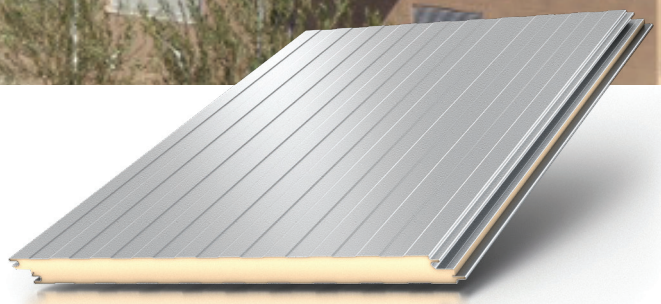
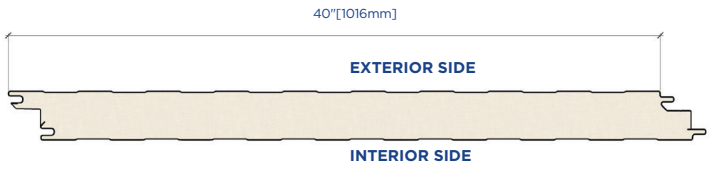
IMPower Series™ Insulated Metal Panels

DM40 WALL PANEL



Features & Benefits

- Highly efficient and flexible insulated metal panel design is ideal for commercial, industrial and controlled environment applications
- Provides long-term thermal, moisture and vapor transmission performance
- Panel joinery is designed to permit installation of the panel vertically or horizontally
- Composite panel simplifies design, reduces complexity, improves efficiency and reduces installation costs
- Single component wall design includes exterior aesthetic, weather barrier, insulation and vapor barrier



Product Specifications

Profile	Exterior	Embossed, Lightly Planked, Mesa Rib					
	Interior	Embossed, Lightly Planked, Mesa Rib					
Exterior Face Skin	26 Gauge G90/AZ50, Optional Gauges: 24 and 22 G90/AZ50, 26 304 2B Stainless Steel*						
Interior Face Skin	26 Gauge G90/AZ50, Optional Gauges: 24 and 22 G90/AZ50, 26 304 2B Stainless Steel						
Panel Module**	40"[1016mm]						
Lengths**	Minimum: 8'[2.44m], Maximum: 50'[15.24m]						
Side Lap	Double Tongue and Groove						
GWP±	5.6 to 10.5 Lb CO_2eq/ft² [27.2 to 51.2 kg CO_2eq/m²]						
Thermal Performance†							
Thickness	2"[51mm]	2.5"[64mm]	3"[76mm]	4"[102mm]	5"[127mm]	6"[152mm]	8"[203mm]
R-Value @ 75°F mean (°F·ft2·h/BTU)	14	18	21	28	36	43	57
U-Value @ 75°F mean (BTU/°F·ft2·h)	0.069	0.056	0.046	0.035	0.028	0.023	0.017
R-Value @ 35°F mean (°F·ft2·h/BTU)	16	20	24	32	41	49	65
U-Value @ 35°F mean (BTU/°F·ft2·h)	0.061	0.049	0.041	0.031	0.024	0.020	0.015

MS Metal Sales™

800.406.7387
metalsales.us.com

Testing & Approvals

Category	Test	Test Title	Results
Fire	FM 4880	Class 1 Fire Rating of Insulated Wall, Ceiling and Roof Panels	Passed: Class 1 Fire Rating of Building Panels or Interior Finish Material
	ASTM E84	Surface Burning Characteristics of Building Materials	Flame Spread Index: 25 or less Smoke Developed Index: 450 or less
	NFPA 285	Evaluation of Fire Propagation Characteristics of Exterior Non-Load Bearing Wall Assemblies	Passed
	NFPA 286	Room Fire Growth for Wall and Ceiling Interior	Passed Maximum 6"[152mm] thickness
	NFPA 268	Standard Test Method for Determining Ignitibility of Exterior Wall Assemblies Using a Radiant Heat Energy Source	Assembly tested meets the requirements of the standard
	CAN/ULC S101 - 15 min	Fire Endurance	Maximum 6"[152mm] thick. Vertical and horizontal orientations
	CAN/ULC S102	Flame Spread/Smoke Developed	FSI ≤ 20, SDI ≤ 195
	CAN/ULC S134	Exterior Wall Assembly	Maximum 6"[152mm] thick. Vertical orientations
	CAN/ULC S138	Room Corner Test	Maximum 6"[152mm] thick. Vertical and horizontal orientations
Water Penetration	ASTM E331	Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference	No uncontrolled water penetration at 20 PSF differential pressure for a duration of 2-hours
Air Infiltration	ASTM E283	Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors	<0.01 CFM/ft2 of Panel Area at 20 PSF
Structural	FM 4881	Class 1 Exterior Wall Systems	See FM Approval Guide or contact Technical Services Minimum 2.5"[64mm] thickness
	ASTM E72	Standard Test Methods of Conducting Strength Tests of Panels for Building Construction	See Span Tables
	ASTM E1592	Structural Performance for Sheet Metal and Sidings Systems by Uniform Static Air Pressure Difference	See Span Tables
Thermal	ASTM C518	Steady-State Thermal Transmission	Nominal R-value of 7.2 [hr·ft2·°F/Btu] per inch at 75°F mean temperature and 8.2 [hr·ft2·°F/Btu] per inch at 35°F mean temperature
Code Approvals	FBC	Florida Building Code	FL15060
	Miami-Dade NOA	Florida Building Code	NOA No. 19-0124.03
	LARR	Los Angeles Building Code	LARR No. 25697 / IAPMO ER-301
	IAPMO	Various Building Codes	ER-301