
LPCB Red Book



2

Part: 1

Passive fire protection

bre

Introduction

BRE Global Ltd, based in the UK near London, is an independent third party organisation offering certification of fire, security and sustainability products and services to an international market. LPCB is the certification brand used for fire and security products and services. The LPCB mark is accepted worldwide. We have representative offices in China, India and Dubai. We are owned by the BRE Trust, a not-for-profit organisation.

LPCB listings can be accessed, free of charge, at www.redbooklive.com.

RE Global additionally carries out:

- Fire Investigation
- Fire Risk Assessment
- Fire Safety Engineering
- Research
- Training

LPCB Listings

Listings are given in sections which list related groups of products and services such as suppression, security and so on. Each section also summarises the technical basis for the certification of each product or service. The Red Book listings should always be used in conjunction with rules, regulations and design specifications required by the relevant Authority having jurisdiction.

Listings comprise:

Volume 1:

- Fire detection and alarm products, systems, and cables
- Manual fire extinguishing equipment
- Automatic sprinkler, water spray and deluge systems
- Fixed fire fighting products and systems
- Watermist systems
- Related installers

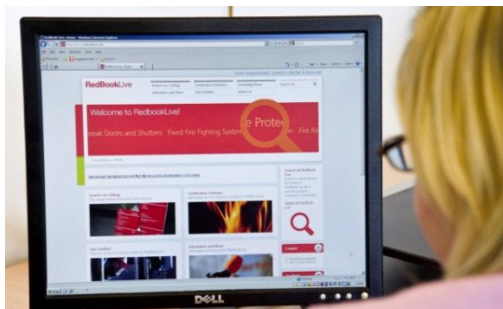
Volume 2: (This Volume)

- **Passive fire protection products**
- **Security protection products**
- **Fire doors and shutters**
- **Smoke and fire ventilation systems**
- **Security Assessments - SABRE**
- **Related installers**
- **Management Systems**
- **Construction products**

Listings are given in the name of the manufacturer or service provider, in alphabetical order. They can be downloaded free of charge from our website at www.redbooklive.com.

Updates

Certification of products and services are updated regularly. To ensure that you are using the most up to date information please refer to <<<<<<www.redbooklive.com>>>>>>



What is Third Party Certification?

A frequent concern of stakeholders is in knowing whether a product will perform in accordance with the stated specifications. These concerns can involve such product attributes as safety, health or environmental impacts, durability, compatibility, suitability for intended purposes or for stated conditions, and other similar considerations. These issues can all be addressed through product certification.

Third party certification is a conformity assessment process, carried out by a body that is independent of both supplier and customer organisations. It provides confirmation that products and services have met and will continue to meet the requirements of specified standards and other normative documents.

LPCB third party product certification schemes are quality assurance schemes and comprise initial type testing and technical evaluation, assessment and surveillance of the manufacturer's quality system and factory production procedures, regular audit testing, labelling and listing.

Similarly, LPCB schemes for suppliers of services (installers) are also quality assurance schemes comprising a technical assessment of an installer's capability, assessment and surveillance of the installer's quality system and production procedures, regular inspection of completed installations and listing.

Benefits of Third Party Certification

For specifiers, regulators, insurers, manufacturers and installers, the benefits of an LPCB approval are:

For specifiers and regulators:

- Risk reduction - specifying LPCB approved products and services demonstrates due-diligence and best endeavour and mitigates against possible accusations of negligence.
- Avoidance of costly mistakes - you can trust LPCB approved products and services to conform each and every time.
- Time - using Red Book Live to search for and assess products and services can save you time.

For manufacturers and installers:

- Increased global sales - LPCB approval is recognised and specified widely throughout the world. In some territories LPCB approval is a mandatory requirement.
- Added value of the product or service - LPCB approved products and services are recognised as providing added value given their ability to conform each and every time.
- Reduced liability - LPCB approved products and services demonstrate due-diligence which can reduce liability for both you and your customers.

What does LPCB Certification offer?

LPCB certification is carried out against Loss Prevention Standards (LPS's). These LPS's include reference to BS, EN or ISO standards as appropriate. LPCB certification are level 5 schemes as detailed in ISO/ IEC 17067 with the added requirement to have a quality system certificated to ISO 9001.

The technical requirements of LPCB schemes are given in the Loss Prevention Standards (LPSs). These documents are drafted by LPCB technical experts in conjunction with appropriate external experts. They are then peer reviewed by representatives from trade bodies, regulators, insurers, specifiers, manufacturers and other suppliers. Finally these documents are approved for use by the BRE Global Governing Body; the Body that oversees all of the certification activities of BRE Global.

VOLUME 2 LIST OF APPROVED PRODUCTS AND SERVICES

Product schemes comprise:

- Initial type testing and evaluation of product.
- Approval and surveillance of the manufacturer's (or supplier's) quality management system to ISO 9001
- Assessment and surveillance of the manufacturer's (or supplier) factory production control system (FPC).
- Periodic audit testing of the product from either the factory or marketplace.
- Labelling or marking as appropriate.
- Listing on Red Book Live

Installer schemes comprise:

- Technical assessment of the installation contractor's capability.
- Approval and surveillance of the contractor's quality management system to ISO 9001 or assessment against the requirements of the relevant Loss Prevention Standard where ISO 9001 is not appropriate.
- Regular surveillance inspections of on-going installations.
- The issue of Certificates of Conformity by the installer to demonstrate compliance for each installation.
- Listing in the Red Book.

The LPCB Mark - the Mark you can trust

After certification of a product or service the manufacturer or service provider may place the LPCB certification mark, as shown below, on the product, packaging and literature etc.



Where LPCB holds accreditation through the United Kingdom Accreditation Service (UKAS), the certified company may include the UKAS symbol (the Crown and Tick) alongside the LPCB mark for certain applications e.g. promotional literature or material and stationery, as shown below.



(Full details of LPCB accreditation can be found on the UKAS website at www.ukas.com)

Where for reasons of space or cost the use of the above full mark is not practical, then the following simplified mark may be applied directly to the product (for some schemes only). The LPCB scheme rules define how and where the marks can be used.



The products listed in Volume 2: Part 5 - Construction Products, are approved under our BRE Global Certification brand - the certification mark for this brand is:-



CONTENTS

1 Passive fire protection	1
SECTION 1 Installation, service and maintenance of passive fire protection products	3
SECTION 1.1 LPS 1500 approved installer of fire resisting compartmentation system	4
SECTION 1.2 LPS 1531 approved installer of passive fire protection products	6
SECTION 1.3 LPS 2084 Inspection cleaning and maintenance of ductwork systems	23
SECTION 2 Construction product systems (building envelope, roofing & partitions)	24
SECTION 2.1 LPS 1181 series	25
SECTION 2.1.2 LPS 1181-1 cladding products used for the external envelope of buildings	27
SECTION 2.1.3 LPS 1181-2 sandwich panels or built-up panel systems used internally in a building	35
SECTION 2.2 LPS 1208 composite construction elements	39
SECTION 2.3 LPS 1581 external cladding systems on a masonry substrate	49
SECTION 2.3.1 LPS 1581 external thermal insulated cladding (ETICS) on masonry substrates	50
SECTION 2.3.2 LPS 1581 rain screen cladding systems (RSC) on masonry substrates	51
SECTION 2.4 LPS 1582 external cladding systems supported by a structural steel frame	52
SECTION 2.4.1 LPS 1582 external thermal insulated cladding (ETICS) supported by a structural steel frame	53
SECTION 2.4.2 LPS 1582 rain screen cladding system (RSC) supported by a structural steel frame	54
SECTION 2.5 Roofing products	55
SECTION 2.5.1 Protection against fire from outside the building	56
SECTION 2.5.2 Protection against fire from inside the building	57
SECTION 2.6 Reaction to fire (RTF) classifications for materials and products	59
SECTION 3 LPS 1132 wall & floor penetration and linear gap seals	60
SECTION 4 Structural steel and concrete members fire protection	66
SECTION 4.1 LPS 1107 structural steel fire protection - board and cementitious coverings	67
SECTION 4.2 Structural steel fire protection - intumescent thin film coatings	68
SECTION 4.3 Structural concrete members fire protection	72
SECTION 5 Protective covering materials & scaffold cladding	73
SECTION 5.1 LPS 1207 protective covering materials	74
SECTION 5.1.1 LPS 1207 protective covering materials - sheeting	75
SECTION 5.1.2 LPS 1207 protective covering materials - pre-formed	82
SECTION 5.2 LPS 1215 scaffold cladding materials	83
SECTION 6 Cavity fire barriers	84
SECTION 8 Products assessed for use in surface and sub surface transport applications	85
SECTION 9 Fire protected timber stairs	87
SECTION 10 Fire resistant glazing systems	88

1			
1 Fire Protection Ltd	6	Ductclean (UK) Limited	12, 23
123 Fire (a division of MB Plant Limited)	6	E	
A		E&S Heating & Ventilation Ltd	13
A Steadman & Son (a Division of SIG Trading Limited)	27	Euroclad Group Limited	28, 36, 39
A2O Limited	6	F	
Abbey Thermal Insulation Ltd	6	Fire Protection Limited	13
Abbot Fire Group Limited	7	Fire Risk Management Associates	13
Absolute Fire Safety Ltd	7	Fireclad Ltd	13
AC Ventilation Solutions Ltd	7	Firth Steels Ltd	29
ACT Construction (Europe) Limited	4	FK Construction Ltd	4
Adaptive Fire Protection Limited	7	Flame Retain Ltd	13
AFA (NI) Ltd	7	Florprotec Limited	77
AIRFAB (Manufacturing) Ltd	8	G	
Airwaves-pfp	8	G & A Fire Protection Ltd	5, 14
Alufire Sp.Z o.o.Sp.K	88	Gardner & Co (Kent) Ltd	14
Aran Fire Protection Ltd	8	Gardner FRD Ltd	14
ArcelorMittal Construction Belgium NV	27	GBS Fire Protection Limited	14
ASM Engineering Ltd	8	Geoffrey Robinson Limited	14
Avert Fire (UK) Ltd	8	GSH (South West Consultancy) Ltd	15
B		Gunfire Trading Division of Gunite (Eastern) Limited	15
Bainbridge International Limited	75	H	
Beacon Group International Limited trading as Leach's	83	Hemsec Manufacturing Limited	29, 40
Bellwood Interiors Limited	9	HIL Installations Limited	5
Berry bpi Packaging Solutions (trading as a division of British Polythene Limited)	75	Holemasters Fire Protections Ltd	15
BMI Group UK Limited	75, 83	Hollmark Ltd	15
Borley Engineering Services Ltd t/a CMB Engineering	9	Hotchkiss Limited	15
Bright Hygiene	23	I	
Brucha Ges.m.b.H	28, 35	Imperial Ductwork Services Ltd	16
Bryson Products Ltd	76	International Paint Limited	68
Buildzone UK Limited	9	IPB N.V.	77
C		Isoclad Limited	40
CA Group Limited	28, 39	J	
Castle Hill Fire Protection Limited	9	Jeld-Wen UK Ltd	87
Checkmate Fire Solutions Ltd	10	Jodam Construction Ltd	16
City Gate Construction (Scotland) Limited	10	Joris IDE N.V.	30, 41
Clark & Fenn Skanska Limited	10	JPM Fire Protection Limited	16
Clear Line Maintenance Ltd	11	JTL Fire Limited	16
Cleshar Contract Services Ltd	11	K	
Cold Clad Limited	4, 11	Kingspan Ltd	30, 36, 41
Composite Panel Services Limited	4, 11	Kingspan Ltd.	31, 37, 42
Core Drilling Specialists Ltd	11	Kingspan Oy	42
Core Industrial Plastics Limited	76	L	
Corecut Fire Protection (a division of Corecut Limited)	12	L and M Ventilation Ltd	16
Corplex Plastics UK Ltd trading as Corplex UK	76	LE-Partitions Limited	17
CSL Associates Ltd	12	Loftus Construction Solutions Limited	17
Culimeta-Saveguard Limited	84	Lynco/Lynco Facades Ltd	17
CVD Fire Protection Ltd	12	M	
D		M J Quinn Limited	38
DC Fire Protection Limited	12	Mannok Insulation Limited	32
Devar International Holdings Pty Ltd	60	Map Ventilation Limited	17
Distriplast Flandre SAS	76	Mark Smith Drylining Ltd	17
Don & Low Ltd, Nonwovens	77	MCT Brattberg AB	60, 85
Ductbusters Limited	23	Middlesex Firestopping Limited	18
		Modular Panel Systems Limited	32, 43
		MTM Passive Fire Protection Ltd	18
		N	
		Nene Valley Fire and Acoustic Limited	18
		Neo Property Solutions Limited	18

INDEX

Northern Ireland Plastics Limited	78	Rockwool Limited	32, 44, 57, 59, 61
O		Ruukki Construction Oy	44
Ockwells Limited	78	Ruukki Polska Sp. z.o.o	45
O'Mahony Contractors Ltd	18	S	
Ondaplast SpA	79	Sealed Air Limited	79
Overclean Limited	23	SMR Interiors Ltd	21
P		Solicom SA	80, 83
P&M Group Ltd trading as ISD	5, 19	Specialist Panels UK Limited	47
Paneltex Limited	38, 44	Stancold plc	5, 21
Passive Fire Group Ltd	19	Stopfire Ltd	21
PFP Fire Systems Ireland Limited	19	Swiftec Group	80
PPG Coatings Europe BV	66, 68	T	
Prestige Fire Door Services trading as Sunray		Tata Steel UK Limited, Panels and Profiles	33
Timber Doors Division	19	Thermal Engineering Contracts Ltd	22
Prime Fire Limited	20	Total Protection (Fire & Sealing) Solutions Ltd	22
Prospect Fire Ltd	20	Trimo d.o.o.	34, 38, 47
Protec International Limited	79	Twinplast Limited	81
Q		U	
Qualifire Ltd	20	UK Vent Ltd	22
R		Ultrimax Coatings Limited	81
R Lewis & Co. (UK) Ltd	20	V	
R1 Fire Pro Limited	20	V & C Ventilation Ltd	22
RA Fire Protection Limited	21	Y	
Richard Kemble Contracts Limited	21	Yuanda (UK) Co Ltd	22

Part

1

*PASSIVE FIRE
PROTECTION*

PART 1: PASSIVE FIRE PROTECTION

INTRODUCTION

Passive fire protection is a combination of design, assembly and material choice. This will include:

- Protection of structural elements
- Materials that do not contribute to fire growth
- Limited toxicity of combustion products
- Walls and floors that provide compartments to resist the spread of fire
- Provision of a building envelope to resist fire entering from outside

In addition to careful design and product selection, it is recommended that all products are installed by LPCB approved contractors who have demonstrated their competence.

