



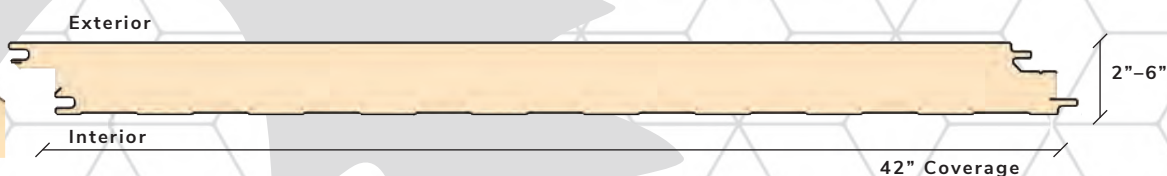
GREEN SPAN PROFILES®

INSULATED PANEL TECHNOLOGIES



Designed specifically for dust-free environments, the CleanLine exterior face is free of all embossing and profiling. CleanLine insulated metal panels are manufactured specifically for interior use as partition-walls, liner-walls and ceilings. The unique Green-Lock side-joint facilitates accurate sealant placement and helps ensure a high-performance vapor seal.

Panel Use	Partition Wall, Liner Wall, Ceiling
Coverage Width	42-inch
Thickness	2, 2.5, 3, 4, 5, 6-inch
Length	8'-0" to 40'-0"
Exterior Gauge	26, 24, 22
Interior Gauge	26
Exterior Substrate	Galvalume®
Interior Substrate	Galvalume®
Exterior Finish	Polyester, Siliconized Polyester, Plastisol (PVC)
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)

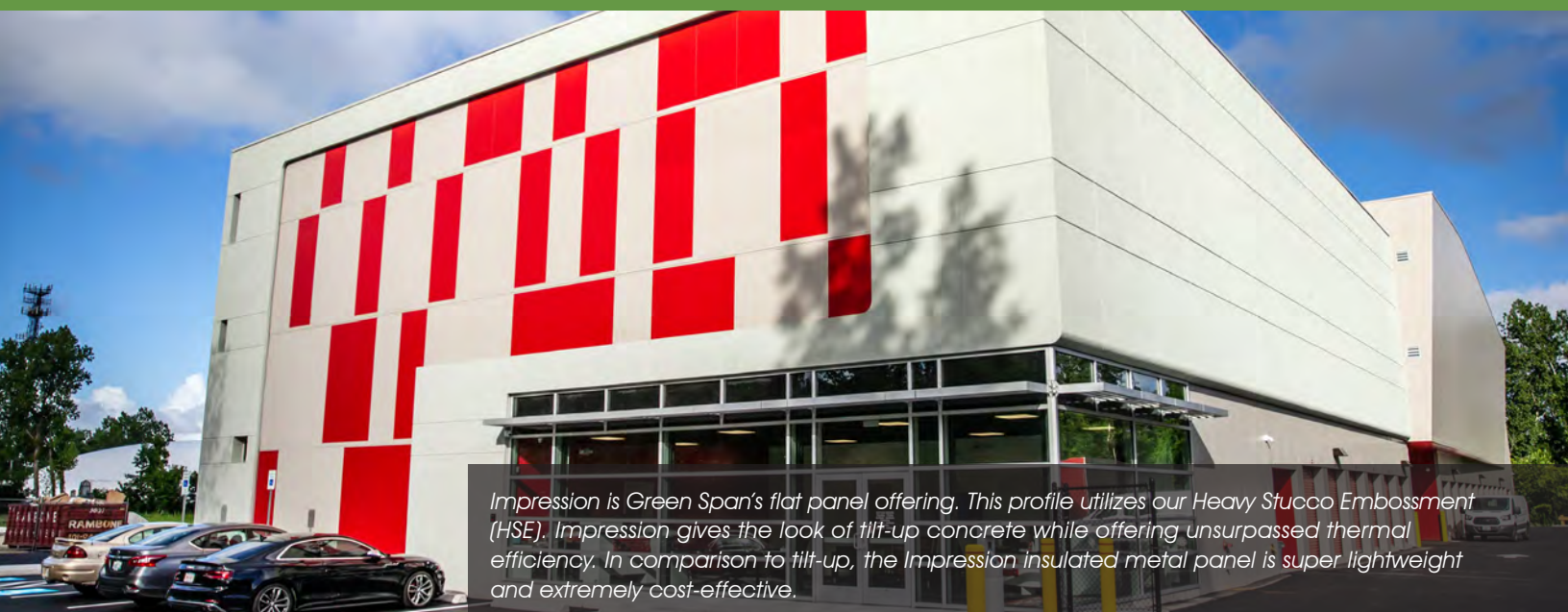


"Built to Perform, Built to Last, Built Right"

