



**ATAS International, Inc.**  
Sustainable Solutions For A Better Future



**ISOLEREN<sup>®</sup> 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, Plastisol (Isoleren ML only), and Stainless (Isoleren ML only)

### EXTERIOR GAUGE

As noted under each product

### INTERIOR PROFILE

Isoleren ML

### INTERIOR GAUGE

26, 24, 22

### INTERIOR TEXTURE

Smooth or Embossed

### INTERIOR FINISH

Polyester, Siliconized Polyester, 70% PVDF, 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)

## PANEL INTERLOCK

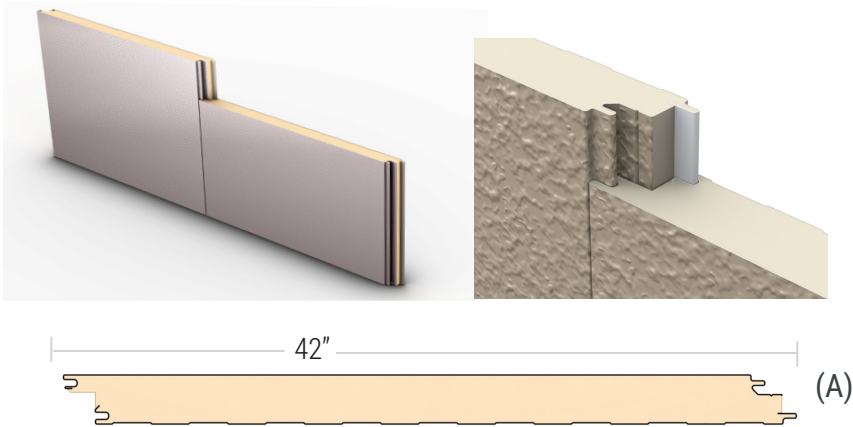


All Isoleren Wall Panels (Isoleren IM, Isoleren ML, Isoleren SL, Isoleren TE, and Isoleren WL) feature the interlock shown above.

## ISOLEREN TEST DATA (WALL)

TEST PROTOCOL	DESCRIPTION
<b>ENVIRONMENTAL PERFORMANCE</b>	
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
<b>FOAM CORE CHARACTERISTICS</b>	
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
<b>FIRE RESISTANCE</b>	
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
<b>IMPACT RESISTANCE</b>	
FM 4881	Factory Mutual Approval Standard for Class 1 Exterior Wall Systems
<b>ENGINEERING PROPERTIES</b>	
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
<b>BOND STRENGTH</b>	
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"

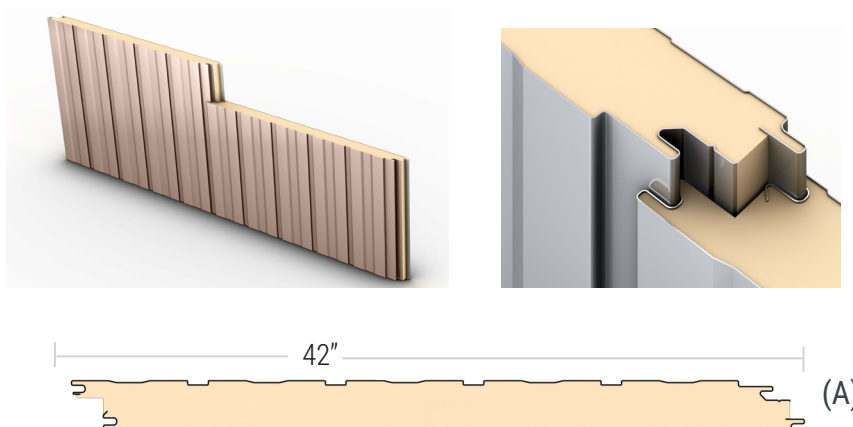


Architectural Metals, Inc.  
Aberdeen, MD  
Isoleren IM in Regal White III



Lafayette College  
Easton, PA  
Isoleren IM in  
Ash Gray

 For more information: Visit [www.atas.com/isolerenim](http://www.atas.com/isolerenim)