Listings in this section include:

Products

- Partitions
- Structural steel protection
- Fire stopping/penetration seals
- Products used in transport applications
- Walls and roofs/roofing - the building envelope
- Protective sheeting
- Temporary buildings for use on site
- Timber stairs

These products are approved in accordance with various standards, the details of which are given at the front of each section.

Installation contractors

Contractors are approved in accordance with:

LPS 1500: *Requirements for the approval and listing of companies installing construction elements used to provide compartmentation in buildings.*

LPS 1531: *Requirements for the approval and listing of companies installing or applying passive fire protection products.*

A fundamental aspect of fire safety in buildings is the specification and installation of 'built in' or passive fire protection products and systems. It has long been recognised that the performance of a product can be severely undermined by poor installation or application leading to failure in the event of a fire. This has led to the recent development of LPS 1500 *Requirements for the LPCB approval and listing of companies installing construction elements used to provide compartmentation in buildings* and LPS 1531 *Requirements for the approval and listing of companies installing or applying passive fire protection products*. Both these schemes help to ensure that companies installing passive fire protection :

- Have sufficient training and expertise to install the products or systems using the correct techniques.
- Use products where it can be demonstrated that they will meet the required fire performance.
- Have access to up to date installation instructions for the installed systems.
- Carry out and record in process inspection checks prior to, during and after the product or system installation.
- Issue LPCB Certificates of Conformity for each installation.

LPS 1500 was developed specifically for companies installing fire resisting compartmentation systems approved by LPCB to LPS 1208.

LPS 1531 is an installer scheme that covers all the major product areas of passive fire protection.

PART 1: SECTION 1.1

LPS 1500 APPROVED INSTALLER OF FIRE RESISTING COMPARTMENTATION SYSTEM

The companies listed in this section are approved installers of fire resisting compartmentation systems approved by LPCB to LPS 1208.

LPS 1208 Approved products for use in the following elements of construction may be installed under this scheme.

- Loadbearing compartment walls and partitions
- Non-load bearing compartment walls and partitions
- External walls
- Curtain walls
- Cavity barriers
- Roofs where fire resistance is required (loadbearing and non-loadbearing)
- Loadbearing compartment floors
- Insulated panels used for enclosing production and storage areas in food factories.

ACT Construction (Europe) Limited

122-124 Strathmore Road, Balmore Industrial Estate, Glasgow G22 7DW, United Kingdom

Tel: 0141 959 9200 • Fax: 0141 959 9400

E-mail: ken@act-construction.co.uk • Website: www.act-construction.co.uk

Certificate No. 1237PIa to LPS 1500: Issue 2

Company assessed and approved for installation of fire resisting compartmentation systems approved by LPCB to LPS 1208.

Cold Clad Limited

Sarnia House, Green Lane, Newtown Trading Estate, Tewkesbury, Gloucestershire GL20 8HD, United Kingdom

Tel: 01684 438190 • Fax: 01684 217610

E-mail: info@coldclad.com • Website: www.coldclad.com

Certificate No. 1169PIb to LPS 1500: Issue 2

Company assessed and approved for installation of fire resisting compartmentation systems approved by LPCB to LPS 1208.

Composite Panel Services Limited

Unit 3, Pennington Street, Hull, East Yorks HU8 7LE, United Kingdom

Tel: 01482 620277 • Fax: 01482 587121

E-mail: andrewmiller@cps-hull.co.uk • Website: www.cps-hull.co.uk

Certificate No. 1170PIb to LPS 1500 Issue 2

Company assessed and approved for installation of fire resisting compartmentation systems approved by LPCB to LPS 1208.

FK Construction Ltd

Keenan House, 22-26 Stockport Road, Altrincham WA15 8EX, United Kingdom

Tel: 01619261350

E-mail: jack.gale@fkgroup.co.uk • Website: www.fkgroup.co.uk

Certificate No. 1666PI to LPS 1500 Issue 2

assessed and approved for installation of fire resisting compartmentation systems approved by LPCB to LPS 1208.

G & A Fire Protection Ltd

Unit 2, Valley Way, Market Harborough LE16 7PS, United Kingdom

Tel: +44 (0) 1858 432222

E-mail: info@ga-group.com • Website: www.ga-group.com

Certificate No. 889PIb to LPS 1500: Issue 2

Company assessed and approved for installation of fire resisting compartmentation systems approved by LPCB to LPS 1208.

HIL Installations Limited

Unit 10 Coopers Point, Coopers Lane, Knowsley L33 7UB, United Kingdom

Tel: 0151 546 2111

E-mail: sales@hil-installations.com

Certificate No. 1575PI to LPS 1500 Issue 2

Company assessed and approved for installation of fire resisting compartmentation systems approved by LPCB to LPS 1208.

P&M Group Ltd trading as ISD

Unit A, 125 Business Park, Llanthony Road, Gloucester, Glos GL2 5JQ, United Kingdom

Tel: +44 (0) 1452 520649 • Fax: +44 (0) 1452 301910

E-mail: sales@isd-solutions.co.uk • Website: www.isd-solutions.co.uk

Certificate No. 1008PIa to LPS 1500 Issue 2

Company assessed and approved for installation of fire resisting compartmentation systems approved by LPCB to LPS 1208.

Stancold plc

Portview Road, Avonmouth, Bristol BS11 9LQ, United Kingdom

Tel: +44 (0)117 316 7000

E-mail: sales@stancold.co.uk • Website: www.stancold.co.uk

Certificate No. 1257PI to LPS 1500: Issue 2

Company assessed and approved for installation of fire resisting compartmentation systems approved by LPCB to LPS 1208

PART 1: SECTION 1.2

LPS 1531 APPROVED INSTALLER OF PASSIVE FIRE PROTECTION PRODUCTS

The companies listed in this section are approved to install passive fire protection products for the Appendix areas indicated in their entry.

Appendix areas:

1. Penetration, cavity barrier and linear gap seals
2. Fire rated board and cladding to structural elements
3. Intumescent coatings to structural elements
4. Fire rated spray materials
5. Fire rated ductwork systems
6. Fire resisting dampers
7. Fire resistant compartment wall systems
8. Offsite application of intumescent coatings to structural elements

1 Fire Protection Ltd

11 Calypso House, 28 Cave Road, E13 9DX, United Kingdom

Tel: 07933008997

E-mail: info@1fireprotection.co.uk • Website: www.1fireprotection.co.uk

Certificate No. 1656PI to 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 1 - Penetration, cavity barrier and linear gap seals

123 Fire (a division of MB Plant Limited)

Swift House Business Centre, 16 High Street S43 3UX, United Kingdom

Tel: 0114 360 3213

E-mail: andrewbell@123fire.co.uk • Website: www.123fire.co.uk

Certificate No. 1133PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
Appendix 1 - Penetration, cavity barrier and linear gap seals
Appendix 2 - Fire rated board and cladding to structural elements
Appendix 3 - Intumescent coatings to structural elements

A20 Limited

The Old Barn, Pump House Farm, Ongar Road, Kelvedon Hatch, Essex CM15 0LA, United Kingdom

Tel: 01277369555

E-mail: Martin.Coupe@a2ogroup.co.uk • Website: www.a2ocladding.co.uk

Certificate No. 1520PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 1 - Penetration, cavity barrier and linear gap seals
- Appendix 2 - Fire rated board and cladding to structural elements

Abbey Thermal Insulation Ltd

Unit 14 Capricorn Centre, Cranes farm Road, Basildon, Essex SS14 3JJ, United Kingdom

Tel: +44 (0) 1268 572116 • Fax: +44 (0) 1268 572117

E-mail: robert.stubbs@abbeythermal.com

Certificate No. 1014PI to LPS 1531: Issue 1

Company assessed and approved for installation of passive fire protection products under the following scope.

Appendix 1 - Penetration, cavity barrier and linear gap seals.
Appendix 2 - Fire rated board and cladding to structural elements.
Appendix 3 - Intumescent coatings to structural elements.
Appendix 5 - Fire rated ductwork systems.

Abbot Fire Group Limited

Abbots Barn, Radcliffe Road, Gawcott, Buckingham MK18 4AA, United Kingdom

Tel: +44 (0)1280 824111

E-mail: admin@abbotfiregroup.co.uk

Certificate No. 586PI to LPS 1531: Issue 1

Appendix 1 - Penetration, cavity barriers and linear gap seals

Absolute Fire Safety Ltd

Colmworth Business Park, 4 Eaton Ct, Saint Neots, PE19 8ER, United Kingdom

Tel: 075005988527

E-mail: simon@absolutefiresafety.co.uk • Website: www.absolutefiresafety.co.uk

Certificate No. 1594PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 1 - Penetration, cavity barrier and linear gap seals

AC Ventilation Solutions Ltd

Unit 5 Ringside Business Park, Heol-y-Rhosog, Cardiff CF3 2EW, United Kingdom

Tel: 02920 028 032 • Fax: 02920 364 169

E-mail: steve@acvsLtd.co.uk

Certificate No. 1625PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 6 - Fire resisting dampers
- Appendix 5 - Fire rated ductwork systems

Adaptive Fire Protection Limited

136 Boden Street, Glasgow G40 3PX, United Kingdom

Tel: 0141 556 7720

E-mail: steven.elliott@adaptivefpltd.com

Certificate No. 1316PI to LPS 1531: Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
Appendix 1 - Penetration, cavity barrier and linear gap seals
Appendix 2 - Fire rated board and cladding to structural elements

AFA (NI) Ltd

Unit 13 McKibbin House, East Bank Road, Carryduff, Belfast BT8 8BD, United Kingdom

Tel: 08290 815090

E-mail: Firestopped@aol.com

Certificate No. 1487PI to LPS 1531: Issue 1

PART 1: SECTION 1.2

LPS 1531 APPROVED INSTALLER OF PASSIVE FIRE PROTECTION PRODUCTS

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 1 - Penetration, cavity barrier and linear gap seals
- Appendix 3 - Intumescent coatings to structural elements

AIRFAB (Manufacturing) Ltd

10 Mount Road, Feltham, Middlesex TW13 6AR, United Kingdom
Tel: 020 8755 1375
E-mail: enquiries@airfab.co.uk

Certificate No. 1672PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 5 - Fire rated ductwork systems
- Appendix 6 - Fire resisting dampers

Airwaves-pfp

76 Broomfield Avenue, Hasland, Chesterfield, Derbyshire S41 0ND, United Kingdom
Tel: 07815 562965
E-mail: richard@airwaves-pfp.co.uk • Website: www.airwaves-pfp.co.uk

Certificate No. 1650PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 1 - Penetration, cavity barrier and linear gap seals

Aran Fire Protection Ltd

Units 1-6, The Old Station, Higham, Bury St Edmunds, Suffolk IP28 6NE, United Kingdom
Tel: 01284 812 813
E-mail: richard.spearman@aranfireprotection.co.uk • Website: www.aranservices.co.uk

Certificate No. 1643PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 1 - Penetration, cavity barrier and linear gap seals
- Appendix 2 - Fire rated board and cladding to structural elements
- Appendix 3 - Intumescent coatings to structural elements

ASM Engineering Ltd

74 Wilbury Way, Hitchin, Hertfordshire SG4 0TP, United Kingdom
Tel: 01462 477360
E-mail: office@asmeng.co.uk • Website: www.asmeng.co.uk

Certificate No. 1546PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 5 - Fire rated ductwork systems

Avert Fire (UK) Ltd

P O Box 248, Dawes lane, Scunthorpe DN16 1DW, United Kingdom
Tel: +44 (0)1724 853712 • Fax: +44 (0)1724 278848
E-mail: admin@avertfire.co.uk • Website: www.avertfire.co.uk

Certificate No. 850PI to LPS 1531: Issue 1

Company assessed and approved for installation of passive fire protection products under the following scope.

Appendix 1 - Penetration, cavity barriers and linear gap seals.
Appendix 2 - Fire rated board and cladding to structural elements
Appendix 7 - Fire resistant compartment wall systems

Bellwood Interiors Limited

Bellwood House, No 17 - Barton Industrial Estate, Faldo Road, Barton-Le-Clay, Bedfordshire MK45 4RP, United Kingdom

Tel: 01582 882278

E-mail: sales@bellwoodinteriors.com • Website: bellwoodinteriors.com

Certificate No. 1425PI to LPS 1531: Issue 1

Appendix 1 - Penetration, cavity barrier and linear gap seals
Appendix 7 - Fire resistant compartment wall systems

Borley Engineering Services Ltd t/a CMB Engineering

1 Alexandra Gate, Ffordd Pengam, Cardiff CF24 2SA, United Kingdom

Tel: 02920 360 434

E-mail: dwilliams@cmbeng.co.uk • Website: www.cmbengineering.co.uk

Certificate No. 1647PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

- Appendix 5 - Fire rated ductwork systems
 - Appendix 6 - Fire resisting dampers
-

Buildzone UK Limited

2nd Floor, Hampton House, Middleton, Manchester M24 1GT, United Kingdom

Tel: 0843 212 0031

E-mail: Jamie.rother@buildzoneuk.com

Jamie.rother@buildzoneuk.com • Website: www.buildzoneuk.com

Certificate No. 1399PI to LPS 1531: Issue 1

Appendix 1 - Penetration, cavity barrier and linear gap seals

Castle Hill Fire Protection Limited

Riverside House, 160 High Street, Huntingdon, Cambridgeshire PE29 3TF, United Kingdom

Tel: 01480 400632

E-mail: andy.stubbs@chfire.co.uk • Website: www.castlehillfireprotection.co.uk

Certificate No. 1274PI to LPS 1531: Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

- Appendix 1 - Penetration, cavity barrier and linear gap seals
- Appendix 3 - Intumescent coatings to structural elements

PART 1: SECTION 1.2

LPS 1531 APPROVED INSTALLER OF PASSIVE FIRE PROTECTION PRODUCTS

Checkmate Fire Solutions Ltd

Cambridge House, Cambridge Road, Harlow, Essex CM20 2EQ, United Kingdom

Tel: +44 (0) 1279 850021

E-mail: info@checkmatefire.com • Website: www.checkmatefire.com

Certificate No. 860PI to LPS 1531: Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

