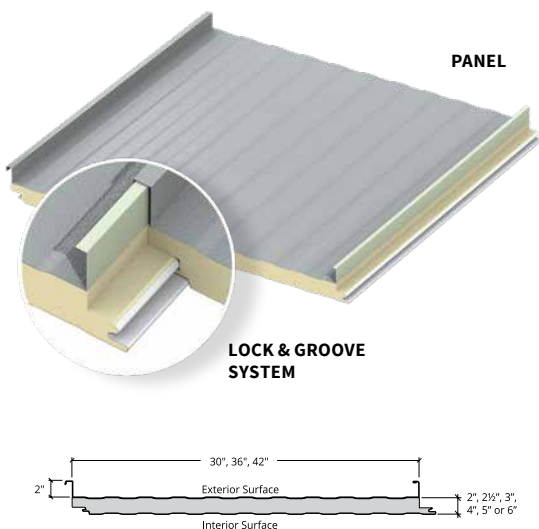




# INSULATED METAL PANELS

# CFR

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



### Features and Benefits:

- The CFR roof panel is ideal for architectural, commercial, industrial and institutional applications.
- Due to their careful design features, this roof system requires very little field reworking and can be easily and quickly installed.

### Product Specifications

- **Applications:** Roof
- **Length:** 9'-6" to 53'-0"
- **Coverage Widths:** 42" (standard); 30"\*\*, 36" (optional)
- **Thicknesses:** 2", 2½", 3", 4", 5", 6"
- **Panel Attachment:** Concealed fastening system
- **Gauges Exterior:** 24, 22; Interior: 26, 24, 22
- **Finishes Exterior:** Galvalume Plus®, Stucco-embossed; Interior: Stucco-embossed
- **Coatings Exterior:** Signature® 200, Signature® 300; Interior: Igloo White (standard)

### U-Factors and R-Values\*

U-factor (BTU-/h-ft2-° F)		R-Value (h-ft2-° F/BTU)	
PANEL WIDTH: 42"		PANEL WIDTH: 42"	
	75°		75°
2"	0.0600	2"	16.67
2½"	0.0490	2½"	20.41
3"	0.0414	3"	24.15
4"	0.0318	4"	31.45
5"	0.0257	5"	38.91
6"	0.0217	6"	46.08

\* Based on ASTM C518, ASTM C1363 and thermal modeling, 75° F core mean temp.

\*\* Available only from Metl-Span's Texas plant

## INSULATED METAL PANELS

TEST/APPROVAL	TEST METHOD	TEST TITLE	RESULTS
<b>FIRE US</b>	ASTM E84	Surface Burning Characteristics of Building Materials	Flame spread <25, smoke developed <450
	ASTM E108	Standard Test Methods for Fire Tests of Roof Coverings	Passed Class A
	FM 4880	Class 1 Fire Rating of Insulated Wall, Ceiling and Roof Panels	Product approved Exterior roof requires FM 4471 approval
	NFPA 286	Fire Tests for Evaluating Contribution of Wall and Ceiling Finish to Roof Fire Growth	Test specimen met the criteria of the IBC Section 803.1.2.1
<b>FIRE CANADA</b>	CAN/ULC S102	Surface Burning Characteristics of Building Materials and Assemblies	Meets the National Building Code of Canada requirements
	CAN/ULC S107	Methods of Fire Tests of Roof Coverings	Passed Class A
	CAN/ULC S126	Fire Spread Under Roof-Deck Assemblies	Met the criteria of the standard
<b>STRUCTURAL</b>	ASTM E72	Strength Tests of Panels for Building Construction	See Load Chart
	ASTM E1592	Structural Performance of Metal Roof and Siding Systems by Uniform Static Air Pressure Differences	See Load Chart
	FM 4471	Class 1 Exterior Roof Structural Performance	See FM Roof Load Chart
	UL 580	Uplift Resistance of Roof Assemblies	UL Class 90 Uplift at 5' and 7'
	UL 1897	Uplift Tests for Roof Covering Systems	Uplift Resistance of 166 psf at 5' Uplift Resistance of 140 psf at 7'
<b>THERMAL PERFORMANCE</b>	ASTM C518	Steady-State Thermal Transmission Properties by Means of the Heat-Flow Meter Apparatus	K-Factor of 0.126 BTU.in/hr.ft <sup>2</sup> .°F at 40° F mean core K-Factor of 0.14 BTU.in/hr.ft <sup>2</sup> .°F at 75° F mean core
	ASTM C1363	Thermal Performance of Building Materials and Envelope Assemblies	See Thermal Performance Guide
<b>AIR INFILTRATION</b>	ASTM E1680	Rate of Air Leakage Through Exterior Metal Roof Panel Systems	<0.023 cfm/ft <sup>2</sup> at 12 psf
<b>WATER INFILTRATION</b>	ASTM E1646	Water Penetration of Exterior Metal Roof Panel Systems by Static Air Pressure Differences	No uncontrolled leakage when tested to a static pressure of 12 psf Vertical or horizontal installation
<b>SPECIAL APPROVAL</b>	Miami-Dade NOA	Product Approval for City of Miami and Dade County	Product has City of Miami and Dade County Notice of Acceptance
	State of Florida	Product Approval for the State of Florida	Product has State of Florida approval

