



October 2010

Polyfoam XPS

For almost any kind of partitioning

Description

Polyfoam XPS is a high performance, 100% ozone friendly, extruded polystyrene, rigid insulation board. It is lightweight, yet has excellent structural strength and compression resistance. Polyfoam XPS is available in three grades with either interlocking rebated edges or square edges.

Application

Polyfoam XPS is suitable for almost any floor construction including:

- Below a concrete slab
- Below a screed
- Below a chipboard sheet

Standards

Polyfoam XPS is manufactured in accordance with BS EN 13164:2008 and BSI Quality Assurance Standard BS EN ISO 9001:2008.

Certification

Polyfoam XPS is certified by BBA Certificate 04/4186.

Durability

The continuous service temperature limits of Polyfoam XPS are -50 to +75°C.

Environmental

Polyfoam XPS is free from CFCs, HCFCs and any other material with ozone depletion potential in its manufacture and content and represents no known threat to the environment. Polyfoam XPS is non bio-degradable and is 100% recyclable.

Performance

The thermal conductivity of Polyfoam XPS varies between 0.030 W/mK and 0.034 W/mK – see product data tables.

Benefits

- Excellent thermal insulation
- High compressive strength
- Highly resistant to water absorption
- Able to resist repeated freeze/thaw cycles
- Structurally stable in the long term

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Compression resistance

Polyfoam XPS is highly resistant to compression and withstands both occasional and long term static loads. A factor of safety for design loads of 3 (5 for long term static loads) is applied to the compressive strength of the product.

Vapour Resistivity

Polyfoam XPS has a water vapour resistivity of 600MN/gm.

Moisture absorption

Polyfoam XPS has a moisture absorption of 0.3% by volume.

Moisture resistance

Polyfoam XPS is resistant to moisture absorption and can be laid in ground water or up against wet concrete with negligible impact on the performance of the product.

Handling and storage

Polyfoam XPS boards are lightweight and easy to handle and are supplied in polythene packs, labelled with identifying product and manufacturing data. Ensure the boards are not stored close to open flame or other ignition source, also avoid volatile organic compounds and chemicals such as solvents. Polyfoam XPS should not be left exposed to prolonged sunlight as this will result in surface degradation, where outside storage for extended periods is required cover with opaque/light coloured sheeting.

Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m ² K/W)	Compressive strength (kpa)	Length (mm)	Width
Polyfoam 300 SE					
20	0.030	0.65	300	2500	600
30	0.030	1.00	300	2500	600
40	0.030	1.35	300	2500	600
50	0.030	1.70	300	2500	600
60	0.030	2.05	300	2500	600
70	0.030	2.40	300	2500	600
Polyfoam 300 LJ					
50	0.030	1.70	300	2485	585
60	0.030	2.05	300	2485	585
70	0.030	2.40	300	2485	585
80	0.030	2.75	300	2485	585
100	0.032	2.90	300	2485	585
Polyfoam 400 LJ					
50	0.032	1.55	400	2485	585
60	0.032	1.85	400	2485	585
80	0.034	2.35	400	2485	585
Polyfoam 500 LJ					
50	0.034	1.45	500	2485	585

Delivery times are dependent on the ordering / cooperative agreements that are assigned, updated material and process information. Factory can maintain a basic inventory to the customer to shorten the delivery time 7-14 days. Otherwise, delivery may be 6-8 weeks.

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