- Appendix 1 - Penetration, cavity barrier and linear gap seals
 - Appendix 2 - Fire rated board and cladding to structural elements
 - Appendix 3 - Intumescent coatings to structural elements
 - Appendix 7 - Fire resistant compartment wall systems
-

Checkmate Fire Solutions Ltd

2nd Floor, Rosemount House, Rosemount Estate, Huddersfield Road, Elland, West Yorkshire HX5 0EE, United Kingdom

Tel: +44 (0) 1422 376436

E-mail: info@checkmatefire.com • Website: www.checkmatefire.com

Certificate No. 860PI to LPS 1531: Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

- Appendix 1 - Penetration, cavity barrier and linear gap seals
 - Appendix 2 - Fire rated board and cladding to structural elements
 - Appendix 3 - Intumescent coatings to structural elements
 - Appendix 7 - Fire resistant compartment wall systems
-

City Gate Construction (Scotland) Limited

Unit 3, Imperial Park, West Avenue, Linwood, Renfrewshire, Scotland PA1 2FB, United Kingdom

Tel: 01415616500

E-mail: Ronnie@citygateglobe.com • Website: www.citygateconstruction.co.uk

Certificate No. 1493PI to LPS 1531: Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

- Appendix 1 - Penetration, cavity barrier and linear gap seals
-

Clark & Fenn Skanska Limited

1st Floor, Hollywood House, Church Street, Woking, Surrey GU21 6HJ, United Kingdom

Tel: +44 (0) 1923 722700 • Fax: + 44 (0) 1923 725984

E-mail: Derek.Bennett@skanska.co.uk • Website: www.skanska.co.uk/services/ceilings-and-plasterwork

Certificate No. 1180PI to LPS 1531: Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

- Appendix 1 - Penetration, cavity barrier and linear gap seals

Clear Line Maintenance Ltd

Rawson Spring Way, Sheffield, S6 1PG, United Kingdom

Tel: 01142 315444

E-mail: Hannah.harrison@clear-line.co.uk • Website: www.clear-line.co.uk

Certificate No. 1446PI to LPS 1531 Issue 1

Appendix 1 - Penetration, cavity barrier and linear gap seals

Cleshar Contract Services Ltd

Heather Park House, North Circular road, Stonebridge, London NW10 7NN, United Kingdom

Tel: +44 (0) 20 8733 8888 • Fax: +44 (0) 20 8733 8899

E-mail: chris.carter@cleshar.co.uk • Website: www.cleshar.co.uk

Certificate No. 1525PI to LPS 1531: Issue 1

Company assessed and approved for installation of passive fire protection products under the following scope.

Appendix 1 - Penetration, cavity barriers and linear gap seals

Cold Clad Limited

Sarnia House, Green Lane, Newtown Trading Estate, Tewkesbury, Gloucestershire GL20 8HD, United Kingdom

Tel: 01684 438190 • Fax: 01684 217610

E-mail: info@coldclad.com • Website: www.coldclad.com

Certificate No. 1169PIa to LPS 1531: Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

Appendix 1 - Penetration, cavity barrier and linear gap seals

Appendix 3 - Intumescent coatings to structural elements

Composite Panel Services Limited

Unit 3, Pennington Street, Hull, East Yorks HU8 7LE, United Kingdom

Tel: 01482 620277 • Fax: 01482 587121

E-mail: andrewmiller@cps-hull.co.uk • Website: www.cps-hull.co.uk

Certificate No. 1170PIa to LPS 1531 Issue 1

Company assessed and approved for installation of passive fire protection products under the following scope.

Appendix 1 - Penetration, cavity barrier and linear gap seals

Appendix 7 - Fire resistant compartment wall systems

Core Drilling Specialists Ltd

Core Drilling House, Unit 9, Inchcross Industrial Estate, Bathgate, EH48 2HR, United Kingdom

Tel: 01506 637840

E-mail: admin@coredrilling.co.uk • Website: www.coredrilling.co.uk

Certificate No. 1447PI to LPS 1531: Issue 1

Appendix 1 - Penetration, cavity barrier and linear gap seals

PART 1: SECTION 1.2

LPS 1531 APPROVED INSTALLER OF PASSIVE FIRE PROTECTION PRODUCTS

Corecut Fire Protection (a division of Corecut Limited)

Bankhead, Broxburn, West Lothian EH52 6PP, United Kingdom

Tel: +44 (0) 1506 854710 • Fax: +44 (0) 1506 853068

E-mail: office@corecut.co.uk • Website: www.corecut.co.uk

Certificate No. 1028PI to LPS 1531: Issue 1

Company assessed and approved for installation of passive fire protection products under the following scope.

Appendix 1 - Penetration, cavity barriers and linear gap seals.

Appendix 3 - Intumescent coatings to structural elements.

CSL Associates Ltd

Unit 11 Sherwood Road, Aston Fields Industrial Estate, Bromsgrove B60 3DR, United Kingdom

Tel: 01527 878 786

E-mail: Peter.twist@csl-associates.com

Certificate No. 1612PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

- Appendix 1 - Penetration, cavity barrier and linear gap seals

CVD Fire Protection Ltd

Lawmuir Road, Law, Carluke, South Lanarkshire ML8 5JB, United Kingdom

Tel: +44 (0) 845 450 1601 • Fax: +44 (0) 845 450 1602

E-mail: info@cvsfire.co.uk • Website: www.cvsfire.co.uk

Certificate No. 1009PI to LPS 1531 Issue 1

Company assessed and approved for installation of passive fire protection products under the following scope.

Appendix 1 - Penetration, cavity barriers and linear gap seals

Appendix 2 - Fire rated board and cladding to structural elements

Appendix 3 - Intumescent coatings to structural elements

DC Fire Protection Limited

Unit 18, Enterprise Road, Raunds, Northants NN9 6JE, United Kingdom

Tel: 01933633747

E-mail: info@dcfireprotectionltd.org.uk • Website: www.dcfireprotectionltd.com

Certificate No. 1394PI to LPS 1531: Issue 1

Appendix 1 - Penetration, cavity barrier and linear gap seals

Ductclean (UK) Limited

1 Woodfield Road, Welwyn Garden City, Hertfordshire AL7 1JQ, United Kingdom

Tel: 0870 1129196 • Fax: 0870 112 9197

E-mail: jamie.carraher@dcukfm.com • Website: www.ductclean.co.uk

Certificate No. 1276PIb to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

- Appendix 1 - Penetration, cavity barrier and linear gap seals

- Appendix 7 - Fire resistant compartment wall systems

E&S Heating & Ventilation Ltd

Diplocks Way, Hailsham, East Sussex BN27 3JF, United Kingdom
Tel: +44 (0) 1323 845492 • Fax: +44 (0) 1323 440577
E-mail: emmacollins@esgroup.co.uk • Website: www.esgroup.co.uk

Certificate No. 1013PI to LPS 1531: Issue 1

Company assessed and approved for installation of passive fire protection products under the following scope.

Appendix 5 - Fire rated ductwork systems.

Fire Protection Limited

Flamebar House, South Road, Templefields, Harlow, Essex CM20 2AR, United Kingdom
Tel: +44 (0)1279 634 230 • Fax: +44 (0)1279 634 231
E-mail: alankinnear@fireprotection.co.uk • Website: www.fireprotection.co.uk

Certificate No. 277b to LPS 1531: Issue 1

Company assessed and approved for installation of passive fire protection products under the following scope:

Appendix 5 - Fire rated ductwork systems.

Fire Risk Management Associates

Townsend Farm, 11 High Street, Upwood, Cambridgeshire PE26 2QE, United Kingdom
Tel: +44 (0) 1487 479363
E-mail: joe.ruane@frmaltd.com • Website: www.frmaltd.co.uk

Certificate No. 1412PIa to LPS 1531: Issue 1

Appendix 1 - Penetration, cavity barrier and linear seal gaps

Fireclad Ltd

1st Floor Romy House, 163-167 Kings Road, Brentwood, Essex CM14 4EG, United Kingdom
Tel: 0207 628 6500
E-mail: info@fireclad.com • Website: www.fireclad.com

Certificate No. 1563PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 1 - Penetration, cavity barrier and linear gap seals

Flame Retain Ltd

1A The Yeates Centre, Dunboyne, Co Meath, Ireland
Tel: + 353 (1) 961 9380
E-mail: simon@flameretain.ie • Website: www.flameretain.ie

Certificate No. 1610PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 1 - Penetration, cavity barrier and linear gap seals

PART 1: SECTION 1.2

LPS 1531 APPROVED INSTALLER OF PASSIVE FIRE PROTECTION PRODUCTS

G & A Fire Protection Ltd

Unit 2, Valley Way, Market Harborough LE16 7PS, United Kingdom

Tel: +44 (0) 1858 432222

E-mail: info@ga-group.com • Website: www.ga-group.com

Certificate No. 889PIa to LPS 1531: Issue 1

Company assessed and approved for installation of passive fire protection products under the following scope.

Appendix 1 - Penetration, cavity barriers and linear gap seals

Appendix 2 - Fire rated board and cladding to structural elements

Appendix 3 - Intumescent coatings to structural elements

Gardner & Co (Kent) Ltd

1 - 5 Bermondsey Street, London SE1 2ER, United Kingdom

Tel: 020 7403 5894 • Fax: 020 7378 0316

E-mail: enquiries@gardnerco.net • Website: www.gardnerco.net

Certificate No. 1040PI to LPS 1531: Issue 1

Company assessed and approved for installation of passive fire protection products under the following scope.

Appendix 5 - Fire rated ductwork systems.

Gardner FRD Ltd

1-5 Bermondsey Street, London SE1 2ER, United Kingdom

Tel: 0207 403 5894

E-mail: mark.duguid@gardnerco.net

Certificate No. 1473PI to LPS 1531 : Issue 1

Appendix 5 - Fire rated duct systems

GBS Fire Protection Limited

Unit 16 Manor Way Business Centre, Marsh Way, London, Essex RM138UG, United Kingdom

Tel: 07544 304471

E-mail: info@gbsfirepro.co.uk • Website: www.gbsfirepro.co.uk

Certificate No. 1437PI to LPS 1531 - Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

Appendix 1 - Penetration, cavity barrier and linear gap seals

Appendix 2 - Fire rated board and cladding to structural elements

Appendix 3 - Intumescent coatings to structural elements

Appendix 4 - Fire rated spray materials

Geoffrey Robinson Limited

Macklin Avenue, Cowpen Industrial Estate, Billingham TS23 4ET, United Kingdom

Tel: 01642370500 • Fax: 01642370600

E-mail: enquiry@geoffreyrobinson.co.uk • Website: www.geoffreyrobinson.co.uk

Certificate No. 1556PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 1 - Penetration, cavity barrier and linear gap seals

GSH (South West Consultancy) Ltd

Unit 17 Bridgwater Court, Oldmixon Crescent, Weston Super Mare BS24 9AY, United Kingdom

Tel: 0333 456 4646

E-mail: info@gshprojects.co.uk • Website: www.gshprojects.co.uk

Certificate No. 1561PIa to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 1 - Penetration, cavity barrier and linear gap seals
- Appendix 7 - Fire resistant compartment wall systems

Gunfire Trading Divison of Gunite (Eastern) Limited

Endeavour House, Compass Point, St Ives, Cambridgeshire PE27 5JL, United Kingdom

Tel: +44 (0)1480 466880 • Fax: +44 (0)1480 467151

E-mail: christine.morris@gunfire.org.uk • Website: www.gunite.co.uk

Certificate No. 848PI to LPS 1531: Issue 1

Company assessed and approved for installation of passive fire protection products under the following scope.

Appendix 1 - Penetration, cavity barriers and linear gap seals.

Appendix 3 - Intumescent coatings to structural elements.

Appendix 4 - Fire rated spray materials

Holemasters Fire Protections Ltd

114 Main Street, Chapelhall, Airdrie, Lanarkshire ML6 8SB, United Kingdom

Tel: 0845 467 1500 • Fax: 0845 467 1700

E-mail: david@holemasters-scotland.co.uk • Website: www.holemasters-scotland.co.uk

Certificate No. 1314PI to LPS 1531: Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
Appendix 1 - Penetration, cavity barrier and linear gap seals
- Appendix 2 - Fire rated board and cladding to structural elements

Hollmark Ltd

Unit 2 Falcon Park, Lucklyn Lane, Basildon, Essex SS14 3AL, United Kingdom

Tel: 01277 626101

E-mail: Kate@hollmark.co.uk • Website: www.hollmark.co.uk

Certificate No. 1535PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 1 - Penetration, cavity barrier and linear gap seals

Hotchkiss Limited

7 Marshall Road, Hampden Park Industrial Estate, Eastbourne BN22 9AX, United Kingdom

Tel: 01323 501234 • Fax: 01323 508752

E-mail: info@hotchkiss.co.uk • Website: www.hotchkiss.co.uk

Certificate No. 1667PI to LPS 1531 Issue 1

PART 1: SECTION 1.2

LPS 1531 APPROVED INSTALLER OF PASSIVE FIRE PROTECTION PRODUCTS

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 5 - Fire rated ductwork systems

Imperial Ductwork Services Ltd

Roxby House 1st Floor, 20-22 Station Road, Sidcup, Kent DA15 7EJ, United Kingdom

Tel: 020 8309 6699 • Fax: 020 8309 6688

E-mail: john.smith@imperialductwork.co.uk • Website: www.imperialductwork.co.uk

Certificate No. C1654PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 5 - Fire rated ductwork systems
- Appendix 6 - Fire resisting dampers

Jodam Construction Ltd

Unit 11 Building 2 Innovation Way, Wilthorpe, Barnsley S75 1JL, United Kingdom

Tel: 07565205273 / 07500113329

E-mail: Adamw.jodam@gmail.com / Joe.jodam@gmail.com • Website: jodamconstruction.co.uk

Certificate No. 1679PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 1 - Penetration, cavity barrier and linear gap seals
- Appendix 2 - Fire rated board and cladding to structural elements
- Appendix 7 - Fire resistant compartment wall systems

JPM Fire Protection Limited

12 Bull Lane, Dagenham, Essex RM10 7HA, United Kingdom

Tel: 020 8595 1166 • Fax: 020 8592 8439

E-mail: Elicia.martinjpmfireproltd@aol.co.uk

Certificate No. 1190PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

Appendix 1 - Penetration, cavity barrier and linear gap seals

JTL Fire Limited

Unit 11 LDL Business Park, Station Road West, Ash Vale, Surrey GU12 5RT, United Kingdom

Tel: 01252 545741

E-mail: enquiries@jtlfire.co.uk • Website: www.jtlfire.co.uk

Certificate No. 1416PI to LPS 1531: Issue 1

Appendix 1 - Penetration, cavity barrier and linear gap seals
Appendix 3 - Intumescent coatings to structural elements

L and M Ventilation Ltd

Unit 2 Darren Drive, Prince if Wales Estate, Abercarn, Newport, Gwent NP11 5AR, United Kingdom

Tel: 01495 237713

E-mail: iangulliford@landmvent.co.uk

Certificate No. 1653PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

- Appendix 6 - Fire resisting dampers

LE-Partitions Limited

43 Shepherds Walk, Cricklewood, London NW2 7BS, United Kingdom

Tel: 07957 637986

E-mail: mreece@le-partitions.com

Certificate No. 1197PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

Appendix 1 - Penetration, cavity barrier and linear gap seals

Appendix 7 - Fire resistant compartment wall systems

Loftus Construction Solutions Limited

Arquen House, Spicer Sreet, St Albans, Herts AL3 4PQ, United Kingdom

Tel: 0203 488 0498

E-mail: Paul@loftusconstruction.co.uk • Website: www.loftusconstruction.co.uk

Certificate No. 1398PI to LPS 1531: Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

- Appendix 1 - Penetration, cavity barrier and linear gap seals

- Appendix 3 - Intumescent coatings to structural elements

Lynco/Lynco Facades Ltd

Unit 2, Plasketts Close, Killybeggs Business Park, Antrim, N. Ireland BT41 4LY, United Kingdom

Tel: 0289 4477800

E-mail: info@lyncoltd.com • Website: www.lyncoltd.com

Certificate No. 1317PI to LPS 1531: Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

Appendix 1 - Penetration, cavity barrier and linear gap seals

Map Ventilation Limited

Hanwiz House, Milner Way, Ossett, Wakefield WF5 9JG, United Kingdom

Tel: 01924 278175 • Fax: 01924 278126

E-mail: info@mapventilation.co.uk • Website: www.mapventilation.co.uk

Certificate No. 1065PI to LPS 1531 Issue 1

Company assessed and approved for installation of passive fire protection products under the following scope.