## ISOLEREN® SL

SKU: ISL

EXTERIOR GAUGE:  
26, 24, 22

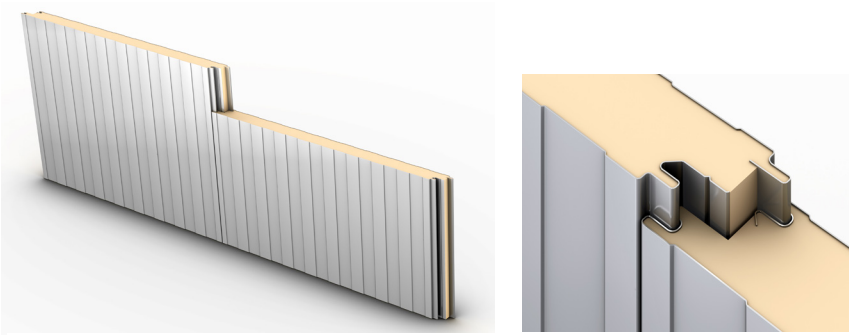
THICKNESS (A):  
2", 2½", 3", 4", 5", and 6"

EXTERIOR TEXTURE:  
Smooth or Embossed

STANDARD LENGTHS:  
8'-0" to 53'-0"

 For more information: Visit [www.atas.com/isolerenisl](http://www.atas.com/isolerenisl)

# WALL PANELS



## ISOLEREN® ML

SKU: IML

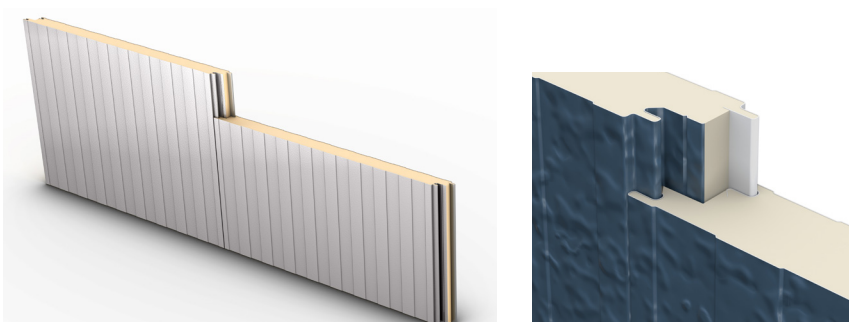
EXTERIOR GAUGE:  
26, 24, 22

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](http://www.atas.com/isolerenml)



## ISOLEREN® TE

SKU: ITE

EXTERIOR GAUGE:  
26, 24

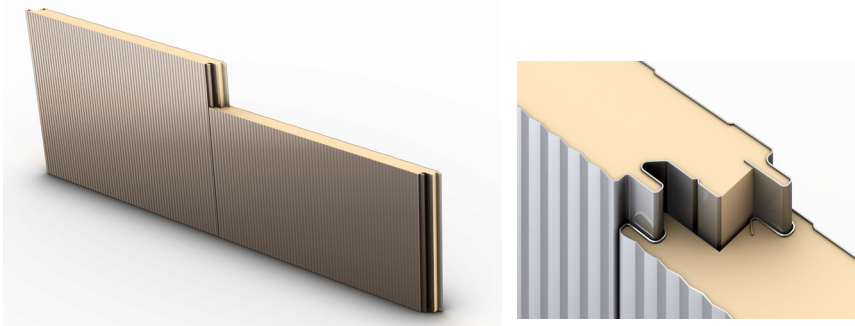
THICKNESS (A):  
2", 2½", 3", 4", 5", and 6"

EXTERIOR TEXTURE:  
Troweled Embossed

STANDARD LENGTHS:  
8'-0" to 53'-0"



 For more information: Visit [www.atas.com/isolereente](http://www.atas.com/isolereente)



## ISOLEREN® WL

SKU: IWL

EXTERIOR GAUGE:  
24, 22

THICKNESS (A):  
2", 2½", 3", and 4"

