

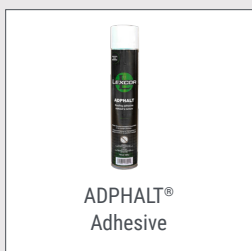
# IZOLON

**IZOLON®**  
**TYPE EHD 40**

HIGH DENSITY FLAT EXPANDED POLYSTYRENE  
INSULATION BOARD



## COMPLEMENTARY PRODUCTS



## PHYSICAL PROPERTIES

EHD 40 Expanded polystyrene

<b>Thermal Resistance</b> (ASTM C518 C177) Thickness of 25 mm (1")	<b>RSI-0.74</b> R-4.2
<b>Vapour Permeability</b> (ASTM E96) Thickness of 25 mm (1")	<b>2.25 perm</b> 130 ng/Pa·s·m <sup>2</sup>
<b>Compressive Strength</b> (ASTM D1621) Thickness of 38 mm (1 1/2")	<b>275 kPa</b> 40 lbs/in <sup>2</sup>
<b>Flexural Strength</b> (ASTM C518 C203) Thickness of 38 mm (1 1/2")	<b>414 kPa</b> 60.40 lbs/in <sup>2</sup>
<b>Water Absorption</b> (ASTM D2842) Thickness of 38 mm (1 1/2")	<b>2%</b>
<b>Density</b> (ASTM D1621)	<b>40.04 kg/m<sup>3</sup></b> 2.5 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, designed to insulate flat or low slope roofs.

## CERTIFICATIONS



MAÎTRES  
COUVREURS  
Association des  
Maîtres Couvresseurs  
du Québec



LEED



PS 100%

- 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, 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 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.

### 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.

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# IZOLON®

## TYPE EHD 40

### HIGH DENSITY FLAT EXPANDED POLYSTYRENE INSULATION BOARD

SIZES	
Width x Length*	1219 mm x 1219 mm 48" x 48"
	1219 mm x 3657 mm <sup>1</sup> 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

Note: Other sizes available on special order

<sup>1</sup>48" x 144" - available only when used in the IZOROK and MACH 12 Systems and only with straight edge.

#### *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.