Appendix 5 - Fire rated ductwork systems

Mark Smith Drylining Ltd

40 Beach Road, Sand Bay, Weston Super Mare, North Somerset BS22 9UU, United Kingdom

Tel: 07885 580847

E-mail: marksmith462@btinternet.com

Certificate No. 1669PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

PART 1: SECTION 1.2

LPS 1531 APPROVED INSTALLER OF PASSIVE FIRE PROTECTION PRODUCTS

- Appendix 1 - Penetration, cavity barrier and linear gap seals
 - Appendix 7 - Fire resistant compartment wall systems
-

Middlesex Firestopping Limited

Darwin House, Bourne End Business Park, Cores End Road, Bourne End, Buckinghamshire SL8 5AS, United Kingdom

Tel: 01895 238818 • Fax: 01895 231018

E-mail: info@middlesexfirestoppingltd.co.uk • Website: www.middlesexltd.co.uk

Certificate No. 1344PI to LPS 1531: Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

- Appendix 1 - Penetration, cavity barrier and linear gap seals
 - Appendix 3 - Intumescent coatings to structural elements
-

MTM Passive Fire Protection Ltd

103 Taunton Road, Bridgewater, , Somerset TA6 6BD, United Kingdom

Tel: 07402 521293 / 07505 207884

E-mail: Carol.kennedy@m-t-m.co • Website: www.m-t-m.co

Certificate No. 1560PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

- Appendix 1 - Penetration, cavity barrier and linear gap seals
 - Appendix 3 - Intumescent coatings to structural elements
-

Nene Valley Fire and Acoustic Limited

Unit 11 Leyland Trading Estate, Irthlingborough, Northamptonshire NN8 1RS, United Kingdom

Tel: +44 (0) 1933 650650 • Fax: +44 (0) 1933 650001

E-mail: enquiries@nenevalleyfire.com • Website: www.nenevalleyfireandacoustic.com

Certificate No. 1021PI to LPS 1531: Issue 1

Company assessed and approved for installation of passive fire protection products under the following scope.

Appendix 1 - Penetration, cavity barrier and linear gap seals.

Neo Property Solutions Limited

Neo Court, Knowsthorpe Lane, Cross Green Industrial Estate, Leeds, West Yorkshire LS9 0PF, United Kingdom

Tel: 08434554455

Certificate No. 1539PIa to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

- Appendix 1 - Penetration, cavity barrier and linear gap seals
-

O'Mahony Contractors Ltd

60 Middle Road, Higher Denham, Buckinghamshire UB9 5EQ, United Kingdom

Tel: 01895 833553 • Fax: 01895 835003

E-mail: gary@omahonycontractors.com • Website: www.omahonycontractors.com

Certificate No. 914PI to LPS 1531: Issue 1

Company assessed and approved for installation of passive fire protection products under the following scope.

Appendix 1 - Penetration, cavity barriers and linear gap seals
Appendix 2 - Fire rated board and cladding to structural elements
Appendix 7 - Fire resistant compartment wall systems

P&M Group Ltd trading as ISD

Unit A, 125 Business Park, Llanthony Road, Gloucester, Glos GL2 5JQ, United Kingdom
Tel: +44 (0) 1452 520649 • Fax: +44 (0) 1452 301910
E-mail: sales@isd-solutions.co.uk • Website: www.isd-solutions.co.uk

Certificate No. 1008PIb to LPS 1531 Issue 1

Company assessed and approved for installation of passive fire protection products under the following scope.

Appendix 1 - Penetration, cavity barriers and linear gap seals.
Appendix 2 - Fire rated board and cladding to structural elements.
Appendix 7 - Fire resistant compartment wall systems.

Passive Fire Group Ltd

38 Tweeddale Grove, Uxbridge, London UB10 8TT, United Kingdom
Tel: 020 3432 3751
E-mail: warren@passivefiregroup.com • Website: www.passivefiregroup.com

Certificate No. 1637PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 1 - Penetration, cavity barrier and linear gap seals

PFP Fire Systems Ireland Limited

DO Centre, Block B, Maynooth Business Centre, Straffan Road, Maynooth, Co Kildare W23 W5X7, Ireland
Tel: +353 (1) 541 3763
E-mail: cbarry@pfp-ireland.ie • Website: www.pfp-ireland.ie

Certificate No. 1407PI to LPS 1531: Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 1 - Penetration, cavity barrier and linear gap seals
- Appendix 2 - Fire rated board and cladding to structural elements
- Appendix 3 - Intumescent coatings to structural elements

Prestige Fire Door Services trading as Sunray Timber Doors Division

Unit 6 Wotton Trading Estate, Wotton Road, Ashford, Kent TN23 6LL, United Kingdom
Tel: +44 (0)1252 645534 • Fax: +44 (0)1252 678742
E-mail: sales@prestigefiredoorservices.com • Website: www.prestigefiredoorservices.com

Certificate No. 1066PIa to LPS 1531: Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
Appendix 1 - Penetration, cavity barrier and linear gap seals
Appendix 7 - Fire resistant compartment wall systems

PART 1: SECTION 1.2

LPS 1531 APPROVED INSTALLER OF PASSIVE FIRE PROTECTION PRODUCTS

Prime Fire Limited

1 Moorgate House First Floor, 5-8 Dysart Street, London EC2A 2BX, United Kingdom

Tel: 07802606849

E-mail: daniel@primefirestopping.com • Website: www.primefirelimited.com

Certificate No. 1633PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

- Appendix 1 - Penetration, cavity barrier and linear gap seals

Prospect Fire Ltd

Unit 1 Woodgate's Farm, Woodgate's End, Dunmow, CM6 2BN, United Kingdom

Tel: 01279 354988

E-mail: info@prospectfire.co.uk • Website: www.prospectfire.co.uk

Certificate No. 1631PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

- Appendix 1 - Penetration, cavity barrier and linear gap seals
- Appendix 2 - Fire rated board and cladding to structural elements

Qualifire Ltd

Unit 3, 8 Bowerwalls Place, Barrhead, East Renfrewshire G78 1BF, United Kingdom

Tel: 0141 354 8979 • Fax: a

E-mail: enquiries@qualifire.co.uk • Website: www.qualifire.co.uk

Certificate No. 1601PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

- Appendix 1 - Penetration, cavity barrier and linear gap seals
- Appendix 2 - Fire rated board and cladding to structural elements

R Lewis & Co. (UK) Ltd

Unit 7 and 8, Parklands Industrial Estate, East Moors Road, Cardiff CF24 5JP, United Kingdom

Tel: +44 (0) 2920 215716

E-mail: craig@rlewisfire.com • Website: www.rlewisandcoukLtd.com

Certificate No. 1006PI to LPS 1531: Issue 1

Company assessed and approved for installation of passive fire protection products under the following scope.

Appendix 1 - Penetration, cavity barriers and linear gap seals.
Appendix 3 - Intumescent coatings to structural elements.

R1 Fire Pro Limited

Suite 6, BRUK, Milner Road, Chilton Ind Est, Sudbury, Suffolk CO10 2XG, United Kingdom

Tel: 01440 709050

E-mail: sales@r1fire.co.uk • Website: www.r1fire.co.uk

Certificate No. 1233PI to LPS 1531: Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:

Appendix 1 - Penetration, cavity barrier and linear gap seals
Appendix 2 - Fire rated board and cladding to structural elements
Appendix 3 - Intumescent coatings to structural elements

RA Fire Protection Limited

Unit B5, The Business Centre, Bow Bridge Close, Rotherham, S60 1BY, United Kingdom
Tel: 01709 830366
E-mail: john@rafireprotection.co.uk

Certificate No. 1382PI to LPS 1531: Issue 1

Appendix 1 - Penetration, cavity barrier and linear gap seals

Richard Kemble Contracts Limited

Unit 5, Waterside Business Park, Lamby Way, Rumney, Cardiff CF3 2ET, United Kingdom
Tel: 029 20790372 • Fax: 029 20790523
E-mail: mathew@richardkemblecontracts.co.uk • Website: www.richardkemblecontracts.co.uk

Certificate No. 1615PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 1 - Penetration, cavity barrier and linear gap seals

SMR Interiors Ltd

Unit 2 Thornfield, Cross Street, Rotherham S66 2SA, United Kingdom
Tel: 07940 161 699
E-mail: lee.smith@smrinteriorsltd.com

Certificate No. 1634PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 1 - Penetration, cavity barrier and linear gap seals

Stancold plc

Portview Road, Avonmouth, Bristol BS11 9LQ, United Kingdom
Tel: +44 (0)117 316 7000
E-mail: sales@stancold.co.uk • Website: www.stancold.co.uk

Certificate No. 1257PIa to LPS 1531: Issue 1

Appendix 1 - Penetration, cavity barrier and linear gap seals

Stopfire Ltd

Units 22, 23, 24 & 32 Dryden Road, Loanhead, Midlothian EH20 9LZ, United Kingdom
Tel: +44(0)131 448 0555 • Fax: +44(0)131 448 0556
E-mail: mail@stopfire.net • Website: www.stopfireltd.com

Certificate No. 862PI to LPS 1531: Issue 1

Company assessed and approved for installation of passive fire protection products under the following scope.

Appendix 1 - Penetration, cavity barriers and linear gap seals
Appendix 2 - Fire rated board and cladding to structural elements
Appendix 3 - Intumescent coatings to structural elements

PART 1: SECTION 1.2

LPS 1531 APPROVED INSTALLER OF PASSIVE FIRE PROTECTION PRODUCTS

Thermal Engineering Contracts Ltd

38 Whitehouse Street, Leeds LS10 1AD, United Kingdom
Tel: +44(0) 1132 430254 • Fax: +44(0) 5603 430284
E-mail: info@tecl.uk.com • Website: www.tecl.uk.com

Certificate No. 963PI to LPS 1531: Issue 1

Company assessed and approved for installation of passive fire protection products under the following scope.

Appendix 1 - Penetration, cavity barriers and linear gap seals.
Appendix 2 - Fire rated board and cladding to structural elements.
Appendix 3 - Intumescent coatings to structural elements

Total Protection (Fire & Sealing) Solutions Ltd

The Coach House, West Hanningfield Road, Baddow Park, Chelmsford, Essex CM2 7SY, United Kingdom
Tel: 01277 841415 • Fax: 01277 829716
E-mail: Ross@totalprotection.co.uk • Website: www.totalprotection.co.uk

Certificate No. 1375PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
Appendix 1 - Penetration, cavity barrier and linear gap seals
Appendix 3 - Intumescent coatings to structural elements

UK Vent Ltd

1A Main Street, West Wilts Trading Estate, Westbury, , Wiltshire BA13 4JU, United Kingdom
Tel: 01225 710 268
E-mail: info@ukvent.co.uk • Website: www.ukvent.co.uk

Certificate No. 1678PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 5 - Fire rated ductwork systems
- Appendix 6 - Fire resisting dampers

V & C Ventilation Ltd

Unit 24 Severnside Trading Estate, Sudmeadow Road, Hempstead, Gloucester GL2 5HS, United Kingdom
Tel: 01452 415 236 • Fax: 01452 309 324
E-mail: benvye@vcinstallation.plus.com

Certificate No. 1649PI to LPS 1531 Issue 1

Company assessed and approved for installing or applying passive fire protection products under the following scope:
- Appendix 5 - Fire rated ductwork systems
- Appendix 6 - Fire resisting dampers

Yuanda (UK) Co Ltd

South Quay Building 1st Floor, 77 Marsh Wall, London E14 9SH, United Kingdom
Tel: +44 (0)207 562 7703
E-mail: Luis.goncalves@yuanda-europe.com • Website: www.yuanda-europe.com

Certificate No. 1501PI to LPS 1531: Issue 1

Appendix 1 - Penetration, cavity barriers and linear gap seals

Well maintained ductwork is essential to the good maintenance of buildings. It is crucial in reducing the fire risk within ductwork, in particular kitchen extract systems where grease and cooking oils, if allowed to build up, can present a significant hazard.

Using a company certified to the LPS 2084 standard will give clients the assurance that the cleaning and maintenance of their ductwork systems has been carried out to industry recognised standards and provide evidence of compliance with the law. This evidence will be crucial when seeking out buildings insurance.

LPS 2084 *Requirements for the LPCB approval and listing of companies carrying out inspection, cleaning and maintenance of ductwork systems* defines the requirements for these works.

Using a company certified to LPS 2084 will give clients the assurance that the cleaning and maintenance of their ductwork systems has been carried out correctly.

