



ATAS International, Inc.
Sustainable Building Envelope Technology

ISOLEREN[®] INSULATED METAL PANELS

Roof & Wall Panels

FEATURES

Isoleren® insulated metal panels (IMPs) provide superior insulating properties and can be installed quickly. Because IMPs are a single-unit comprised of insulation sandwiched between two layers of metal skin, labor and material costs are minimized. The Isoleren RL insulated metal roof panel provides the look of a standing seam metal roof with maximum thermal performance. Isoleren insulated metal wall panels are available in five unique profiles and can be installed both vertically and horizontally for a distinct architectural look. Fire-rated wall panels are available in one, two and three-hour fire ratings.

ISOLEREN FEATURES

WALL & ROOF

All Isoleren panels, excluding Isoleren Fire-Rated, share the following specifications:

EXTERIOR FINISH

Polyester, Siliconized Polyester, 70% PVDF, Standard Gloss (USDA White), Plastisol (Isoleren ML only), and Stainless (Isoleren ML only)

INTERIOR PROFILE

Isoleren ML

INTERIOR GAUGE

26, 24, 22

EXTERIOR GAUGE

As noted under each product

INTERIOR TEXTURE

Smooth or Embossed

INTERIOR FINISH

Polyester, Siliconized Polyester, 70% PVDF, Standard Gloss (USDA White), Plastisol*, Stainless*

SUBSTRATE

55% Al-Zn Alloy Coated Steel with Acrylic Coating, G90 Galvanized and Stainless Steel

PANEL COVERAGE

42"

CORE

Continuously poured-in-place, polyisocyanurate, insulating foam

R-VALUE

R-8 per inch of thickness (nominal)

*Plastisol and Stainless are not available in Isoleren IM or Isoleren WL

ON THE COVER: Isoleren SL | Champagne (Premium Metallic) | Woods Hole Oceanographic Institution

PANEL INTERLOCK

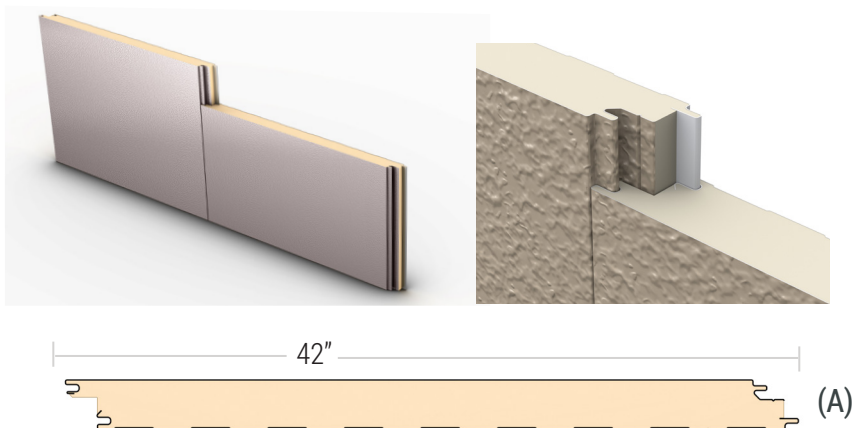


All Isoleren Wall Panels (Isoleren IM, Isoleren ML, Isoleren SL, Isoleren TE, and Isoleren WL) feature the interlock shown above.

ISOLEREN TEST DATA (WALL)

TEST PROTOCOL	DESCRIPTION
ENVIRONMENTAL PERFORMANCE	
ASTM C518	Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
ASTM E283	Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Difference Across the Specimen
ASTM E331	Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
FOAM CORE CHARACTERISTICS	
ASTM C273	Shear Properties of Sandwich Core Metals
ASTM D1621	Compressive Properties of Rigid Cellular Plastics
ASTM D1622	Apparent Density of Rigid Cellular Plastics
ASTM D1623	Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics
ASTM D6226	Open Cell Content of Rigid Cellular Plastics
FIRE RESISTANCE	
ASTM E84	Surface Burning Characteristics of Building Materials
NFPA 285	Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components
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
IMPACT RESISTANCE	
FM 4881	Factory Mutual Approval Standard for Class 1 Exterior Wall Systems
ENGINEERING PROPERTIES	
ASTM E1592	Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference
ASTM E72	Strength Tests of Panels for Building Construction
FM 4881	Factory Mutual Approval Standard for Class 1 Exterior Wall Systems
BOND STRENGTH	
Fatigue Endurance	2,000,000 Alternating Cycles of L/180 Deflection
Freeze/Heat Cycle	Twenty-One (21) Eight-hour Temperature Cycles (-20° F to 180° F)
Humidity Endurance	1,200 Hours of 93% Humidity at a Temperature of 158° F
Autoclave	Exposure to 218° F and a Pressure of 2-psig for 2½ Hours