TESTING: CLEANLINE INSULATED METAL PANEL

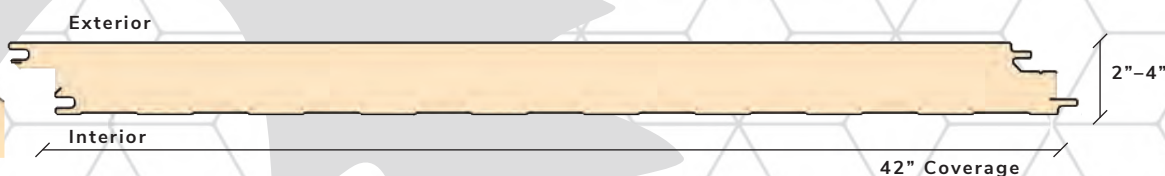
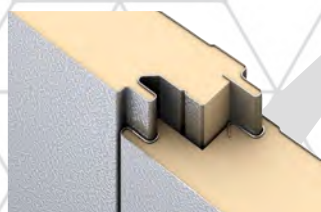
TYPE	TEST PROTOCOL	DESCRIPTION	RESULTS
ENVIRONMENTAL PERFORMANCE	ASTM C518	<i>Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus</i>	K-Factor 0.139 BTU-in/hr-ft ² -F° at 75° mean K-Factor 0.129 BTU-in/hr-ft ² -F° at 35° mean
	ASTM E283	<i>Rate of Air Leakage Through 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>	
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





Impression is Green Span's flat panel offering. This profile utilizes our Heavy Stucco Embossment (HSE). Impression gives the look of tilt-up concrete while offering unsurpassed thermal efficiency. In comparison to tilt-up, the Impression insulated metal panel is super lightweight and extremely cost-effective.

Panel Use	Exterior Wall
Coverage Width	42-inch
Thickness	2, 2.5, 3, 4-inch
Length	8'-0" to 40'-0"
Exterior Gauge	26, 24
Interior Gauge	26
Exterior Substrate	Galvalume®
Interior Substrate	Galvalume®, Stainless Steel
Exterior Finish	Siliconized Polyester, low-gloss PVDF
Interior Finish	Polyester, Siliconized Polyester, Plastisol (PVC)
Exterior Texture	Heavy Embossed
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: IMPRESSION INSULATED METAL PANEL

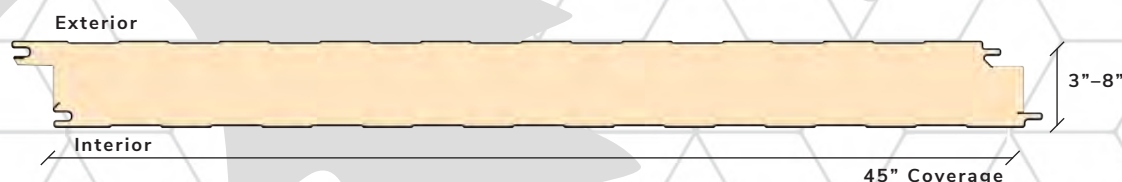
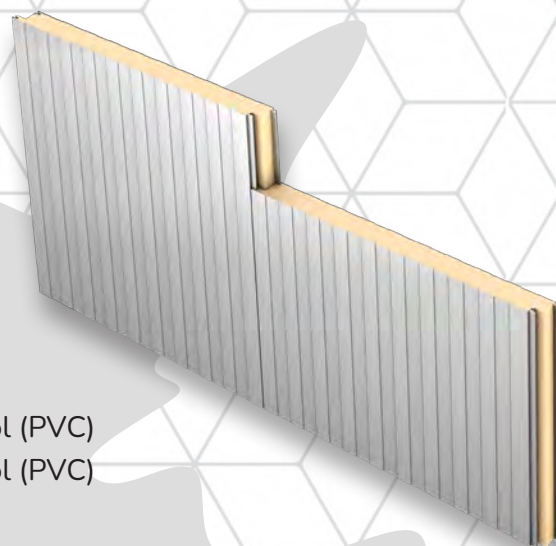
TYPE	TEST PROTOCOL	DESCRIPTION	RESULTS
ENVIRONMENTAL PERFORMANCE	ASTM C518	Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus	K-Factor 0.139 BTU-in/hr-ft ² -F° at 75° mean K-Factor 0.129 BTU-in/hr-ft ² -F° at 35° mean
	ASTM E283	Rate of Air Leakage Through Exterior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





We specifically designed the MaxLine insulated metal panel as our widest and most economical insulated metal panel offering. It is intended to maximize installation efficiency and maximize cost-effectiveness. The unique Green-Lock side-joint facilitates accurate sealant placement and helps ensure a high-performance vapor seal.

Panel Use	Partition Wall, Liner Wall, Tee Supported Ceiling
Coverage Width	45-inch
Thickness	3, 4, 5, 6, 8-inch
Length	8'-0" to 75'-0"
Exterior Gauge	26
Interior Gauge	26
Exterior Substrate	Galvalume®
Interior Substrate	Galvalume®
Exterior Finish	Polyester, Siliconized Polyester, Plastisol (PVC)
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"

