Light Mesa, nominal 1/16” deep, embossed

**Substrate:** G-90 galvanized or AZ-50 aluminum-zinc coated steel or 304 or 316 stainless steel in 26, 24 and 22 Ga.

**CleanSeam Sealant:** Two-part compound which seals the panel surfaces for a smooth, durable finish—virtually impervious seal to prevent water penetration

**Core:** Foamed-in-place, zero ozone depleting (zero ODP) Class 1 foam

**Finish Option:** Non-FRP faces available with USDA Compliant polyester coating, igloo white color.

**Fastening:** Available with either through-fastening across the width of the panel to the support framing or non-exposed fastening (NEF) by securing through the back of the panel for a flush visual appearance.

Consult fire-resistant listings for fastener types and spacing. Fastening patterns may vary depending on specific windload and fire-resistant requirements.
<p>PANEL SPECIFICATIONS</p>

**Width:** 36", 42"

**Thickness:** 2”, 2 ½”, 3”, 4”, 5”, 6”†

**Length:**
- 8’-0” to 32’-0” Horizontal
- 8’-0” to 40’-0” Vertical

**Exterior Profile:**
- Factory-applied Tuff Cote® system textured finish similar to stucco and pre-cast like finish
- G-90 galvanized or AZ-50 aluminum-zinc coated steel in 24 and 22 Ga.

**Interior Profile:**
- Light Mesa, nominal ¼” deep, embossed or unembossed
- G-90 galvanized or AZ-50 aluminum-zinc coated steel in 26, 24 and 22 Ga.

**Joint:**
- Offset double tongue-and-groove with extended metal shelf for positive face fastening

**Core:** Foamed-in-place, Non-CFC & zero ODP Polyurethane, FM Approved Class 1 with no height restrictions

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**Thermal Values:**

- K-Factor** @ 75° F (24° C) is 0.14, @ 40° F (4° C) is 0.126

**Exterior Texture:** Tuff Cote® finish system—a hard aggregated fiber-reinforced polymer coating

**Exterior Coatings:**
- 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.

**Fastenings:**
- Fastener and clip concealed in the side joint

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† Mesa 1/8” profile.

**Contact Metl-Span for reveal options.**

**Endfolds, factory pre-formed corners and trimless ends available.**
SINGLE-PANEL BARRIER WALL

HPCI BARRIER

PANEL SPECIFICATIONS
Width: 42”
Thickness: 2”, 2 ½”, 3”, 4”, 5”, 6”
Length: Non-directional embossed
8’-0” to 32’-0” Horizontal
8’-0” to 52’-0” Vertical
Exterior Profile: Longitudinal ribs, spaced at nominal 4” on center, nominal 1/16” deep, embossed
Exterior Face: G-90 galvanized or AZ-50 aluminum-zinc coated steel in min. 26 Ga.
Interior Profile: Light Mesa, nominal 1/16” deep, embossed or unembossed
Interior Face: G-90 galvanized or AZ-50 aluminum-zinc coated steel in 26 Ga.
Joint: Offset double tongue-and-groove with extended metal shelf for positive face fastening
Core: Foamed-in-place, zero ozone-depleting polyurethane (zero ODP)
Thermal Value: K-Factor** @ 75° F (24° C) is 0.140

BW SYSTEMS

BW UNIVERSAL SYSTEM™

PANEL SPECIFICATIONS
Width: 32”, 36”
Thickness: 2”, 3”
Length: 12’-0” or 20’-0” Horizontal
Exterior Profile: No profile, unembossed
Exterior Face: AZ-50 aluminum-zinc coated steel in 29 Ga. with epoxy primer finish
Interior Profile: Shallow Planked, nominal 1/4” deep, unembossed
Interior Face: AZ-50 aluminum-zinc coated steel in 29 Ga. with epoxy primer finish
Joint: Tongue-and-groove with concealed face fastening
Core: Foamed-in-place polyisocyanurate
Span Capabilities: Up to 24” o.c.

