

Certificate of Product Approval

Certificate Number: 558b

Issue: 07

HEMSEC MANUFACTURING LIMITED

Stoney Lane
Rainhill
Prescot
Merseyside
L35 9LL



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

Composite Panel Systems

HPT External/Carrier
HPT External/Carrier
Hemsec SIP (wall panel)

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

03 July 2018

Date of Issue

01 January 2007

Date of First Issue



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Appendix to Certificate No: 558b HEMSEC MANUFACTURING LIMITED

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Product Name	Specification Thickness (mm)	Fire Resistance		Grade	Core Material	LPCB Ref. No.
		Integrity (min)	Insulation (min)			
HPT External/Carrier (wall panels)	50 to 175	-	-	EXT-B	PIR	558b/01
HPT External/Carrier (roof panels)	50 to 175	-	-	EXT-B	PIR	558b/02
HPT External/Carrier (wall panels)	100 to 175	60	30	EXT-A30	PIR	558b/03
HPT External/Carrier (roof panels)	125 to 175	52	40	EXT-A30	PIR	558b/04
Hemsec SIP (wall panel)	160 to 287	75	75	EXT-A60	PUR	558b/05
Hemsec SIP (wall panel)	257.5 to 329.5	101	101	EXT-A90	PUR	558b/06

Notes:

- LPCB Ref No. 558b/01 & 558b/03 - HPT External/Carrier and HPT External/Carrier wall panels can be installed with the long joints in the vertical or horizontal orientation.
- LPBC Ref No. 558b/01 - The joints of the HPT External/Carrier wall panels should be stitched at 150mm centres on the internal face.
- LPCB Ref No. 558b/02 - The joints of the HPT External/Carrier roof panels should be stitched at 150mm centres on the internal face.
- LPCB Ref No. 558b/03 - The joints of the HPT External Carrier wall panels should be stitched at 150mm centres on the internal and external face. When installed the supporting framework shall provide support at a maximum of 4m centres both horizontally & vertically.
- LPCB Ref No. 558b/04 - The joints of the HPT External/Carrier roof panels should be stitched at 150mm centres on the internal and external face.

Notes continued

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- LPCB Ref No. 558b/05 - Hemsec SIP (wall panel) was tested and is approved to LPS 1181-1 as a non loadbearing, non structural built-up wall system of the following configuration; Rigid polyurethane foam core (95mm to 222mm thick) sandwiched between 15mm orientated strand boards (Krono OSB-3), the panel size was 1.2m x 3.0m and installed with 3 metre joints vertical. The system was clad on the fire exposed face with two layers of British Gypsum wall boards; A single layer of 'Gyproc' 12.5mm wall board (outer layer) and a single layer of 'Gyproc Fireline' 12.5mm board (inner layer), wall board layer joints were staggered by 600mm and fixed to softwood timber battens positioned at 600mm centres with 3.5mm x 50mm dry wall screws at 300mm centres. The system was tested with Hemsec 175mm thick HPT External/Carrier PIR core roof panels.
- LPCB Ref No. 558b/06 – Hemsec SIP (wall panel) is approved to LPS 1181-1 as a non load bearing, non structural built up wall system of the following configuration; rigid polyurethane foam core (150mm to 222mm thick) sandwiched between 15mm orientated strand boards (Krono OSB-3), the panel size is 1.2m x 3.0m and installed with 3 metre joints vertical and consisting of 148mm deep x 70mm thick x 3000mm long timber spline joints inserted into 35mm pre-formed rebates in the core insulation, the joints are fixed with adhesive and nail fixings at 100mm centres. The system is clad on the fire exposed face with two layers of British Gypsum wall boards; A single layer of 'Gyproc' 12.5mm wall board (outer layer) and a single layer of 'Gyproc Fireline' 15mm board (inner layer), with the wall board joints between layers staggered by 600mm and fixed to softwood timber battens 50mm x 50mm apace at 600mm centres with .3.5 x 50mm dry wall screws at 300mm centres, the stud cavity is filled with Knauf RocksilK Universal slab RW33 insulation.

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