Descriptions and specifications contained herein were in effect at the time this publication was approved for printing. In a continuing effort to refine and improve products, MBCI reserves the right to discontinue products at any time or change specifications and/or designs without incurring obligation. To ensure you have the latest information available, please inquire or visit our website at [www.mbc.com](http://www.mbc.com). Application details are for illustration purposes only and may not be appropriate for all environmental conditions, building designs or panel profiles. Projects should be designed to conform to applicable building codes, regulations and accepted industry practices. If there is a conflict between this manual and project erection drawings, the erection drawings will take precedence. MBCI's insulated metal panel product line is manufactured by Metl-Span®. © 2020 MBCI, part of the **Cornerstone Building Brands** family. ALL RIGHTS RESERVED. 0706209991144/RevB/MS/1220



**INSULATED SOLUTIONS**

Color Chart

# SIGNATURE<sup>®</sup> 300 PAINT COLORS

## STANDARD COLORS

Polyvinylidene Fluoride (PVDF) Low Gloss

### Standard I



POLAR WHITE



SANDSTONE

### Standard II



ALMOND



BROWNSTONE ★



REGAL GRAY

## PREMIUM I COLORS

Polyvinylidene Fluoride (PVDF) Low Gloss

Minimum quantities and/or extended lead times may be required. Please inquire.



HARBOR BLUE ★



PACIFIC BLUE ★



AEGEAN BLUE



SPRUCE ★



NATURAL PATINA ★



CLASSIC GREEN ★



HUNTER GREEN ★



MEDIUM BRONZE ★



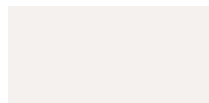
SLATE GRAY ★



TUNDRA ★



SMOKE GRAY



SNOW WHITE ★



TERRA COTTA



BRITE RED ★



COLONIAL RED ★

## PREMIUM II METALLIC COLORS

**NOTE:** Metallic coatings are directional. Panels and trim must be installed oriented in the same direction to prevent perceived shade variances.



CHAMPAGNE



COPPER METALLIC ★



SILVER METALLIC ★



WEATHERED ZINC



DARK GRAY METALLIC



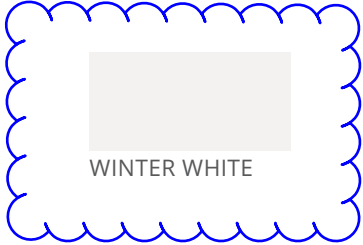
★ ENERGY STAR<sup>®</sup>  
Qualified

# SIGNATURE® 200 PAINT COLORS

## STANDARD WEATHER XL COLORS

Siliconized Polyester Standard Gloss

\*Igloo White is a Straight Polyester.

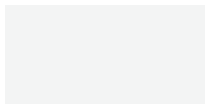


## PREMIUM WEATHER XL COLORS

Siliconized Polyester

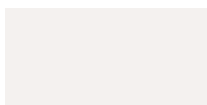
\*\*Polar White is a Straight Polyester.

Minimum quantities and/or extended lead times may be required. Please inquire.



## STANDARD INTERIOR COLORS

\*Igloo White is a Straight Polyester.

