



#### COMPLEMENTARY PRODUCTS



INSULFAST FASTENERS

#### PHYSICAL PROPERTIES

EHD 40 expanded polystyrene

|   |   |
|---|---|
| <b>Thermal Resistance</b><br>(ASTM C518 C177)<br>Thickness of 25 mm (1")    | <b>RSI-0.74</b><br>R-4.2                                |
| <b>Vapour Permeability</b><br>(ASTM E96)<br>Thickness of 25 mm (1")         | <b>130 ng/Pa·s·m<sup>2</sup></b><br>2.25 perm           |
| <b>Compressive Strength</b><br>(ASTM D1621)<br>Thickness of 38 mm (1 1/2")  | <b>275 kPa</b><br>40 lbs/in <sup>2</sup>                |
| <b>Flexural Strength</b><br>(ASTM C518 C203)<br>Thickness of 38 mm (1 1/2") | <b>414 kPa</b><br>60.35 lbs/in <sup>2</sup>             |
| <b>Water Absorption</b><br>(ASTM D2842)<br>Thickness of 38 mm (1 1/2")      | <b>2%</b>   |
| <b>Density</b><br>(ASTM D1621)  | <b>40.4 kg/m<sup>3</sup></b><br>2.5 lbs/ft <sup>3</sup> |
| <b>Limiting Oxygen Index</b><br>(ULC S-701) % minimum                       | <b>24%</b>  |
| <b>Dimensional Stability</b><br>(ASTM D2126)<br>% max. of linear change     | <b>1.5%</b>   |

#### DESCRIPTION

Expanded polystyrene insulation board, shipped on two sides, designed to insulate above and below grade walls.

#### CERTIFICATIONS



LEED



PS 100%

- Meets ASTM C 1338 Standard, R04-690 report; test methods to determine mold resistance cv
- CSA 123.21

#### INSTALLATION

1. The surface on which the insulation sheet will rest must be flat
2. Secure the insulation sheet vertically, on the interior or exterior wall in an above ground application and on the exterior wall in a foundation wall application, with a minimum of two suitable fasteners, properly positioned at 305 mm (12") from each end of the panel (top and bottom).

#### AVANTAGES

##### *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.

##### *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.

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# IZOL

## TYPE EHD 40

HIGH DENSITY FLAT EXPANDED POLYTYRENE INSULATION BOARD

### SIZES

|                          |                                 |
|--------------------------|---------------------------------|
| Width x length*          | 609.6 mm x 2438 mm<br>24" x 96" |
| Shiplap                  | 12.7 mm<br>1/2"                 |
| Number of board per skid | Varies according to thickness   |

\*Other sizes available on special order

\*Fransyl can produce ship lapped insulation up to 8" in thickness and straight edge insulation up to 24" in thickness.

### INSULATED VALUES / THICKNESSES

|        |                   |
|--------|-------------------|
| R-5    | 30.22 mm (1.19")  |
| R-7.5  | 45.70 mm (1.76")  |
| R-10   | 60.45 mm (2.38")  |
| R-12.6 | 76.19 mm (3")     |
| R-15   | 90.67 mm (3.57")  |
| R-20   | 120.90 mm (4.76") |



### PRODUCT WARRANTY

**Thermal value 100% guaranteed**

The thermal resistance of the product is 100% guaranteed, free of charge, for a minimum period of 35 years.

### TOTAL PRESSURE EXERTED ON FOUNDATION WALL

|                 | COMPACTED                           | NOT COMPACTED                      |
|-----------------|-------------------------------------|------------------------------------|
| Foundation wall | 90 kPa<br>13.05 lbs/in <sup>2</sup> | 45 kPa<br>5.53 lbs/in <sup>2</sup> |
| IZOL EHD 40     | yes                                 | yes                                |

\*This study has been done by an independant experts firm.

