



2"-6"

42" Coverage



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®, G90
	Interior Substrate	Galvalume®, G90
	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)

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Exterior

Interior

#### **TESTING: CLEANLINE INSULATED METAL PANEL**

ТҮРЕ	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 <sup>2</sup> -F° at 75° mean K-Factor 0.129 BTU-in/hr-ft <sup>2</sup> -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	ASTM C273	Shear Properties of Sandwich Core Materials	Shear Strength = 16-psi
CHARACTERISTICS	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	ASTM E84	Surface Burning Characteristics of Building Materials	Flame Spread < 25, Smoke Developed < 450
RESISTANCE	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. 15-0204.02
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. 15-0204.02
	State of Florida	Florida Product Approval	#16327-R1
	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



2"-4"

42" Coverage

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 Coverage Width	Exterior Wall 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®, G90
	Interior Substrate	Galvalume®, G90, 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)

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IMPRESSION INSULATED METAL PANEL DATA SHEET

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Exterior

Interior

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### **TESTING: IMPRESSION INSULATED METAL PANEL**

ТҮРЕ	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-ft²-F° at 75° mean K-Factor 0.129 BTU-in/hr-ft²-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	ASTM C273	Shear Properties of Sandwich Core Materials	Shear Strength = 16-psi
CHARACTERISTICS	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	ASTM E84	Surface Burning Characteristics of Building Materials	Flame Spread < 25, Smoke Developed < 450
RESISTANCE	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. 15-0204.02
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. 15-0204.02
	State of Florida	Florida Product Approval	#16327-R1
	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











2"-6"

45" Coverage



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-inch
	Length	8'-0" to 53'-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)
7	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)
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Exterior

⊃\_\_\_\_\_ ,Interior

#### **TESTING: MAXLINE INSULATED METAL PANEL**

ТҮРЕ	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 <sup>2</sup> -F° at 75° mean K-Factor 0.129 BTU-in/hr-ft <sup>2</sup> -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	ASTM C273	Shear Properties of Sandwich Core Materials	Shear Strength = 16-psi
CHARACTERISTICS	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	ASTM E84	Surface Burning Characteristics of Building Materials	Flame Spread < 25, Smoke Developed < 450
RESISTANCE	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. 15-0204.02
ENGINEERING PROPERTIES	ASTM E72	Strength Tests of Panels for Building Construction	See Load Tables
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 $2\frac{1}{2}$ hours	No evidence of facer or liner delamination





2"-6"

42" Coverage



MesaLine is our most widely accepted and used insulated metal panel. Utilized in both cold-storage and commercial/industrial applications, the lined profile provides strength, facilitates foam adhesion and helps minimize natural imperfections in the steel faces. The shallow Mesa rib and the unique Green-Lock side-joint help ensure a high-performance vapor seal.

Panel Use	Exterior Wall, Partition Wall, Liner Wall, Ceiling
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, Stainless Steel
Interior Substrate	Galvalume®, G90, Stainless Steel
Exterior Finish	Polyester, Siliconized Polyester, Iow-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)
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Exterior

S\_\_\_\_\_ Interior

#### **TESTING: MESALINE INSULATED METAL PANEL**

ТҮРЕ	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-ft²-F° at 75° mean K-Factor 0.129 BTU-in/hr-ft²-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	ASTM C273	Shear Properties of Sandwich Core Materials	Shear Strength = 16-psi
CHARACTERISTICS	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	ASTM E84	Surface Burning Characteristics of Building Materials	Flame Spread < 25, Smoke Developed < 450
RESISTANCE	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. 15-0204.02
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. 15-0204.02
	State of Florida	Florida Product Approval	#16327-R1
	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









# MESALINE HSE

## GREEN SPAN PROFILES®

2"-6"

42" Coverage

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-inch
	Length	8'-0" to 53'-0"
	Exterior Gauge	26, 24
	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	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)

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Exterior

2\_\_\_\_\_ Interior

### **TESTING: MESALINE HSE INSULATED METAL PANEL**

ТҮРЕ	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-ft²-F° at 75° mean K-Factor 0.129 BTU-in/hr-ft²-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	ASTM C273	Shear Properties of Sandwich Core Materials	Shear Strength = 16-psi
CHARACTERISTICS	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	ASTM E84	Surface Burning Characteristics of Building Materials	Flame Spread < 25, Smoke Developed < 450
RESISTANCE	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. 15-0204.02
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. 15-0204.02
	State of Florida	Florida Product Approval	#16327-R1
	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











### GREEN SPAN PROFILES®

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
1	Exterior Substrate	Galvalume®, G90
	Interior Substrate	Galvalume <sup>®</sup> , G90, Stainless Steel
	Exterior Finish	Siliconized Polyester, standard gloss PVDF
	Interior Finish	Polyester, Siliconized Polyester, Plastisol (PVC)
	Exterior Texture	Smooth
$\sum$	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
1	R-Value	R-8 per inch of thickness (nominal)
/	Minimum Slope	1/2:12
	U.S. Patent	9,206,606 B2
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$\rightarrow$	$\rightarrow$ $\rightarrow$ $\rightarrow$	
4		Exterior
		2.5"-6"
	_5	42" Coverage
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#### **TESTING: RIDGELINE INSULATED METAL PANEL**

