



MANNOK

Mannok Therm Wall / MW

Mannok Therm Wall / MW 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 Wall / MW (MW)

- MW rigid insulation is well suited to use in framed walls on new build projects and as a dry lining in new build and refurbishment projects.
- The low emissivity foil facings increase the thermal resistance of an unventilated cavity adjacent to the insulation therefore improving the over all thermal performance of the wall.
- MW has a low thermal conductivity, minimising the thickness required to achieve the design U-value.
- MW has good dimensional tolerances, enabling boards to be tightly butted to form a continuous layer of insulation.

Composition

All as per IsoFrame

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

Thermal Performance

All as per IsoFrame

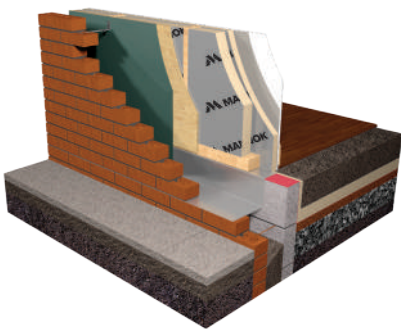
Mannok Therm Wall / MW has a thermal conductivity of 0.022W/mK, making it one of the most effective rigid board insulations available.

Environmental

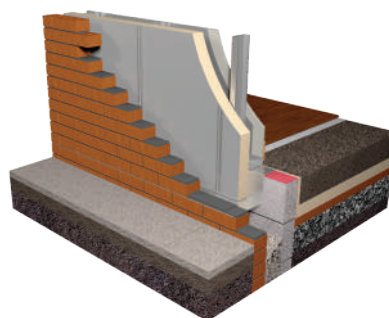
All as per IsoFrame

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.

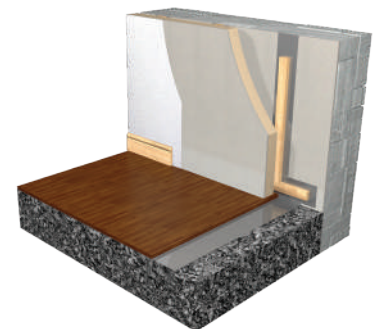
Applications



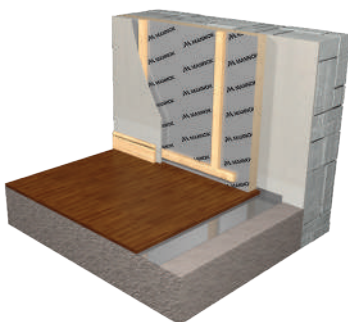
Cavity walls:
MW in timber frame*



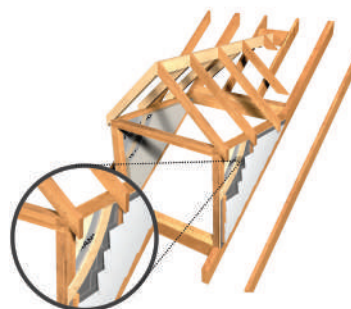
Cavity walls:
MW in steel stud frame



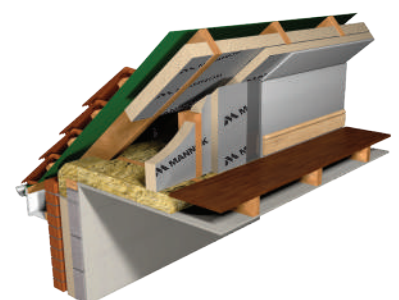
Solid walls: internal dry lining
MW fixed to battens**



Solid walls: internal dry lining MW fixed by battens



Timber frame wall with weatherboards



Wall: room in roof

CE Marking



Construction Products Regulation (CPR) requires mandatory CE marking for all thermal insulation products. MW boards are CE marked to harmonised standard EN 13165. The Declaration of Performance, 003/20†, 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 1200mm x 450mm
Thermal conductivity	0.022W/mK
Core water vapour resistivity	≈300MNs/gm
Compressive strength:	>150kPa

Fire Performance

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

All as per IsoFrame

For design and installation information plus required thicknesses of Mannok Therm Wall / MW 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.