WALL PANELS



ISOLEREN® IM

SKU: IIM

EXTERIOR GAUGE:

26, 24

THICKNESS (A):

2", 2½", 3", and 4"

EXTERIOR TEXTURE:

Troweled Embossed

STANDARD LENGTHS:

8'-0" to 40'-0"

Architectural Metals, Inc.
Aberdeen, MD
Isoleren IM in Regal White III



Lafayette College
Easton, PA
Isoleren IM in
Ash Gray



 For more information: Visit www.atas.com/isolerenim

ISOLEREN® SL

SKU: ISL

EXTERIOR GAUGE:

26, 24, 22

THICKNESS (A):

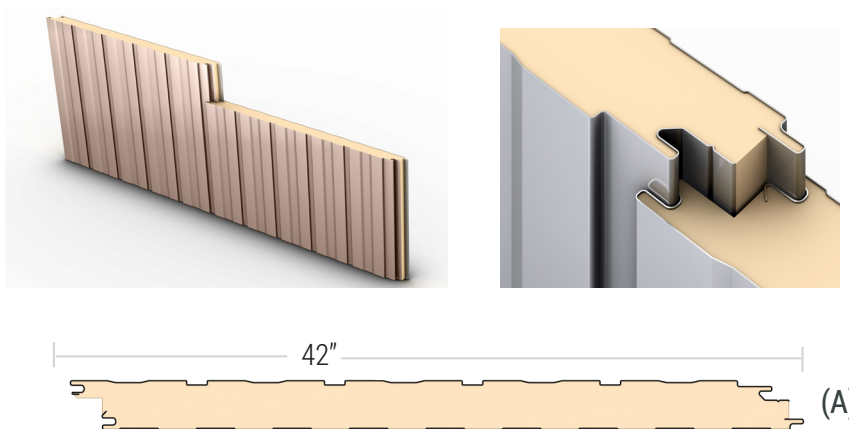
2", 2½", 3", 4", 5", and 6"

EXTERIOR TEXTURE:

Smooth or Embossed

STANDARD LENGTHS:

8'-0" to 53'-0"



 For more information: Visit www.atas.com/isolerenisl

WALL PANELS

ISOLEREN[®] ML

SKU: IML

EXTERIOR GAUGE:

26, 24, 22

THICKNESS (A):

2", 2½", 3", 4", 5", and 6"

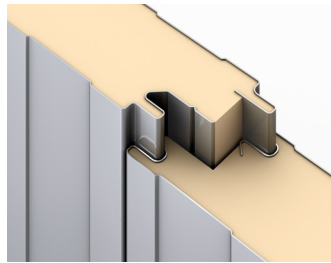
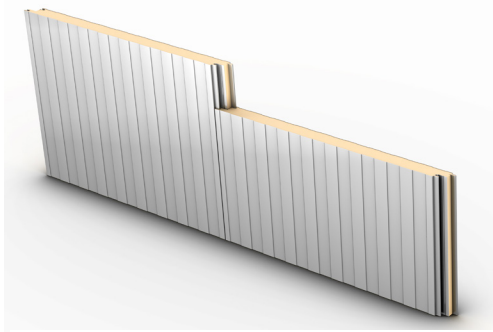
EXTERIOR TEXTURE:

Smooth or Embossed

STANDARD LENGTHS:

8'-0" to 53'-0"

 For more information: Visit www.atas.com/isolerenml



Universal Technical Institute
Bloomfield, NJ
Isoleren ML in Regal White

ISOLEREN[®] TE

SKU: ITE

EXTERIOR GAUGE:

26, 24

THICKNESS (A):

