

Certificate of Product Approval

Certificate Number: 893a

Issue: 05

QUINN THERM LIMITED

Scotchtown
Ballyconnell
Co. Cavan
Ireland



is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirements of the standard(s) as detailed below:

Products

Built up Cladding Systems
QRFR Fully adhered Insulating metal deck roof system
QRFR Mechanically Fixed metal deck roof system

Standards

LPS 1181 Part 1: Issue 1.2
Series of Fire Growth Tests for LPCB Approval and Listing of Construction Product Systems. Part 1: Requirements and Tests for Built-up Cladding and Sandwich Panel Systems for use as the External Envelope of Buildings.

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.

Damien Ward

Signed for LPCB

Damien Ward

Certification Scheme Manager

24 July 2015

Date of Issue

01 April 2009

Date of First Issue



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Appendix to Certificate No: 893a QUINN THERM LIMITED

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| Product Name | Specification Thickness (mm) | Fire Resistance (min) | | Grade | Core material | LPCB Ref. No. |
|--|------------------------------|-----------------------|------------|-------|---------------|---------------|
| | | Integrity | Insulation | | | |
| QRFR Fully adhered Insulating metal deck roof system | 85 - 185 | - | - | EXT-B | PIR | 893a/01 |
| QRFR Mechanically Fixed metal deck roof system | 85 - 185 | - | - | EXT-B | PIR | 893a/02 |

Notes:

- LPCB Ref 893a/01 QRFR Fully adhered Insulating metal deck roof system is approved to LPS 1181-1 as a built-up roof system of the following configuration:
 - Steadmans AS34 single skin roof profile deck (0.7mm thick); deck panel lap joints stitched at 250mm centres.
 - Multifold 250µm Vapour Control Layer (VCL) laid on top of the deck, with the VCL cut back to within 75mm from the edge of the deck perimeter and further protected by flashing installed to form an 'upstand' around the perimeter of the roof system.
 - 150mm thick Quinnterm QRFR glass fibre tissue faced Insulation layer of rigid polyisocyanurate (PIR) boards supplied in 2.4m x 1.2m sheets (tested at 150mm thick, but available and approved between 50mm to 150mm thick), the boards being through fixed to the steelwork using 6.3 x 175mm fastec CR10 fluoro carbon coated screws, with discs, at six fixings per m²
 - Weather sealed using a Sika-Trocal SGK 1.2 to 1.5mm by 1100mm wide, water proof membrane adhered to the Quinnterm Insulation using Sika-Trocal C300 adhesive at a rate of 250 g/m².
 - The 150mm insulation roof system tested incorporated a 150 x 200mm external edge flashing and a 300 x 300mm internal roof/wall 1.6mm galvanised steel flashing.
 - The roof system was tested in combination with LPCB approved PIR core wall panels.
- LPCB Ref 893a/02 QRFR Mechanically fixed Insulating metal deck roof system is approved to LPS 1181-1 as a built-up roof system of the following configuration:

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- Steadmans AS34 single skin roof profile deck (0.7mm thick); deck panel lap joints stitched at 300mm centres.
- Multifold 250µm Vapour Control Layer (VCL) laid on top of the deck, with the VCL cut back to within 75mm from the edge of the deck perimeter and further protected by flashing installed to form an 'upstand' around the perimeter of the roof system.
- 150mm thick Quinnterm QRFR foil faced Insulation layer of rigid polyisocyanurate (PIR) boards supplied in 2.4m x 1.2m sheets (tested at 150mm thick, but available and approved between 50mm to 150mm thick), the boards being through fixed to the steelwork using 6.3 x 175mm fastec CR10 fluoro carbon coated screws in a 500mm x 500mm square pattern.
- Weather sealed using a Sika-Trocal Type S 1.5 (1.5mm x 1100mm) water proof membrane mechanically fixed to the roof system using Trocal Metal Discs and Fasteners secured in place by the 6.3 x 175mm fastec CR10 fluoro carbon coated screws mentioned above.
- The 150mm insulation roof system tested incorporated a 150 x 200mm external edge flashing and a 300 x 300mm internal roof/wall 1.6mm galvanised steel flashing.
- The roof system was tested in combination with LPCB approved PIR core wall panels.

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