Bright Hygiene

Unit 7, Sarbit Industrial Park, Cambridge Road, Harlow, Essex CM20 2EU, United Kingdom

Tel: 0800 093 7840

E-mail: fran@brighthygiene.co.uk • Website: <http://www.brighthygiene.co.uk/>

Certificate No. 1507PI to LPS 2084 - Issue 1

Ductbusters Limited

Mortimer Hall, 1 Birmingham Road, Kidderminster, Worcestershire DY10 2BX, United Kingdom

Tel: 0121 559 1555

E-mail: enquiries@ductbusters.co.uk • Website: www.ductbusters.co.uk

Certificate No. 1445PI to LPS 2084: Issue 1

Ductclean (UK) Limited

1 Woodfield Road, Welwyn Garden City, Hertfordshire AL7 1JQ, United Kingdom

Tel: 0870 1129196 • Fax: 0870 112 9197

E-mail: jamie.carraher@dcukfm.com • Website: www.ductclean.co.uk

Certificate No. 1276PIa to LPS 2084 - Issue 1

Overclean Limited

2 Flightway, Dunkeswell, Honiton, Devon EX14 4RD, United Kingdom

Tel: 01404 41333

E-mail: enquiries@overclean.co.uk • Website: www.overclean.co.uk

Certificate No. 1431PI to LPS 2084 - Issue 1

PART 1: SECTION 2

CONSTRUCTION PRODUCT SYSTEMS (BUILDING ENVELOPE, ROOFING & PARTITIONS)

This section includes the reaction to fire and fire resistance approval schemes for construction systems including building envelope, roofing and partitions.

This section includes:

Section 2.1	LPS 1181 Series
Section 2.1.1	LPS 1181 Lining materials
Section 2.1.2	LPS 1181-1 Cladding products used for the external envelope of buildings.
Section 2.1.3	LPS 1181-2 Sandwich panels or built-up panel systems used internally in a building.
Section 2.1.4	LPS 1181-3 (Draft) Cladding used in POD construction
Section 2.2	LPS 1208 Composite construction elements
Section 2.3	LPS 1581 External cladding systems on a masonry substrate
Section 2.3.1	LPS 1581 External thermal insulated cladding (ETICS)
Section 2.3.2	LPS 1581 Rain screen cladding systems (RSC)
Section 2.4	LPS 1582 External cladding systems supported by a structural steel frame
Section 2.4.1	LPS 1582 External thermal insulated cladding (ETICS)
Section 2.4.2	LPS 1582 Rain screen cladding system (RSC)
Section 2.5	Roofing products
Section 2.5.1	Protection against fire outside of the building
Section 2.5.2	Protection against fire from inside the building
Section 2.6	Reaction to Fire (RTF) classifications for Materials and Products

The LPS 1181 series of fire growth standards cover the requirements for LPCB approval and listing of construction product systems. These standards evaluate the fire performance of sandwich panels, built-up cladding systems and other construction product systems to ensure they will not significantly contribute to fire growth in their defined end use applications as detailed in the following listings.

The use and application of the LPS 1181 standards are as follows:

- The LPS 1181 series of standards cover sandwich panels and built up cladding systems including jointing and fixing methods, sealants, gaskets and flashings.
- The LPS 1181 series of standards are used by the insurance industry for property protection purposes.
- The requirements of the Building Regulations are **not** addressed by the LPS 1181 series of standards.
- The Building Regulations define the life safety requirements for buildings.
- Approved Document B (produced by Communities and Local Government) provides guidance on meeting the requirements of the Building Regulations for fire safety and utilises the test data from the applicable BS 476 series and/or the EN 13501 series of standards.

The LPS 1181 series currently consists of the following parts:

LPS 1181: Part 1 *Requirements and tests for built-up cladding and sandwich panel systems for use as the external envelope of buildings* - See Section 2.1.2

LPS 1181: Part 2 *Requirements and tests for sandwich panels and built-up systems for use as internal constructions in buildings* - See Section 2.1.3

LPS 1181: Part 3 (Draft) *Requirements and tests for factory produced room modules (PODS) and building system modules* - See Section 2.1.4

Within the LPS 1181 series of standards there are a number of classifications and these are summarised as follows:

- Cladding systems used for the external envelope of buildings are tested to LPS 1181 part 1. Those products that pass the test are graded into 2 classes: -
 - Grade EXT-A** - A product that satisfies both the requirements of LPS 1181: Part 1 and also demonstrates fire resistance through a fire resistance test as specified in LPS 1208 (see section 2.2). Such products meet the requirements for separating elements used for compartmentation. (** represents in minutes, the LPCB grading of insulation achieved during the fire resistance tests).
 - EXT B - A product that satisfies the requirements of LPS 1181 part 1 only.
- Sandwich panels and built-up systems used internally in a building for the construction of cold stores, factory clean rooms, space separation etc are tested in the large-scale test in LPS 1181 part 2. Those products that pass the test are graded into 3 classes: -
 - INT 1 - A product that achieves a minimum fire resistance performance of integrity = 60 minutes and insulation = 60 minutes and passes the requirements of the LPS 1181 part 2 large-scale test with an enhanced thermal exposure.
 - INT 2 - A product that achieves a minimum fire resistance performance of integrity = 30 minutes and insulation = 30 minutes and passes the requirements of LPS 1181 part 2 large-scale test with a crib ignition source.
 - INT 3 - A product that passes the requirements of LPS 1181 part 2 large-scale test with a crib ignition source but has no fire resistance.

A guide to example applications with the potential inception risks and associated LPS 1181 classes (part 1 and 2) can be found in appendices 1, 3 and 4 of "Technical briefing: Fire performance of sandwich panel

PART 1: SECTION 2.1

LPS 1181 SERIES

systems” published by the Association of British Insurers in May 2003.

It is the responsibility of end users, whether they be specifiers, regulators, insurers, architects etc, to satisfy themselves that any performance claims made by the manufacturers are valid by reference to a relevant certificate, listing and/or test reports and that the product satisfies all the necessary regulatory and design requirements. This responsibility also extends to ensuring that the systems are installed correctly and in accordance with the manufacturer’s instructions.

LPS 1181: Part 1 *Requirements and tests for built-up cladding and sandwich panel systems for use as the external envelope of buildings.*

This standard determines the contribution to fire growth of built-up cladding and sandwich panel systems used as the external envelope of buildings.

The test is a large scale test comprising ignition of a wood crib within an open-ended enclosure, supported on a steel frame, from the sandwich panels or built-up cladding system. It evaluates the panels, the jointing methods and the supporting system including fixings, which gives an assessment of the true fire performance of the system which cannot be determined from traditional small scale reaction to fire tests, such as surface spread of flame or fire propagation tests.

Products that have passed the test and have achieved LPCB approval are graded under the following designations:-

Grade EXT-A** - A product that satisfies both the requirements of LPS 1181: Part 1 and also demonstrates fire resistance through a fire resistance test as specified in LPS 1208 (see section 2.2). Such products meet the requirements for separating elements used for compartmentation. (** represents in minutes, the LPCB grading of insulation achieved during the fire resistance tests).

Grade EXT-B - A product that satisfies the requirements of LPS 1181: Part 1 only.

A Steadman & Son (a Division of SIG Trading Limited)

Warnell, Welton, Carlisle, Cumbria CA5 7HH, United Kingdom
 Tel: +44 (0)16974 78277 • Fax: +44 (0)16974 78530
 E-mail: info@steadmans.co.uk • Website: www.steadmans.co.uk

Certificate No: 635a to LPS 1181 Part 1 Issue 1

Composite wall and ceiling panel

Product Name	LPCB Ref. No.
AS35/1000 PIR (roof panel)	635a/08
AS35/1000 PIR (wall panel)	
ASMR (wall panel)	635a/10

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

ArcelorMittal Construction Belgium NV

Lammerdries 8, Industrierrein Geel West Z4, B-2440 Geel, Belgium
 Tel: +32 14563943 • Fax: +32 14563952
 E-mail: dennis.debruyne@arcelormittal.com • Website: www.arcelormittal-construction.com/arvalbenelux

Certificate No: 939a to LPS 1181 Part 1: Issue 1.2

Composite Panels

Product Name	LPCB Ref. No.
Promisol S 1000 wall panel	939a/05
Ondatherm roof panel	939a/06
Promisol S 1000 wall panel	939a/07
Ondatherm 1001 TS roof panel	939a/08
Ondatherm 1001 TS/Archisol	939a/09

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 2.1.2

LPS 1181-1 CLADDING PRODUCTS USED FOR THE EXTERNAL ENVELOPE OF BUILDINGS

Brucha Ges.m.b.H

Rusterstrasse 33, A-3451, Michelhausen, Austria
Tel: +43 (2275) 5878 1800 • Fax: +43 (2275) 5875 1804
E-mail: office@bruch.at • Website: www.bruchapaneel.com

Certificate No: 900a to LPS 1181 Part 1: Issue 1

Product Name	LPCB Ref. No.
WP-F (wall and roof panels)	900a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

CA Group Limited

Evenwood Industrial Estate, Copeland Road, Evenwood, Co. Durham DL14 9SF, United Kingdom
Tel: +44 (0)1388 834242 • Fax: +44(0)1 388 830964
E-mail: technical@cagroup.ltd.uk • Website: www.cagroup.ltd.uk

Certificate No: 443a to LPS 1181 Part 1: Issue 1.2

Product Name	LPCB Ref. No.
Twin-Therm® Roof	443a/10
Twin-Therm® Wall	
River-Therm® Roof	443a/14
River-Therm® Wall	
Twin-Therm® Wall including SolarWall® or Prime Rainscreen	443a/15
Twin-Therm® FW15 FireWall	443a/17
Twin-Therm® FW15 FireWall including SolarWall® or Prime Rainscreen	443a/18
Twin-Therm® FW120 FireWall	443a/23
Twin-Therm® FW120 FireWall including SolarWall® or Prime Rainscreen	443a/24

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Euroclad Group Limited

Wentloog Corporate Park, Wentloog Road, Cardiff CF3 2ER, United Kingdom
Tel: +44 (0)2920 790722 • Fax: +44 (0)2920 793149
E-mail: sales@euroclad.com • Website: www.euroclad.com

Certificate No: 879a to LPS 1181 Part 1: Issue 1.2

Product Name	LPCB Ref. No.
Elite 1 (Roof System)	879a/05
Elite 2 (Roof System)	879a/06
Elite 3 (Roof System)	879a/07
Elite 4 (Roof System)	879a/08
Elite 51 (Wall System)	879a/09
Elite 52 (Wall System)	879a/10
Elite 53 (Wall System)	879a/11
Elite 54 (Wall System)	879a/12
Elite 55 (Wall System)	879a/13
Elite 56 (Wall System)	879a/14
Elite 57 (Wall System)	879a/15
Elite 58 (Wall System)	879a/16
Elite 60 (Wall System)	879a/17
Elite 50 (Wall System)	879a/18

PART 1: SECTION 2.1.2

LPS 1181-1 CLADDING PRODUCTS USED FOR THE EXTERNAL ENVELOPE OF BUILDINGS

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 545b to LPS 1181 Part 1: Issue 1

Product Name	LPCB Ref. No.
Europanel F5 (wall panel)	545b/01
Europanel S5 (wall panel)	545b/03
Europanel G12, G30 & G50	545b/04
Rockspan Extra (wall panel)	545b/05
Rockspan Lite (wall panel)	545b/06
Rockspan Ultima (wall panel)	545b/07
Rainspan Argeton	545b/08
Rainspan ACM	545b/09
Rainspan Parklex	545b/10
Rainspan Rockpanel	545b/11
Rainspan Corium	545b/12
Rainspan Norclad	545b/13
Rainspan Aerolite Granite	545b/15
Rainspan Aerolite Stonework	
Rainspan Ultralite	
Rainspan Urban Glass	545b/16

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Firth Steels Ltd

Calderbank, River Street, Brighouse, West Yorkshire HD6 1LU, United Kingdom

Tel: 014848 405958

E-mail: sam@firth-steels.co.uk • Website: www.firth-steels.co.uk

Certificate No: 1611a to LPS 1181 Part 1

Protex ® Roof and Wall System

Product Name	LPCB Ref. No.
Protex ® Roof System PRX-RS-01	1611a/01
Protex ® Roof System PRX-RS-02	1611a/02
Protex ® Roof System PRX-RS-03	1611a/03
Protex ® Roof System PRX-RS-04	1611a/04
Protex ® Wall System PRX-WS-01	1611a/05
Protex ® Wall System PRX-WS-02	1611a/06
Protex ® Wall System PRX-WS-03	1611a/07
Protex ® Wall System PRX-WS-04	1611a/08

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Hemsec Manufacturing Limited

Stoney Lane, Rainhill, Prescot, Merseyside L35 9LL, United Kingdom

Tel: +44 (0)151 426 7171 • Fax: +44 (0)151 493 1331

E-mail: sales@hemsec.com • Website: www.hemsec.com

Certificate No: 558b to LPS 1181 Part 1 Issue 1

Product Name	LPCB Ref. No.
Hemsec SIP (wall panel)	558b/05
	558b/06

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 2.1.2

LPS 1181-1 CLADDING PRODUCTS USED FOR THE EXTERNAL ENVELOPE OF BUILDINGS

Joris IDE N.V.

