PRODUCT SHOWCASE
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**Project:** University of Houston - Baseball Clubhouse  
**Panel Type:** Tuff-Cast  
**Location:** Houston, Texas
INDUSTRY LEADER

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.

† ThermalSafe 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.
- Weather tight 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.

**CABLE 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.

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

**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%.

**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.

**BRICK & MASONRY WALL**
- 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%.
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, CFR ROOF
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
PROJECT: BEACON MAINTENANCE FACILITY
PANEL TYPE: CFR ROOF, FLUTE
LOCATION: BEACON, NEW YORK

PROJECT: THE FINLEY CENTER SPORTS COMPLEX
PANEL TYPE: CFR ROOF, MESA
LOCATION: HOOVER, ALABAMA

PROJECT: GREENVILLE PUBLIC WORKS
PANEL TYPE: 7.2 INSUL-RIB, CFR ROOF, STRIATED
LOCATION: GREENVILLE, SOUTH CAROLINA

PROJECT: MASCO
PANEL TYPE: CF ARCHITECTURAL
LOCATION: LIVONIA, MICHIGAN

PROJECT: OLYMPIC VIEW MIDDLE SCHOOL
PANEL TYPE: CF ARCHITECTURAL, CFR ROOF
LOCATION: MUKILTEO, WASHINGTON

PROJECT: VALE CHURCH
PANEL TYPE: IBL, STRIATED
LOCATION: BLOOMINGTON, ILLINOIS

PROJECT: BEACON HIGHWAY DEPARTMENT
PANEL TYPE: CFR ROOF, FLUTE
LOCATION: BEACON, NEW YORK

PROJECT: THE FINLEY CENTER
PANEL TYPE: CF ARCHITECTURAL
LOCATION: LIVONIA, MICHIGAN

PROJECT: OLYMPIC VIEW MIDDLE SCHOOL
PANEL TYPE: CF ARCHITECTURAL, CFR ROOF
LOCATION: MUKILTEO, WASHINGTON

PROJECT: VALE CHURCH
PANEL TYPE: IBL, STRIATED
LOCATION: BLOOMINGTON, ILLINOIS
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
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.

### OUR PRODUCTS

#### PRODUCT SPECIFICATIONS

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| **CF ARCHITECTURAL VERTICAL** | Width: 24”, 30”, 36”  
Thick.: 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  
Interior Profile: Light Mesa, nominal ⅛” 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 ¼”, ½”, ¾”, and 1” increments |
| **CF ARCHITECTURAL HORIZONTAL** | Width: 24”, 30”, 36”  
Thick.: 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  
Interior Profile: Light Mesa, nominal ⅛” 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 ⅛”, ¼”, ½”, ¾”, and 1” increments |
| **CF SANTA FE** | Width: 24”*, 30”*, 36”, 42”  
Thick.: 2”, 2½”, 2¾”*, 3”, 4”  
Length: Horizontal 8’-0” to 32’-0”  
Vertical 8’-0” to 40’-0”  
Exterior Profile: Flat profile with heavy embossing simulates a desert southwestern appearance  
Interior Profile: Light Mesa, nominal ⅛” deep, embossed or unembossed  
Interior Face: G-90 galvanized or AZ-50 aluminum-zinc coated steel in 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 ⅛”, ¼”, ½”, ¾”, and 1” increments |

*Contact Metl-Span for reveal options. | **Custom fabricated 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.
**PROFILE 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” Vertical
  - UNEMBOSSED: 8’-0” to 16’-0” Horizontal, 8’-0” to 16’-0” Vertical

**Exterior Profile:** Longitudinal striations, nominal 1/16” deep, embossed or unembossed

**Exterior Face:**
- G-90 galvanized or AZ-50 aluminum-zinc coated steel in 24 and 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

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**PROFILE 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 3/8” deep, 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 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

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**PROFILE 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 1/8” deep, longitudinal corrugations spaced at nominal 4” 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:**
  - 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

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**PROFILE 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

**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 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

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[1] Contact Metl-Span for reveal options. [●] Crosshike, factory pre-formed corners and seamless 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.]
**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

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**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 1/8” 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

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* †Contact Metl-Span for reveal options. | ☑On-site, 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.**
INTERIOR PARTITION

**CF PARTITION**

**FRP 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.

**FIRE RESISTANCE**

**THERMASAFE® & THERMASAFE NON-EXPOSED FASTENER (NEF)**

Achieves a one-, two- or three-hour fire resistance rating for walls and 1.5 hours for ceilings.

**PANEL SPECIFICATIONS**

- **Width:** 42”
- **Thickness:** Nominal 3”, 4”, 5”, 6”, 7”, 8”
- **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.