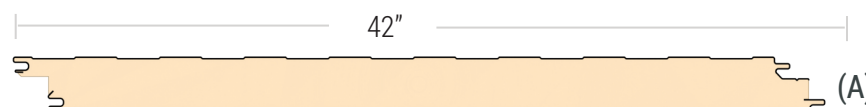
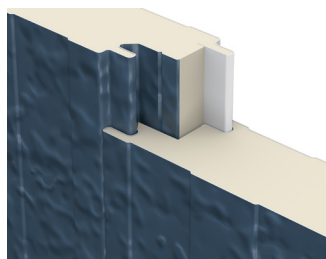
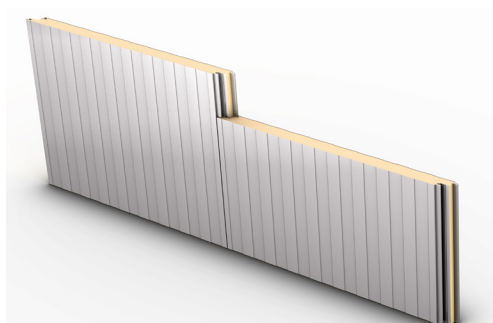
2", 2½", 3", 4", 5", and 6"

EXTERIOR TEXTURE:

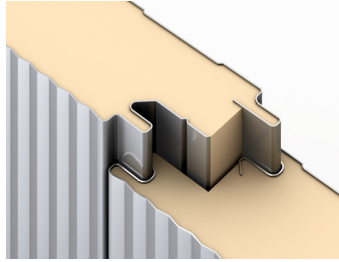
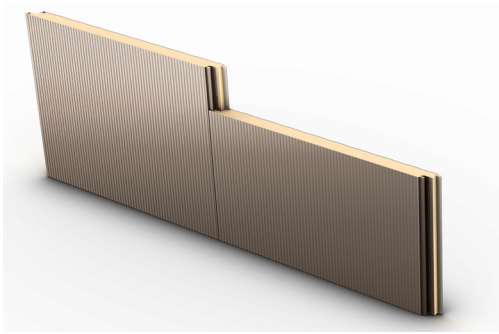
Troweled Embossed

STANDARD LENGTHS:

8'-0" to 53'-0"



 For more information: Visit www.atas.com/isolarente



ISOLEREN® WL

SKU: IWL

EXTERIOR GAUGE:

24, 22

THICKNESS (A):

2", 2½", 3", and 4"

EXTERIOR TEXTURE:

Smooth or Embossed

STANDARD LENGTHS:

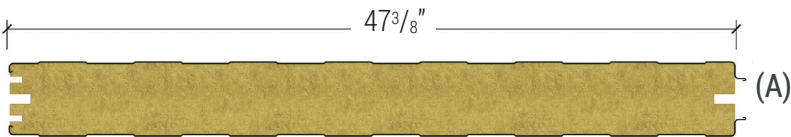
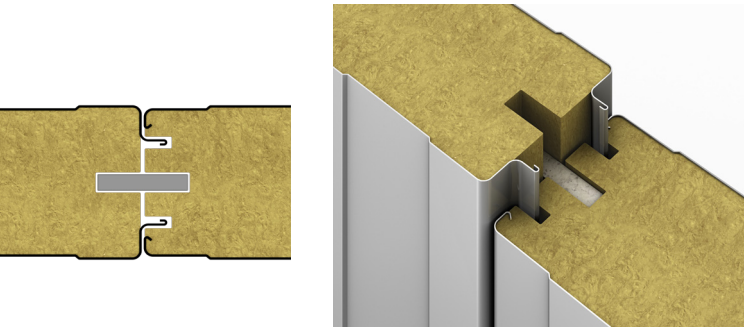
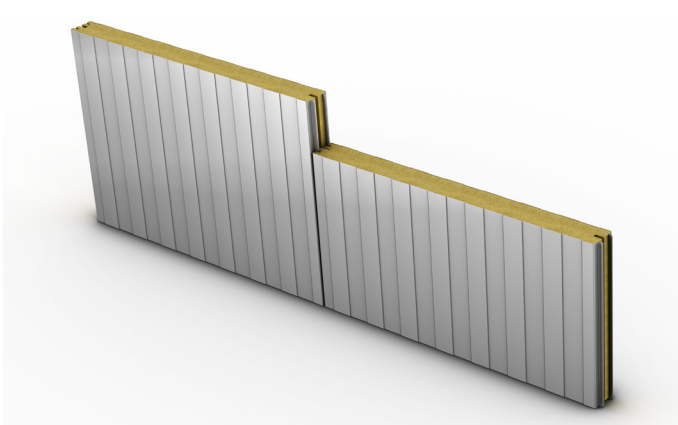
8'-0" to 40'-0"