BW STRETCH SYSTEM™

PANEL SPECIFICATIONS
Width: 30”, 36”
Thickness: 2”, 2 ¼”, 4”
Length: 12’-0” or 20’-0” Vertical
Exterior Profile: No profile, unembossed
Exterior Face: G-90 galvanized aluminum-zinc coated steel in 22 Ga. with epoxy primer finish
Interior Profile: Shallow Planked, nominal 1/4” deep, unembossed
Interior Face: G-90 galvanized aluminum-zinc coated steel in 26 Ga. with epoxy primer finish
Joint: Double tongue-and-groove
Core: Foamed-in-place polyisocyanurate
Span Capabilities: Greater than 24” o.c., up to 6’

**K-Factor calculations: Btu in/hr/°F ft2. Contact Metl-Span for custom length availability. † Primarily for brick application
## Panel Specifications

### CFR

- **Width**: 30", 36", 42"
- **Thickness**: 2", 2½", 3", 4", 5", 6"
- **Length**: Non-directional embossed 9'-0" to 53'-0", contact Metl-Span for custom availability.
- **Exterior Profile**: 2" high standing seam with a Mesa profile between the seams, embossed.
- **Exterior Face**: G-90 galvanized or AZ-50 aluminum-zinc coated steel in 24 and 22 Ga.; or AZ-55 aluminum-zinc coated steel with a clear acrylic coating in 24 Ga.
- **Interior Profile**: Mesa, nominal 1/8" deep, embossed or unembossed.
- **Interior Face**: G-90 galvanized or AZ-50 aluminum-zinc coated steel in 26, 24 and 22 Ga.
- **Joint**: Concealed clip mechanically seamed singlelock standing seam at the exterior side joint. The interior side joint is a single tongue-and-groove interlock.
- **Uplift Performance**: UL 90 rated, FM Approvals Standard 4471, and Florida Building Code approved. Dade County NOA.

### LS-36

- **Width**: 36"
- **Thickness**: 1½", 2", 2½", 3", 4", 5", 6"
- **Length**: Non-directional embossed 8'-0" to 50'-0" Vertical, embossed; 8'-0" to 50'-0" Vertical, unembossed.
- **Exterior Profile**: 1½" high major ribs at 12" on center, embossed or unembossed.
- **Exterior Face**: G-90 galvanized or AZ-50 aluminum-zinc coated steel in 26, 24 and 22 Ga.
- **Interior Profile**: Mesa, nominal 1/8" deep, embossed.
- **Interior Face**: G-90 galvanized or AZ-50 aluminum-zinc coated steel in 26, 24 and 22 Ga.
- **Joint**: Overlapping with a single tongue-and-groove interlock.
- **Fastening**: Exposed through fasteners.
- **Uplift Performance**: FM Approvals Standard 4471.
The Cannon, a 120,000 square foot modern, flexible workspace, provides innovators with everything they need to establish a home base for their companies. Home to more than 500 of Greater Houston's most talented and accomplished entrepreneurs, creatives and small business owners, The Cannon includes 131 offices, 300 open and dedicated desks, a movie theatre, game room, event space, full-service kitchen, a health and wellness room and a courtyard with outdoor seating. The facility is marketed as "a citywide ecosystem for Houston's entrepreneurs, small businesses, freelancers and creatives."

Insulated metal panels also helped achieve the desired appearance, inside and outside.

“We could have gone the conventional route, with insulation and drywall, but we really wanted to maintain some of the original look of the building," says Ken R. Harry, AIA, NCARB, LEED AP, Principal of Abel Design Group of Houston. "With the insulated metal panels, we were able to leave the interior beams and columns exposed. Plus, we got the levels of insulation that were required for the roof and walls. Right from the start, it seemed like the logical way to go."

CF42™ insulated metal roofing panels, with 4 inches of urethane insulation, in the color of Burnished Slate. The exterior panels were 24-gauge Galvalume. The wall panels were two profiles and colors: 37,858 square feet of CF7.2 Insul-Rib in Burnished Slate and 9,437 square feet of CF Architectural 36" in Chestnut, both with 22-gauge Galvalume exterior panels. All interior panels were 24-gauge Galvalume in Igloo White.

Baldwin says FSR needed 180 working days to install the IMPs; but ran into weather delays during the rainy Houston summer of 2019, which pushed back the original completion date approximately 90 days. The project was completed in August 2019.

“We were basically working in a mudhole all summer,” Baldwin says. “There were a lot of days we couldn’t get anything done. Our equipment was buried in the mud.”

The original building was stripped down to the steel structure. Some of the 70-year-old purlins and cross members had to be replaced.

“We had to verify every dimension of all the beams so shop drawings could be accurate,” says David Baldwin, Sales Manager at FSR Services of Houston. “The beams were painted, and the insulated metal panels were installed. The bright blue beams against the white interior finish of the insulated metal panel is a very modern and clean look.”

