

# QUINN THERM

## QRFR-PLY PIR Insulation

Quinn Therm QRFR-Plydeck flat 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-Plydeck

- QRFR-Plydeck composite insulation is well suited to use in warm timber flat roof decks on new build and refurbishment projects.
- QRFR-Plydeck is designed to be finished with partially bonded built-up felt waterproofing systems and single ply and hot and cold liquid waterproofings.
- QRFR-Plydeck has a low thermal conductivity, minimising the thickness required to achieve the design U-value while the composite board offers rapid coverage and straightforward installation.
- Warm roof construction reduces the risk of condensation within the roof structure and eliminates the need for ventilation beneath the deck.

### Composition

Quinn Therm QRFR-Plydeck consists of a core of PIR (polyisocyanurate) foam with a plywood laminate top and a bonded foil facing on the underside. The gas filled cells give QRFR-PLY its high thermal performance and strength while the foil facing has a very high vapour resistance and can be formed into an AVCL by sealing the joints between boards.

### Thermal Performance

Quinn Therm QRFR-Plydeck 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. Quinn Therm QRFR-PLY achieved an A+ rating when compared to the BRE Green Guide.

### Applications



QRFR-Plydeck partially bonded Felt

## CE Marking



Construction Products Regulation (CPR) requires mandatory CE marking for all thermal insulation products.

QRFR-PLY boards are CE marked to harmonised standard EN 13165. The Declaration of Performance, 012/20<sup>+</sup>, 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	6 mm plywood/ composite foil facing
Edge:	Butt
Thicknesses:	56-206mm
Length x width:	1200 x 2400mm
Thermal conductivity	0.022W/mK
Core water vapour resistivity	≈ 300MNs/gm
Compressive strength:	>150kPa

## Fire Performance

Thickness	BS EN 13501-1
56 -206mm (see above)	Class E

## Dimensional stability / Durability

When tested to EN 1604 Quinn Therm achieves level DS(TH)4 to EN 13165.

Quinn Therm foil faced board tested to BS EN 1606-1 Compressive Creep (extrapolated 25 years)

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

## Design and Installation

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

### For further information:

Quinn Building Products Ltd, Derrylin, Co. Fermanagh, Northern Ireland BT92 9GP

t: +44 (0) 28 6774 8866 | [www.quinn-buildingproducts.com](http://www.quinn-buildingproducts.com) | [info@quinn-buildingproducts.com](mailto:info@quinn-buildingproducts.com)



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.