EXTERIOR TEXTURE:  
Smooth or Embossed

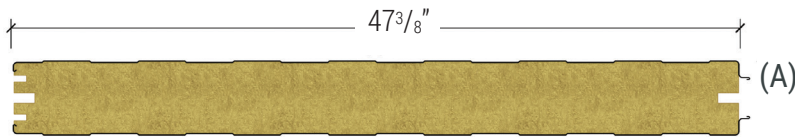
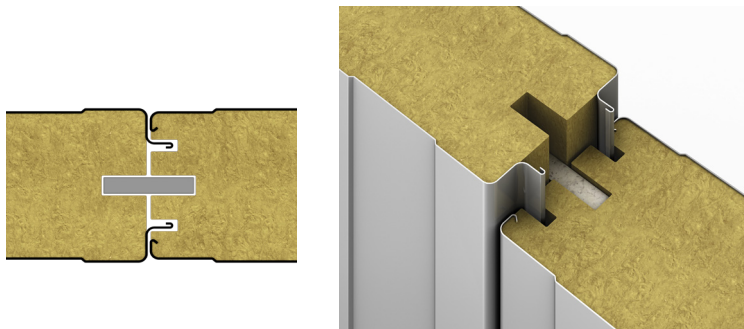
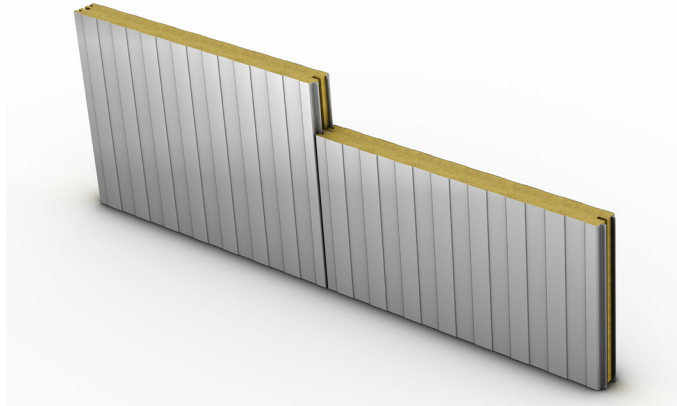
STANDARD LENGTHS:  
8'-0" to 40'-0"

 For more information: Visit [www.atas.com/isolerenwl](http://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



Scan to view  
Fire Rated Core  
Color Chart

[www.atas.com/firecorecolors](http://www.atas.com/firecorecolors)

## 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

70% PVDF, Siliconized Polyester

### EXTERIOR/INTERIOR

Embossed

### INTERIOR PROFILE

Isoleren ML

### INTERIOR GAUGE

26, 24

### INTERIOR FINISH

Siliconized Polyester,  
Plastisol available

### SUBSTRATE

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

### CORE

ROCKWOOL® ConRock L structural  
mineral wool

### K FACTOR

0.277 Btu-in/hr-ft<sup>2</sup>-F° @ 40 F° mean  
temperature (R-3.61)

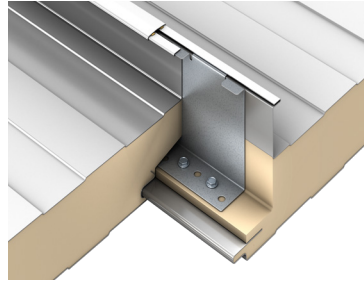
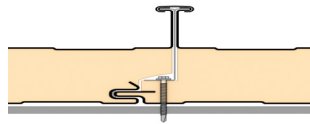
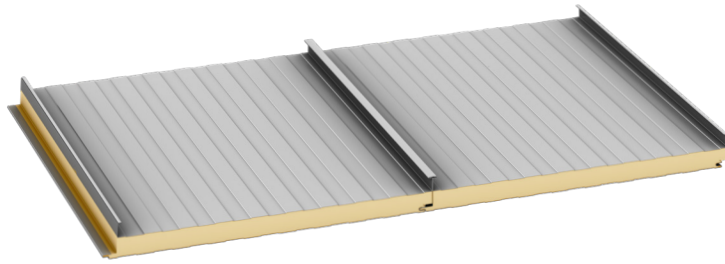
### SPLINES