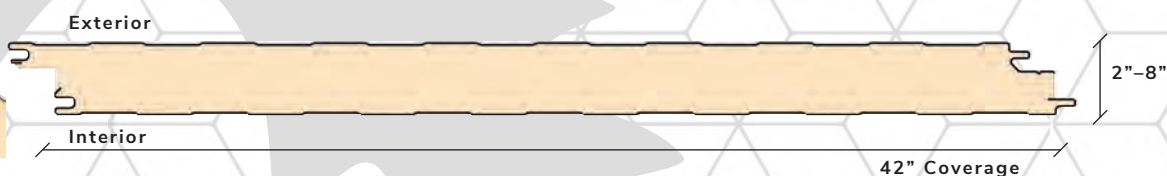
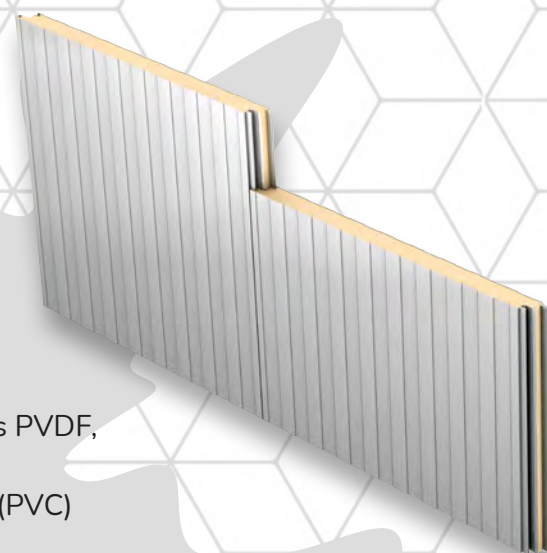
TESTING: MAXLINE INSULATED METAL PANEL

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
	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>	
ENGINEERING PROPERTIES	ASTM E72	<i>Strength Tests of Panels for Building Construction</i>	See Load Tables
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





Panel Use	Exterior Wall, Partition Wall, Liner Wall, Ceiling
Coverage Width	42-inch
Thickness	2, 2.5, 3, 4, 5, 6, 8-inch
Length	8'-0" to 75'-0"
Exterior Gauge	26, 24, 22
Interior Gauge	26
Exterior Substrate	Galvalume®, Stainless Steel
Interior Substrate	Galvalume®, Stainless Steel
Exterior Finish	Polyester, Siliconized Polyester, low-gloss PVDF, Plastisol (PVC)
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: MESALINE INSULATED METAL PANEL

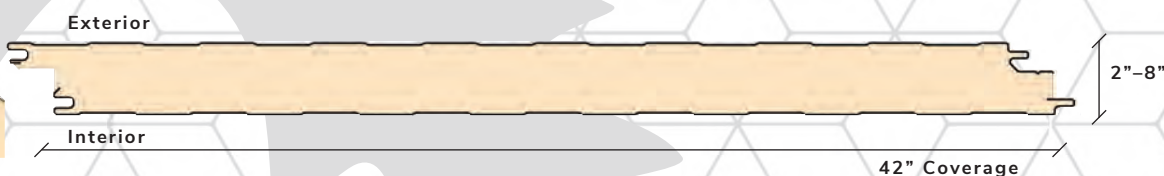
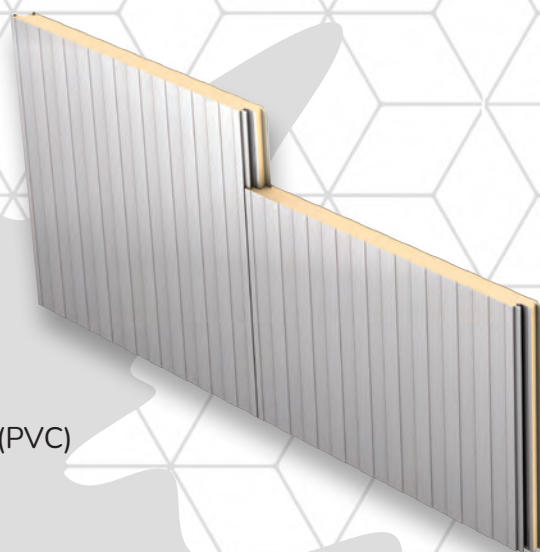
TYPE	TEST PROTOCOL	DESCRIPTION	RESULTS
ENVIRONMENTAL PERFORMANCE	ASTM C518	Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus	K-Factor 0.139 BTU-in/hr-ft ² -F° at 75° mean K-Factor 0.129 BTU-in/hr-ft ² -F° at 35° mean
	ASTM E283	Rate of Air Leakage Through Exterior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





HSE stands for Heavy Stucco Embossed. MesaLine HSE was designed to satisfy those who desire something different for their Commercial/Industrial structure. Having all the positive attributes of the tried-and-true MesaLine profile, MesaLine HSE adds a heavy stucco embossment for a more dramatic impact. As with all of our wall profiles, MesaLine HSE has the unique Green-Lock side-joint helping to ensure a high-performance vapor seal.

