

IZOLON TYPE I

Description:

IZOLON is manufactured from expandable polystyrene pearls containing a fire retardant agent. The pearls are subjected to controlled heat and moisture with a resulting increase in volume of approximately 40%.

The inflating agent escapes from the bead and is replaced by air. The beads are then steam-molded into blocks which are then cured for a predetermined period before being cut into the desired thickness or shape.

Physical Properties

Dimension

24" x 48" (610 mm x 1219 mm)
24" x 96" (610 mm x 2440 mm)
48" x 48" (1219 mm x 1219 mm)
48" x 96" (1219 mm x 2440 mm)
Thicknesses available up to 46" (11684 mm)

Thermal Resistance

RSI-0,65 - R-3.70
(ASTM C518 C177), @ 25.4 mm (1.0")

Vapour Permeability

152.20 ng/Pa/s/m² - 2.66 perm
(ASTM E96), @ 25.40 mm : (1")

Dimensional Stability

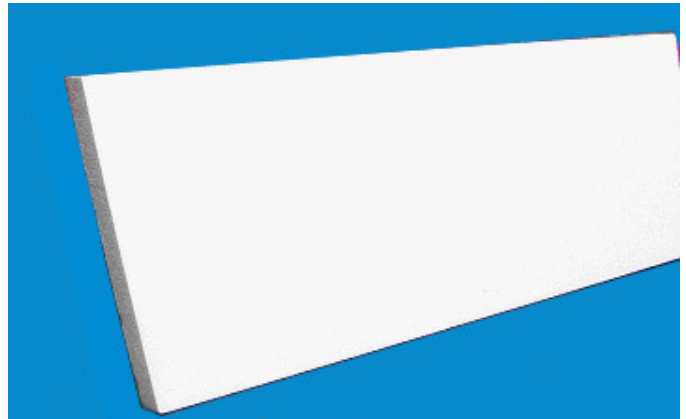
0.32%
(ASTM D 2126) @ 38 mm - 1 1/2"

Compressive strength

93.00 KPa (13.53 pds/in.²)
(ASTM D1621), @ 38 mm - 1 1/2"

Flexural Strength

209.8 Kpa - 30.52 pds/in.²
(ASTM C 203), @ 38 mm - 1 1/2"



Water Absorption

4.4% by volume
(ASTM 2842) @ 38mm - 1 1/2"

Nominal Density

18.5 kg/m³ - 1.0 pound/ft³
(CAN.4-S102.2M)

Flame Spread & Smoke Developed

Flame Spread – 0
Smoke Developed – 38.7
UBC 8-1 (ASTM E84)

Buy With Complete Confidence:

The **Expanded Polystyrene Insulation Industry** has voluntarily built a quality assurance program through third party certification by Underwriters Laboratories of Canada (ULC).

This certification provides consumers, the design community, building owners, property managers, consultants and contractors the assurance that the **IZOLON** brand conforms to all Canadian Standards

Standards:

IZOLON is certified by ULC in accordance with **CAN/ULC-S701-01** and **CCMC #13026-L**.

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FEATURES

Permanent Insulation Value:

The R value of **IZOLON** is permanent thanks to its alveolar structure that only contains stabilized air. Time does not affect the thermal efficiency of **IZOLON**.

Vapour Permeance:

IZOLON is unaffected by water vapour. Its sealed uniform structure allows the diffusion of water vapour.

Durability:

IZOLON is not a growth medium for plants, animals or micro-organisms. It does not rot and is resistant to mould and mildew growth.

Ease of Handling:

IZOLON is light weight and easy to handle. Simple and easy to cut with basic tools. Large sheet size covers more area in less time. May be mechanically fastened or adhered with a variety of approved adhesives.

Moisture Resistant:

IZOLON is unaffected by moisture. Any moisture absorbed is easily given up upon drying with no loss in thermal value.

Warranty:

The thermal resistance of **IZOLON TYPE I** is **100%** guaranteed for a period of **15** years

USES

Roofing:

Used as the primary insulation layer in both single ply and conventional hot applied roofing systems.

Residential:

Used as sheathing board for both new and retrofit wall systems.

Used to insulate both the interior and exterior below grade foundation walls

Used to insulate basement floors prior to installation of finished surfaces.

Limitations:

IZOLON is vulnerable to petroleum based solvents and their vapours. Prolonged exposure to sunlight will cause a slight discoloration and surface erosion. To prevent potential degradation **IZOLON** should be covered as soon as possible.

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