



# MANNOK

## Mannok Therm Roof / MFR-DPFR

Mannok Therm Roof / MFR-DPFR roof board is one of the range of PIR (polyisocyanurate) foam boards we manufacture for the insulation of floors, walls and roofs.

### Benefits of Mannok Therm Roof / MFR-DPFR (MFR-DPFR)

- MFR-DPFR is a dual purpose flat roof insulation board which is suitable for most waterproofing membranes. MFR-DPFR boards have a bitumen facing on one side and a non-bitumenous on the other side. The choice of Waterproofing system depends on the orientation of the insulation board.
- MFR-DPFR has a low thermal conductivity, minimising the thickness required to achieve the design U-value.

#### Composition

Mannok Therm Roof / MFR-DPFR consists of a core of PIR foam with fleece-finished, bitumen facings on one side and mineral coated perforated glass tissue facings, on the other side. The gas filled cells give the MFR-DPFR board its high thermal performance and strength.

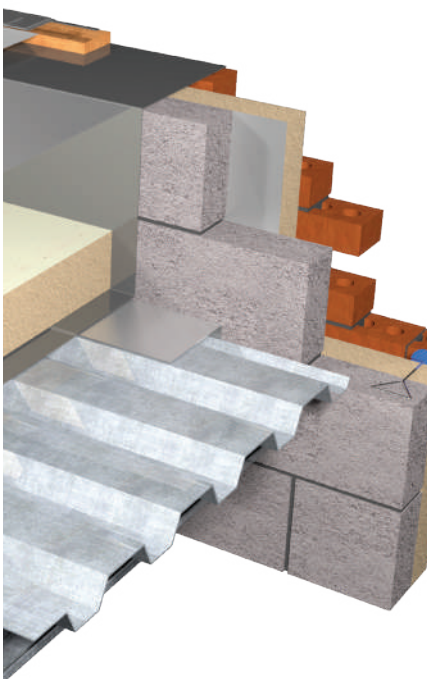
#### Thermal Performance

MFR-DPFR's thermal conductivity of 0.024 - 0.026 W/mK, makes it an effective and one of the best rigid board insulations available.

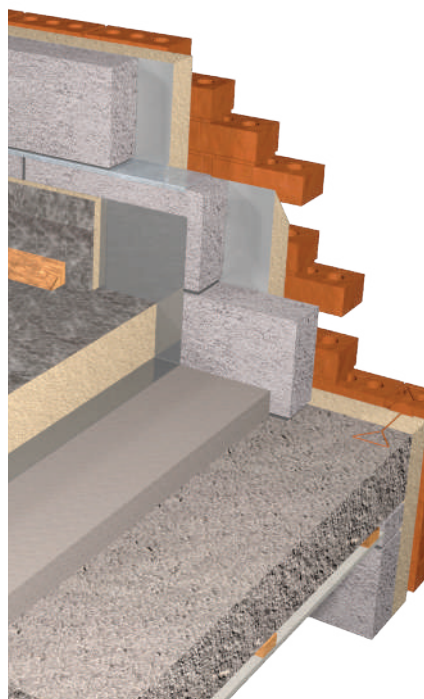
#### Environmental

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



Flat roofs:  
MFR-DPFR on metal deck



Flat roofs:  
MFR-DPFR on concrete deck



Flat roofs:  
MFR-DPFR on timber deck

## CE Marking



Construction Products Regulation (CPR) requires mandatory CE marking for all thermal insulation products. MFR-DPFR boards are CE marked to harmonised standard EN 13165. The Declaration of Performance, 009/20†, 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

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](mailto:technical@mannokbuild.com)

## Physical & Performance Characteristics

Surface	Fleece-finished, bitumen facings
Edge:	Butt, Rebate
Thicknesses:	25mm - 150mm
Length x width:	1200mm x 2400mm 1200mm x 600mm
Thermal conductivity	<80mm: 0.026W/mK 80 - 119mm: 0.025W/mK 120 - 150mm: 0.024W/mK
Core water vapour resistivity	≈300MNs/gm
Compressive strength:	>150kPa

## Fire Performance

Thickness	BS 476-7	BS EN 13501-1
25-150mm	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 Roof / MFR-DPFR tested to BS EN 1606-1 (extrapolated to 25 years) Mannok PIR Insulation will perform for the service life of the building.

## Design and Installation

For design and installation information plus thicknesses of Mannok Therm Roof / MFR-DPFR to achieve specific U-values in all roof 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.