The project called for approximately 67,775 square feet of Metl-Span’s CF42™ insulated metal roofing panels, with 4 inches of urethane insulation, in the color of Burnished Slate. The exterior panels

**FEATURED PRODUCT**

**CF7.2 Insul-Rib**

**PANEL SPECIFICATIONS**

**Window Height:** Available in increments matching standard wall panel widths of 24", 30" and 36". Custom widths and corresponding heights are available between 12" and 36".

**Window Width:** Virtually unlimited widths are obtainable using spliced head and sill members in combination with intermediate vertical muntins. Window unit jambs can be located to match with vertical wall panel joints or located away.

**Glazing Material Thickness:** Standard 1".

**Window Projection:** The frame is 4" deep and designed to fit flush with exterior panels.

**FINISHES**

Anodized: Clear, Dark Bronze, Black

2-Coat Painted: Custom color consisting of fluoropolymer coatings

3-Coat Painted: Custom color consisting of fluoropolymer coatings and clear coat

Mill Finish: Bare aluminum

**CASE STUDY**

**THE CANNON**

Metl-Span has developed the Metl-Vision® window system to further complement the exceptional architectural aesthetics and function of Metl-Span's horizontal wall panels. Metl-Vision® is the first window system engineered to integrate fully with Architectural 2" and 3" horizontal wall panels. The Metl-Vision® flush frame eliminates interface problems commonly encountered with standard windows, and minimizes sight lines to enhance finished assembly appearance. The system offers great flexibility in window size, multiple lite configurations and window-finish options.

**METL-VISION®**

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Window Width: Virtually unlimited widths are obtainable using spliced head and sill members in combination with intermediate vertical muntins. Window unit jambs can be located to match with vertical wall panel joints or located away.

Glazing Material Thickness: Standard 1".

Window Projection: The frame is 4" deep and designed to fit flush with exterior panels.

**FINISHES**

Anodized: Clear, Dark Bronze, Black

2-Coat Painted: Custom color consisting of fluoropolymer coatings

3-Coat Painted: Custom color consisting of fluoropolymer coatings and clear coat

Mill Finish: Bare aluminum
TESTING & CERTIFICATIONS

FM APPROVAL
Mettl-Span products carry a standard FM Approval Class 1 certification. The FM Approval certification mark verifies products and services will meet stated conditions of performance, safety and quality useful to the ends of property conservation.

Approval criteria for Class 1 are observation of test sample production, performance requirements, marking requirements, examination of manufacturing facilities, audit of quality assurance procedures and a follow-up program.

This FM Approval Class 1 rating ensures your investment is a quality product that consistently performs to the standards specified.

THIRD-PARTY CERTIFICATIONS & LISTINGS FOR CF FOAM PANELS
The panels are certified and listed by third-party agencies and tested in accordance with ASTM E84, ASTM E119, CAN/ULC S101, S102, S107, S126, S134, S138, NFPA 259, NFPA 285 and NFPA 286.

FIRE-RESISTANCE TESTS (THERMALSAFE ONLY)
FM Approval Standard 4880 internal wall and ceiling panels, ASTM E119, CAN/ULC S101, UL 263

The ThermalSafe product offers one-, two- and three-hour fire resistance for non-load-bearing walls and a 90-minute fire-resistance rating for a non-load-bearing ceiling.

- 4" thickness offers one-hour fire resistance wall listing at UL and Intertek
- 6" thickness offers two-hour fire-resistance wall listing and a 90-minute ceiling listing at Intertek
- 7" thickness offers two-hour fire resistance wall listing at UL
- 8" thickness offers three-hour fire resistance wall listing at UL and Intertek

MIAMI DADE COUNTY NOAS
CF wall panels installed vertically or horizontally and CFR roof panels are approved to be installed in the county subject to the conditions of the published notices of acceptance.

STATE OF FLORIDA
Mettl-Span CF Series and ThermalSafe panels all have State of Florida product approval.

CITY OF LOS ANGELES RESEARCH REPORT
ICC Evaluation Service Report ESR - 2218, applicable to CF Flute, CF Mesa, and CF Partition Panels.

ENVIRONMENTALLY CONNECTED
Given today’s emphasis on performance-driven building design and construction, Mettl-Span products offer the best solution to help optimize building efficiency for architects, contractors and owners.

