

# QUINN THERM

## QRFR-FFR PIR Insulation

Quinn Therm QRFR-FFR 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

- QRFR-FFR 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.
- QRFR-FFR has a low thermal conductivity, minimising the thickness required to achieve the design U-value.
- QRFR-FFR 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-FFR consists of a core of PIR (polyisocyanurate) foam with bonded foil facings. The gas filled cells give QRFR-FFR its high thermal performance and strength while the foil facings maximises performance in individual applications.

#### Thermal Performance

QRFR-FFR 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 and a Global Warming Potential (GWP) of less than 5, certified to ISO 14001 - Environmental Management Systems. QRFRFFR achieved an A+ rating when compared to the BRE Green Guide.

### Applications



Flat roofs:  
QRFR-FFR in metal deck



Flat roofs:  
QRFR-FFR in concrete deck



Flat roofs:  
QRFR-FFR 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, 007(a) and 007(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](mailto:technical@quinn-buildingproducts.com)

## Physical & Performance Characteristics

Surface	Composite foil facings
Edge:	Butt,
Thicknesses:	25mm - 150mm
Length x width:	2400mm x 1200mm
Thermal conductivity	0.022W/mK
Core water vapour resistivity	≈300MN/gm
Compressive strength:	>150kPa

## Fire Performance

Thickness	BS 476-7	BS EN 13501-1
25 - 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 QRFR-FFR 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.