



Polyfoam Linerboard

Description

Polyfoam Linerboard is a laminate of Polyfoam high performance, 100% ozone friendly, extruded polystyrene, rigid insulation board and plasterboard.

Polyfoam Linerboard utilises tapered edge plasterboard.

Application

Polyfoam Linerboard is used for the thermal insulation and lining of external walls.

Polyfoam Linerboard is recommended for the following wall constructions:

- Internal insulation and lining of external masonry walls in new build or refurbishment
- Internal insulation and lining of timber frame walls in new build or refurbishment
- Internal insulation and lining of rafters in new build or refurbishment

Standards

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

Product Data

Thickness	Thermal conductivity	Thermal resistance	Nominal density of insulation	Minimum compressive strength	Water vapour resistivity	Moisture absorption	Length	Width
(mm)	(W/mK)	(m ² K/W)	(kg/m ³)	(KPa)	(MN/gm)	(by vol.)	(mm)	(mm)
45.5/9.5	0.030/0.19	1.55	30	200	480	0.3%	2400	1200
36/9.5	0.030/0.19	1.25	30	200	480	0.3%	2400	1200
30.5/9.5	0.030/0.19	1.05	30	200	480	0.3%	2400	1200
25.5/9.5	0.030/0.19	0.85	30	200	480	0.3%	2400	1200
17.5/9.5	0.030/0.19	0.55	30	200	480	0.3%	2400	1200

All dimensions are nominal.

Performance

Thermal

The extruded polystyrene in Polyfoam Linerboard has a thermal conductivity of 0.030 W/mK and the plasterboard has a thermal conductivity of 0.19 W/mK.

Fire

The plasterboard facing is classified as Class 1 Surface Spread of Flame to BS476: Part 7: 1987.

Benefits

- Facing and insulation in one sheet results in fast installation
- Simple drylining techniques used for fixing and finishing boards
- Robust nature of Polyfoam supports plasterboard, improving its impact performance
- Excellent thermal performance
- Ideal for upgrading listed and historic facade buildings



Durability

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

Environmental

Polyfoam Linerboard 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. The extruded polystyrene in Polyfoam Linerboard is non bio-degradable.

Polyfoam Linerboard is 100% recyclable.

Compression resistance

The rigidity of the Polyfoam board behind the plasterboard will offer an excellent support to the finished internal lining and assist in the resistance of impact, helping to prolong its service life.

Moisture resistance

Walls should be sound and weatherproof before applying a thermal plasterboard laminate. Damp walls could have a detrimental effect on adhesive performance.

When lining internal walls in refurbishment projects the existing wall is often in a state of disrepair, which can mean dampness. The Polyfoam insulation backing to the plasterboard is resistant to moisture absorption and can offer the best piece of mind solution for an application where potential moisture ingress is a concern. If in any doubt about adhesive use mechanical fixings.

Fire

Polyfoam Linerboard consists of a 9.5mm plasterboard which offers excellent fire performance as a facing material and Polyfoam insulation which contains a flame retardant to inhibit localised ignition.

When installed on dabs a secondary mechanical fixing in the top corners of each board will ensure the integrity of the internal finish during evacuation in case of fire.

Handling and storage

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

Polyfoam Linerboard is supplied on pallets, labelled with identifying product and manufacturing data.

Ensure the boards are not stored close to open flame or other ignition source, also avoid volatile 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.

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