**PROJECT: INNOVATION FIRST INTERNATIONAL**

**PANEL TYPE:** CFR ROOF, SANTA FE

**LOCATION:** GREENVILLE, TEXAS

*Available only from Nevada plant. | *No hourly rating available. | **K-Factor calculations: Btu in/ft²hr. °F. | »Ultra-Light Mesa and Striated only
TUFF COTE® WALL PANELS

CF TUFF WALL™ – ●

PANEL SPECIFICATIONS
Width: 36”, 42”
Thickness: 21, 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
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
Core: Foamed-in-place, Non-CFC & zero ODP Polyurethane, FM Approved Class 1 with no height restrictions
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

CF TUFF-CAST® – ●

Contact Metl-Span for reveal options. | Endfolds, factory pre-formed corners and trimless ends available.
**K-Factor calculations: Btu in/ft²hr. °F | † 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

Length: 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 3/64” 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”, 2-1/4”, 4”

Length: 12’-0” or 20’-0” Vertical

Exterior Profile: No profile, unembossed

Exterior Face: AZ-50 aluminum-zinc coated steel in 22 Ga. with epoxy primer finish

Interior Profile: Shallow Planked, nominal 3/64” deep, unembossed

Interior Face: AZ-50 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’

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*K-Factor calculations: Btu in/ft²hr. °F. | Contact Metl-Span for custom length availability. | † Primarily for brick application*
PROJECT: OVERMOUNTAIN VINEYARD GUEST HOUSE

PANEL TYPE: MESA, LS-36

LOCATION: POLK COUNTY, NORTH CAROLINA

ROOF CFR

PANEL SPECIFICATIONS
Width: 30", 36", 42"
Thickness: 2", 2½", 3", 4", 5", 6"
Length: NON-DIRECTIONAL EMBOSSED
9'-5" to 53'-0", contact Metl-Span for custom availability.

Exterior Profile: 2" high standing seam with a Mesa profile between the seams, embossed.


Interior Profile: Mesa, nominal ¼" 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.

**K-Factor calculations: Btu in/ft²hr. °F. | x Available only from Texas plant. | Contact Metl-Span for custom length availability.

ROOF LS-36

PANEL SPECIFICATIONS
Width: 36"
Thickness: 1½", 2", 2½", 3", 4", 5", 6"

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.


Interior Profile: Mesa, nominal ¼" 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 181 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 Cannon is the largest IMP project completed by FSR Services. Baldwin says his team, led by owner Steve Seibert and project manager Tommy Pavlicek, did its best to keep the project moving along. Seibert says it was a challenging project, retrofitting an existing structure, but the end product turned out amazing.

“Insulated metal panels are easy and quick to install,” Baldwin says. “The larger panels cover a lot of space in a single pass. It’s a lot easier than making several passes for the exterior system, interior system and insulation.”

**METL-VISION®**

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.

**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
**FM APPROVAL**  
Metl-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 ThermSafe 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**

Metl-Span CF Series and ThermSafe 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, Metl-Span's products offer the best solution to help optimize building efficiency for architects, contractors and owners.

Metl-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).

Metl-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.

**APPLICATION**

Metl-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 Metl-Span insulated metal wall, CFR and ThermSafe® 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**

Metl-Span insulated metal wall, CFR and ThermSafe® 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 vapor tightness 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

**SERVICES OFFERED**

- Weathertight Warranties
- On-Site Field Training
- Certified Installer Training
- Drafting/Technical Services
- Project Development (PD)
- Technical Services
- In-House Pre/Post Sales Services
- Marketing Services

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For more information, contact your local sales representative.
SINGLE SKIN PRODUCTS - CONCEALED FASTENER

PRODUCT SPECIFICATIONS

CONCEALED FASTENING SYSTEMS

DESIGNER™ SERIES 16” FLUTED WALL PANEL

PANEL SPECIFICATIONS
Profile: 4” wide Flutes, nominal ⅜” 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 I, 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 I, 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”

Standard Exterior: Full-strength 70% PVDF fluoropolymer coating or siliconized polyester coating
Fastening: Concealed fastening system
Colors: Standard I, 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

Standard Exterior: Full-strength 70% PVDF fluoropolymer coating or siliconized polyester coating
Fastening: Concealed fastening system
Colors: Standard I, Standard II, Premium I and Premium II color options

SHADOWRIB® METAL PANEL

PANEL SPECIFICATIONS
Profile: 3” deep panel with 1½” deep by 5¼” 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 I, Standard II, Premium I and Premium II color options

PROJECT: GOLDEN STATE LUMBER
PANEL TYPE: CS-620, CS-660
LOCATION: CONCORD, CALIFORNIA
SINGLE SKIN PRODUCTS - CONCEALED FASTENER

PRODUCT SPECIFICATIONS

CONCEALED FASTENING SYSTEMS

CONCEPT SERIES CS-200

PANEL SPECIFICATIONS:
Profile: 7/8” rib height on center with staggered patterns
Width: 12”
Height: 1’
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’
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