Panel Use	Exterior Wall
Coverage Width	42-inch
Thickness	2, 2.5, 3, 4, 5, 6, 8-inch
Length	8'-0" to 75'-0"
Exterior Gauge	26, 24
Interior Gauge	26
Exterior Substrate	Galvalume®
Interior Substrate	Galvalume®, Stainless Steel
Exterior Finish	Siliconized Polyester, low-gloss PVDF
Interior Finish	Polyester, Siliconized Polyester, Plastisol (PVC)
Exterior Texture	Heavy Embossed
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: MESALINE HSE INSULATED METAL PANEL

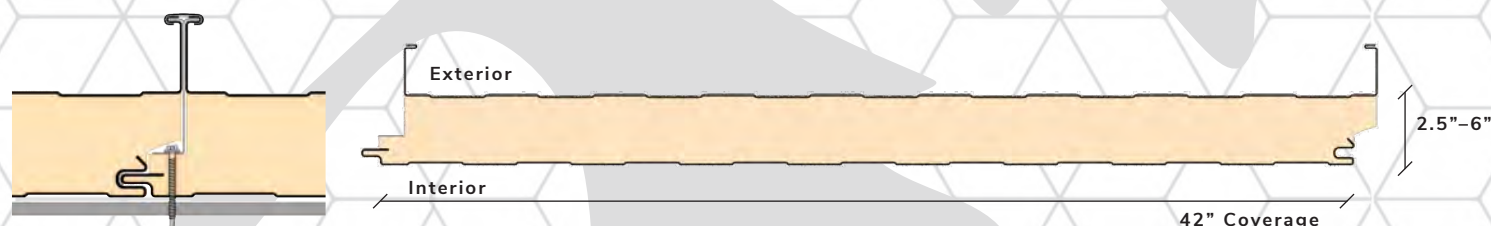
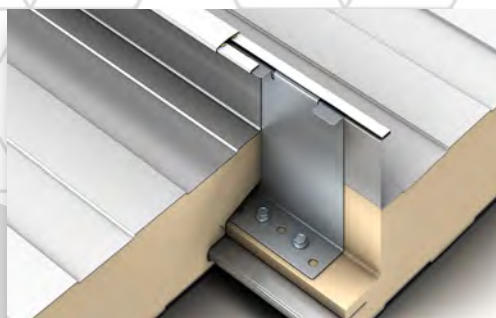
TYPE	TEST PROTOCOL	DESCRIPTION	RESULTS
ENVIRONMENTAL PERFORMANCE	ASTM C518	Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus	K-Factor 0.139 BTU-in/hr-ft ² -F° at 75° mean K-Factor 0.129 BTU-in/hr-ft ² -F° at 35° mean
	ASTM E283	Rate of Air Leakage Through Exterior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





RidgeLine is the IMP industry's premier insulated standing-seam roof panel. The patented tee-seam allows for sliding the panels together rather than lifting and/or rolling the panels into place. The interior tongue-and-groove joint, coupled with a factory-caulked batten, helps provide a double layer of weather-tight protection.

Panel Use	Exterior Standing-Seam Roof
Coverage Width	42-inch
Thickness	2.5, 3, 4, 5, 6-inch
Length	12'-0" to 53'-0"
Exterior Gauge	26, 24, 22
Interior Gauge	26
Exterior Substrate	Galvalume®
Interior Substrate	Galvalume®, Stainless Steel
Exterior Finish	Siliconized Polyester, standard gloss PVDF
Interior Finish	Polyester, Siliconized Polyester, Plastisol (PVC)
Exterior Texture	Smooth
Interior Texture	Embossed, Smooth
Exterior Joint	2"-tall, tee-shaped vertical rib with mechanically seamed batten
Interior Joint	Green-Lock, offset tongue-and-groove
Core	Continuously poured-in-place polyisocyanurate insulating foam
R-Value	R-8 per inch of thickness (nominal)
Minimum Slope	1/2 : 12
U.S. Patent	9,206,606 B2



