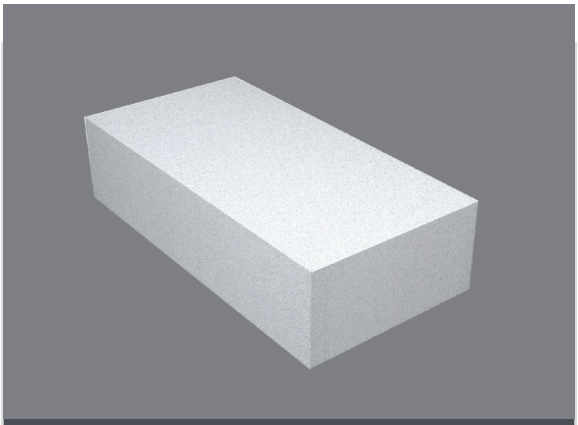
IZOSOL 16
TYPE HR
MULTIPURPOSE LIGHTWEIGHT FILL



COMPLEMENTARY PRODUCTS

Geotextile Membrane

PHYSICAL PROPERTIES

Expanded Polystyrene 16 (Type HR)

Thermal Resistance (ASTM C518 C177) Thickness of 25 mm (1")	**RSI-0.65** R-3.7
Compressive Strength (ASTM D1621)	
at 1% deformation	N/D
at 5% deformation	**76 kPa** (10.9 lbs/in²)
at 10% deformation	**80 kPa** (11.6 lbs/in²)
Flexural Strength (ASTM C518) Thickness of 38 mm (1 1/2")	**170 kPa** 24.78 lbs/in²
Water Absorption (ASTM D2842) Thickness of 38 mm (1 1/2")	**4%**
Limiting Oxygen Index (ULC S-701)% minimum	**24%**
Dimensional Tolerance	
Thickness	-3,+5 mm
Flatness	±1%
Squaring	10 mm each 3 m ±1%
Density (ASTM D1621)	**16.01 kg/m³** 1 lbs/ft²
Dimension Stability (ASTM D2126) % max. of linear change	**1.5%**

DESCRIPTION

Expanded polystyrene multipurpose lightweight fill.

CERTIFICATIONS

6
PS 100%

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

INSTALLATION

1. The initial layer of polystyrene should be positioned on top of a flat 150 mm (6") layer of compacted granular material.
2. Arrange the blocks in a way that the seams overlap from row to row. Blocks can be factory cut or cut on-site to ensure they meet this requirement.
3. When working near a concrete structure, the blocks are to be cut on-site to precisely fit the geometry of that structure.
4. Before placing the concrete slab or a sufficiently thick floor covering, it's essential to prevent any material from moving across the polystyrene.
5. If the lightweight fill has to be covered with granular material, the designer may recommend the installation of a MTQ - Type 3 [BNQ Standard Grade (S1-F2)] or MTQ - Type 5 [BNQ Standard Grade (P2 or P3)] geotextile membrane for separation and transition.
6. If the lightweight fill needs to be protected against infiltration or accidental oil spillage, the designer may recommend covering it with a waterproof geomembrane (HDP - High Density Polyethylene or LLDP - Linear Low Density Polyethylene). To protect the lightweight fill, it should ensure sufficient avoidance drainage in the event of a spill.
7. Do not cover insulation until installation work has been inspected and approved by the architect and / or engineer.

ADVANTAGES

Multipurpose

In addition to being lightweight, expanded polystyrene backfill is ideal for insulation, stabilization, structural protection, as well as for infill.

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.

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MULTIPURPOSE LIGHTWEIGHT FILL

SIZES

Standard Sizes*	**610 mm x 1,220 mm x 2,440 mm** 24”x 48”x 96”
Standard Block Volume	**1.8 m^3** 64 ft^3
Standard Block Weight	**64 lbs**
Number of Blocks per Transportation	
Trailer of 48’	**48 Blocks** 87 m^3 (3,072 ft^3)
Road Train	**56 Blocks** 105 m^3 (3,584 ft^3)

*Other sizes available according to specifications requirements

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 CFCs, HCFCs, 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.

IZOLON

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