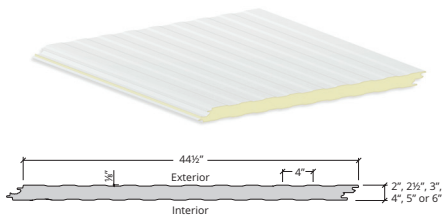




# INSULATED METAL PANELS

## CF45 INTERIOR WALL

The CF45 Interior Wall panel is the optimal choice for interior partitions. The interior and exterior panel faces are identical images with the same profile for each. The profiles have 1/8" ribs that are on 4" on center. The Interior Partition and Ceiling panel is available in a width of 44 1/2".



### Features and Benefits:

- The standard exterior surface is 26 gauge Igloo White coated steel with polyester.
- IMPs allow for fast assembly times and easy installation, resulting in reduced construction labor costs and earlier business starts. Fastening required at top; Bottom only with no additional framing. See load tables on reverse side.

### Product Specifications

- **Applications:** Wall
- **Coverage Widths:** 44 1/2"
- **Thicknesses:** 2", 2 1/2", 2 3/4", 3", 4", 5", 6"
- **Length:** 8'-0" to 52'-0" for vertical embossed  
8'-0" to 40'-0" for vertical unembossed
- **Attachment:** Tongue-and-groove with exposed fasteners
- **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:** 26, 24, 22
- **Interior Gauge:** 26, 24, 22
- **Exterior Finishes:** Stucco-embossed, Mesa profile
- **Interior Finishes:** Stucco-embossed, Mesa profile
- **Exterior Coatings:** Igloo White
- **Interior Coating:** Igloo White

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

U-Factor (BTU/h-ft <sup>2</sup> ·°F)		R-Value (h-ft <sup>2</sup> ·°F/BTU)	
PANEL WIDTH: 44 1/2"		PANEL WIDTH: 44 1/2"	
	75°		75°
2"	0.0706	2"	14.16
2 1/2"	0.0516	2 1/2"	19.38
2 3/4"	0.0470	2 3/4"	21.28
3"	0.0424	3"	23.58
4"	0.0324	4"	30.86
5"	0.0264	5"	37.88
6"	0.0224	6"	44.64
PANEL WIDTH: 44 1/2"		PANEL WIDTH: 44 1/2"	
	40°		40°
2"	0.0669	2"	14.95
2 1/2"	0.0491	2 1/2"	20.37
2 3/4"	0.0446	2 3/4"	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

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



# CF45 INTERIOR WALL

## INSULATED METAL PANELS

CATEGORY	CHARACTERISTIC	TEST METHOD	PURPOSE	RESULT
<b>ENVIRONMENTAL</b>				
	Thermal Transmission	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)
	Air Leakage Through Wall Panel Joints	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
	Water Penetration Through Wall Panel Joints	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>FIRE RESISTANCE</b>				
	Surface Burning Characteristics	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
	Room Fire Performance	FM 4880	Evaluates insulated roof and wall panels, interior finishes or coatings, and exterior wall systems for their performance in regard to fire	Class 1 Rating of wall and roof panels for use in unlimited height structures
	Wall Fire Performance	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>WALL LISTINGS</b>	Wall Performance – FM Global* (See Note 1 below)	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

## CF-42 & CF-45 PARTITION MESA WALL PANELS

PANEL TYPE	THICKNESS (in)	DESIGN CRITERIA			ALLOWABLE SPAN (ft)
		Bending Stress	Shear Stress	Deflection Limit L/120	
<b>Allowable Single Span for Inward and Outward Load of 5 psf</b>					
<b>CF-42 OR CF-45 MESA/MESA</b>	2"	27.5	77.2	20.2	20.2'
	2.5"	29.6	87.7	23.7	23.7'
	3"	31.4	97.1	27.0	27.0'
	4"	37.6	101.6	33.1	33.1'
	5"	42.4	114.5	38.5	38.5'
	6"	45.7	126.0	43.5	43.5'
<b>Allowable Single Span for Inward and Outward Load of 10 psf</b>					
<b>CF-42 OR CF-45 MESA/MESA</b>	2"	18.1	38.5	15.8	15.8'
	2.5"	19.5	43.8	18.6	18.6'
	3"	20.6	48.5	21.2	20.6'
	4"	24.7	50.8	26.0	24.7'
	5"	27.9	57.2	30.3	27.9'
	6"	30.1	63.3	34.0	30.1'

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