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

TESTING: RIDGELINE INSULATED METAL PANEL

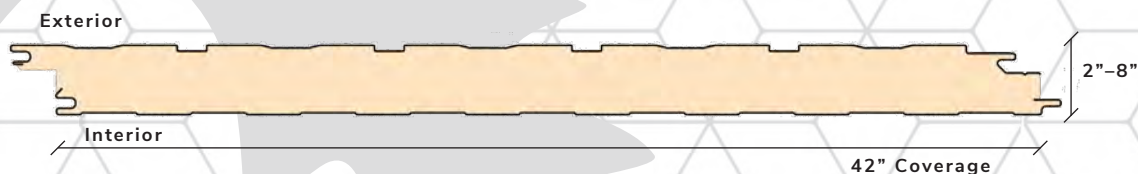
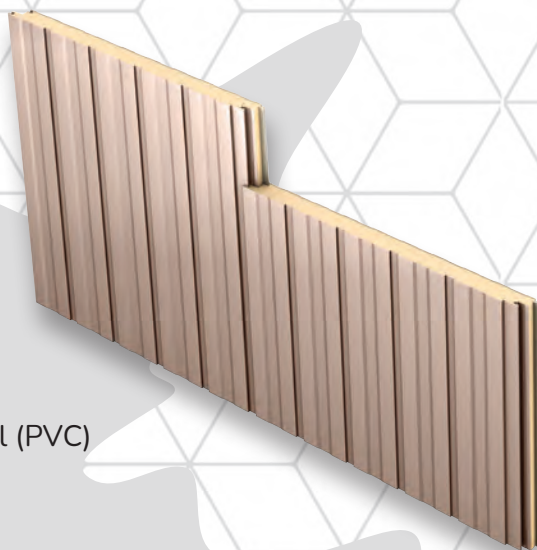
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ENVIRONMENTAL PERFORMANCE	ASTM C518	<i>Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus</i>	K-Factor 0.139 BTU-in/hr-ft ² -F° at 75° mean K-Factor 0.129 BTU-in/hr-ft ² -F° at 35° mean
	ASTM E1680	<i>Rate of Air Leakage Through Exterior Metal Roof Panel Systems</i>	0.001-cfm/sf at 12-psf
	ASTM E1646	<i>Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference</i>	Zero penetration at 12-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
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	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
	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 4771	<i>Factory Mutual Approval Standard for Class 1 Panel Roofs</i>	
	TAS 201	<i>Florida Building Code Impact Test Procedure</i>	Miami Dade County NOA No. 19-0417.04
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 4471	<i>Factory Mutual Approval Standard for Class 1 Panel Roofs</i>	Class 1 Approved — see technical bulletin ETB-0015
APPROVALS	Miami-Dade County	<i>Miami-Dade County Product Control Section — Notice of Acceptance</i>	Miami Dade County NOA No. 19-0417.04
	State of Florida	<i>Florida Product Approval</i>	21349.1 R3
	Underwriters Laboratories	<i>Roof Deck Construction — Class 90</i>	TGKX.698
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





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 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, 8-inch
Length	8'-0" to 75'-0"
Exterior Gauge	26, 24, 22
Interior Gauge	26
Exterior Substrate	Galvalume®
Interior Substrate	Galvalume®, 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)

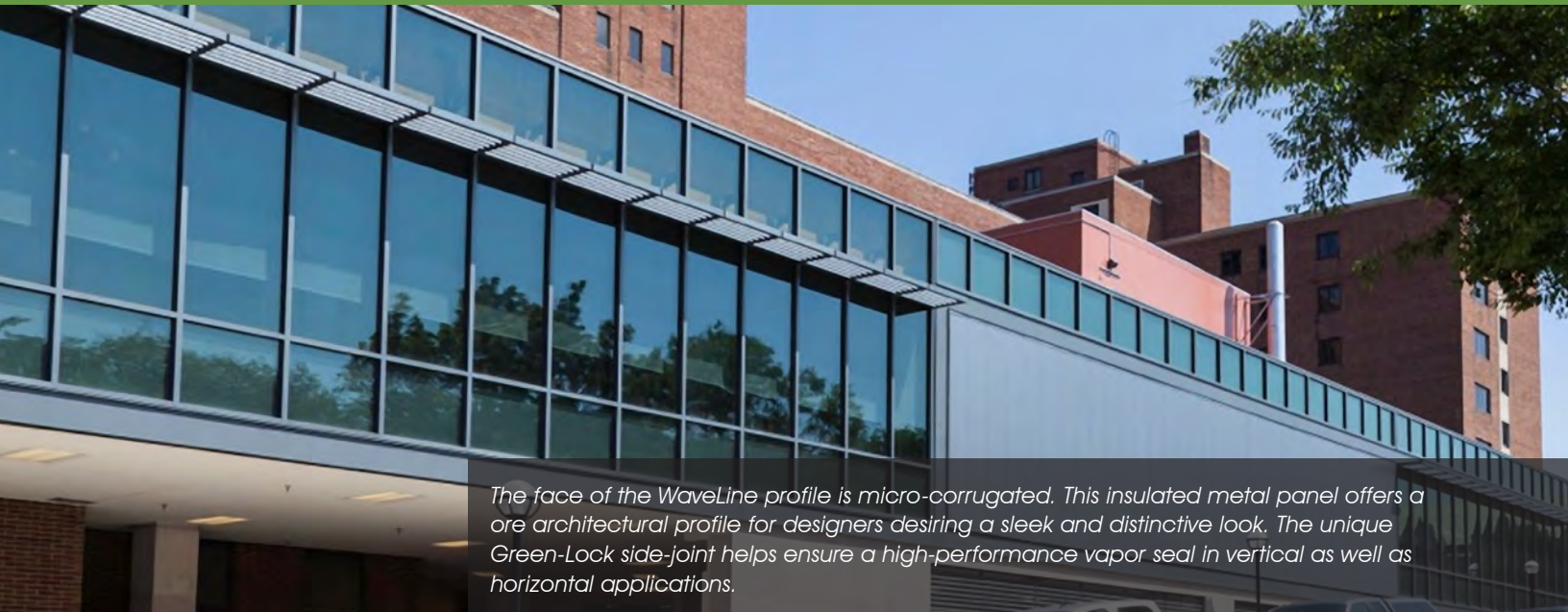


"Built to Perform, Built to Last, Built Right"

