



Polyfoam Floorboard

For the thermal insulation of almost any floor construction.

Description

Polyfoam Floorboard is a high performance, 100% ozone friendly, extruded polystyrene, rigid insulation board. It is lightweight, yet has excellent structural strength and compression resistance.

Polyfoam Floorboard is available in four grades:

- Domestic – Domestic only
- Standard – General domestic and light commercial loading
- Extra – Commercial, industrial flooring and cold storage
- Super – Very high load commercial, industrial and cold storage floors

Polyfoam Floorboard Super is supplied with interlocking rebated edges. Polyfoam Floorboard Domestic, Standard and Extra are square edged boards.

Application

Polyfoam Floorboard is suitable for almost any floor construction including:

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

Standards

Polyfoam Floorboard is manufactured in accordance with BSI Quality Assurance Standard BS EN ISO 9001: 2000.

Certification

Polyfoam Floorboard is certified by BBA Certificate 04/4186.

Durability

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

Environmental

Polyfoam Floorboard 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 Floorboard is non bio-degradable.

Polyfoam Floorboard is 100% recyclable.

Compression resistance

Polyfoam Floorboard 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 as outlined in the Product Data table overleaf.

Vapour Resistivity and Condensation

Polyfoam Floorboard Domestic and Standard have a water vapour resistivity of 480 MNs/gm. Polyfoam Floorboard Extra and Super have a water vapour resistivity of 600 MNs/gm.

Moisture absorption

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

Moisture Resistance

The moisture resistance of Polyfoam Floorboard allows it to be laid exposed to ground water, with negligible impact on performance. Polyfoam Floorboard will not provide a water vapour controlling layer, however, it can be laid in ground water or up against wet concrete. Once in position it will not allow moisture to cross through the completed construction.



Performance

Thermal

The thermal conductivity of Polyfoam Floorboard varies between 0.029 W/mK and 0.034 W/mK.

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

Downloads

- [Product Datasheet](#)
- [COSHH Material Safety Datasheet](#)
- [BBA Certificate 04/4168](#)



Handling and Storage

The boards are easy to handle and nonirritant, no special protective clothing is required when installing them.

Polyfoam Floorboard is 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 products 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.

Product Data

Polyfoam Floorboard Domestic

Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m ² K/W)	Nominal Density (kg/m ³)	Minimum Compressive Strength (kPa)	Long Term Static Load ⁽¹⁾ (kPa)	Occasional Loading ⁽¹⁾ (kPa)	Length (mm)	Width (mm)
66	0.030	2.20	30	165	33	55	2500	600

⁽¹⁾ Design loads by calculated methods. All dimensions are nominal

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Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m ² K/W)	Nominal Density (kg/m ³)	Minimum Compressive Strength (kPa)	Long Term Static Load ⁽¹⁾ (kPa)	Occasional Loading ⁽¹⁾ (kPa)	Length (mm)	Width (mm)
85	0.029	2.90	30	200	40	66	2500	600
75	0.029	2.55	30	200	40	66	2500	600
65	0.029	2.20	30	200	40	66	2500	600
50	0.029	1.70	30	200	40	66	2500	600
35	0.029	1.20	30	200	40	66	2500	600
25	0.029	0.85	30	200	40	66	2500	600

⁽¹⁾ Design loads by calculated methods. All dimensions are nominal

Polyfoam Floorboard Extra

Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m ² K/W)	Nominal Density (kg/m ³)	Minimum Compressive Strength (kPa)	Long Term Static Load ⁽¹⁾ (kPa)	Occasional Loading ⁽¹⁾ (kPa)	Length (mm)	Width (mm)
100	0.034	2.90	38	350	70	116	2500	600
75	0.029	2.55	38	350	70	116	2500	600
65	0.029	2.20	38	350	70	116	2500	600
50	0.029	1.70	38	350	70	116	2500	600
35	0.029	1.20	38	350	70	116	2500	600
25	0.029	0.85	38	350	70	116	2500	600

⁽¹⁾ Design loads by calculated methods. All dimensions are nominal

Polyfoam Floorboard Super

Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m ² K/W)	Nominal Density (kg/m ³)	Minimum Compressive Strength (kPa)	Long Term Static Load ⁽¹⁾ (kPa)	Occasional Loading ⁽¹⁾ (kPa)	Length (mm)	Width (mm)
100	0.036	2.75	42	500	100	166	1250	600
75	0.035	2.10	42	500	100	166	1250	600
50	0.034	1.45	42	500	100	166	1250	600

⁽¹⁾ Design loads by calculated methods. All dimensions are nominal