Mannok Therm Roof / MR

Mannok Therm Roof / MR 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 / MR (MR)

- MR rigid insulation is well suited to use in warm pitched or flat roof constructions on new build or on refurbishment projects where the roof is to be stripped and re-covered.
- MR is strong enough to span the rafters and to sustain loads transferred from the roof covering.
- The low emissivity facings increase the thermal resistance of the air space beneath the insulation, improving the roof's overall thermal performance.
- MR has a low thermal conductivity, minimising the thickness required to achieve the design U-value and reducing the loads applied to the fixings.

Composition

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

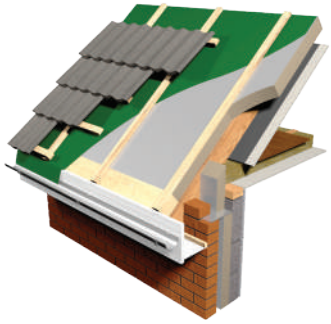
Thermal Performance

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

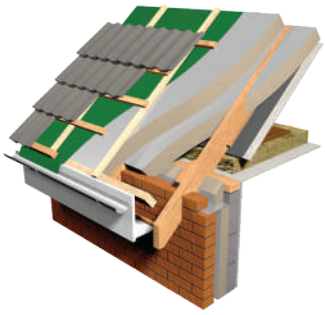
Environmental

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. Mannock Therm MR achieved an A+ rating when compared to the BRE Green Guide.

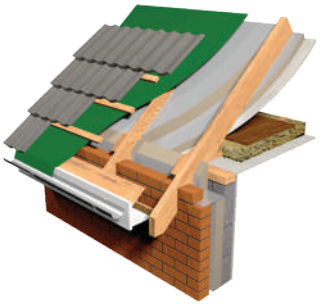
Applications



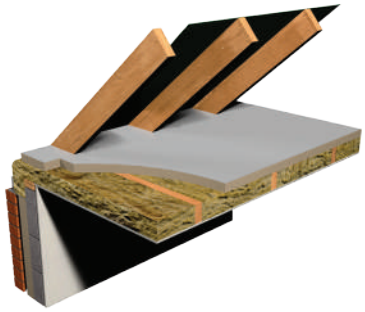
Pitched roof:
MR above rafters



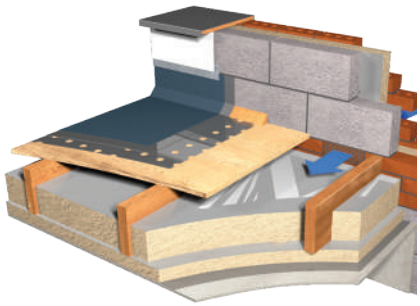
Pitched roof:
MR above & between rafters



Pitched roof:
MR between & below rafters



Pitched roof:
MR at ceiling



Flat roof:
MR between & below joists

CE Marking

Construction Products Regulation (CPR) requires mandatory CE marking for all thermal insulation products. Mannok Therm Roof / MR is CE marked to harmonised standard EN 13165. The Declaration of Performance, 03(a) and 03(b) /013†, 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

Physical & Performance Characteristics

Surface	Composite foil facings
Edge:	Butt,
Thicknesses:	20mm - 150mm
Length x width:	2400mm x 1200mm
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 - 55mm	Class 1	Euroclass F
60 - 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 PIR Insulation will perform for the service life of the building.

Design and Installation

For design and installation information plus required thicknesses of Mannok Therm Roof / MR 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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Factory Production Control Assessed to PN111

Cert. ENP 481