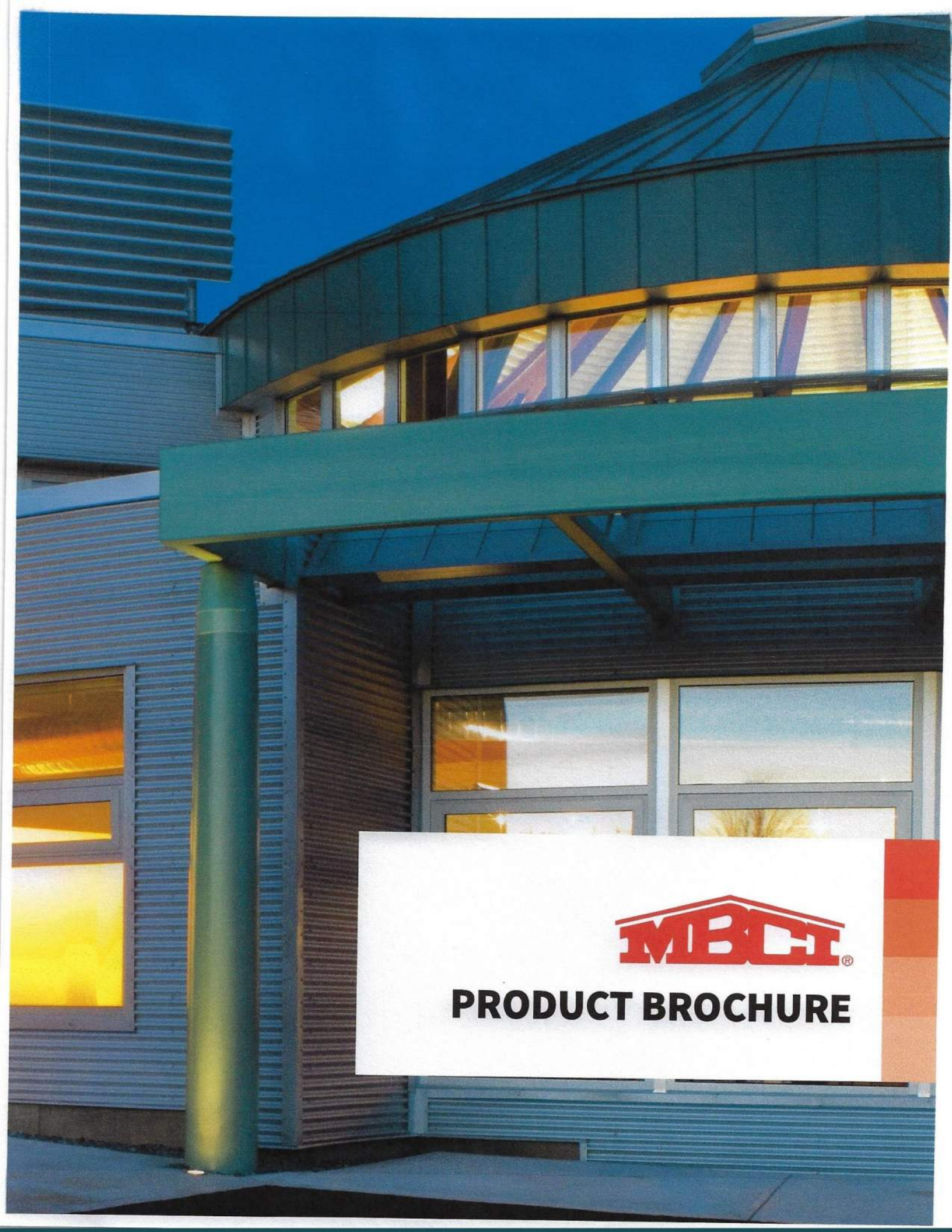


### Final color selection should be made from metal color chips.

- See product selection chart for gauge and color availability.
- Heavier gauges, narrower widths and embossing minimize "oil canning."
- Review the sample warranty for complete performance attributes and terms and conditions.
- For locations outside the continental USA and Canada, please inquire.



★ ENERGY STAR®  
Qualified



**PRODUCT BROCHURE**



# INSULATED METAL PANELS

MBCI's insulated metal panels, manufactured by Metl-Span, deliver both attractiveness and energy-efficiency to a building's design. As building and energy codes become increasingly more stringent, insulated panels are particularly advantageous in achieving sustainable design and code compliance.

Insulated metal panels (IMPs) present many advantages for building owners, designers and contractors, including improved thermal performance, excellent insulating capabilities, reduced building operational expenses, accelerated construction schedules, earlier business starts and much more. Available in a wide variety of panel profiles, colors and applied finishes, IMPs are ideal for architectural, commercial, industrial and institutional applications.

*Above Photo*

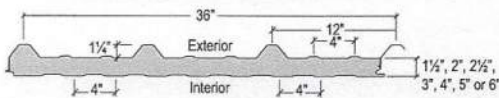
**PROJECT:** Fujisawa Healthcare Inc. **LOCATION:** Grand Island, NY **PANEL PROFILE:** CF Architectural/Horizontal **COLOR:** Silver Metallic



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

## LS-36™

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



### Product Specifications

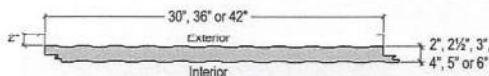
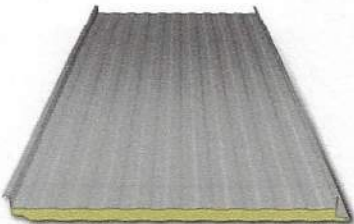
- **Applications:** Roof and Wall
- **Gauges:** Exterior: 26, 24, 22 | Interior: 26, 24, 22
- **Width:** 36"
- **Thicknesses:** 1 1/2", 2", 2 1/2", 3", 4", 5", 6"
- **Length:** 8'-0" to 50'-0"

- **Panel Attachment:** Exposed Fastening System
- **Standard Coatings:** Galvalume Plus®, Signature® 200, Signature® 300, Signature® 300 Metallic, Applied Finishes (wall application only)

Roof Panel

## CFR

CFR is an insulated metal 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 panel is a truly unique answer to many deficiencies common with more traditional roofing materials of the past.



