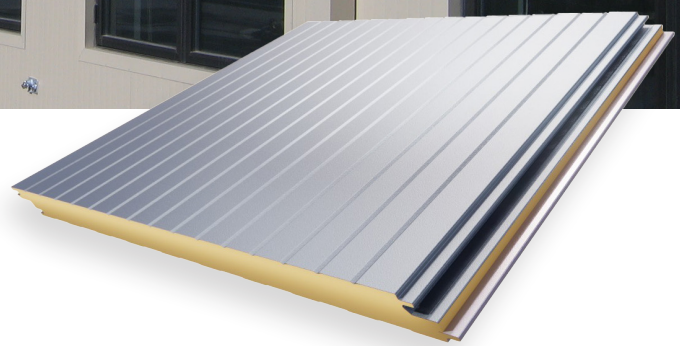
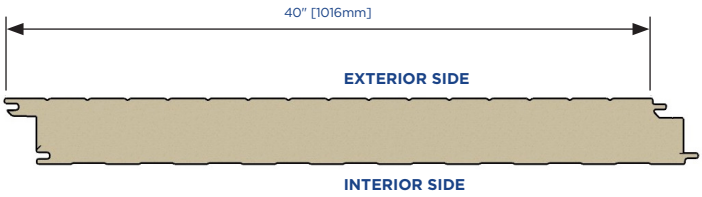
MV40 Micro-Vee Wall Panels

AWIP PRODUCT DATA SHEET



Features & Benefits

- The Micro-Vee profile delivers a sleek, contemporary look with its flat surface and refined lines, achieving a clean and sophisticated aesthetic
- The panel's overlapping joint is self-aligning and allows for easy sealant application at the panel joinery
- The standard exterior metal surface is 24 gauge G90/AZ50 steel with SMP or PVDF coatings
- The standard interior metal surface is 26 gauge Imperial White polyester



Profile	Exterior	Embossed, Micro-Vee				
	Interior	Embossed, Lightly Planked, Mesa Rib				
Exterior Face Skin	24 Gauge G90/AZ50, Optional Gauges: 22 G90/AZ50					
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: 40' [12.19m]					
Side Lap	Double Tongue and Groove					
GWP±	5.6 to 10.3 Lb CO_2eq/ft² [27.3 to 50.5 kg CO_2eq/m²]					
Core Type	Polyisocyanurate/PIR					
Thermal Performance†						
Thickness	2" [51mm]	2.5" [64mm]	3" [76mm]	4" [102mm]	5" [127mm]	6" [152mm]
R-Value @ 75°F mean (°F·ft2·h/BTU)	14.4	18	21.6	28.8	36	43.2
U-Value @ 75°F mean (BTU/°F·ft2·h)‡	0.102	0.088	0.073	0.044	0.033	0.022
R-Value @ 35°F mean (°F·ft2·h/BTU)	16.4	20.5	24.6	32.8	41	49.2
U-Value @ 35°F mean (BTU/°F·ft2·h)‡	0.093	0.078	0.064	0.034	0.027	0.020

* For interior applications only
** Contact AWIP for Custom Sizes
† R-values as tested per ASTM C518
‡ U-values as tested per ASTM C1363
± Per EPD based on TRACI method from cradle to gate (A1-A3). Lower range based on 2" 26/26 gauge panel. Higher limit based on 6" 22/22 gauge panel. Not all profiles are available in these specific configurations,

AWIP All Weather Insulated Panels

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
	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

All Weather Insulated Panels

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