TESTING: SHADOWLINE INSULATED METAL PANEL

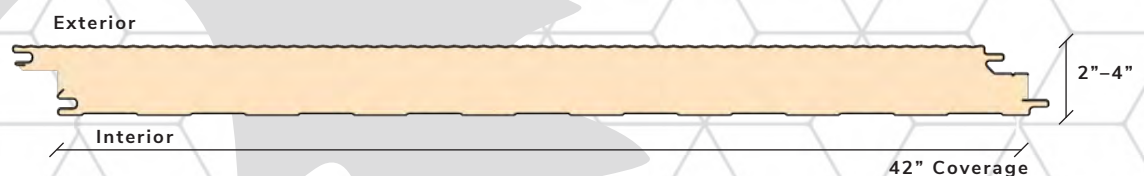
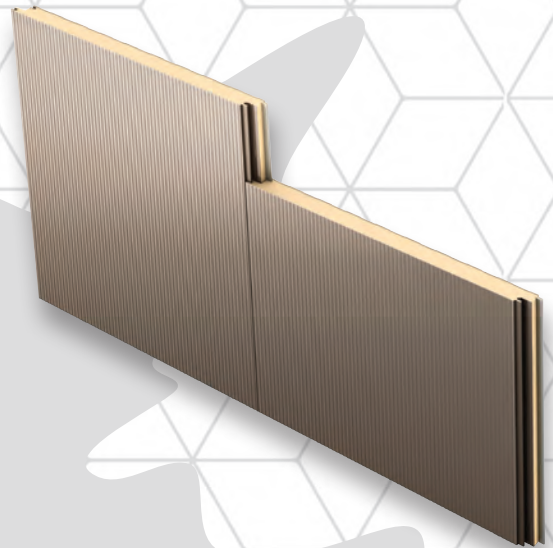
TYPE	TEST PROTOCOL	DESCRIPTION	RESULTS
ENVIRONMENTAL PERFORMANCE	ASTM C518	Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus	K-Factor 0.139 BTU-in/hr-ft ² -F° at 75° mean K-Factor 0.129 BTU-in/hr-ft ² -F° at 35° mean
	ASTM E283	Rate of Air Leakage Through Exterior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





The face of the WaveLine profile is micro-corrugated. This insulated metal panel offers a rare architectural profile for designers desiring a sleek and distinctive look. The unique Green-Lock side-joint helps ensure a high-performance vapor seal in vertical as well as horizontal applications.

Panel Use	Exterior Wall
Coverage Width	42-inch
Thickness	2, 2.5, 3, 4-inch
Length	8'-0" to 40'-0"
Exterior Gauge	24, 22
Interior Gauge	26
Exterior Substrate	Galvalume®
Interior Substrate	Galvalume®
Exterior Finish	Siliconized Polyester, low-gloss PVDF
Interior Finish	Polyester, Siliconized Polyester
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)

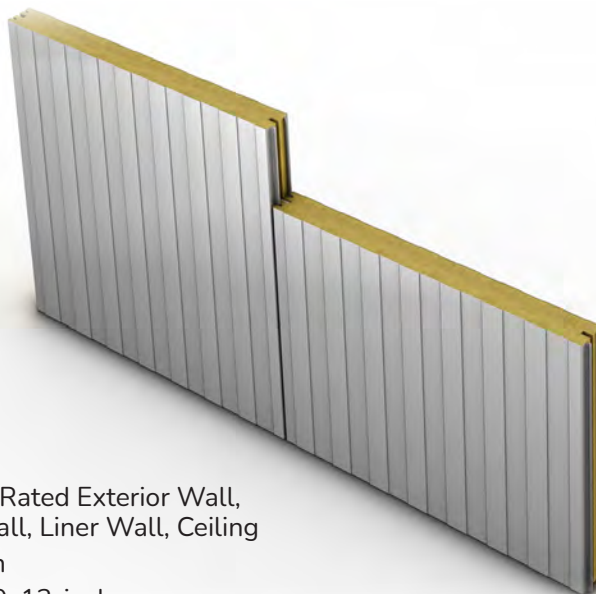
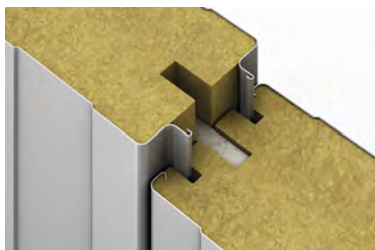


"Built to Perform, Built to Last, Built Right"

TESTING: WAVELINE INSULATED METAL PANEL

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





Panel Use	Hourly Fire Rated Exterior Wall, Partition Wall, Liner Wall, Ceiling
Coverage Width	47.375-inch
Thickness	4, 5, 6, 8, 10, 12-inch
Length	Minimum 8'-0" to maximum 30'-0"; over 30'-0", please inquire
Exterior Gauge	26, 24
Interior Gauge	26
Exterior Substrate	Galvalume®, Stainless Steel
Interior Substrate	Galvalume®, Stainless Steel
Exterior Finish	Polyester, Siliconized Polyester, PVDF, Plastisol (PVC)
Interior Finish	Polyester, Siliconized Polyester, Plastisol (PVC)
Exterior Texture	Embossed
Interior Texture	Embossed
Joint	Double tongue-and-groove with spline
Spline	Fiber-reinforced cement board (1/2" x 2-3/4" x 8' long)
Core	ROXUL® ConRock L structural mineral wool
K-factor	0.277 Btu-in/hr-ft²-F° @ 40° F mean temperature (R-3.61)