### Product Specifications

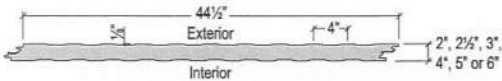
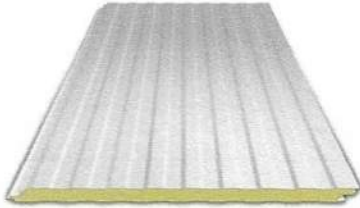
- **Applications:** Roof
- **Gauges:** Exterior: 24, 22 | Interior: 26, 24, 22
- **Width:** 42" (standard); 30", 36" (optional)
- **Thicknesses:** 2", 2 1/2", 3", 4", 5", 6"

- **Length:** 9'-6" to 53'-0"
- **Panel Attachment:** Concealed Fastening System
- **Standard Coatings:** Galvalume Plus®, Signature® 200, Signature® 300



## CF45 PARTITION WALL

The CF45 Partition Wall panel is the optimal choice for interior partitions. The interior and exterior panel faces are identical images with the same profile for each. This panel is available in a width of 44½", and the profiles have ½" ribs that are four inches on center.



### Product Specifications

- **Applications:** Wall (interior only)
- **Gauge:** 26, 24, 22 (both surfaces)
- **Width:** 44½"
- **Thicknesses:** 2", 2½", 2¾", 3", 4", 5", 6"

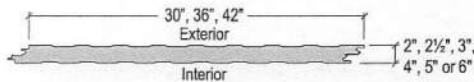
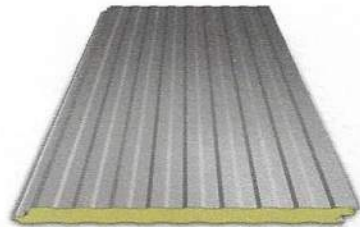
- **Length:** 8'-0" to 52'-0" for vertical embossed  
8'-0" to 40'-0" for vertical unembossed
- **Panel Attachment:** Tongue-and-Groove with Exposed Fasteners
- **Standard Coating:** Igloo White

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



## CF MESA

The CF Mesa panel is designed for exterior wall applications, interior wall partitions and interior ceilings. The lightly corrugated profile on both faces of the panel carries symmetry from the building's exterior through its interior, and from room to room in partition installations. This panel is most commonly used for commercial applications.



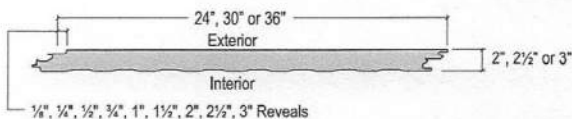
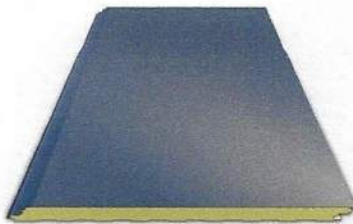
### Product Specifications

- **Application:** Wall (vertical)
- **Gauges:** Exterior: 26, 24, 22 | Interior: 26 (standard); 24, 22 (optional)
- **Widths:** 30", 36", 42"
- **Thicknesses:** 2", 2½", 3", 4", 5", 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, Signature® 300 Metallic, Applied Finishes, Igloo White

## CF ARCHITECTURAL & CF ARCHITECTURAL/HORIZONTAL

The CF Architectural (vertical) and CF Architectural/Horizontal wall panel employs a flat appearance providing a monolithic look that is great for high-profile architectural applications. The panel allows 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 almost any look a design requires, and can be used in vertical or horizontal applications.



### Product Specifications

- **Application:** Wall (vertical and horizontal)
- **Gauges:** Exterior: 22 | Interior: 26 (standard); 24, 22 (optional)
- **Widths:** 24", 30", 36"
- **Thicknesses:** 2", 2½", 3" (4" available for vertical)
- **Length:** 8'-0" to 32'-0" for embossed  
8'-0" to 16'-0" for unembossed

- **Panel Attachment:** Concealed Fastening System
- **Standard Coatings:** Signature® 300, Signature® 300 Metallic
- **Reveal:** Up to 1" reveal options in ¼" increments or up to 3" reveal options in ½" increments