Hille 174, B-8750, Zwevezele, Belgium

Tel: +44 (0)1928 571 444 • Fax: +44 (0)1928 571 488

E-mail: division.export@joriside.co.uk • Website: www.joriside.co.uk

Certificate No: 700a to LPS 1181 Part 1: Issue 2

Product Name	LPCB Ref. No.
JI ROOF 2 1000 (wall panels)	700a/18
JI ROOF 2 1000 (roof panels)	700a/19
JI ROOF 2 1000 (wall panels)	700a/20
JI WALL SF1000 (wall panels)	700a/21
	700a/22
JI WALL TF1150 (wall panels)	700a/23
	700a/24

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Kingspan Ltd

Carrickmacross Road, Kingscourt, Co. Cavan, Ireland

Tel: +353 42 969 8572 • Fax: +353 42 969 8576/77

E-mail: info.irl@kingspanpanels.com • Website: www.kingspanpanels.com

Certificate No: 186a to LPS 1181-1 Issue 1

Product Name	LPCB Ref. No.
Kingspan KS1000 RW (wall panel)	186a/38
Kingspan KS1000 SF (wall panel)	186a/39
Kingspan KS1000 RW/FW30 (wall panel)	186a/40
Kingspan KS1000 SF/FW30 (wall panel)	186a/41
Kingspan KS1000 RW (roof and wall panel)	186a/42
Kingspan KS1000 SF (roof and wall panel)	186a/43
Kingspan KS1000 TS (roof panel)	186a/47
Kingspan KS600 -1200 MR, FL, FL-S, EB, WV, MM, CX, PL & KS1000 TL, Benchmark Louvre DW & Benchmark Curve DW (wall panel)	260a/36
Kingspan KS600 -1200 MR, FL, FL-S, EB, WV, MM, CX, PL & KS1000 TL, Benchmark Curve DW (wall panel)	260a/37
KS1000 Zip (roof panel)	260a/54
Kingspan KS600 -1000 MR, FL, FL-S, EB, WV, MM, CX, PL & KS1000 TL, (wall panel)	260a/64
Kingspan KS600 - 1000 LS - MR, FL, EB, WV, MM or CX profile options (wall panel)	260a/67
Kingspan KS2000 RW (roof panel)	260a/69
KS1000SRW (wall and roof panel)	260a/72
KS1000SRW (wall panel)	260a/74
Kingspan KS1000 TD (roof panel)	279a/29
Kingspan KS1000 EP Energi (wall and roof panel)	279a/30
Kingspan KS1000 FC (wall and roof panel)	279a/39
Kingspan KS1000 FC (wall panel)	279a/40
	279a/41
Kingspan KS1000 LP (roof panel)	279a/65
Kingspan KS1000 CR (roof panel)	279a/66

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 186f to LPS 1181-1 Issue 1

PART 1: SECTION 2.1.2

LPS 1181-1 CLADDING PRODUCTS USED FOR THE EXTERNAL ENVELOPE OF BUILDINGS

Product Name	LPCB Ref. No.
KingspanIPN QuadCore KS1000RW (roof panel)	186f/01
KingspanIPN QuadCore KS1000RW (wall panel)	186f/04
	186f/05
	186f/06
KingspanIPN QuadCore KS600 -1200 AWP, MR, FL, FL-S, EB, WV, MM, CX, PL, Optimo, Benchmark Evolution, KS1000 TL, Benchmark Louvre DW, Benchmark Curve DW (wall panel)	260f/02
KingspanIPN QuadCore KS1000 AWP (wall panel)	260f/07
KingspanIPN QuadCore KS1000AWP (wall panel)	260f/08
KingspanIPN QuadCore KS600 – 1200AB (roof/ceiling panel)	279f/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Kingspan Ltd.

Greenfield Business Park No. 2, Greenfield, Holywell, Flintshire CH8 7HU, United Kingdom

Tel: +44 (0)1352 716100 • Fax: +44 (0)1352 716161

E-mail: info@kingspanpanels.com • Website: www.kingspanpanels.com

Certificate No: 260a to LPS 1181-1 Issue 1

Product Name	LPCB Ref. No.
Kingspan KS1000 RW (wall panel)	186a/38
Kingspan KS1000 SF (wall panel)	186a/39
Kingspan KS1000 RW/FW30 (wall panel)	186a/40
Kingspan KS1000 SF/FW30 (wall panel)	186a/41
Kingspan KS1000 RW (roof and wall panel)	186a/42
Kingspan KS1000 SF (roof and wall panel)	186a/43
Kingspan KS1000 LJ (wall panel)	186a/44
Kingspan KS1000 LJ (roof panel)	186a/45
Kingspan KS1000 BU (roof and wall panel)	186a/46
Kingspan KS1000 TS (roof panel)	186a/47
Kingspan KS600 -1200 MR, FL, FL-S, EB, WV, MM, CX, PL & KS1000 TL, Benchmark Louvre DW & Benchmark Curve DW (wall panel)	260a/36
Kingspan KS600 -1200 MR, FL, FL-S, EB, WV, MM, CX, PL & KS1000 TL (wall panel)	260a/37
KS1000 Zip (roof panel)	260a/54
Kingspan KS600 -1000 MR, FL, FL-S, EB, WV, MM, CX, PL & KS1000 TL, (wall panel)	260a/64
Kingspan KS600 - 1000 LS - MR, FL, EB, WV, MM or CX profile options (wall panel)	260a/67
Kingspan KS2000 RW (roof panel)	260a/69
KS1000SRW (wall and roof panel)	260a/72
KS1000SRW (wall panel)	260a/74
Kingspan KS1000 TD (roof panel)	279a/29
Kingspan KS1000 EP Energi (wall and roof panel)	279a/30
Kingspan KS1000 FC (wall and roof panel)	279a/39
Kingspan KS1000 FC (wall panel)	279a/40
	279a/41
Kingspan KS1000 LP (roof panel)	279a/65
Kingspan KS1000 CR (roof panel)	279a/66

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 260f to LPS 1181 Part 1: Issue 1.2

Product Name	LPCB Ref. No.
KingspanIPN QuadCore KS1000RW (roof panel)	260f/01
KingspanIPN QuadCore KS600 -1200 AWP, MR, FL, FL-S, EB, WV, MM, CX, PL, Optimo, Benchmark Evolution, KS1000 TL, Benchmark Louvre DW, Benchmark Curve DW (wall panel)	260f/02
KingspanIPN QuadCore KS1000RW (wall panel)	260f/04
	260f/05
	260f/06

PART 1: SECTION 2.1.2

LPS 1181-1 CLADDING PRODUCTS USED FOR THE EXTERNAL ENVELOPE OF BUILDINGS

Product Name	LPCB Ref. No.
KingspanIPN QuadCore KS1000 AWP (wall panel)	260f/07
KingspanIPN QuadCore KS1000AWP (wall panel)	260f/08
KingspanIPN QuadCore KS600 – 1200AB (roof/ceiling panel)	279f/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Mannok Insulation Limited

Scotchtown, Ballyconnell, Co. Cavan, Ireland

Tel: +353 49 952 5604 • Fax: +353 49 952 5601

E-mail: sarah.hornby@mannokbuild.com • Website: www.mannokbuild.com

Certificate No: 893a to LPS 1181: Part 1

Product Name	LPCB Ref. No.
MFR Fully adhered Insulating metal deck roof system	893a/01
MFR Mechanically Fixed metal deck roof system	893a/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Modular Panel Systems Limited

Mohill, Co. Leitrim, Ireland

Tel: +353 719631162 • Fax: +353 719651979

E-mail: info@modular.ie • Website: www.modular.ie

Certificate No: 750b to LPS 1181: Part 1

Product Name	Specification Thickness (mm)	Fire Resistance (min) Integrity	Fire Resistance (min) Insulation	Grade	Core Material	LPCB Ref. No.
PIR ExoClad (wall and ceiling panel)	50	-	-	EXT-B	PIR	750b/01
PIR ExoClad (wall panel)	50	120	16	EXT-A15	PIR	750b/02

Notes:

1. The joints of the ExoClad panels 750b/01 should be stitched with 6.3mm x 22mm long self tapping screws @ 250mm centres on the external overlap and stitched with 4.8mm dia x 10mm stainless steel rivets @ 250mm centres on the internal face.
2. Wall panels to be orientated vertically only.
3. ExoClad wall panels 750b/02, panel joints external overlap stitched with stainless steel rivets and screwed at 100 mm centres. The internal joint is stitched at 100mm centres and protected with a 250mm wide by 50mm deep insulated cover strip stitched at 100mm centres.

Rockwool Limited

Wern Tarw, Pencoed, Bridgend, Mid Glamorgan CF35 6NY, United Kingdom

Tel: +44 (0)1656 862621 • Fax: +44 (0)1656 862302

E-mail: info@rockwool.co.uk • Website: www.rockwool.co.uk

Certificate No: 022g to LPS1181: Part 1: Issue 1.1

PART 1: SECTION 2.1.2

LPS 1181-1 CLADDING PRODUCTS USED FOR THE EXTERNAL ENVELOPE OF BUILDINGS

Product Name	Specification System Thickness (mm) (1)	Fire Resistance (min) Integrity	Fire Resistance (min) Insulation	Grade (2)	Core Material	LPCB Ref. No.
Hardrock Dual Density Roof Board System	100 - 135	60	60	EXT-A60	Stone wool	022g/01
Hardrock Dual Density Roofing Board System	210	120	120	EXT-A120	Stone wool	
	100 - 210 140 - 205	- 90	- 90	EXT-B EXT-A90	Stone wool Stone wool	
Hardrock Dual Density SPA Roofing Board System	210	120	120	EXT-A120	Stone wool	022g/02
	100 - 135	60	60	EXT-A60	Stone wool	
	100 - 210 140 - 205	- 90	- 90	EXT-B EXT-A90	Stone wool Stone wool	
	100 - 210	60	60	EXT-A60	Stone wool	022g/03
DuoRock Roofing Board System	100 - 210	60	60	EXT-A60	Stone wool	022g/03
Hardrock Multi-fix Dual Density Roofing Board System	100 - 210 150	- 90	- 90	EXT-B EXT-A90	Stone wool Stone Wool	022g/04
	210	120	120	EXT-A120	Stone Wool	
	100 - 135	60	60	EXT-A60	Stone Wool	
	100 - 210 140 - 205	- 90	- 90	EXT-B EXT-A90	Stone Wool Stone Wool	

Notes:

- Roof board system LPCB Ref No. 022g/01, 022g/03 & 022g/04 Mechanically fastened Samafil single ply type S327 (1.2mm thickness) external weather proof membrane (or alternative membrane less than 3.5 kg/m² e.g. PVC, Chlorinated PE, Butyl Rubber with wedged seams).
Comprising of two layers of Rockwool roofing board with staggered joints (100mm minimum stagger for fire resistance up to 90 minutes and 300mm stagger for 2 hours fire resistance), vapour control layer and 0.7mm thickness 35mm deep profile steel metal deck.
- Roof board system LPCB Ref No. 022g/02; Samafil single ply external weather proof membrane type G410 (1.2mm thickness), fully adhered to Hardrock Dual Density SPA Roofing Board System with Sarnafil Adhesive (or Rockwool approved alternative, adhesive/membrane combination, with a membrane material less than 3.5 kg/m² e.g. PVC, Chlorinated PE, Butyl Rubber with welded seams); comprising of two layers of Rockwool roofing board with staggered joints (100mm minimum stagger for fire resistance up to 90 minutes and 300mm stagger for 2 hours fire resistance), vapour control layer and 0.7mm thickness 35mm deep profile steel metal deck.
- Roof Board System LPCB Ref No. 022g/01, 022g/02, 022g/03 & 022g/04 Hardrock Dual Density, Hardrock Dual Density SPA, DuoRock and Hardrock Multi-fix Dual Density roofing boards are also available and approved in cut-to-fall tapered options the relevant minimum & maximum system thickness and staggered joints shall apply as detailed above.
- For EXT-A fire resistance grading, the test construction was tested unloaded. However, deflection of the roof did not exceed the allowable limits set out in BS 476: Part 20:1987 for loadbearing horizontal elements.
- Decking side laps were stitched at 450mm centres. The built up roofing system was tested with Eurobond Stone wool core sandwich wall panels.
- Hardrock Multi-fix Dual Density roof board system 022g/04 at a thickness of 150mm is unfaced and for the purpose of extending the thickness within the Multi-Fix system.

Tata Steel UK Limited, Panels and Profiles

Shotton Works, Deeside, Flintshire CH5 2NH, United Kingdom

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Certificate No: 460a to LPS 1181 Part Issue 1

Product Name	LPCB Ref. No.
Trimapanel Formawall wall panel	460a/13
Trisobuild FR15	460a/14
Trisobuild FR30	
Trisobuild FR60	

PART 1: SECTION 2.1.2

LPS 1181-1 CLADDING PRODUCTS USED FOR THE EXTERNAL ENVELOPE OF BUILDINGS

Product Name	LPCB Ref. No.
Trisobuild VW / HW	
Trisobuild R / RL	460a/15
Trinsul wall and roof system	460a/19
Trinsul wall system	
Structural Liner Tray Roof	460a/20
Structural Liner Tray Wall	
Structural Flat Metal Roof Deck	460a/21
Trisobuil SA1	460a/23
Trisobuil SA1+	
Hybrid Acoustic roof system	460a/24
Hybrid Acoustic wall system	
Trisomet (wall panel)	460a/27
Trimapanel, Formawall wall panel	460a/28
Trisomet (roof and wall panel)	460a/29
Celtic 30 (roof panel)	460a/30
Trisomet (roof panel)	
Trisobuild FR15	460a/31

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Trimo d.o.o.

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Certificate No: 650b to LPS 1181 Part 1 Issue 1

Product Name	LPCB Ref. No.
FTV (wall panel)	650b/01
SNV (ceiling panel)	650b/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 2.1.3

LPS 1181-2 SANDWICH PANELS OR BUILT-UP PANEL SYSTEMS USED INTERNALLY IN A BUILDING

LPS 1181:Part 2 *Requirements and tests for sandwich panels and built-up systems for use as internal constructions in buildings*

This standard determines the contribution to fire growth of sandwich panels and built-up cladding systems used internally within a building. Systems listed in this section are typically used for the construction of food factory clean rooms, cold store rooms/refrigerated spaces or room separation, other internal structure applications may also be applicable where insulated (acoustic or temperature controlled) spaces are specified. The structures are either self-supporting or supported by an external structure.

The test is a large scale test comprising setting fire to an open-ended enclosure (approximately the size of a large domestic garage) from the sandwich panels or built-up cladding system. It evaluates the panels, the jointing methods and the supporting system including fixings, which gives an assessment of the true fire performance of the system which cannot be determined from traditional small scale reaction to fire tests, such as surface spread of flame or fire propagation tests.

