

MANNOK

Mannok Therm Floor / MF

Mannok Therm Floor / MF is one of the range of PIR (polyisocyanurate) foam boards we manufacture for the insulation of floors, walls and roofs.

Benefits of Mannok Therm Floor / MF (MF)

- MF has a high compressive strength to withstand the dead and imposed loads transmitted through the floor. It is suitable for domestic and most commercial applications.
- MF is suitable for new build and refurbishment projects.
- MF optimises the performance of any underfloor heating.
- MF is an ideal solution for upgrading the thermal performance of existing floors.
- MF can reduce heat loss by air infiltration through a suspended timber floor.
- MF has a low thermal conductivity, minimising the thickness required to achieve the design U-value.

Composition

All as per IsoFrame

Mannok Therm Floor / MF consists of a core of PIR (polyisocyanurate) foam with bonded foil facings. The gas filled cells give MF its high thermal performance and strength while its foil facings maximises performance in individual applications.

Thermal Performance

All as per IsoFrame

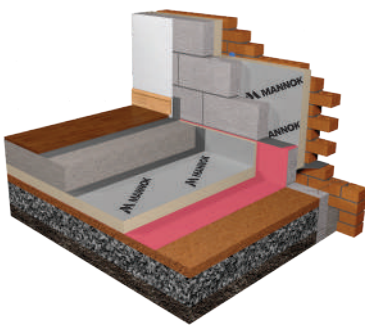
Mannok Therm Floor / MF has a thermal conductivity of 0.022W/mK, making it one of the most effective rigid board insulations available.

Environmental

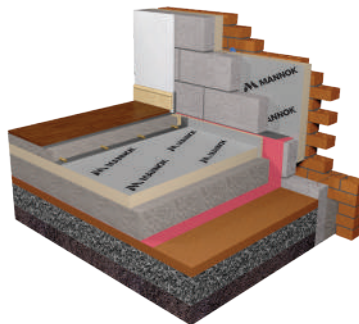
All as per IsoFrame

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

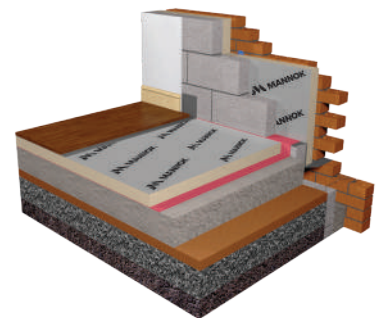
Applications



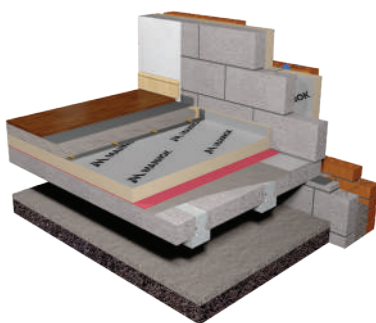
*Solid ground floor:
MF below groundbearing slab*



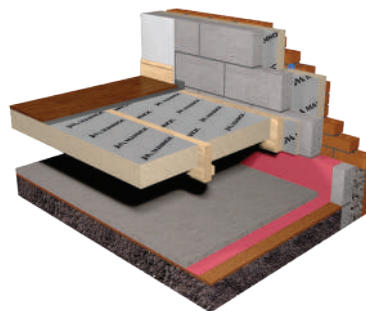
*Solid ground floor:
MF above groundbearing slab*



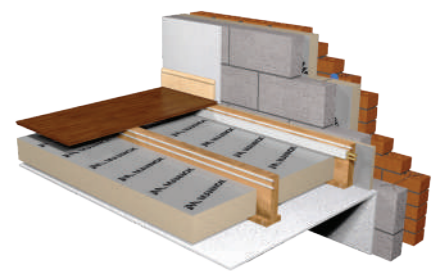
*Solid ground floor:
MF under timber floating floor*



Suspended beam and block floor



Suspended timber ground floor



Suspended timber floor other than ground floor

CE Marking



Construction Products Regulation (CPR) requires mandatory CE marking for all thermal insulation products. Mannok Therm Floor is CE marked to harmonised standard EN 13165. The Declaration of Performance, 004/20†, 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 facings
Edge:	Butt
Thicknesses:	20mm - 200mm
Length x width:	1200mm x 2400mm
Thermal conductivity	0.022W/mK
Core water vapour resistivity	≈300MNs/gm
Compressive strength:	>150kPa

Fire Performance

Thickness	BS 476-7	BS EN 13501-1
20-200 mm	Class 1	Euroclass E

Dimensional stability / Durability

When tested to EN 1604 Mannok PIR Insulation achieves level DS(TH)4 to EN 13165.
Mannok Therm Floor tested to BS EN 1606-1 Compressive Creep (extrapolated 25 years).
Mannok PIR Insulation will perform for the service life of the building.

Design and Installation

All as per IsoFrame

For design and installation information plus required thicknesses of Mannok Therm Floor / MF to achieve specific U-values in all flooring 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.