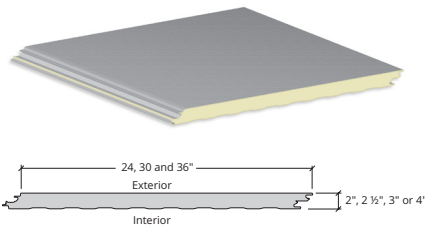




# INSULATED METAL PANELS

## CF ARCHITECTURAL

The CF Architectural wall panel employs a flat appearance providing a monolithic look that is great for high-profile architectural applications. The CF Architectural panel is available in widths of 24", 30" and 36".



### Features and Benefits:

- The CF Architectural panel utilizes concealed clips and eliminates thermal short circuits.
- The standard exterior surface is 22 gauge Galvalume® or Galvanized coated steel with silicone polyester or PVDF coatings.
- Insulated metal panels allow for fast assembly times and easy installation, resulting in reduced construction labor costs and earlier business starts.

### Product Specifications

- **Applications:** Wall (Vertical)
- **Coverage Widths:** 24", 30", 36"
- **Thicknesses:** 2", 2½", 3", 4"
- **Lengths:** 8'-0" to 32'-0" for embossed  
8'-0" to 16'-0" for unembossed
- **Attachment:** Concealed fastening system
- **Insulation Material:** Non-CFC foamed-in-place polyurethane foam cured to achieve a minimum density of 2.2 pounds
- **Accessories:** Fasteners, sealants, standard and custom trim
- **Exterior Gauge:** 22
- **Interior Gauge:** 26 (standard); 24, 22 (optional)
- **Exterior Finishes:** Stucco-embossed
- **Interior Finishes:** Stucco-embossed, Light Mesa profile
- **Exterior Coatings:** Signature® 300, Signature 300® Metallic
- **Interior Coating:** Igloo White (standard)
- **Reveal:** Up to 1" reveal options in ¼" increments or up to 3" reveal options in ½" increments

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

U-Factor (BTU/h-ft <sup>2</sup> ° F)		R-Value (h-ft <sup>2</sup> ° F/BTU)		U-FACTOR (BTU/H-FT <sup>2</sup> ° F)		R-VALUE (H-FT <sup>2</sup> ° F/BTU)	
PANEL WIDTH: 44½"		PANEL WIDTH: 44½"		PANEL WIDTH: 36"		PANEL WIDTH: 36"	
	75°		75°		75°		75°
2"	0.0706	2"	14.16	2"	0.0669	2"	14.95
2½"	0.0516	2½"	19.38	2½"	0.0500	2½"	20.00
2¾"	0.0470	2¾"	21.28	3"	0.0400	3"	25.00
3"	0.0424	3"	23.58	4"	0.0307	4"	32.57
4"	0.0324	4"	30.86				
5"	0.0264	5"	37.88				
6"	0.0224	6"	44.64				
PANEL WIDTH: 44½"		PANEL WIDTH: 44½"					
	40°		40°				
2"	0.0669	2"	14.95				
2½"	0.0491	2½"	20.37				
2¾"	0.0446	2¾"	22.42				
3"	0.0401	3"	24.94				
4"	0.0305	4"	32.79				
5"	0.0248	5"	40.32				
6"	0.0210	6"	47.62				

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

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



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# CF ARCHITECTURAL

CATEGORY	TEST METHOD	PURPOSE	RESULT
<b>ENVIRONMENTAL</b>	ASTM C518	Measure the heat transmission coefficient per unit thickness (k-factor)	0.140 BTU-in/hr-ft <sup>2</sup> ° F (7.14/inch) at 75° F mean temperature 0.126 BTU-in/hr-ft <sup>2</sup> ° F (7.94/inch) at 40° F mean temperature 0.118 BTU-in/hr-ft <sup>2</sup> ° F (8.47/inch) at 20° F mean temperature
	ASTM C1363	Measures the resistance to heat flow (or R-Value) of a construction assembly in a guarded hot box	Varies up to R-8.5/inch of panel thickness at 40° F mean temperature (See Appendix A)
	ASTM E283	Determines the air leakage characteristics of metal wall panels under specified air pressure differences at ambient conditions	0.01 cfm/ft <sup>2</sup> at 20 psf static pressure
	ASTM E331	Determines the resistance to water penetration of metal wall panels under uniform static air pressure difference	No uncontrolled water penetration through the panel joints at a static pressure of 20 psf
<b>FOAM PROPERTIES</b>	ASTM D1622	Determines the apparent density of rigid cellular plastics	2.3 pcf
	ASTM D1621	Determines the behavior of cellular materials under compressive load	15 psi through-thickness 22 psi other directions
	ASTM D1623	Measures the tensile strength of the foam from a cored sample	30 psi through-thickness 33 psi lowest any other direction
	ASTM C273	Measures the shear strength of the foam from a cored sample	16 psi lowest in any direction
<b>FIRE RESISTANCE</b>	ASTM E84	Provides comparative measurements of surface flame spread and smoke density measurements relative to that of select grade red oak and fiber-cement board surfaces under specific fire exposure conditions	Flame Spread index of 20, Smoke Developed index of 350
	FM 4880	Class 1 fire rating of insulated wall, ceiling and roof panels	Product approved Exterior wall requires FM 4881 approval
	NFPA 286	Fire tests for the flammability characteristics of wall and ceiling interior finishes	The Panels meet the criteria of the IBC Section 803.1.2.1
	CAN/ULC S101	Standard method of fire endurance tests of building construction and materials	The Panels provide 15-minute remain-in-place fire resistance rating
	CAN/ULC S102	Standard method of test for surface burning characteristics of building material and assemblies	Flame Spread index of 0 Smoke Developed Index of 45 Fuel Contributing Value of 0
	CAN/ULC S134	Standard method of fire test of exterior wall assemblies	The Panels meet the criteria published in the standard
	CAN/ULC S138	Standard method of test for fire growth of insulated building panels in a full-scale room configuration	The Panels meet the criteria published in the standard
	NFPA 285	Evaluation of fire propagation characteristics of exterior non-load bearing wall assemblies in regard to fire	Panels meet the requirement 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 4881	Class 1 exterior wall structural performance	See load chart
<b>WALL LISTINGS</b>	FM 4881	Sets performance standards for panel walls including wind load resistance and hail resistance Requires a Class 1 rating by FM Global Standard 4880 as a prerequisite	See FM Global Approval Guide for Building Products complete listings

**Notes:**

1. Wall panels with textured coatings are not approved for the FM 4881 test method.

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