

QUINN THERM

QRFR-GFR PIR insulation

Quinn Therm QRFR-GFR 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 QRFR-GFR roof boards

- QRFR-GFR rigid insulation is well suited to use in new build and refurbishment projects where the warm flat roof is covered with a mechanically fixed single ply membrane, partially bonded built up felt, mastic asphalt or cold-applied, liquid waterproofing.
- QRFR-GFR has a low thermal conductivity, minimising the thickness required to achieve the design U-value.
- QRFR-GFR boards are LPCB approved to LPS 1181:Part 1 for built up cladding systems for use as the external envelope of the building. Contact the Quinn Therm technical department for further details.

Composition

Quinn Therm QRFR-GFR consists of a core of PIR (polyisocyanurate) foam with mineral coated perforated glass tissue facings. The gas filled cells give QRFR-GFR its high thermal performance and strength while the facing maximises performance.

Thermal Performance

QRFR-GFR has a thermal conductivity of 0.024-0.026W/mK, making it one of the most effective rigid board insulations available.

Environmental

Quinn Therm 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. QRFRGFR achieved an A+ rating when compared to the BRE Green Guide.

Applications



Flat roofs:
QRFR-GFR in metal deck



Flat roofs:
QRFR-GFR in concrete deck



Flat roofs:
QRFR-GFR in timber deck

CE Marking



Construction Products Regulation (CPR) requires mandatory CE marking for all thermal insulation products. The boards are CE marked to harmonised standard EN 13165. The Declaration of Performance, 008(a) and 008(b) /013⁺, 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	Mineral coated, perforated, glass tissue facing
Edge:	Butt
Thicknesses:	25mm - 150mm
Length x width:	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
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 thicknesses of Quinn Therm QRFR-GFR 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.