

Loss Prevention Certification Board



This is to certify

Quinn Therm Ltd
Scotchtown, Ballyconnell, Co. Cavan, Ireland

is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix.

**QRFR Fully adhered Insulating metal deck roof system and
QRFR Mechanically Fixed Insulating metal deck roof system**
(refer to attached appendix for details)

which has complied with the requirements of the following:

**LPS 1181 : - Series of Fire Growth Tests for LPCB Approval and
Listing of Construction Product Systems.**

**Part 1: Issue 1 - Requirements and Tests for built-up cladding and
sandwich panel systems for use as the external envelope of buildings.**

Certificate No. 893a

Issue No. 4

Date of Issue 10 August 2009

This certificate is valid until withdrawn by LPCB.
To check the validity and the authenticity of this certificate please
visit our website www.RedBookLive.com or contact us.

Signed on behalf of the LPCB

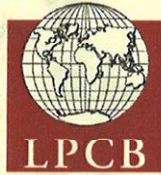
Name: T Baker



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APPENDIX TO CERTIFICATE NO. 893a

Quinn Therm Ltd

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:

1. 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 Quintherm 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

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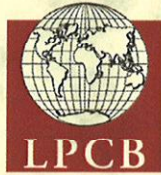
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- Weather sealed using a Sika-Trocal SGK 1.5 (1.5mm x 1100mm) water proof membrane adhered to the Quinntherm Insulation using Sika-Trocal C300 adhesive at a rate of 250 g/m².
 - The 150mm insulation roof system tested incorporated a 150 x 200mm external 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.
2. 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:
- 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 Quinntherm 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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