

IMPower Series™ Insulated Metal Panels

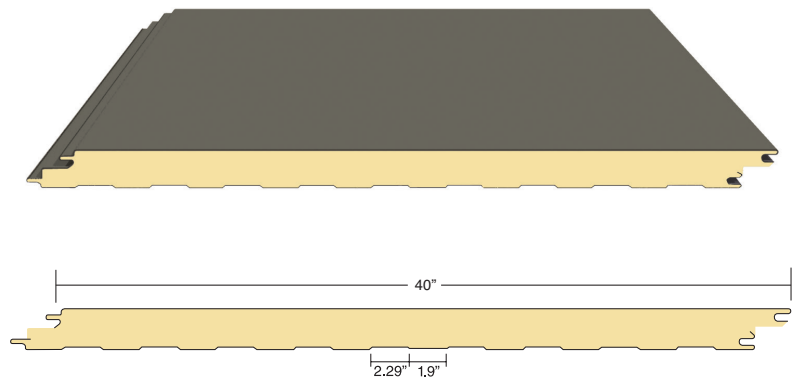
FL40 Flat Wall System

Create a beautifully finished high-performance building envelope with a single component using flat wall panels available in your choice of a smooth or light embossed metal face.

SYSTEM HIGHLIGHTS

- ▶ Achieves a continuous air barrier and continuous insulation up to R-24*
- ▶ Concealed fasteners produce clean aesthetic and virtually eliminate thermal bridging
- ▶ Weathertight double tongue and groove joinery may be sealed on either side of joint depending on direction of vapor drive
- ▶ Factory Mutual approved for fire and wind resistance
- ▶ Installs vertically or horizontally onto open structural steel
- ▶ Horizontal installations include self-aligning color matched aluminum extrusions at panel end joints
- ▶ Available in seven highly durable stocked colors, designed for long term weathering performance

*Contingent on panel thickness



ms metal sales™
manufacturing corporation

metalsales.us.com 800.406.7387

IMPower Series™ Insulated Metal Panels

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SIMPLY SUSTAINABLE

- ▶ Made from minimum 30% recycled steel
- ▶ Steel facings and insulation core 100% recyclable
- ▶ No CFCs (Chlorofluorocarbons)
- ▶ No VOCs (Volatile Organic Compounds)
- ▶ No ODPs (Ozone Depleting Potential)
- ▶ Meets EPA blowing agent requirements for the reduction of global warming potential
- ▶ SRI Values that meet steep and/or low-slope requirements for ENERGY STAR® and LEED®

TESTING/APPROVALS

Thermal Resistance	ASTM C 518 / C 1363
Structural Strength	ASTM E 72
Fire Rating - Class 1 IMP Walls and Ceilings	FM 4880
Fire Rating - Class 1 Exterior Wall	FM 4881
Flame Spread	ASTM E 84
Air Leakage (0.01 cfm @ 12 psf)	ASTM E 283
Water Penetration - None	ASTM E 331
Air / Water Infiltration	AAMA 501.1
Florida Building Code	Approved

PANEL CHARACTERISTICS

Panel Thickness:	2"	2.5"	3"
Insulating Value:	R-16	R-20	R-24
Panel Width:	40"		
Panel Length:	8'-0" minimum – 32'-0" maximum*		
Application	Vertical and horizontal wall		
Insulation Material:	Factory-foamed polyisocyanurate (2.1 to 2.5 pcf density)		
Joint Configuration:	Offset tongue and groove with concealed fastener		
Exterior Gauge:	22 ga. galvanized steel smooth, 24 ga. galvanized steel light embossed		
Interior Gauge:	26 ga. standard		
Exterior Coating:	PVDF and SMP		
Exterior Colors:	Sandstone, Surrey Beige, Regal White, Royal Blue, Natural Green, Pearl Gray, Imperial White Non-stock PVDF color options available		
Interior Color:	Imperial White (SMP)		
Exterior Finish:	Smooth or light embossed		
Interior Finish:	Light Embossed		
Accessories:	Fasteners, concealed fastened clip, sealants, trims and flashing		

*May be available in longer lengths. Contact Metal Sales for more information.

STRUCTURAL LOAD TABLE – THREE OR MORE SPANS

PANEL THICKNESS	FASTENING PATTERN	SPAN (ft)									
		5	6	7	8	9	10	11	12	13	
3" WEIGHT = 2.62 PSF	FS-A	48	40	34	30	27	24	22	20	18	
	FS-B	60	50	43	38	33	30	27	25	23	
	FS-C	75	62	52	45	40	36	32	30	27	
	FS-D	73	61	52	45	40	36	32	30	27	
	FS-E	75	62	52	45	40	36	32	30	27	
	FS-F	32	27	23	20	18	16	14	13	12	

Notes:

- Spans shown are based on transverse load testing per ASTM E 72 and strength of fastening patterns. Fastening is based on Tek 3 fasteners installed on minimum 16 gauge girts.
- Spans calculated with 26 gauge exterior and interior facings.
- Deflection Limit: L/180
- Safety factor = 2.5 for buckling, 3.0 for shear, 3.0 for fastening

- FS-A = WC-01 Wall Clip with (3) fasteners
- FS-B = WC-01 with (3) fasteners + (1) Fablok
- FS-C = WC-01 with (3) fasteners + (3) Fablok
- FS-D = WC-01 with (3) fasteners + (2) Fablok
- FS-E = WC-01 with (3) fasteners + (4) Fablok
- FS-F = WC-01 with (2) fasteners

Load data shown is contingent on panel thickness. Please consult your Metal Sales representative or visit metalsales.us.com for more information.

Be inspired.



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