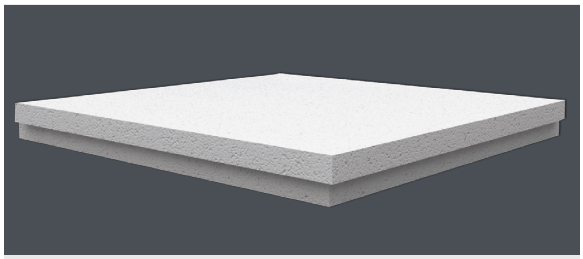
IZOLON®
TYPE HR
FLAT EXPANDED POLYSTYRENE INSULATION BOARD



COMPLEMENTARY PRODUCTS

ADPHALT®
Adhesive

LEXCOR
LEXBOARD 90 Panel

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 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, designed to insulate flat or low slope roofs.

CERTIFICATIONS
ULC · MAÎTRES COUVREURS Association des Maîtres Couvreurs du Québec · LEED · FM APPROVED · CCMC · 6 PS 100%

- CCMC #13026-L: Compliance with CAN/ULC-S701-17, EPS type 1
- C7 and C12 according to CAN/ULC S-126M
- UL Standard 790 (ASTM E 108)
- UL Class A with roof membrane systems (See UL Directory of Roofing Systems and Materials)
- Meets the ASTM C 1338 standard, report R04-690 test methods to determine mold resistance
- CSA 123.21

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, without leaving a gap, and align the joints for the placement of the transverse sealing tape.
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 610 mm (24”) thick with straight edges and 305 mm (12”) with shiplapped edges to meet the required R-value in one application.

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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FLAT EXPANDED POLYSTYRENE INSULATION BOARD

SIZES

Width x Length	**1219 mm x 1219 mm** 48" x 48" **1219 mm x 3657 mm**[1] 48" x 144"
Thickness - Straight Edge	**13 mm to 610 mm** 1/2" to 24"
Thickness - Shiplapped Edge	**38 mm to 305 mm** 1 1/2" to 12"
Shiplap	**13 mm to 16 mm** 1/2" to 5/8"
Number of Panels per Skid	Varies according to thickness

[1] 48 x 144 - available only when used in the IZOROK and MACH 12 Systems and only with straight edge.

INSULATED VALUES / THICKNESSES

R-5*	34.29 mm	(1.35")
R-7.5	51.53 mm	(2.03")
R-10	68.58 mm	(2.70")
R-12.6	86.64 mm	(3.41")
R-15	102.87 mm	(4.05")
R-20	137.42 mm	(5.41")

* Only available with square edges. All other R-values are available with either square edges or tongue-and-groove edges, depending on order quantity.

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.

Environmentally Friendly

EPS is 100% recyclable and contains 10% recycled materials. Produced locally, the distance between the plant and site is often shorter than other products of the industry.

Mildewproofing

EPS contains materials that do not support the growth of bacteria such as spores and mushrooms.

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.

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