Maximum Thermal Performance

ISOLEREN™
INSULATED METAL PANELS
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 four 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.

**ISO LE REN FEATURES (WALL & ROOF)**

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

**Exterior Gauge:**
26, 24, 22
(Isoleren IM: 26, 24 only; Isoleren WL: 24, 22 only; Isoleren RL: 24, 22 only)

**Exterior Finish:**
70% PVDF, Low Gloss (Wall Application) & Standard Gloss (Roof Application)

**Interior Profile:**
Isoleren ML

**Interior Gauge:**
26

**Interior Texture:**
Smooth or Embossed

**Interior Finish:**
Polyester, standard gloss (USDA white)

**Substrate:**
Galvalume®, G90 Galvanized and Stainless Steel

**Panel Coverage:**
42”

**Core:**
Continuously poured-in-place, polyisocyanurate, insulating foam

**K Factor:**
0.138 Btu-in/hr-ft²/F° @ 75° F mean temperature (R-7.25)
0.129 Btu-in/hr-ft²/F° @ 35° F mean temperature (R-7.75)

**Weight, Insulation:**
2 1/2 pounds per cubic foot (nominal)

**Weight, Steel:**
2.00 pounds per square foot (nominal)

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**PANEL INTERLOCK**

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

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**ISOLEREN TEST DATA (WALL)**

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<th>DESCRIPTION</th>
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<tr>
<td>ASTM C273</td>
<td>Shear Properties of Sandwich Core Metals</td>
</tr>
<tr>
<td>ASTM D1621</td>
<td>Compressive Properties of Rigid Cellular Plastics</td>
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<td>ASTM D1622</td>
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<td>Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics</td>
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<td>ASTM E84</td>
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</tr>
<tr>
<td>FM 4880</td>
<td>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</td>
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<tr>
<td><strong>IMPACT RESISTANCE</strong></td>
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</tr>
<tr>
<td>FM 4881</td>
<td>Factory Mutual Approval Standard for Class 1 Exterior Wall Systems</td>
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<td><strong>ENGINEERING PROPERTIES</strong></td>
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</tr>
<tr>
<td>ASTM E72</td>
<td>Strength Tests of Panels for Building Construction</td>
</tr>
<tr>
<td>FM 4881</td>
<td>Factory Mutual Approval Standard for Class 1 Exterior Wall Systems</td>
</tr>
</tbody>
</table>
SKU: IM
Thickness (A): 2", 2 1/2", 3", and 4"
Exterior Texture: Troweled Embossed
Standard Lengths: 8'-0" to 40'-0"

Self Storage
Brooklyn, NY
Isoleren IM in Regal Blue

Lafayette College Bushkill Commons
Easton, PA
Isoleren IM in Ash Gray
**ISOLEREN™ ML**

**SKU:** IML

**Thickness (A):** 2", 2 1/2", 3", 4", 5", and 6"

**Exterior Texture:** Smooth or Embossed

**Standard Lengths:** 8'-0" to 53'-0"

**ISOLEREN™ SL**

**SKU:** ISL

**Thickness (A):** 2", 2 1/2", 3", 4", 5", and 6"

**Exterior Texture:** Smooth or Embossed

**Standard Lengths:** 8'-0" to 53'-0"
**SKU:**
IWL

**Thickness (A):**
2", 2 1/4", 3", and 4"

**Exterior Texture:**
Smooth or Embossed

**Standard Lengths:**
8'-0" to 40'-0"

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CubeSmart® Self Storage
Isoleren WL in Dove Grey & Carnival Red
(custom 3-coat, 70% PVDF)
**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:**
Embosed

**Interior Profile:**
Isoleren ML

**Interior Gauge:**
26, 24

**Interior Finish:**
Siliconized Polyester (USDA white), Plastisol available

**Substrate:**
Galvalume®, 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)

**PERFORMANCE (FIRE-RATED)**

<table>
<thead>
<tr>
<th>Panel Thickness (in.)</th>
<th>Fire Rating (hr.)</th>
<th>Weight (psf)</th>
<th>Thermal U-factor</th>
<th>R-Factor</th>
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<td>2</td>
<td>5.3</td>
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<td>3</td>
<td>6.0</td>
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<td>12</td>
<td>3</td>
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<td>0.023</td>
<td>43.48</td>
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<table>
<thead>
<tr>
<th>Panel Thickness (in.)</th>
<th>Uniform Load (psf)</th>
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<tbody>
<tr>
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<td>5</td>
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<tr>
<td>4</td>
<td>22.2</td>
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<tr>
<td>5</td>
<td>24.8</td>
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<tr>
<td>6</td>
<td>27.3</td>
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<tr>
<td>8</td>
<td>31.5</td>
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<tr>
<td>10</td>
<td>35.2</td>
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<tr>
<td>12</td>
<td>38.6</td>
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</table>
### ROOF PANELS

**ISOLEREN™ RL**

**ISOLEREN TEST DATA (ROOF)**

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<tr>
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<td>ASTM C518</td>
<td><em>Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus</em></td>
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<tr>
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<td>ASTM E1680</td>
<td><em>Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Difference Across the Specimen</em></td>
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<td>ASTM E1646</td>
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<tr>
<td><strong>FOAM CORE CHARACTERISTICS</strong></td>
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</tbody>
</table>

**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"
Color Chart

Standard Siliconized Polyester Roof and Wall Colors  (In-Stock, Standard Gloss)

- **REGAL WHITE II**
  SR:0.61  E:0.86  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)

- **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 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:0.76  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. All information is subject to change without notice.

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