Mettl-Span, as part of the Cornerstone Building Brands family, leads the industry in the development of energy-efficient and cost-effective insulated metal panel systems, through UL-certified and ISO-compliant products. Our company has been dedicated to a cleaner, safer environment since our origination in 1968. As evidence of our leadership in this role, we offer an Environmental Product Declaration (EPD), which provides a detailed analysis of our products’ environmental manufacturing footprint, based on an ISO-compliant Life Cycle Assessment (LCA).

Mettl-Span’s LCA measures the impact of our products on the environment during all phases of their life, from supply chain through the manufacturing process to product use and end of life. ISO LCA standards are applied to accurately report the products’ impact on the environment.

See metlspan.com for published EPD and LCA.

DESIGN OPTIONS

APPLICATION
Mettl-Span insulated metal panels provide you design flexibility with horizontal and vertical applications. The options to create building curb-appeal include panel orientation coupled with a variety of finishes, textures and colors.

COLORS
Insulated metal panels come in a variety of standard colors to meet solar reflective requirements. For a complete list of our standard colors, please review our color chart. We also do custom colors and color matching. For more information regarding specific colors, please contact a local representative.

FINISHES
To ensure a lasting, quality appearance, the exterior face sheet of all Mettl-Span insulated metal wall, CFR and ThermalSafe® mineral wool panels are treated with a base primer, followed by a premium, full-strength 70% PVDF fluoropolymer coating as standard. A siliconized polyester coating is available in a limited palette of standard colors for projects where economy is the primary consideration. A wide variety of finishes are available. For more information, see color chart or visit metlspan.com.

DESIGN OPTIONS
- IMPs and Masonry
- Mosaic Patterns
- Color and Profile Variations
- Accent Bands
- Flashings and Extrusions
- Interior Exposed
- Interior Finished

For more information, contact your local sales representative.

WARRANTY
Mettl-Span insulated metal wall, CFR and ThermalSafe® mineral wool panels are guaranteed to be free from defects in material and workmanship for a period of two years from the date of substantial completion. Ensuring watertightness and/or vaportightness is a function of the installer and is not covered by the warranty from Metl-Span. Complete standard limited warranty information is available upon request.

IN-HOUSE PRE/POST SALES SERVICES OFFERED
- Drafting/Technical Services
- Certified Installer Training
- On-Site Field Training
- Weathertight Warranties

LOCATION: SARATOGA SPRINGS, NEW YORK
PANEL TYPE: LIGHT MESA, SANTA FE
PROJECT: SKS BOTTLE & PACKAGING

PROJECT: SJS BOTTLE & PACKAGING
PANEL TYPE: LIGHT MESA, SANTA FE
LOCATION: SARATOGA SPRINGS, NEW YORK

DESIGN OPTIONS
SINGLE SKIN PRODUCTS - CONCEALED FASTENER

PRODUCT SPECIFICATIONS

**CONCEALED FASTENING SYSTEMS**

**DESIGNER™ SERIES 16” FLUTED WALL PANEL**

**PANEL SPECIFICATIONS**
- Profile: 4” wide Flutes, nominal 3/8” deep with a 1¾” deep leg
- Width: 16”
- Length: 5’-0” to 35’-0”
- Standard Exterior: Full-strength 70% PVDF fluoropolymer or siliconized polyester coating
- Fastening: Concealed fastening system
- Colors: Standard 1, Standard II, Premium I and Premium II color options

**ARTISAN® SERIES METAL SOFFIT PANEL**

**PANEL SPECIFICATIONS**
- Profile: Flat panel
- Width: 12”
- Length: 12’ panel: 4’-0”; inquire about longer lengths
- Exterior Face: Unembossed as standard G-90 galvanized or AZ-50 aluminum-zinc coated steel in 24, 22 and 20 Ga.
- Standard Exterior: Full-strength 70% PVDF fluoropolymer coating or siliconized polyester coating
- Fastening: Concealed fastening system
- Colors: Standard 1, Standard II, Premium I and Premium II color options

**SHADOWRIB® METAL PANEL**

**PANEL SPECIFICATIONS**
- Profile: 3” deep panel with 1½” deep by 5½” wide fluting
- Width: 16”
- Length: 5’-0” to 40’-0”
- Standard Exterior: Full-strength 70% PVDF fluoropolymer coating or siliconized polyester coating
- Fastening: Concealed fastening system
- Colors: Standard 1, Standard II, Premium I and Premium II color options