ТҮРЕ	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-ft²-F° at 75° mean K-Factor 0.129 BTU-in/hr-ft²-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	ASTM C273	Shear Properties of Sandwich Core Materials	Shear Strength = 16-psi
CHARACTERISTICS	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	ASTM E84	Surface Burning Characteristics of Building Materials	Flame Spread < 25, Smoke Developed < 450
RESISTANCE	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 4771	Factory Mutual Approval Standard for Class 1 Panel Roofs	
	TAS 201	Florida Building Code Impact Test Procedure	Miami Dade County NOA No. 17-0619.08
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 4471	Factory Mutual Approval Standard for Class 1 Panel Roofs	Class 1 Approved — see technical bulletin ETB-0015
APPROVALS	Miami-Dade County	Miami-Dade County Product Control Section — Notice of Acceptance	Miami Dade County NOA No. 17-0619.08
	State of Florida	Florida Product Approval	FL21349
	Underwriters Laboratories	Roof Deck Construction — Class 90	TGKX.698
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



### SHADOWLINE INSULATED METAL PANEL DATA SHEET

## GREEN SPAN PROFILES®

2"-6"

42" Coverage

The ShadowLine insulated metal panel is our most dramatic profiled offering. The panel has five, ¼" deep flutes along the exterior face. The 1¼" 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 Coverage Width	Exterior Wall 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 <sup>®</sup> , G90
	Interior Substrate	Galvalume <sup>®</sup> , 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)

Exterior

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### **TESTING: SHADOWLINE INSULATED METAL PANEL**

ТҮРЕ	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-ft²-F° at 75° mean K-Factor 0.129 BTU-in/hr-ft²-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	ASTM E84	Surface Burning Characteristics of Building Materials	Flame Spread < 25, Smoke Developed < 450	
RESISTANCE	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. 15-0204.02	
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. 15-0204.02	
	State of Florida	Florida Product Approval	#16327-R1	
	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	











2"-4"

42" Coverage

The face of the WaveLine profile is micro-corrugated. This insulated metal panel offers a more 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 <sup>®</sup> , G90			
	Interior Substrate	Galvalume®, G90			
	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)			
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Exterior

5 Interior

5

#### **TESTING: WAVELINE INSULATED METAL PANEL**

ТҮРЕ	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-ft²-F° at 75° mean K-Factor 0.129 BTU-in/hr-ft²-F° at 35° mean
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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. 15-0204.02
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. 15-0204.02
	State of Florida	Florida Product Approval	#16327-R1
	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
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### **INSULROCK** FIRE RATED PANEL



• Exterior Profile: MesaLine, VeeLine or Stucco

47.375-inch

Embossed

Embossed

26 (0.020"), 24 (0.023")

1.0 mil thick Kynar 500®

4, 5, 6, 8, 10 and 12-inch

- Interior Profile: MesaLine
- Exterior Gauge:
- Interior Gauge: 26 (0.020")
- Substrate:
- Exterior Finish:
- Interior Finish:
- Coverage Width (B):
- Thickness (A):
- Exterior Texture:
- Interior Texture:
- · Core:
- K-factor:
- Splines:
- Available Lengths:
- · Note:

Siliconized Polyester (USDA white), Plastisol available (B)

PANEL CROSS-SECTION





- PANEL SIDELAP
- Minimum 8'-0" to maximum 30'-0"; over 30'-0", please inquire All information subject to change without notice. Please reference website for most current data.

Fiber-reinforced cement board (1/2" x 2-3/4" x 8' long)

PERFORMANCE

10

15.7

17.5

19.3

22.3

24.9

27.3

Galvalume®, G90 Galvanized (Grade 33) and Stainless Steel (Type 304)

	Panel Thickness	Fire Rating	Weight	Thermal U-factor	R-factor
	(in.)	(hr.)	(psf)	(BTU / hr ● ft2 ● F°)	(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

15

12.8

14.2

15.7

18.2

20.3

22.3

Uniform Load (psf)

20

11.1

12.4

13.6

15.8

17.6

19.3

25

9.9

10.6

12.1

14.0

15.6

17.1

30

8.2

9.1

10.1

11.6

13.0

14.2



Panel Thickness

(in.) 4

5

6

8

10

12

5

22.2

24.8

27.3

31.5

35.2

38.6

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4	/1	7

40

6.2

6.8

7.6

8.7

9.8

10.7



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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4/17

COLOR CHART

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#### Fluropon<sup>®</sup>, WeatherX<sup>®</sup> & Dynapon<sup>®</sup>





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