FROM THE GROUND UP

PolyFoam™ FLOOR

December 2025

Polyfoam™ Floorboard Extra

For floors and basements

Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m^2K/W)	Length (mm)	Width (mm)	Compressive strength (kPa)
Polyfoam Floorboard Extra					
25	0.031	0.80	2500	600	300
30	0.031	0.95	2500	600	300
35	0.031	1.10	2500	600	300
50	0.031	1.60	2500	600	300
60	0.031	1.90	2500	600	300
65	0.031	2.05	2500	600	300
75	0.031	2.40	2500	600	300
80	0.031	2.55	2500	600	300
100*	0.031	3.20	1250	600	300
125*	0.031	4.00	1250	600	300
150*	0.031	4.80	1250	600	300

*Lap jointed board

Performance

The thermal conductivity of Polyfoam Floorboard Extra is 0.031W/mK

Benefits

- High compressive strength and protects the damp proof membrane from damage
- Highly resistant to water absorption
- Robust and can tolerate traffic from following trades

Certification

- British Board of Agrément Certificate
- Environmental Product Declaration
- BES 6001: Responsible Sourcing of Construction Products

PolyFoam™ XPS

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Polyfoam™ Floorboards

POL-TD-01-01A

Description

Polyfoam Floorboard Extra is a rigid, lightweight extruded polystyrene (XPS) insulation. It offers a high compressive strength suitable for use in applications ranging from domestic floor slabs to intensively loaded industrial flooring.

In addition to a low lambda value of 0.031 W/mK, the thermally efficient foam boards are also robust and moisture resistant, making them suitable for basement walls and floors, swimming pool basins and perimeter insulation below DPC.

Application

Polyfoam Floorboard Extra is suitable for almost any floor construction including:

- Concrete slab
- Below a screed
- Below chipboard

Basement walls

Polyfoam Floorboard Extra can also be used as the external insulation layer in basement walls for depths up to 5.00m.

Durability

The continuous service temperature limit of Polyfoam Floorboards is up to +70° C.

Environmental

The BRE have approved and issued Environmental Product Declarations (EPDs) for the Polyfoam range of products in accordance with EN 15804:2012+A1:2013.

Polyfoam Floorboard Extra represents no known threat to the environment and has Zero Ozone Depletion Potential and a low Global Warming Potential. Polyfoam Floorboard Extra is non bio-degradable and 100% recyclable.

Responsible Sourcing

Polyfoam XPS Limited complies with requirements of BES 6001:issue 3.1, Polyfoam XPS Limited have achieved a performance rating of 'Pass' for the Polyfoam product range.

Compressive strength

Polyfoam Floorboards are highly resistant to compression and withstand both occasional and long term static loads. Load bearing construction elements should be designed to adequately support the combination of imposed and dead loads without creating excessive deflection.

Vapour resistivity

The water vapour resistivity of Polyfoam Floorboards is 705MNs/g.m when tested in accordance with BS EN 12086.

Moisture absorption

Polyfoam Floorboards have a moisture absorption of 0.7% by volume when tested in accordance with EN 12087 and can be laid in standing water or up against wet concrete with negligible impact on the performance of the product.

Handling and storage

Polyfoam Floorboards are lightweight and easy to handle and install. Polyfoam Floorboards are supplied in four sided packaging designed to be easily recognised and are labelled with identifying product and manufacturing data. Ensure the boards are not stored close to open flames or other ignition sources and avoid volatile organic compounds and chemicals such as solvents. Polyfoam Floorboards should not be left exposed to prolonged sunlight as this will result in surface degradation. When outside storage for extended periods is required cover the products with opaque/light coloured sheeting.

Standards

Polyfoam Floorboard Extra is manufactured in accordance with BS EN 13164, ISO 50001 Energy Management Systems, ISO 45001 Occupational Health and Safety Management Systems, ISO 14001 Environmental Management Systems, and ISO 9001 Quality Management Systems.

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