**NUWALL® METAL PANEL**

**PANEL SPECIFICATIONS**
- Profile: 2½” deep panel with ½” deep fluting
- Width: 12”
- Length: 5’-0” to 40’-0”
- Exterior Face: Unembossed as standard G-90 galvanized or AZ-50 aluminum-zinc coated steel in 24, 22 and 20 Ga.
- Standard Exterior: Full-strength 70% PVDF fluoropolymer coating or siliconized polyester coating
- Fastening: Concealed fastening system
- Colors: Standard 1, Standard II, Premium I and Premium II color options

**FW-120**

**PANEL SPECIFICATIONS**
- Profile: Flat with options of one bead at 6” on center or two beads, 4” apart
- Width: 12”
- Length: 5’-0” to 30’-0”
- Exterior Face: Unembossed as standard G-90 galvanized or AZ-50 aluminum-zinc coated steel in 24, 22 and 20 Ga.
- Standard Exterior: Full-strength 70% PVDF fluoropolymer coating
- Fastening: Concealed fastening system
- Colors: Standard 1, Standard II, Premium I and Premium II color options
PROJECT: BI-RITE FOOD DISTRIBUTION SERVICE
PANEL TYPE: CS-200, CS-260, CS-620, CS-660
LOCATION: BRISBANE, CALIFORNIA

SINGLE SKIN PRODUCTS - CONCEALED FASTENER

CONCEALED FASTENING SYSTEMS

CONCEPT SERIES CS-200

PANEL SPECIFICATIONS:
Profile: 7/8" rib height on center with staggered patterns
Width: 12"
Height: 1/4"
Length: 5'-0" to 30'-0"
Exterior Face: G90 galvanized steel 22, 20, and 18 Ga. in unembossed or 22 and 20 Ga. in non-directional embossed
Joint: Interlocking
Fastening: Concealed fastening system
Colors: Standard 1, Standard II, Premium I and Premium II color options

CONCEPT SERIES CS-260

PANEL SPECIFICATIONS:
Profile: 7/8" rib height on center with staggered patterns
Width: 16"
Height: 1/4"
Length: 5'-0" to 30'-0"
Exterior Face: G90 galvanized steel 22, 20, and 18 Ga. in unembossed or non-directional embossed (18 Ga. not available)
Joint: Interlocking
Fastening: Concealed fastening system
Colors: Standard 1, Standard II, Premium I and Premium II color options

CONCEPT SERIES CS-620

PANEL SPECIFICATIONS:
Profile: 7/8" rib height on center with staggered patterns
Width: 16"
Height: 1/4"
Length: 5'-0" to 30'-0"
Exterior Face: G90 galvanized steel 22, 20, and 18 Ga. in unembossed or 22 and 20 Ga. in non-directional embossed
Joint: Interlocking
Fastening: Concealed fastening system
Colors: Standard 1, Standard II, Premium I and Premium II color options
CONCEALED FASTENING SYSTEMS

CONCEPT SERIES CS-660

PANEL SPECIFICATIONS
Profile: 1¼” rib height on center with staggered patterns
Width: 12”
Height: 7/8”
Length: 5'-0” to 30’-0”
Exterior Face: G90 galvanized steel 24, 22, 20, and 18 Ga. in unembossed or non-directional embossed (18 Ga. not available)

Joint: Interlocking
Fastening: Concealed fastening system
Colors: Standard 1, Standard II, Premium I and Premium II color options

IW SERIES IW-10A*

PANEL SPECIFICATIONS
Profile: 1¼” rib height on center with staggered patterns
Width: 16”
Height: 7/8”
Length: 5'-0” to 25’-0”
Exterior Face: G90 galvanized steel 22, and 20 Ga. in non-directional embossed or 22, 20, and 18 Ga. in unembossed

Joint: Interlocking
Fastening: Concealed fastening system
Colors: Standard 1, Standard II, Premium I and Premium II color options

IW SERIES IW-20A

PANEL SPECIFICATIONS
Profile: 1¼” rib height on center with staggered patterns
Width: 12”
Height: 7/8”
Length: 5'-0” to 25’-0”
Exterior Face: G90 galvanized steel 22, and 20 Ga. in non-directional embossed or 22, 20, and 18 Ga. in unembossed

