



COMPLEMENTARY PRODUCTS



PHYSICAL PROPERTIES

HR (type 1) Expanded Polystyrene

Thermal Resistance (ASTM C518 C177) Thickness of 25 mm (1")	RSI-0.65 R-3.7
Vapour Permeability (ASTM E96) Thickness of 25 mm (1")	5.25 perm 300 ng/Pa·s·m²
Compressive Strength (ASTM D1621) Thickness of 38 mm (1 1/2")	80 kPa 11.64 lbs/in²
Flexural Strength (ASTM C518 C203) Thickness of 38 mm (1 1/2")	170 kPa 24.78 lbs/in²
Water Absorption (ASTM D2842) Thickness of 38 mm (1 1/2")	6%
Density (ASTM D1621)	16.01 kg/m³ 1 lbs/ft³
Limiting Oxygen Index (ULC S-701) % minimum	24%
Dimension Stability (ASTM D2126) % max. of linear change	1.5%

DESCRIPTION

Expanded polystyrene insulation board, shiplapped on four sides, 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

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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IZOLON® R+

TYPE HR

FLAT EXPANDED POLYSTYRENE INSULATION BOARD

PHYSICAL PROPERTIES	
Composite Panel	
Thermal Resistance (ASTM C518 C177) Thickness of 25 mm (1")	RSI-0.53 R-2.5
Water Vapor Permeability (ASTM E 96)	< 1.00 perm < 85 ng/Pa·s·m ²
Compressive strength (ASTM D 1621) 10% deformation	620 kPa 150 lbs/in ²
Tensile Strength (ASTM D 1623)	> 40 kPa > 5.07 lbs/in ²
Water Absorption (ASTM D 1623)	< 1% < 3.5%
Density (ASTM D 1622)	32.04 g/m³ 2 lbs/in ³
Smoke Development (ASTM E 84) evaluation on a 10 min. period	50-170
Flame Spread (ASTM E 84) evaluation on a 10 min. period	40-60
Dimensional Stability (ASTM D 2126)	< 0.6%
SIZES	
Width x Length*	1219 mm x 1219 mm 48" x 48"
Thickness - Straight Edge	25 mm to 610 mm 1" to 24"
Thickness - Shiplapped Edge	51 mm to 305 mm 2" to 12"
Shiplap	13 mm to 16 mm 1/2" to 5/8"
Number of Panels per Skid	Varies according to thickness
*Order 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.