PERFORMANCE

Panel Thickness (in.)	Fire Rating (hr.)	Weight (psf)	Thermal U-factor (BTU / hr • ft² • F°)	R-factor (hr • ft² • F° / BTU)
4	1	4.6	0.069	14.49
5	2	5.3	0.055	18.18
6	3	6.0	0.046	21.74
8	3	7.5	0.035	28.57
10	3	8.9	0.028	35.71
12	3	10.3	0.023	43.48

Hourly fire-rating certifications are based upon the test method and acceptance criteria in ANSI/UL 263 (ASTM E119), "Fire Tests of Building Construction and Materials."

Panel Thickness (in.)	Uniform Load (psf)						
	5	10	15	20	25	30	40
4	22.2	15.7	12.8	11.1	9.9	8.2	6.2
5	24.8	17.5	14.2	12.4	10.6	9.1	6.8
6	27.3	19.3	15.7	13.6	12.1	10.1	7.6
8	31.5	22.3	18.2	15.8	14.0	11.6	8.7
10	35.2	24.9	20.3	17.6	15.6	13.0	9.8
12	38.6	27.3	22.3	19.3	17.1	14.2	10.7

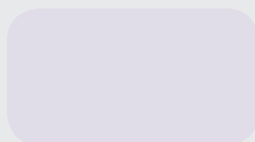


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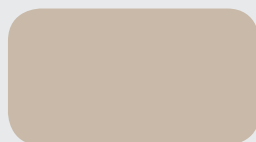
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Standard Siliconized Polyester Roof and Wall Colors

In-stock, Standard Gloss



REGAL WHITE II
SR:0.61 E:0.88 SRI:73



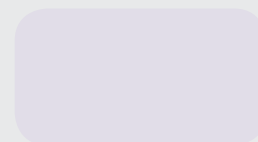
LIGHT STONE
SR:0.50 E:0.86 SRI:57



GRAY STONE
SR:0.41 E:0.86 SRI:45

Standard Polyester

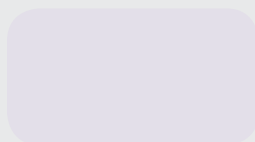
Interior Only



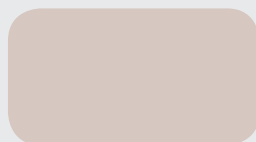
REGAL WHITE I

Standard Fluoropon PVDF Wall Colors

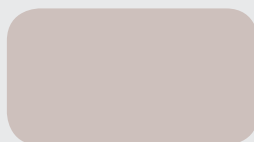
In-stock, Low Gloss



REGAL WHITE III
SR:0.66 E:0.87 SRI:80



ALMOND
SR:0.62 E:0.87 SRI:74



SANDSTONE
SR:0.59 E:0.87 SRI:70



ASH GRAY
SR:0.48 E:0.87 SRI:55



PATINA GREEN
SR:0.38 E:0.87 SRI:41



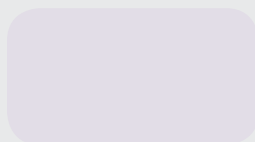
SURREY BEIGE
SR:0.48 E:0.87 SRI:55



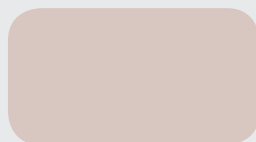
ROMAN BLUE
SR:0.26 E:0.87 SRI:25

Standard Fluoropon PVDF Roof Colors

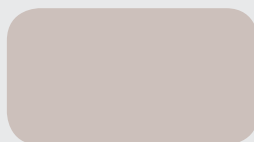
In-stock, Standard Gloss



REGAL WHITE III
SR:0.68 E:0.86 SRI:82



ALMOND
SR:0.60 E:0.84 SRI:70



SANDSTONE
SR:0.54 E:0.86 SRI:63



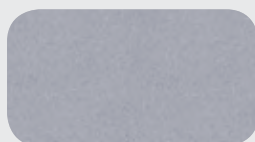
ASH GRAY
SR:0.39 E:0.84 SRI:41



PATINA GREEN
SR:0.46 E:0.85 SRI:51

Premium Metallics

Special Colors, Not in Stock, Additional Costs Will Apply



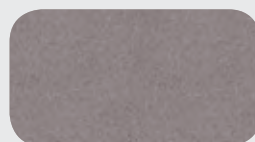
TEXAS SILVER
SR:0.58 E:0.78 SRI:66



LEADCOAT
SR:0.37 E:0.82 SRI:38



WEATHERED GALVALUME
SR:0.30 E:0.79 SRI:27



CHAMPAGNE
SR:0.38 E:0.80 SRI:38



COPPER PENNY
SR:0.49 E:0.85 SRI:55

Notes:

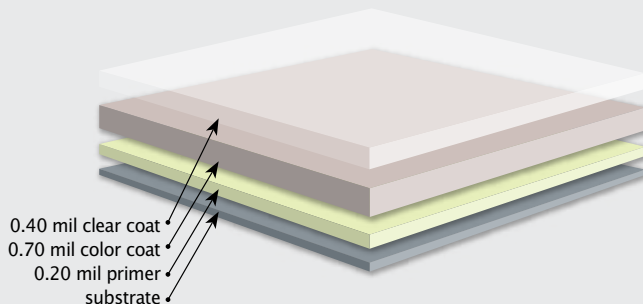
The colors above are representative and may vary slightly from actual colors. Prior to making final selections, please request actual color chip samples. SR stands for Solar Reflectivity and is the ability of a material to reflect solar energy back into the atmosphere. E stands for Emissivity and is the ability of a material to release absorbed energy back into the atmosphere. SRI represents Solar Reflective Index and is a measure of the material's ability to reject solar heat considering reflectance, emissivity and convection. All information is subject to change without notice. Please reference our web site for the most current data.



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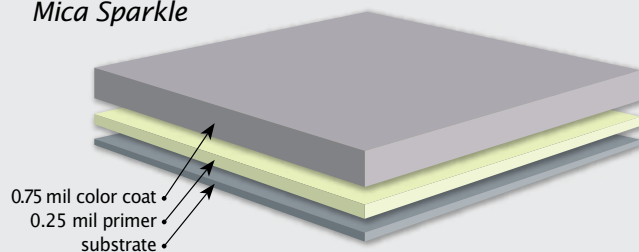
AVAILABLE COATING PRODUCTS

Fluropon® Premiere

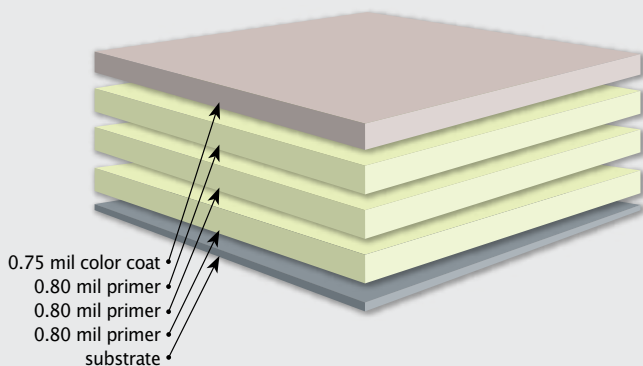


Fluropon Classic® II

Mica Sparkle



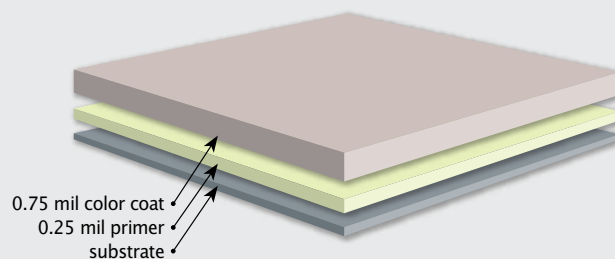
Flurothane® IV



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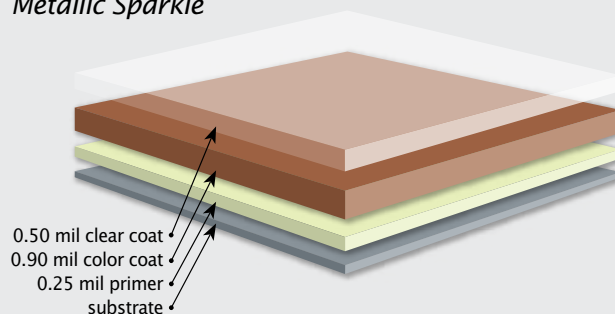
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All colors are produced by the Valspar Corporation.
All colors are Energy Star compliant.
All coatings have a min/max thickness, average thickness is shown.

Fluropon®, WeatherX® & Dynapon®

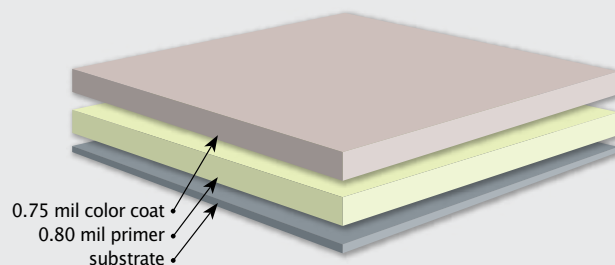


Fluropon Classic®

Metallic Sparkle

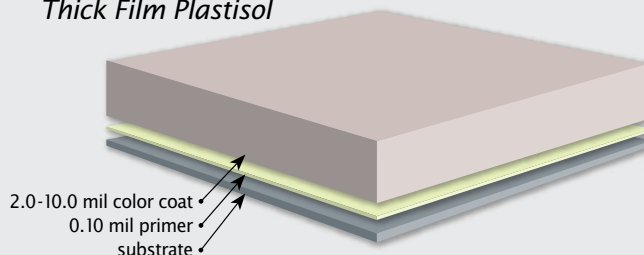


Flurothane® II



Valshield®

Thick Film Plastisol



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