Joint: Interlocking
Fastening: Concealed fastening system
Colors: Standard 1, Standard II, Premium I and Premium II color options

IW SERIES IW-40A*

PANEL SPECIFICATIONS
Profile: 1¼” rib height on center with staggered patterns
Width: 16”
Height: 7/8”
Length: 5'-0” to 30’-0”
Exterior Face: G90 galvanized steel 22, and 20 Ga. in non-directional embossed or 22, 20, and 18 Ga. in unembossed

Joint: Interlocking
Fastening: Concealed fastening system
Colors: Standard 1, Standard II, Premium I and Premium II color options

*“Oil canning” is an inherent part of light-gauge cold-formed metal products, particularly those with broad flat areas. Metl-Span takes every precaution, as defined by MCA, to minimize the effects of oil canning. Lack of flatness or waviness due to oil canning is not sufficient cause for rejection of material.

PROJECT: NU SKIN TRAINING CENTER
PANEL TYPE: ECONOLAP 3/4”, IW-10A, IW-20A
LOCATION: PROVO, UTAH
SINGLE SKIN PRODUCTS - EXPOSED FASTENER

EXPOSED FASTENING SYSTEMS

7.2 METAL WALL PANEL
PANEL SPECIFICATIONS
Profile: Traditional 1 ½" high-rib height at 7.2" on center
Width: 36”
Length: 5'-0" to 50'-0"

Standard Exterior: Full-strength 70% PVDF fluoropolymer coating or siliconized polyester coating
Fastening: Exposed Through Fasteners
Colors: Standard I, Standard II, Premium I and Premium II color options

PBC METAL WALL PANEL
PANEL SPECIFICATIONS
Profile: ¾” rib height at 6" on center
Width: 32”
Length: 5'-0" to 50'-0"

Standard Exterior: Full-strength 70% PVDF fluoropolymer coating or siliconized polyester coating
Fastening: Exposed Through Fasteners
Colors: Standard I, Standard II, Premium I and Premium II color options

PBD METAL WALL PANEL
PANEL SPECIFICATIONS
Profile: ⅝” rib height at 2 2/3” on center
Width: 32”
Length: 5'-0" to 50'-0"

Standard Exterior: Full-strength 70% PVDF fluoropolymer coating or siliconized polyester coating
Fastening: Exposed Through Fasteners
Colors: Standard I, Standard II, Premium I and Premium II color options
SINGLE SKIN PRODUCTS - EXPOSED FASTENER

PRODUCT SPECIFICATIONS

EXPOSED FASTENING SYSTEMS

ECONOLAP ¾"

**PANEL SPECIFICATIONS**

Profile: ¾” rib height on center with staggered patterns
Width: 34 2/3”
Height: ¾”
Length: 5'-0” to 40'-0”
Exterior Face: G90 galvanized steel 24, 22, 20, and 18 Ga. in unembossed or non-directional embossed (18 Ga. not available)

Joint: Overlapping
Fastening: Exposed Through Fasteners
Colors: Standard I, Standard II, Premium I and Premium II color options

TR4-36

**PANEL SPECIFICATIONS**

Profile: 1 ½” rib height on center with staggered patterns
Width: 36”
Height: 1 ½”
Length: 5'-0” to 40'-0”
Exterior Face: G90 galvanized steel 24, 22, 20, and 18 Ga. in unembossed or non-directional embossed (18 Ga. not available)

Joint: Overlapping
Fastening: Exposed Through Fasteners
Colors: Standard I, Standard II, Premium I and Premium II color options

BR5-36

**PANEL SPECIFICATIONS**

Profile: 1 ½” rib height on center with staggered patterns
Width: 36”
Height: 1 ½”
Length: 5'-0” to 40'-0”
Exterior Face: G90 galvanized steel 24, 22, 20, and 18 Ga. in unembossed or non-directional embossed (18 Ga. not available)

Joint: Overlapping
Fastening: Exposed Through Fasteners
Colors: Standard I, Standard II, Premium I and Premium II color options

 STYLE-RIB

**PANEL SPECIFICATIONS**

Profile: Nominal 1 ½” rib height on center with staggered patterns
Width: 36”
Height: Nominal 1 ½”
Length: 5'-0” to 40'-0”
Exterior Face: G90 galvanized steel 24, 22, 20, and 18 Ga. in unembossed or non-directional embossed (18 Ga. not available)

