

QUINN THERM

QR PIR Insulation

Quinn Therm QR roof board is one of the range of PIR (polyisocyanurate) foam boards we manufacture for the insulation of floors, walls and roofs.

Benefits of Quinn Therm QR roof boards

- QR 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.
- QR 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.
- QR has a low thermal conductivity, minimising the thickness required to achieve the design U-value and reducing the loads applied to the fixings.

Composition

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

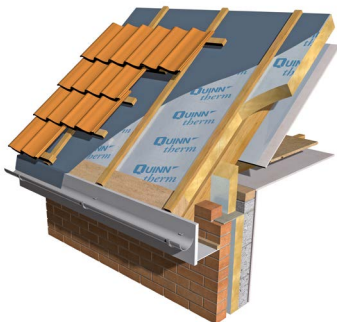
Thermal Performance

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

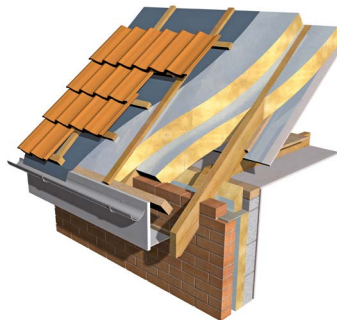
Environmental

Quinn Therm has an ozone depletion potential (ODP) of zero. It has a low Global Warming Potential (GWP), certified to ISO 14001 - Environmental Management Systems. Quinn Therm QR achieved an A+ rating when compared to the BRE Green Guide.

Applications



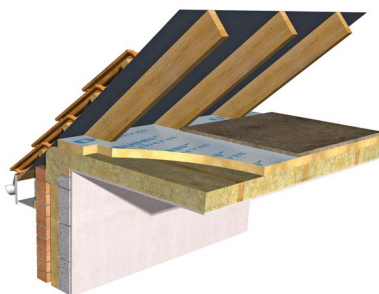
Pitched roof:
QR above rafters



Pitched roof:
QR above & between rafters



Pitched roof:
QR between & below rafters



Pitched roof:
QR at ceiling



Flat roof:
QR between & below joists

CE Marking



Construction Products Regulation (CPR) requires mandatory CE marking for all thermal insulation products. Quinn Therm QR is CE marked to harmonised standard EN 13165. The Declaration of Performance, O3(a) and O3(b) /O13+, is available on our website (see bottom of page for link)

Delivery & Storage

Quinn Therm 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

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

Technical Support

Quinn Therm Ltd provides a comprehensive technical support service for designers and contractors.

Quinn Therm Ltd 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@quinn-buildingproducts.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 Quinn Therm achieves level DS(TH)4 to EN 13165.

Quinn Therm will perform for the service life of the building.

Design and Installation

For design and installation information plus required thicknesses of Quinn Therm QW to achieve specific U-values in all wall applications, consult our Product & Installation Guide, available from Quinn Therm or 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 Quinn Therm.