CONCEPT SERIES CS-620

PANEL SPECIFICATIONS:
Profile: 7/8” rib height on center with staggered patterns
Width: 16”
Height: 1’
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
**SINGLE SKIN PRODUCTS - CONCEALED FASTENER**

**PRODUCT SPECIFICATIONS**

**CONCEALED FASTENING SYSTEMS**

**CONCEPT SERIES CS-660**

**PANEL SPECIFICATIONS**
- Profile: 1 ½" rib height on center with staggered patterns
- Width: 12"  
- Height: 1 ½"  
- 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)

**IW SERIES IW-10A**

**PANEL SPECIFICATIONS**
- Profile: 1 ½" rib height on center with staggered patterns
- Width: 12"  
- Height: 1 ½"  
- 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

**IW SERIES IW-13A**

**PANEL SPECIFICATIONS**
- Profile: 1 ½" rib height on center with staggered patterns
- Width: 12"  
- Height: 1 ½"  
- 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

**IW SERIES IW-20A**

**PANEL SPECIFICATIONS**
- Profile: 1 ½" rib height on center with staggered patterns
- Width: 12"  
- Height: 1 ½"  
- 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

**IW SERIES IW-40A**

**PANEL SPECIFICATIONS**
- Profile: 1 ½" rib height on center with staggered patterns
- Width: 12"  
- Height: 1 ½"  
- 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

“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**

**PRODUCT SPECIFICATIONS**

**EXPOSED FASTENING SYSTEMS**

**PBR METAL WALL PANEL**

**PANEL SPECIFICATIONS**
- Profile: 7/8" rib height at 6 2/3" 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 1, Standard II, Premium I and Premium II color options

**PBD METAL WALL PANEL**

**PANEL SPECIFICATIONS**
- Profile: 5/8" 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 1, Standard II, Premium I and Premium II color options

**7.2 METAL WALL PANEL**

**PANEL SPECIFICATIONS**
- Profile: Traditional 1½" high-rib height at 7 2/3" 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 1, Standard II, Premium I and Premium II color options

**PBC METAL WALL PANEL**

**PANEL SPECIFICATIONS**
- Profile: ¾" rib height at 6" 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 1, 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 ⅚”
- **Height:** ⅜”
- **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 1, Standard II, Premium I and Premium II color options

**BR5-36**

**PANEL SPECIFICATIONS**

- **Profile:** 1 ⅝” rib height on center with staggered patterns
- **Width:** 36”
- **Height:** 1 ⅝”
- **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 1, 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 1, Standard II, Premium I and Premium II color options

**TR4-36**

**PANEL SPECIFICATIONS**

- **Profile:** 1 ⅛” rib height on center with staggered patterns
- **Width:** 36”
- **Height:** 1 ¼”
- **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 1, Standard II, Premium I and Premium II color options

**STYLE-RIB**

**PANEL SPECIFICATIONS**

- **Profile:** Nominal 1 ⅝” rib height on center with staggered patterns
- **Width:** 36”
- **Height:** Nominal 1 ⅝”
- **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 1, 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 1, Standard II, Premium I and Premium II color options
SINGLE SKIN PRODUCTS - EXPOSED FASTENER

PRODUCT SPECIFICATIONS

**PERFORATED SCREENWALL SYSTEMS**

**ECOSCREEN ECOPROLAP ¾”**

**PANEL SPECIFICATIONS**

Width: 34 ⅜"
Height: ¾"
Length: 5'-0" to 30'-0" (Stainless Steel) or 5'-0" to 20'-0" (Aluminum)
Exterior Profile: ¾" rib height on center with reversed or staggered pattern unembossed
Exterior Face: Unembossed Stainless Steel (314) in 20 Ga. Or Aluminum (5052-H34) 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 (5052-H34) 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 ½"
Length: 5'-0" to 30'-0" (Stainless Steel) or 5'-0" to 20'-0" (Aluminum)
Exterior Profile: 1 ½" rib height on center with reversed or staggered pattern unembossed
Exterior Face: Unembossed Stainless Steel (304) in 20 Ga. Or Aluminum (5052-H34) 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 STYLE-RIB**

**PANEL SPECIFICATIONS**

Width: 36"
Height: 1 ½"
Length: 5'-0" to 30'-0" (Stainless Steel) or 5'-0" to 20'-0" (Aluminum)
Exterior Profile: 1 ½" rib height on center with reversed or staggered pattern unembossed
Exterior Face: Unembossed Stainless Steel (304) in 20 Ga. Or Aluminum (5052-H34) 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>10%</td>
<td>Reverse</td>
<td>⅛&quot;</td>
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<tr>
<td>40%</td>
<td>Staggered</td>
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</tbody>
</table>

*Pre-painted coils, no finish warranty available.
°Pattern is not available in stainless steel for Style-Rib, BR5-36 or MR3-36.