

## Certificate of Product Approval

Certificate Number: 893a

Issue: 06

### MANNOK INSULATION 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

MFR Fully adhered Insulating metal deck roof system

MFR 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.

Signed for BRE Global Ltd.

Karen Coull

Certification Scheme Manager

23 February 2021

Date of Issue

01 April 2009

Date of First Issue



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## Appendix to Certificate No: 893a MANNOK INSULATION LIMITED

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

### Notes:

- LPCB Ref 893a/01 MFR 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 Mannok MFR 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 m<sup>2</sup>
  - Weather sealed using a Sika-Trocacal SGK 1.2 to 1.5mm by 1100mm wide, waterproof membrane adhered to the Mannok Insulation using Sika-Trocacal C300 adhesive at a rate of 250 g/m<sup>2</sup>.
  - 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 MFR 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.

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Karen Coull  
Certification Scheme Manager

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- 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 Mannok MFR 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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