



### COMPLEMENTARY PRODUCTS



### PHYSICAL PROPERTIES

HR (type 1) Expanded Polystyrene

<b>Thermal Resistance</b> (ASTM C518 C177) Thickness of 25 mm (1")	<b>RSI-0.65</b> R-3.7
<b>Vapour Permeability</b> (ASTM E96) Thickness of 25 mm (1")	<b>5.25 perm</b> 300 ng/Pa·s·m <sup>2</sup>
<b>Compressive Strength</b> (ASTM D1621) Thickness of 38 mm (1 1/2")	<b>80 kPa</b> 11.64 lbs/in <sup>2</sup>
<b>Flexural Strength</b> (ASTM C518 C203) Thickness of 38 mm (1 1/2")	<b>170 kPa</b> 24.78 lbs/in <sup>2</sup>
<b>Water Absorption</b> (ASTM D2842) Thickness of 38 mm (1 1/2")	<b>6%</b>
<b>Density</b> (ASTM D1621)	<b>16.01 kg/m<sup>3</sup></b> 1 lbs/ft <sup>3</sup>
<b>Limiting Oxygen Index</b> (ULC S-701) % minimum	<b>24%</b>
<b>Dimension Stability</b> (ASTM D2126) % max. of linear change	<b>1.5%</b>

### DESCRIPTION

Expanded polystyrene insulation board, shiplapped on four sides, factory laminated with hot bitumen to a 12.7 mm (1/2") fire retardant perlite board, square-end cut, designed to insulate flat or low slope roofs.

### CERTIFICATIONS



- Meets CAN/ULC S-107 Standard
- C7 and C12 under CAN/ULC S-126M Standard
- UL Standard 790 (ASTM E 108)
- UL Class A with most roofing membrane systems (See UL Directory of Roofing Systems and Materials)

### INSTALLATION

1. If adhered with adhesive, refer to the technical data sheet of the adhesive used for application recommendations.
2. Place the panels in close contact, in parallel rows and without deformation or empty space, as indicated in the shop drawing.
3. Fill joints more than 5 mm (3/16").
4. If mechanically attached, use the appropriate LEXCOR LEXGRIP screws and plates. Follow FM recommendations for the number of mechanical fasteners to be used per panel.

### ADVANTAGES

#### Fast Installation

One step is saved on site since the insulation panel is already laminated to the cover board.

#### Low Water Absorption

The closed cell walls are waterproof and as such, water can only penetrate in channels located between polystyrene cells that are held together.

#### High-Dimensional Stability

According to industry standards, EPS is one of the leaders in terms of size maintenance. This helps the system to remain fully waterproof at all times.

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# IZOLITE

## TYPE HR

### FLAT EXPANDED POLYSTYRENE INSULATION BOARD

#### PHYSICAL PROPERTIES

Perlite Panel

<b>Density</b> (ASTM C209)	<b>225 kg/m<sup>3</sup></b> 14.5 lbs/ft <sup>3</sup>
<b>Compressive Strength</b> (ASTM C165) 5% consolidation	<b>414 kPa</b> 60 lbs/in <sup>2</sup>
<b>Laminar Tensile Strength</b> (ASTM C209)	<b>110 kPa</b> 16 lbs/in <sup>2</sup>
<b>Flexural Strength</b> (ASTM C203)	<b>1551 kPa</b> 225 lbs/in <sup>2</sup>
<b>Break Load</b> (ASTM C203)	<b>4.54 kg</b> 10 lbs
<b>Moisture Content</b>	<b>2%</b>
<b>Water Absorption</b> (ASTM C209) % by vol. max.	<b>3.5%</b>
<b>Installation Linear Expansion</b> (ASTM C209) % max	<b>0.5%</b>

Perlite insulation board is Factory Mutual approved for 1A-60, 1A-90 and 1A-180 class.

#### SIZES

<b>Width x Length*</b>	<b>1,219 mm x 1,219 mm</b> 48" x 48"
<b>Thickness</b>	<b>51 mm to 305 mm</b> 2" to 12"
<b>Shiplap</b>	<b>16 mm</b> 5/8"
<b>Number of Panels per Skid</b>	Varies according to thickness

\*Other sizes available on special order

#### *Captive Gas; 98% Air and 2% Plastic*

This formula has been used for more than 50 years. It does not contain any VOC, CFC's, HCFC's, Formaldehyde or any gas that can impact the ozone layer. Furthermore, this provides the product with premium features including its light weight and the maintenance of R-Value.

#### *Meets High Standards*

Helps to reach Novoclimat (in Quebec if applicable), EnergyStar (Ontario and the Maritimes) and R-2000 (Canada) insulation levels.



#### PRODUCT WARRANTY

##### *Thermal Value is 100% Guaranteed*

The thermal resistance of the product is 100% guaranteed free of charge for a period of at least 40 years.

