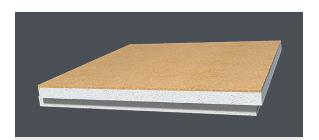
# IZOLON

# IZOFIBRE TYPE HD NDED POLYSTYRENE

FLAT EXPANDED POLYSTYRENE INSULATION BOARD



#### COMPLEMENTARY PRODUCTS





#### PHYSICAL PROPERTIES

HD (type 2) Expanded Polystyrene

Thermal Resistance (ASTM C518 C177) Thickness of 25 mm (1")	<b>RSI-0.73</b> R-4.17
Vapour Permability (ASTM E96) Thickness of 25 mm (1")	<b>2.25 perm</b> 130 ng/Pa·s·m²
Compressive Strength (ASTM D1621) Thickness of 38 mm (1 1/2")	<b>140 kPa</b> 20.31 lbs/in²
Flexural Strength (ASTM C518 C203) Thickness of 38 mm (1 1/2")	<b>300 kPa</b> 43.71 lbs/in²
Water Absorption (ASTM D2842) Thickness of 38 mm (1 1/2")	3%
Density (ASTM D1621)	24.02 kg/m³ 1.5 lbs/ft³
Limiting Oxygen Index (ULC S-701) % minimum	24%
<b>Dimension Stability</b> (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") natural fiberboard, square-end cut, designed to insulate flat or low slope roofs.

#### **CERTIFICATIONS**





### **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.

#### 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.

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# **IZOFIBRE**

# **TYPE HD**

#### FLAT EXPANDED POLYSTYRENE INSULATION BOARD

#### **PHYSICAL PROPERTIES** Natural Fiberboard Panel **Thermal Resistance RSI-0.27** (ASTM C518 C177) R-1.55 Thickness of 12.5 mm (1/2") **Linear Expansion** 0.10% (ASTM C209) **Compressive Strength** (ASTM C165) 10% deformation 34.8 lbs/in<sup>2</sup> 25% deformation 51 lbs/in<sup>2</sup> **Transversal Breaking Strength** 40 N (ASTM C209) **Water Absorption** 3.5% (ASTM C209)

232 kg/m<sup>3</sup>

36.5 kPa / 761 lbs/ft3

1.3 kPa / 187 lbs/in<sup>3</sup>

14.5 lbs/ft<sup>3</sup>

# **SIZES**

(ASTM D1621)

Tensile Strength (ASTM C209)

Parallel to the surface

Width x Length*	1219 mm x 1219 mm 48" x 48"
Thickness	<b>51 mm to 305 mm</b> 2" to 12"
Shiplap	<b>16 mm</b> 5/8"
Number of Panels per Skid	Varies according to thickness

Order sizes available on special order

**Density (Volumetric Mass)** 

Perpendicular to the surface (min)



# **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.

