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



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IMPower Series[™] Insulated Metal Panels

FL40 Flat Wall System

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 136		
Structural Strength	ASTM E 72		
Fire Rating - Class 1 IMP Walls and Ceiling	js 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" r	8'-0" minimum – 32'-0" maximum*				
Application	Vertic	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.	26 ga. standard				
Exterior Coating:	PVDF	PVDF and SMP				
Exterior Colors:	Royal Imper	Sandstone, Surrey Beige, Regal White, Royal Blue, Natural Green, Pearl Gray, Imperial White Non-stock PVDF color options available				
Interior Color:	Imper	Imperial White (SMP)				
Exterior Finish:	Smooth or light embossed					
Interior Finish:	Light I	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″	FS-A	48	40	34	30	27	24	22	20	18
	FS-B	60	50	43	38	33	30	27	25	23
WEIGHT = 2.62 PSF	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.
- 2. Spans calculated with 26 gauge exterior and interior facings.
- 3. Deflection Limit: L/180
- 4. Safety factor = 2.5 for buckling, 3.0 for shear, 3.0 for fastening
- 5. FS-A = WC-01 Wall Clip with (3) fasteners
- 6. FS-B = WC-01 with (3) fasteners + (1) Fablok
- 7. FS-C = WC-01 with (3) fasteners + (3) Fablok
- 8. FS-D = WC-01 with (3) fasteners + (2) Fablok
- 9. FS-E = WC-01 with (3) fasteners + (4) Fablok
- 10. 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.



metalsales.us.com 800.406.7387











