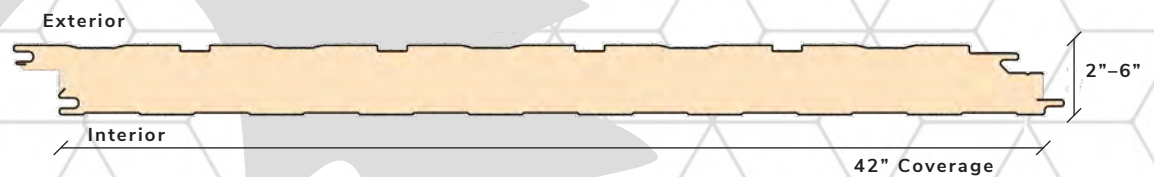
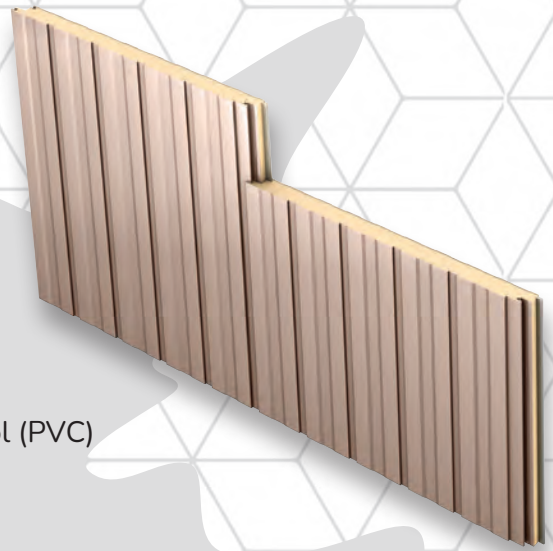




The ShadowLine insulated metal panel is our most dramatic profiled offering. The panel has five, 1/4" deep flutes along the exterior face. The 1/4" reveal disguises the side-joint and yields an aesthetic, monolithic look. The unique Green-Lock side-joint helps ensure a high-performance vapor seal.

Panel Use	Exterior Wall
Coverage Width	42-inch
Thickness	2, 2.5, 3, 4, 5, 6-inch
Length	8'-0" to 53'-0"
Exterior Gauge	26, 24, 22
Interior Gauge	26
Exterior Substrate	Galvalume®, G90
Interior Substrate	Galvalume®, G90, Stainless Steel
Exterior Finish	Siliconized Polyester, low-gloss PVDF
Interior Finish	Polyester, Siliconized Polyester, Plastisol (PVC)
Exterior Texture	Embossed, Smooth
Interior Texture	Embossed, Smooth
Joint	Green-Lock, offset double tongue-and-groove
Core	Continuously poured-in-place polyisocyanurate insulating foam
R-Value	R-8 per inch of thickness (nominal)



"Built to Perform, Built to Last, Built Right"

TESTING: SHADOWLINE INSULATED METAL PANEL

TYPE	TEST PROTOCOL	DESCRIPTION	RESULTS
ENVIRONMENTAL PERFORMANCE	ASTM C518	<i>Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus</i>	K-Factor 0.139 BTU-in/hr-ft ² -F° at 75° mean K-Factor 0.129 BTU-in/hr-ft ² -F° at 35° mean
	ASTM E283	<i>Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen</i>	0.0011-cfm/sf at 20-psf
	ASTM E331	<i>Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference</i>	Zero penetration at 20-psf
FOAM CORE CHARACTERISTICS	ASTM C273	<i>Shear Properties of Sandwich Core Materials</i>	Shear Strength = 16-psi
	ASTM D1621	<i>Compressive Properties of Rigid Cellular Plastics</i>	Compressive Strength — 18-psi
	ASTM D1622	<i>Apparent Density of Rigid Cellular Plastics</i>	Apparent Density — 2.25-pcf
	ASTM D1623	<i>Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics</i>	Tensile Strength — 21-psi
	ASTM D6226	<i>Open Cell Content of Rigid Cellular Plastics</i>	Open Cell Content ≥ 90% closed cells
FIRE RESISTANCE	ASTM E84	<i>Surface Burning Characteristics of Building Materials</i>	Flame Spread < 25, Smoke Developed < 450
	NFPA 285	<i>Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components</i>	Passed — see technical bulletin ATB-0007
	FM 4880	<i>Factory Mutual Approval Standard for Class 1 Fire Rating of Insulated Wall or Wall and Roof/Ceiling Panels, Interior Finish Materials or Coatings and Exterior Wall Systems</i>	Class 1 Fire Rated — see technical bulletin ATB-0005
IMPACT RESISTANCE	FM 4881	<i>Factory Mutual Approval Standard for Class 1 Exterior Wall Systems</i>	
	TAS 201	<i>Florida Building Code Impact Test Procedure</i>	Miami Dade County NOA No. 20-1202.02
ENGINEERING PROPERTIES	ASTM E1592	<i>Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference</i>	See Load Tables
	ASTM E72	<i>Strength Tests of Panels for Building Construction</i>	See Load Tables
	FM 4881	<i>Factory Mutual Approval Standard for Class 1 Exterior Wall Systems</i>	Class 1 Approved — see technical bulletins ETB-0008 and ETB-0013
APPROVALS	Miami-Dade County	<i>Miami-Dade County Product Control Section — Notice of Acceptance</i>	Miami Dade County NOA No. 20-1202.02
	State of Florida	<i>Florida Product Approval</i>	16327.1 R3
	TX Dept. of Insurance	<i>Product Evaluation</i>	Evaluation ID: EC-103
BOND STRENGTH	Fatigue Endurance	<i>2,000,000 Alternating Cycles of L/180 Deflection</i>	No evidence of facer or liner delamination, fracture of foam core or permanent set
	Freeze/Heat Cycle	<i>Twenty-One (21) Eight-hour Temperature Cycles (-20° F to 180° F)</i>	No evidence of delamination, blistering or permanent set
	Humidity Endurance	<i>1,200 Hours of 93% Humidity at a Temperature of 158° F</i>	No evidence of delamination, blistering or interface corrosion
	Autoclave	<i>Exposure to 218° F and a pressure of 2-psig for 2½ hours</i>	No evidence of facer or liner delamination