 For more information: Visit www.atas.com/isolerenwl



Cubesmart
Astoria, NY
Isoleren WL in Dove Grey &
Custom Red

FIRE-RATED WALL PANEL



PERFORMANCE (FIRE-RATED)

Panel Thickness (in.)	Fire Rating (hr.)	Weight (psf)	Thermal U-factor	R-Factor
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

ISOLEREN® FIRE-RATED

SKU: IMF, ISF

THICKNESS (A)

4", 5", 6", 8", 10", and 12"

AVAILABLE LENGTHS

Minimum 8'-0" to maximum 30'-0", over 30'-0", please inquire

EXTERIOR PROFILE

Isoleren MF, SF

EXTERIOR GAUGE

26, 24

EXTERIOR FINISH

1.0 mil thick
70% PVDF

EXTERIOR/INTERIOR

Embossed

INTERIOR PROFILE

Isoleren ML

INTERIOR GAUGE

26, 24

INTERIOR FINISH

Siliconized Polyester (USDA White),
Plastisol available

SUBSTRATE

55% Al-Zn Alloy Coated Steel with Acrylic Coating, G90 Galvanized (Grade 33), and Stainless Steel (Type 304)

CORE

ROCKWOOL® ConRock L structural mineral wool

K FACTOR

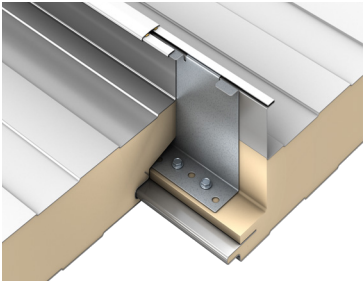
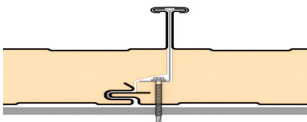
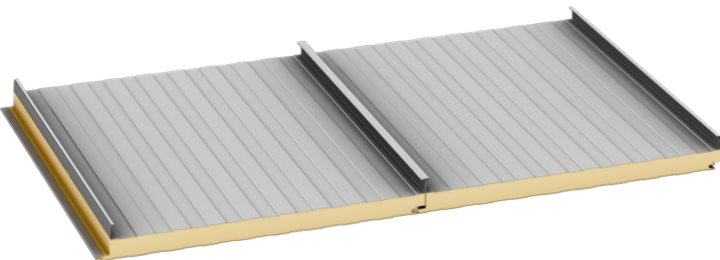
0.277 Btu-in/hr-ft²-F° @ 40 F° mean temperature (R-3.61)

SPLINES

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

* Fire Rated colors may differ. Contact ATAS for more info.

ROOF PANEL



ISOLEREN® RL

SKU: IRL

THICKNESS (A)

2½", 3", 4", 5", and 6"

RIB TYPE

2⅜" tall, tee-shaped rib with separate batten

ATTACHMENT

Mechanically seamed rib with clip

EXTERIOR TEXTURE

Smooth

STANDARD LENGTHS

12'-0" to 53'-0"