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

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

 For more information: Visit [www.atas.com/isolerenfirerated](http://www.atas.com/isolerenfirerated)

# ROOF PANEL



## ISOLEREN<sup>®</sup> RL

SKU: IRL

### THICKNESS (A)

2 1/2", 3", 4", 5", and 6"

### RIB TYPE

2 3/8" tall, tee-shaped rib with separate batten

### ATTACHMENT

Mechanically seamed rib with clip

### EXTERIOR TEXTURE

Smooth

### STANDARD LENGTHS

12'-0" to 53'-0"

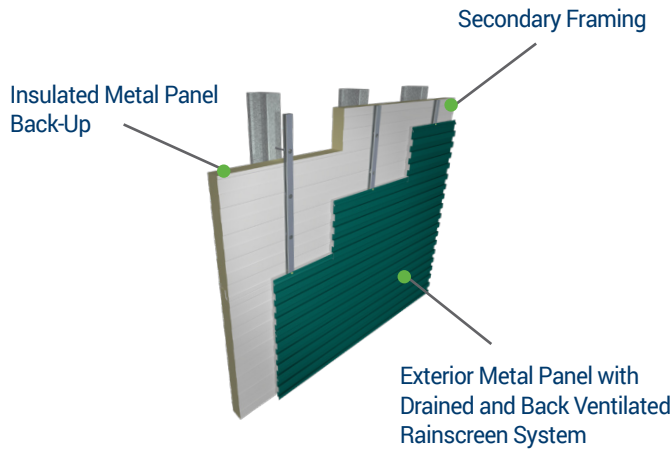
### EXTERIOR GAUGE

24, 22

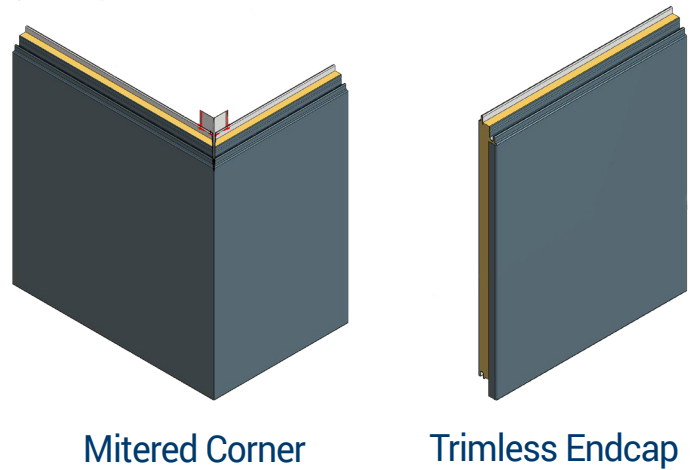
## ISOLEREN TEST DATA (ROOF)

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](http://www.atas.com)

## ISOLEREN INSULATED METAL PANELS - FOAM CORE | COLOR CHART

### STANDARD SILICONIZED POLYESTER | ROOF & 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



Scan to view Foam Core Color Chart

### STANDARD 70% PVDF | ROOF & WALL COLORS

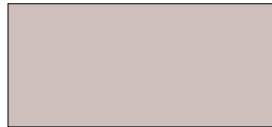
IN STOCK, STANDARD GLOSS FOR ROOF APPLICATIONS, LOW GLOSS FOR WALL APPLICATIONS)



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

Colors are as close to the actual colors as modern printing allows. Exact metal color chips available upon request (this is a requirement for all premium colors), and should be used for final color selection.

### 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. To view colors specific to Isoleren Fire-Rated Mineral Wool Core Panels visit [www.atas.com/firecorecolors](http://www.atas.com/firecorecolors).

**ATAS International, Inc.**  
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