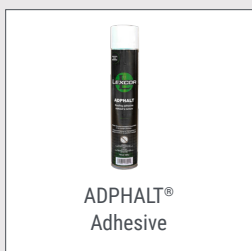


#### COMPLEMENTARY PRODUCTS



#### 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 resistant fiberboard, square-end cut, designed to insulate flat or low slope roofs. The panel is ventilated by air channels to reduce the pressure under the membrane and evacuate water vapour. Designed to insulate flat or low sloped 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

##### *Extend the Life of the System*

Air movement in the channels helps to dry out the system by allowing moisture to circulate and dissipate on a regular basis. The air circulation also reduces the pressure in the system.

##### *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.

Continued on back

# IZOLAIR FR

## TYPE HR

### VENTILATED EXPANDED POLYSTYRENE INSULATION BOARD

#### PHYSICAL PROPERTIES

Fire Resistant Fiberboard Panel

<b>Thermal Resistance</b> (ASTM C518 C177) Thickness of 12.5 mm (1/2")	<b>RSI-0.27</b> R-1.55
<b>Linear Expansion</b> (ASTM C209)	<b>0.10%</b>
<b>Compressive Strength</b> (ASTM C165) 10% Deformation 25% Deformation	34.8 lbs/in <sup>2</sup> 51 lbs/in <sup>2</sup>
<b>Transversal Breaking Strength</b> (ASTM C209)	<b>40 N</b>
<b>Water Absorption</b> (ASTM C209)	<b>3.5%</b>
<b>Density (Volumetric Mass)</b> (ASTM D 1621)	<b>232 kg/m<sup>3</sup></b> 14.5 lb/ft <sup>3</sup>
<b>Tensile Strength</b> (ASTM C209) Perpendicular to the surface (min) Parallel to the surface	36.5 kPa / 761 lbs/ft <sup>2</sup> 1.3 MPa / 187 lbs/in <sup>2</sup>
<b>Flame Spread</b> (ULC S-102 / ULC S-102.2)	<b>&lt; 25</b>
<b>Smoke Development</b> (ULC S-102 / ULC S-102.2)	<b>&lt; 30</b>

#### SIZES

<b>Width x Length*</b>	<b>1219 mm x 1219 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

#### 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.

#### 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.