EXTERIOR GAUGE

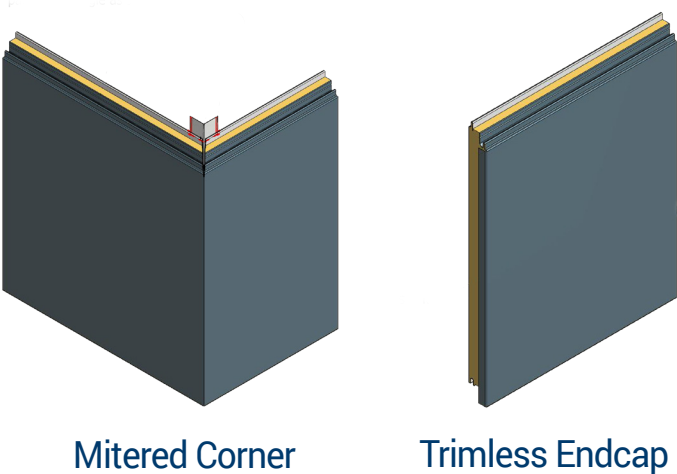
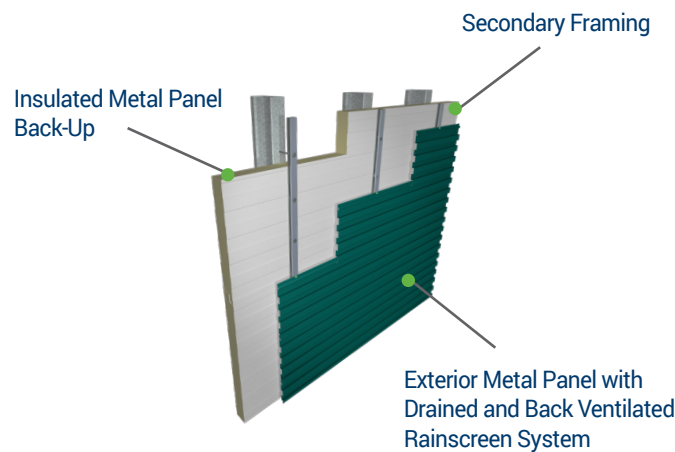
26, 24, 22

ISOLEREN TEST DATA (ROOF)

TYPE	TEST PROTOCOL	DESCRIPTION
ENVIRONMENTAL PERFORMANCE	ASTM C518	Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
	ASTM E1680	Rate of Air Leakage Through Exterior Metal Roof Panel System
	ASTM E1646	Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference
FOAM CORE CHARACTERISTICS	ASTM C273	Shear Properties of Sandwich Core Metals
	ASTM D1621	Compressive Properties of Rigid Cellular Plastics
	ASTM D1622	Apparent Density of Rigid Cellular Plastics
	ASTM D1623	Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics
	ASTM D6226	Open Cell Content of Rigid Cellular Plastics
FIRE RESISTANCE	ASTM E84	Surface Burning Characteristics of Building Materials
	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
IMPACT RESISTANCE	FM 4771	Factory Mutual Approval Standard for Class 1 Panel Roofs
ENGINEERING PROPERTIES	ASTM E1592	Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference
	ASTM E72	Strength Tests of Panels for Building Construction
	FM 4471	Factory Mutual Approval Standard for Class 1 Panel Roofs
BOND STRENGTH	Fatigue Endurance	2,000,000 Alternating Cycles of L/180 Deflection
	Freeze/Heat Cycle	Twenty-One (21) Eight-hour Temperature Cycles (-20° F to 180° F)
	Humidity Endurance	1,200 Hours of 93% Humidity at a Temperature of 158° F
	Autoclave	Exposure to 218° F and a Pressure of 2-psig for 2½ hours

INSULATED BARRIER BACK-UP SYSTEM

FACTORY FORMED OPTIONS



To learn more about the Isoleren Insulated Barrier Back-Up Wall System or Factory Formed Options contact your local product representative or visit www.atas.com

COLOR CHART

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	REGAL WHITE I

Standard Polyester (Interior Only)

Standard 70% PVDF Roof and Wall Colors (In-stock, Standard Gloss for Roof Applications, Low Gloss for Wall Applications)

REGAL WHITE III Low gloss: SR:0.66 E:0.87 SRI: 80 Std gloss: SR:0.68 E:0.86 SRI: 82	ALMOND Low gloss: SR:0.62 E:0.87 SRI: 74 Std gloss: SR:0.60 E:0.84 SRI: 70	SANDSTONE Low gloss: SR:0.59 E:0.87 SRI: 70 Std gloss: SR:0.54 E:0.86 SRI: 63	ASH GRAY Low gloss: SR:0.48 E:0.87 SRI: 55 Std gloss: SR:0.39 E:0.84 SRI: 41	PATINA GREEN Low gloss: SR:0.38 E:0.87 SRI: 41 Std gloss: SR:0.46 E:0.85 SRI: 51

Standard 70% PVDF Wall Colors (In-stock, Low Gloss)

SURREY BEIGE SR:0.48 E:0.87 SRI: 55	ROMAN BLUE SR:0.26 E:0.87 SRI: 25

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

*These colors are available for Isoleren Insulated Metal Foam Core Panels only. Please contact ATAS for colors specific to Isoleren Fire-Rated Mineral Wool Core Panels.

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