



Mannok Therm Laminate-Foil / MLF

Mannok Therm Laminate-Foil / MLF wallboard is one of the range of PIR (polyisocyanurate) foam boards we manufacture for the insulation of floors, walls and roofs.

Benefits of Mannok Therm Laminate-Foil / MLF (MLF)

- MLF is well suited for use as a dry lining on single lead or cavity walls in new build and refurbishment projects.
- Applying MLF insulated plasterboard to the internal face of masonry walls is an ideal method for improving the thermal performance of the wall.
- Fixing to battens allows uneven wall surfaces to be treated, while the reflective foil facings form a low emissivity cavity which further improves the thermal performance of the wall.
- MLF has a low thermal conductivity, minimising the thickness required to achieve the design U-value.

Composition

Mannok Therm Laminate-Foil / MLF consists of a core of PIR (polyisocyanurate) foam with bonded foil facings adhered to 9.5mm, 12.5mm or 15mm plasterboard. The gas filled cells give Laminate-Foil its high thermal performance and strength while the foil facings maximises performance in individual applications.

Thermal Performance

All as per IsoFrame

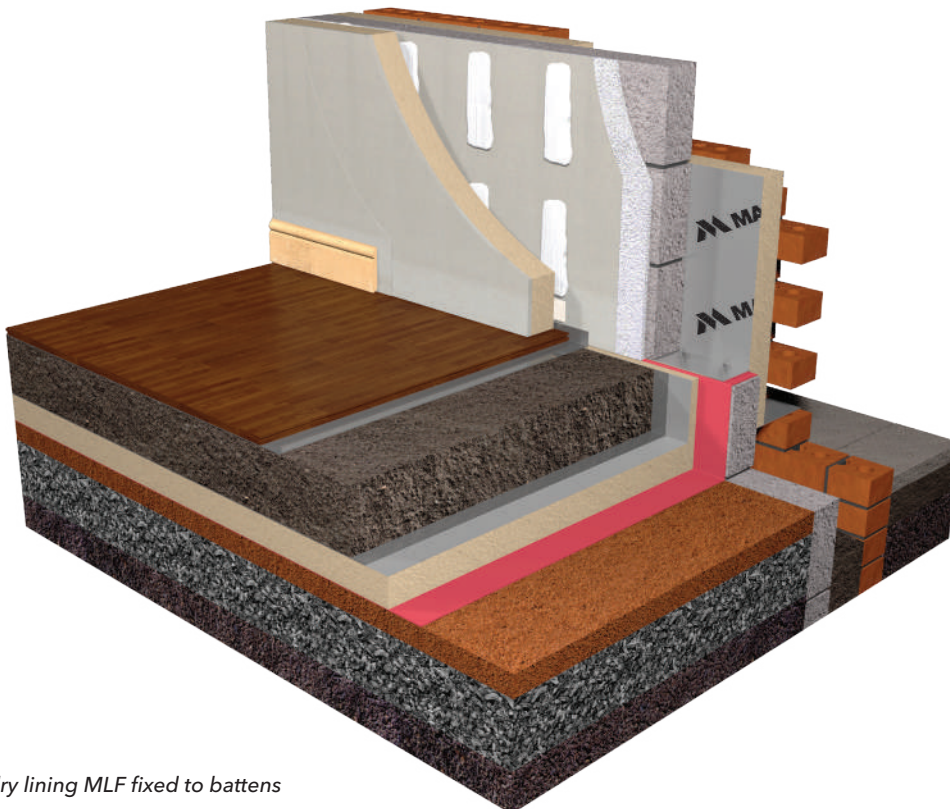
Mannok Therm Laminate-Foil / MLF has a thermal conductivity of 0.022W/mK, making it one of the most effective rigid board insulations available.

Environmental

All as per IsoFrame

Mannok PIR Insulation has an ozone depletion potential (ODP) of zero and a Global Warming Potential (GWP) of less than 5, certified to ISO 14001 - Environmental Management Systems.

Applications



Solid walls: internal dry lining MLF fixed to battens

CE Marking



Construction Products Regulation (CPR) requires mandatory CE marking for all thermal insulation products. MLF boards are CE marked to harmonised standard EN 13165. The Declaration of Performance, 001/20†, is available on our website (see bottom of page for link)

Delivery & Storage

Mannok PIR Insulation boards are shrinkwrapped in clear polyethylene for delivery to site. Each pack is labelled with the product description, product characteristics, manufacturer's name and brand name, quantity per pack, and any identification marks.

Biological / Chemical

Mannok PIR Insulation does not rot and does not support mould or fungus. Mannok PIR Insulation is chemically inert, and poses no threat to anyone using it.

Technical Support

All as per IsoFrame

Mannok provides a comprehensive technical support service for designers and contractors.

Mannok can provide:

- copies of Agrément and test certificates
- U-value calculations
- interstitial risk calculations
- design advice
- guidance on the most effective ways to meet current Building Regulations and Building Standards.

Contact Technical Support:

- Call: +44 (0) 28 6774 8866
- Email: technical@mannokbuild.com

Physical & Performance Characteristics

Surface	Composite foil facing adhered to 9.5mm, 12.5mm or 15mm plasterboard
Edge:	Butt
PIR Thicknesses:	20-200mm
Length x width:	1200mm x 2400mm 1200mm x 2438mm 1200mm x 2700mm 1200mm x 2743mm 1200mm x 3000mm
Thermal conductivity	0.022W/mK
Core water vapour resistivity	≈300MNs/gm
Compressive strength:	>150kPa

Fire Performance

Thickness	BS 476-7	BS EN 13501-1
29.5-201.5mm*	Class 1	B s1 d0

* inclusive of plasterboard

Dimensional stability / Durability

When tested to EN 1604 Mannok PIR Insulation achieves level DS(TH)4 to EN 13165.

Mannok PIR Insulation will perform for the service life of the building.

Design and Installation

For design and installation information plus thicknesses of Mannok PIR Insulation Wall to achieve specific U-values in all wall applications, consult our Product & Installation Guide, available via our website.

For further information:

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Every effort has been taken in the preparation of this data sheet to ensure the accuracy of representations contained herein. Recommendations as to the use of materials, construction details and methods of installation are given in good faith and relate to typical situations. However, every site has different characteristics and reliance should not be placed upon the foregoing recommendations. Advice can be given as to specific applications of the products, upon request to Mannok.