



#### COMPLEMENTARY PRODUCTS



#### PHYSICAL PROPERTIES

THR (type 2) Expanded polystyrene

<b>Thermal Resistance</b> (ASTM C518 C177) Thickness of 25 mm (1")	<b>RSI-0.7</b> R-4
<b>Vapour Permeability</b> (ASTM E96) Thickness of 25 mm (1")	<b>3.5 perm</b> 200 ng/Pa·s·m²
<b>Compressive Strength</b> (ASTM D1621) Thickness of 38 mm (1 1/2")	<b>120 kPa</b> 17.46 lbs/in²
<b>Flexural Strength</b> (ASTM C518 C203) Thickness of 38 mm (1 1/2")	<b>240 kPa</b> 34.97 lbs/in²
<b>Water Absorption</b> (ASTM D2842) Thickness of 38 mm (1 1/2")	<b>4%</b>
<b>Density</b> (ASTM D1621)	<b>20.01 kg/m³</b> 1.25 lbs/ft³
<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

Tapered expanded polystyrene insulation board, factory laminated with hot bitumen to a 12.7 mm (1/2") composite panel factory laminated on both faces of a fire retardant fibreglass sheet, 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

##### *Monolithic Panel*

Up to 203.2 mm (8") thick to meet the required R value in one application.

##### *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.

Continued on back

# BIZOLON® R+

## TYPE THR

### TAPERED EXPANDED POLYSTYRENE INSULATION BOARD

#### PHYSICAL PROPERTIES

##### Composite Panel

<b>Thermal Resistance</b> (ASTM C518 C177) Thickness of 25 mm (1")	<b>RSI-0.53</b> R-2.5
<b>Water Vapor Permeability</b> (ASTM E 96)	<b>&lt; 1.00 perm</b> < 85 ng/Pa·s·m <sup>2</sup>
<b>Compressive Strength</b> (ASTM D 1621) 10% deformation	<b>620 kPa</b> 150 lbs/in <sup>2</sup>
<b>Tensile Strength</b> (ASTM D 1623)	<b>&gt; 40 kPa</b> > 5.07 lbs/in <sup>2</sup>
<b>Water Absorption</b> (ASTM D 1623)	<b>&lt; 1%</b> < 3.5%
<b>Density</b> (ASTM D 1622)	<b>32.04 g/m<sup>3</sup></b> 2 lbs/in <sup>3</sup>
<b>Smoke Development</b> (ASTM E 84) evaluation on a 10 min. period	<b>50-170</b>
<b>Flame Spread</b> (ASTM E 84) evaluation on a 10 min. period	<b>40-60</b>
<b>Dimensional Stability</b> (ASTM D 2126)	<b>&lt; 0.6%</b>

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

This formula has been used for more than 50 years. It does not contain any 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.

#### SIZES

<b>Width x Length*</b>	<b>1219 mm x 1219 mm</b> 48" x 48"
<b>Thickness</b>	<b>6 mm to 203.2 mm</b> 1/4" to 8"
<b>Number of Panels per Skid</b>	Varies according to thickness

\*Order sizes available on special order