Joint: Overlapping
Fastening: Exposed Through Fasteners
Colors: Standard I, Standard II, Premium I and Premium II color options

MR3-36

**PANEL SPECIFICATIONS**

Profile: 3” rib height on center with staggered patterns
Width: 36”
Height: 3”
Length: 5'-0” to 40'-0”
Exterior Face: G90 galvanized steel 24, 22, 20, and 18 Ga. in unembossed or non-directional embossed (18 Ga. not available)

Joint: Overlapping
Fastening: Exposed Through Fasteners
Colors: Standard I, Standard II, Premium I and Premium II color options

SUPER-RIB

**PANEL SPECIFICATIONS**

Profile: 4” rib height on center with staggered patterns
Width: 24”
Height: 4”
Length: 5'-0” to 40'-0”
Exterior Face: G90 galvanized steel 22, 20, and 18 Ga. in unembossed or 22 and 20 Ga. in non-directional embossed

Joint: Overlapping
Fastening: Exposed Through Fasteners
Colors: Standard I, Standard II, Premium I and Premium II color options
### SINGLE SKIN PRODUCTS - EXPOSED FASTENER

#### PRODUCT SPECIFICATIONS

**PERFORATED SCREENWALL SYSTEMS**

**ECOSCREEN ECONOLAP 3/4”**

**PANEL SPECIFICATIONS**
- **Width**: 34 2/3”
- **Height**: 3/4”
- **Length**: 5'-0” to 30'-0” (Stainless Steel) or 5'-0” to 20'-0” (Aluminum)
- **Exterior Profile**: 3/4” rib height on center with reversed or staggered pattern unembossed
- **Exterior Face**: Unembossed Stainless Steel (304) in 20 Ga. Or Aluminum (5003-H14) in 0.040”

**Joint**: Overlapping
**Fastening**: Exposed Through Fasteners
**Colors**: Stainless Steel: 2B, Aluminum: Standard I, Standard II, Premium I and Premium II color options*

**ECOSCREEN BR5-36**

**PANEL SPECIFICATIONS**
- **Width**: 36”
- **Height**: 1 1/2”
- **Length**: 5'-0” to 30'-0” (Stainless Steel) or 5'-0” to 20'-0” (Aluminum)
- **Exterior Profile**: 1 1/2” rib height on center with reversed or staggered pattern unembossed
- **Exterior Face**: Unembossed Stainless Steel (304) in 20 Ga. Or Aluminum (5003-H14) in 0.040”

**Joint**: Overlapping
**Fastening**: Exposed Through Fasteners
**Colors**: Stainless Steel: 2B, Aluminum: Standard I, Standard II, Premium I and Premium II color options*

**ECOSCREEN MR3-36**

**PANEL SPECIFICATIONS**
- **Width**: 36”
- **Height**: 3”
- **Length**: 5'-0” to 30'-0” (Stainless Steel) or 5'-0” to 20'-0” (Aluminum)
- **Exterior Profile**: 3” rib height on center with reversed or staggered pattern unembossed
- **Exterior Face**: Unembossed Stainless Steel (304) in 20 Ga. Or Aluminum (5003-H14) in 0.040”

**Joint**: Overlapping
**Fastening**: Exposed Through Fasteners
**Colors**: Stainless Steel: 2B, Aluminum: Standard I, Standard II, Premium I and Premium II color options*

### PERFORATION PATTERN OPTIONS

<table>
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<tr>
<th>OPEN / FREE AREA PERCENTAGE</th>
<th>PATTERN</th>
<th>DIAMETER</th>
<th>SPACING</th>
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<tr>
<td>23%</td>
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</tr>
<tr>
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<td>Reverse</td>
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<tr>
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<td>40%*</td>
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<td>1/4”</td>
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</tbody>
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* Pre-painted coils, the finish warranty available.
° Pattern is not available in stainless steel for Style-Rib, BR5-36 or MR3-36.

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**PROJECT: UNIVERSITY MEDICAL CENTER OF PRINCETON**

**AT PLAINSBORO**

**PANEL TYPE**: ECOSCREEN ECONOLAP 3/4”, ECOSCREEN ECONOLAP 2/4

**LOCATION**: PLAINSBORO, NEW JERSEY

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* Pre-painted coils, the finish warranty available.
° Pattern is not available in stainless steel for Style-Rib, BR5-36 or MR3-36.