Products that have passed the test and have achieved LPCB approval are graded under the following designations:

Requirements for internal applications				
GRADE	Fire resistance		Wall and ceiling lining test Thermal exposure	
	Integrity (minutes)	Insulation (minutes)	Level	Source
INT-1	60	60	Enhanced	Gas burner
INT-2	30	30	Standard	Timber crib
INT-3			Standard	Timber crib

Brucha Ges.m.b.H

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Certificate No: 900b to LPS1181-2

Product Name	Specification Thickness (mm)	Maximum Unsupported Panel Span (m)	Fire Resistance (min) Integrity	Fire Resistance (min) Insulation	Grade	Core Material	LPCB Ref. No.
WP-F (wall panel)	60, 80, 100, 120, 150 & 200	3.0	-	-	INT-3	Mineral Wool	900b/01
WP-F (ceiling panel)	60, 80, 100, 120, 150 & 200	3.5	-	-	INT-3	Mineral Wool	900b/02

Notes:

- LPCB ref 900b/01 WP-F Wall panels to be installed with no external supports & the long edge joint in the vertical orientation only.
- LPCB ref 900b/01 & 900b/02 Wall and ceiling panel joints to be stitched on the internal face with 3.2 mm blind rivets at nominally 300mm centres.
- LPCB ref 900b/02 WP-F Ceiling panels are supported by a hanger system consisting of.
 - A length of wire rope (4.0mm 6 x 7N 1AX) passed over and supported from a suitable load bearing frame.
 - An M10 turnbuckle with the rope secured using a 'U bolt and clamp.
 - A length of M10 studding is passing through a hole which is drilled in the panel and secured on the internal surface with an 80mm diameter washer and domed head nut, this is further protected with a 0.55mm thick steel box (130mm-square x 30mm-deep with 130mm x 30mm-flanges), lined with

PART 1: SECTION 2.1.3

LPS 1181-2 SANDWICH PANELS OR BUILT-UP PANEL SYSTEMS USED INTERNALLY IN A BUILDING

Promatect board and fixed using 3.2mm blind rivets.

- The turn buckle is then adjusted to accommodate the weight of the panels.

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Certificate No: 545c to LPC 1181 Part 2 Issue 2

Product Name	LPCB Ref. No.
Firemaster Wall Lite	545c/01
Firemaster Wall Extra	545c/02
Firemaster Ceiling Panel	545c/03
Firemaster Wall Ultima	545c/05

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Kingspan Ltd

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Certificate No: 186d to LPS 1181 Part 2: Issue 2

Product Name	Specification Thickness (mm)	Specification Wall Panel Orientation (H/V) (Note 1)	Kingspan Model Specification Ref (Note 2)	Fire Resistance Integrity/Insulation (min)	LPS 1181-2 Grade	Core Material (Note 2)	LPCB Ref. No.
Kingspan IPN QuadCore KS600-1200CS (wall and ceiling panels)	80 - 200	V	36 Rev 0	-/-	INT-3	Hybrid insulation	279e/01
Kingspan IPN QuadCore KS600-1200CS (wall panel)	100-200	V	36 Rev 0	45/39	INT-2	Hybrid insulation	279e/02
Kingspan IPN QuadCore KS600-1200CS (ceiling panel)	175 - 200	-	36 Rev 0	95/65	INT-2	Hybrid insulation	279e/03
Kingspan IPN QuadCore KS600-1200CS (wall panel)	100 - 200	V	36 Rev 0	128/30	INT-2	Hybrid insulation	279e/04
Kingspan IPN QuadCore KS600-1200CS (ceiling panel)	125 - 200	-	36 Rev 0	57/49	INT-2	Hybrid insulation	279e/05
Kingspan IPN QuadCore KS600-1200CS (wall panel)	175 - 200	V	36 Rev 0	211/65	INT-2	Hybrid insulation	279e/06

PART 1: SECTION 2.1.3

LPS 1181-2 SANDWICH PANELS OR BUILT-UP PANEL SYSTEMS USED INTERNALLY IN A BUILDING

Notes;

1. Wall panel orientation, Horizontal or Vertical (H/V), relates to the long joint orientation
2. The Kingspan Model Specification documents contain full system details including panel fixing requirement, joint seals and stitching details as applicable. Reference must be made to the appropriate Model Specification to define the specific installation requirements. Copies of Model specifications are available on request please contact the Kingspan Envirocare Department - refer to model specificatio LPCB 36 Rev 0 for full details.

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Greenfield Business Park No. 2, Greenfield, Holywell, Flintshire CH8 7HU, United Kingdom

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Certificate No: 260d to LPS 1181 Part 2: Issue 2

Product Name	Specification Thickness (mm)	Specification Wall Panel Orientation (H/V) (Note 1)	Kingspan Model Specification Ref (Note 2)	Fire Resistance Integrity/Insulation (min)	LPS 1181-2 Grade	Core Material (Note 2)	LPCB Ref. No.
Kingspan IPN QuadCore KS600-1200CS (wall panel)	100 - 200	V	36 Rev 0	45/39	INT-2	Hybrid insulation	279/02
Kingspan IPN QuadCore KS600-1200CS (wall and ceiling panels)	80 - 200	V	36 Rev 0	-/-	INT-3	Hybrid insulation	279e/01
Kingspan IPN QuadCore KS600-1200CS (ceiling panel)	175 - 200	-	36 Rev 0	95/65	INT-2	Hybrid insulation	279e/03
Kingspan IPN QuadCore KS600-1200CS (wall panel)	100 - 200	V	36 Rev 0	128/80	INT-2	Hybrid insulation	279e/04
Kingspan IPN QuadCore KS600-1200CS (ceiling panel)	125 - 200	-	36 Rev 0	57/49	INT-2	Hybrid insulation	279e/05
Kingspan IPN QuadCore KS600-1200CS (wall panel)	175 - 200	V	36 Rev 0	211/65	INT-2	Hybrid insulation	279e/06

Notes;

1. Wall panel orientation, Horizontal or Vertical (H/V), relates to the long joint orientation
2. The Kingspan Model Specification documents contain full system details including panel fixing requirement, joint seals and stitching details as applicable. Reference must be made to the appropriate Model Specification to define the specific installation requirements. Copies of Model specifications are available on request please contact the Kingspan Envirocare Department - refer to model specificatio LPCB 36 Rev 0 for full details.

PART 1: SECTION 2.1.3

LPS 1181-2 SANDWICH PANELS OR BUILT-UP PANEL SYSTEMS USED INTERNALLY IN A BUILDING

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Certificate No: 1499a to LPS 1181 Part 2 Issue 2.1

Sandwich Panel Systems

Product Name	LPCB Ref. No.
QRV PIR Coldstore (wall and ceiling panels) system	1499a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Paneltex Limited

Kingston International Business Park, Somerden Road, Kingston-upon-Hull HU9 5PE, United Kingdom

Tel: 01482 787236 • Fax: 01482 787238

E-mail: sales@paneltex.co.uk • Website: www.paneltex.co.uk

Certificate No: 993a to LPS 1181 Part 2: Issue 2.0

Product Name	Specification Thickness (mm)	Maximum system size	Fire resistance (minutes) Integrity/Insulation	Grade	Core Material	LPCB Ref. No.
Paneltex Fireproof Coldstore (wall and ceiling panel system)	122 - 165	See Note 2	- / -	INT-3	PIR	993a/01
Paneltex Fireproof Coldstore (wall panel system)	122 - 165	See note 3	34 / 34 (note 3)	INT-2	PIR	993a/02

Notes:

1. LPCB Ref 993a/01 Paneltex Fireproof Coldstore wall and ceiling panel systems to be installed with no external supports, the wall panels have the long edge joint in the horizontal orientation.
2. LPCB Ref 993a/01 The maximum internal length, width and height of the Paneltex Fireproof Coldstore system shall not exceed 14.827m x 3.968m x 3.600m.
3. LPCB Ref 993a/02 For fire resistance applications (INT-2) the maximum wall height shall not exceed 3.000m; the maximum panel length is as per note 2. The wall system was tested with an imposed load of 65kg/m (1.297kN per linear metre), loading on the walls shall not exceed this load.

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Certificate No: 650d to LPS 1181 Part 2 Issue 2

Product Name	LPCB Ref. No.
Trimoterm FTV (wall panel)	650d/01
Trimoterm FTV (ceiling panel)	650d/02
Trimoterm FTV-HL (wall panel)	650d/03
Qbiss One Power T (wall panel)	650d/04

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

LPS 1208: *LPCB test and performance requirements for walls, cavity barriers, floors and roofs* defines the test and performance requirements to satisfy the fire resistance requirements for compartmentation given in the *LPC Design Guide for Fire Protection of Buildings: 2000*.

Products for use in the following elements of construction fall within the scope of LPS 1208:

- Loadbearing compartment walls
- Non-loadbearing compartment walls and partitions
- External walls
- Curtain walls
- Cavity barriers
- Roofs where fire resistance is required (loadbearing and non-loadbearing)
- Loadbearing compartment floors
- Insulated panels used for enclosing production and storage areas in food factories

Note: Unless otherwise stated in individual listings, elements of construction have not been approved for load bearing capacity.

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Certificate No: 443b to LPS 1208: Issue 2

Product Name	LPCB Ref. No.
Twin-Therm® FW120 FireWall	443b/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Euroclad Group Limited

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Certificate No: 879b to LPS 1208: Issue 2.2

Product Name	LPCB Ref. No.
Elite 51 (Wall System)	879b/09
Elite 52 (Wall System)	879b/10
Elite 53 (Wall System)	879b/11
Elite 54 (Wall System)	879b/12
Elite 55 (Wall System)	879b/13
Elite 56 (Wall System)	879b/14
Elite 57 (Wall System)	879b/15
Elite 58 (Wall System)	879b/16
Elite 60 (Wall System)	879b/17
Elite 50 (Wall System)	879b/18

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 545a to LPS1208 Issue 2

PART 1: SECTION 2.2

LPS 1208 COMPOSITE CONSTRUCTION ELEMENTS

Product Name	LPCB Ref. No.
Firemaster Wall Extra	545a/01
Firemaster Ceiling Panel	545a/02
Firemaster Wall Lite	545a/03
Europanel F5 (wall panel)	545a/05
Europanel G12, G30 & G50 (wall panel)	545a/06
Europanel S5 (wall panel)	545a/07
Rockspan Extra (wall panel)	545a/08
Rockspan Lite (wall panel)	545a/09
Rockspan Ultima (wall panel)	545a/10
Firemaster Ultima (wall panel)	545a/11
Firemaster Ceiling Panel	545a/12
Rainspan Argeton	545a/13
Rainspan-ACM	545a/14
Rainspan-Parklex	545a/15
Rainspan-Rockpanel	545a/16
Rainspan Corium	545a/17
Rainspan Norclad	545a/18
Rainspan Aerolite Granite	545a/20
Rainspan Aerolite Stonework	
Rainspan Ultralite	
Rainspan Urban Glass	545a/21
Europanel F5 (wall panel)	545a/22

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Hemsec Manufacturing Limited

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E-mail: sales@hemsec.com • Website: www.hemsec.com

Certificate No: 558a to LPS 1208 Issue 2

HPT Control 30 HPT Control 60 wall and ceiling panels Hemsec SIPs (wall panel)

Product Name	LPCB Ref. No.
Hemsec SIP (wall panel)	558a/11
	558a/13
HPT Control 30 (wall panel)	558a/16
HPT Control 60 (wall panel)	
HPT Control 30 (ceiling panel)	558a/17
HPT Control 60 (ceiling panel)	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Isoclad Limited

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Certificate No: 142a to LPS 1208 Issue 2

Product Name	LPCB Ref. No.
Firestop 10 (Wall Panel)	142a/01
Firestop 12 (Wall Panel)	142a/02
Firestop 12c (Ceiling Panel)	142a/03
Isoclad PIR (Wall Panel)	142a/05
Isoclad PIR (Ceiling Panel)	142a/06
Isoclad PIR 40 (Wall Panel)	142a/07
Firestop 12 (Ceiling Panel)	142a/08
Securiclad SR4 (Wall Panel)	142a/09
Securiclad SR4 (Ceiling Panel)	142a/10

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Joris IDE N.V.

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Certificate No: 700d to LPS 1208: Issue 2.2

Product Name	LPCB Ref. No.
Jl Wall 1150 Insulated Wall Panel	700d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 700e to LPS 1208 Issue 2

Jl Vulcasteel Roof 1000

Product Name	LPCB Ref. No.
Jl Vulcasteel roof 1000	700e/01 700e/02 700e/03

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Kingspan Ltd

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Certificate No: 186b to LPS 1208: Issue 2

Product Name	Specification Thickness (mm)	Maximum Unsupported Span (m)	Wall Panel Orientation (H/V) (note 1)	Fire Resistance (min) Integrity / Insulation	Grade	Core Material	LPCB Ref. No.
Kingspan Ecosafe KS1100CS (wall panel)	100, 200 & 220	4.00	V	195 / 31	FR30	PIR	279b/05
Kingspan Ecosafe KS1100CS (ceiling panel)	100, 200 & 220	3.40	-	35 / 32 58 / 32	FR30 FR30	PIR PIR	279b/06

Notes

1. Wall panel orientation, Horizontal or Vertical (H/V), relates to the long joint orientation.
2. LPCB Ref No. 279b/05, 279b/06, 279b/07, 279b/08 & 279b/09 - Refer to model specification LPCB 11 Rev M for full details.

Certificate No: 186c to LPS 1208 Issue 2

Product Name	LPCB Ref. No.
Kingspan IPN QuadCore KS1100CS (wall panel)	279d/01
Kingspan IPN QuadCore KS1100CS (ceiling panel)	279d/02
Kingspan IPN QuadCore KS600-1200CS (wall panel)	279d/03
Kingspan IPN QuadCore KS1100CS (ceiling panel)	279d/04
Kingspan IPN QuadCore KS600 - 1200CS (wall panel)	279d/05

PART 1: SECTION 2.2

LPS 1208 COMPOSITE CONSTRUCTION ELEMENTS

Product Name	LPCB Ref. No.
Kingspan IPN QuadCore KS600-1200CS (ceiling panel)	279d/06
Kingspan IPN QuadCore KS600-1200CS (wall panel)	279d/07
Kingspan IPN QuadCore KS600-1200CS (ceiling panel)	279d/08
Kingspan IPN QuadCore KS600-1200CS (ceiling panel)	279d/09
Kingspan IPN QuadCore KS600-1200CS (wall panel)	279d/10

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Kingspan Ltd.

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Certificate No: 260b to LPS 1208: Issue 2

Product Name	Specification Thickness (mm)	Maximum Unsupported Span (m)	Wall Panel Orientation (H/V) (note 1)	Fire Resistance (min) Integrity / Insulation	Grade	Core Material	LPCB Ref. No.
Kingspan Ecosafe KS1100CS (wall panel)	100, 200 & 220	4.00	V	195 / 31	FR30	PIR	279b/05
Kingspan Ecosafe KS1100CS (ceiling panel)	100, 200 & 220	3.40	-	35 / 32 58 / 32	FR30 FR30	PIR PIR	279b/06

Notes:

1. Wall panel orientation, Horizontal or Vertical (H/V), relates to the long joint orientation.
2. LPCB Ref No 279b/05, 279b/06, 279b/07, 279b/08 & 279b/09 - Refer to model specification LPCB 11 Rev M for full details.

Certificate No: 260c to LPS 1208 Issue 2

Product Name	LPCB Ref. No.
Kingspan IPN QuadCore KS1100CS (wall panel)	279d/01
Kingspan IPN QuadCore KS1100CS (ceiling panel)	279d/02
Kingspan IPN QuadCore KS600-1200CS (wall panel)	279d/03
Kingspan IPN QuadCore KS1100CS (ceiling panel)	279d/04
Kingspan IPN QuadCore KS600 - 1200CS (wall panel)	279d/05
Kingspan IPN QuadCore KS600-1200CS (ceiling panel)	279d/06
Kingspan IPN QuadCore KS600-1200CS (ceiling panel)	279d/07
Kingspan IPN QuadCore KS600-1200CS (wall panel)	279d/08
Kingspan IPN QuadCore KS600-1200CS (ceiling panel)	279d/09
Kingspan IPN QuadCore KS600-1200CS (wall panel)	279d/10

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

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Certificate No: 381a to LPS 1208 Issue 2

Product Name	LPCB Ref. No.
PAROC AST-F	381a/01
PAROC AST-S (wall panel)	381a/02

PART 1: SECTION 2.2
LPS 1208 COMPOSITE CONSTRUCTION ELEMENTS

Product Name	LPCB Ref. No.
PAROC AST-E (ceiling panel)	381a/04
PAROC AST-T (wall panel)	381a/05
PAROC AST-L (wall panel)	381a/06
PAROC AST-S SHADOW (wall panel)	381a/07
PAROC AST-E SHADOW (wall panel)	381a/08
PAROC AST-F SHADOW (wall panel)	381a/09

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Modular Panel Systems Limited

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Certificate No: 750a to LPS 1208 Issue 2.1

Product Name	Specification Thickness (mm)	Max Unsupported Span	Wall Panel Orientation (H/V)(Note 1)	Fire Resistance (min) Integrity / Insulation	Grade	Core Material	LPCB Ref. No.
Enviro Panel PIR (wall panel)	100	3.0	V	43 / 15	FR15	PIR	750a/01
	150	3.0	V	60 / 48	FR30	PIR	750a/02
	200	3.0	V	60 / 48	FR30	PIR	
Enviro Panel Mineral Wool (wall panel)	100	7.5	V	121 / 44	FR30	Mineral Wool	750a/02
	150	3.0	- / -	121 / 68	FR60	Mineral Wool	750a/03
Enviro Panel Mineral Wool (ceiling panel)	150	3.0	- / -	121 / 68	FR60	Mineral Wool	750a/03
Enviro Panel PIR (wall panel)	100	3.0	V	30 / 15	FR15	PIR	750a/04
	150	3.0	V	60 / 30	FR30	PIR	750a/05
	200	3.0	V	60 / 30	FR30	PIR	
Enviro Panel Mineral Wool (wall panel)	100	7.5	V	120 / 30	FR30	Mineral Wool	750a/05
	150	3.0	- / -	120 / 60	FR60	Mineral Wool	750a/06
Enviro Panel Mineral Wool (ceiling panel)	150	3.0	- / -	120 / 60	FR60	Mineral Wool	750a/06
Enviro Panel Mineral Wool (wall panel)	150	7.5	V	120 / 60	FR60	Mineral Wool	750a/07
	150	7.5	V	120 / 60	FR60	Mineral Wool	750a/07

Notes:

- Wall panels orientation, Horizontal or Vertical (H/V) relates to the long joint orientation.
- LPCB Ref. 750a/01, 750a/03, 750a/04 & 750a/06 - A strip of Pyrostrip graphite self-adhesive tape, 10mm wide x 2mm thick, shall be applied between the overlap in the steel skins of adjacent panels, the joints of the Enviro panels shall then be stitched with 4.8mm dia x 10mm stainless steel rivets @ 300mm centres on both the exposed and internal face.
- LPCB Ref. 750a/02, 750a/05 & 750a/07 - A strip of Pyrostrip graphite self-adhesive tape, 10mm wide x 2mm thick, shall be applied between the overlap in the steel skins of adjacent panels, the joints of the Enviro panels shall then be stitched with 3.2mm dia x 12mm stainless steel rivets @ 300mm centres on both the external and internal face.
- LPCB Ref. 750a/01, 750a/02 & 750a/03 PIR and Mineral wool panels are supplied with a castellated joint panel edge profile.
- LPCB Ref. 750a/04, 750a/05 & 750a/06 PIR and Mineral wool panels are supplied with a flat, butt joint panel edge profile.
- LPCB Ref. 750a/07 Mineral wool wall panels are supplied with a castellated joint or a flat, butt joint panel edge profile.

PART 1: SECTION 2.2

LPS 1208 COMPOSITE CONSTRUCTION ELEMENTS

Paneltex Limited

Kingston International Business Park, Somerden Road, Kingston-upon-Hull HU9 5PE, United Kingdom

Tel: 01482 787236 • Fax: 01482 787238

E-mail: sales@paneltex.co.uk • Website: www.paneltex.co.uk

Certificate No: 993b to LPS 1208: Issue 2

Product Name	Specification Thickness (mm)	Maximum unsupported span (m)	Fire Resistance (minutes) Integrity / Insulation (EN 1365-1)	Load bearing capacity under test conditions	Grade	Core Material	LPCB Ref. No.
Paneltex Fireproof Coldstore (wall panel system)	122 - 165	See note 1	34 / 34	65kg/m (1.297kN per linear metre)	FR30	PIR	993b/01

Note:

1. LPCB Ref 993b/01 Paneltex Fireproof Coldstore wall panels have the inner liner long edge joint in the horizontal orientation, the panels are factory manufactured to required height and length. The maximum wall height shall not exceed 3.000m.

Rockwool Limited

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E-mail: info@rockwool.co.uk • Website: www.rockwool.co.uk

Certificate No: 022c to LPS 1208 Issue 2

Rockwool Firepro™ Fire Barrier System Rockwool Firepro™ Fire Barrier Slab

Product Name	LPCB Ref. No.
Rockwool Firepro™ Fire Barrier System	022c/01
Rockwool Firepro™ Fire Barrier Slab	022c/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Ruukki Construction Oy

Panuntie 11, 00620 Helsinki, Finland

Tel: +358 20 592 7521 • Fax: +358 20 592 7708

E-mail: simo.heikkila@ruukki.com • Website: www.ruukki.com

Certificate No: 660a to LPS 1208: Issue 2

Product Name	LPCB Ref. No.
SPA E	660a/03

Notes:

1. Wall panel orientation, Horizontal or Vertical (H/V), relates to the long joint orientation.
2. The following Company manufacture the product listed on this certificate. This Company is audited by the LPCB to ensure the product certification requirements are met.

Ruukki Construction Oy
Makelantie 9,
62900 Alajarvi,
Finland

PART 1: SECTION 2.2

LPS 1208 COMPOSITE CONSTRUCTION ELEMENTS

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Ruukki Polska Sp. z.o.o

ul Jaktorowska 13, 96-300 Żyrardów, Poland

Tel: +372 447 9912 /+372 529 5831

E-mail: kaidu.kaup@ruukki.com • Website: www.ruukki.com/gbr

Certificate No: 1052b to LPS 1208

Product Name	Specification Thickness (mm)	Max Unsupported Span (m)	Wall panel orientation (H/V) (note 1)	Fire Resistance (min) Integrity / Insulation	Grade	Core Material	LPCB Ref. No.
SP2D W (wall panel)	100 - 220	4.0	H	68/67	FR60	Mineral wool	1052b/01
SP2D WE (wall panel)	100 - 220	4.0	V	120/120	FR120	Mineral wool	1052b/02
	100 - 220	4.0	V	60/60	FR60	Mineral wool	
	100 - 220	4.0	V	90/90	FR90	Mineral wool	
	100 - 220	7.5	V	30/15	FR15	Mineral wool	
	100 - 220	7.5	V	30/30	FR30	Mineral wool	
SPB W (wall panel)	100 - 220	7.5	H	120/120	FR120	Mineral wool	1052b/03
	100 - 220	7.5	H	30/15	FR15	Mineral wool	
	100 - 220	7.5	H	30/30	FR30	Mineral wool	
	100 - 220	7.5	H	60/60	FR60	Mineral wool	
	100 - 220	7.5	H	90/90	FR90	Mineral wool	
	120 - 220	7.4	H	180/180	FR180	Mineral wool	
	160 - 220	7.5	H	180/180	FR180	Mineral wool	
	180 - 220	7.5	H	240/240	FR240	Mineral wool	
SPB WB (wall panel)	100 - 220	7.5	H	120/120	FR120	Mineral wool	1052b/04
	100 - 220	7.5	H	30/15	FR15	Mineral wool	
	100 - 220	7.5	H	30/15	FR30	Mineral wool	
	100 - 220	7.5	H	60/60	FR60	Mineral wool	
	100 - 220	7.5	H	90/90	FR90	Mineral wool	
	120 - 220	7.4	H	180/180	FR180	Mineral wool	
	160 - 220	7.5	H	180/180	FR180	Mineral wool	
	180 - 220	7.5	H	240/240	FR240	Mineral wool	
SPB WI (wall panel)	100 - 140	7.5	H	120/120	FR120	Mineral wool	1052b/05
	100 - 140	7.5	H	30/15	FR15	Mineral wool	
	100 - 140	7.5	H	30/30	FR30	Mineral wool	
	100 - 140	7.5	H	60/60	FR60	Mineral wool	
	100 - 140	7.5	H	90/90	FR90	Mineral wool	

PART 1: SECTION 2.2

LPS 1208 COMPOSITE CONSTRUCTION ELEMENTS

Product Name	Specification Thickness (mm)	Max Unsupported Span (m)	Wall panel orientation (H/V) (note 1)	Fire Resistance (min) Integrity / Insulation	Grade	Core Material	LPCB Ref. No.
SPB WIB (wall panel)	120 - 220	7.4	H	180/180	FR180	Mineral wool	1052b/06
	100 - 140	7.5	H	120/120	FR120	Mineral wool	
	100 - 140	7.5	H	30/15	FR15	Mineral wool	
	100 - 140	7.5	H	30/30	FR30	Mineral wool	
	100 - 140	7.5	H	60/60	FR60	Mineral wool	
	100 - 140	7.5	H	90/90	FR90	Mineral wool	
SPB WE (wall panel)	120 - 220	7.4	H	180/180	FR180	Mineral wool	1052b/07
	100 - 220	7.5	H	120/120	FR120	Mineral wool	
	100 - 220	7.5	H	30/30	FR30	Mineral wool	
	100 - 220	7.5	H	90/90	FR90	Mineral wool	
	100 - 220	7.5	H/V	60/60	FR60	Mineral wool	
SPB WEB (wall panel)	120 - 220	7.4	H	180/180	FR180	Mineral wool	1052b/08
	100 - 220	7.5	H	120/120	FR120	Mineral wool	
	100 - 220	7.5	H	30/30	FR30	Mineral wool	
	100 - 220	7.5	H	60/60	FR60	Mineral wool	
	100 - 220	7.5	H	90/90	FR90	Mineral wool	
SPB WEI (wall panel)	120 - 220	7.4	H	180/180	FR180	Mineral wool	1052b/09
	100 - 140	7.5	H	120/120	FR120	Mineral wool	
	100 - 140	7.5	H	30/30	FR30	Mineral wool	
	100 - 140	7.5	H	60/60	FR60	Mineral wool	
	100 - 140	7.5	H	90/90	FR90	Mineral wool	
SPB WEIB (wall panel)	120 - 220	7.4	H	180/180	FR180	Mineral wool	1052b/10
	100 - 140	7.5	H	120/120	FR120	Mineral wool	
	100 - 140	7.5	H	30/30	FR30	Mineral wool	
	100 - 140	7.5	H	60/60	FR60	Mineral wool	
	100 - 140	7.5	H	90/90	FR90	Mineral wool	
120 - 220	7.4	H	180/180	FR180	Mineral wool		

Note:

1. Wall panel orientation, Horizontal or Vertical (H/V), relates to the long joint orientation.
2. LPCB Ref No. 1052b/02, 03, 04, 05, 06, 07, 08, 09 & /10 a bond of sealant Butylene-X or EPDM gaskets (Black or Green) is applied to the joint prior to installation.
3. LPCB Ref. No 1052b/01 a bead of sealant Sikalastomer 710 (or equivalent) is applied to the joint prior to installation.

Certificate No: 1052b to LPS 1208

PART 1: SECTION 2.2

LPS 1208 COMPOSITE CONSTRUCTION ELEMENTS

Product Name	Specification Thickness (mm)	Max Unsupported Span (m)	Load bearing capacity under test conditions (kN/m ²)	Fire Resistance (min) Integrity / Insulation	Grade	Core Material	LPCB Ref. No.
SPC W (roof panel)	140/100 240/200	2.0	0.31	182/70	FR60	Mineral wool	1052b/11

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Certificate No: 957a to LPS1208: Issue 2

Product Name	Specification Thickness	Max Unsupported span (m)	Wall panel orientation (h/V) (note 1)	Fire Resistance(min) integrity/insulation Span (m)	Grade	Core Material	LPCB Ref. No.
Isowall (wall panel)	100	7.5	V	30 / 30	FR30	Mineral Wool	957a/01
	100	4.9	V	60 / 60	FR60	Mineral Wool	
	100	4.0	V	90 / 90	FR90	Mineral Wool	
	125	7.5	V	30 / 30	FR30	Mineral Wool	
	125	4.9	V	60 / 60	FR60	Mineral Wool	
	125	4.0	V	90 / 90	FR90	Mineral Wool	
	150	7.5	V	30 / 30	FR30	Mineral Wool	
	150	7.5	V	60 / 60	FR60	Mineral Wool	
	150	6.9	V	90 / 90	FR90	Mineral Wool	
	150	5.2	V	120 / 120	FR120	Mineral Wool	
	150	3.0	V	265 / 208	FR180	Mineral Wool	

Note:

1. Wall panel orientation, Horizontal or Vertical (H/V) relates to the long joint orientation.

Trimo d.o.o.

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Certificate No: 650a to LPS 1208: Issue 2

Product Name	LPCB Ref. No.
FTV Wall Panel	650a/01
FTV-H Wall Panel	650a/02
SNV Roof Panel	650a/03
FTV-HL Wall Panel	650a/04
Qbiss One Wall Panel	650a/05
FTV Ceiling Panel	650a/06
SNV Wall Panel	650a/07

PART 1: SECTION 2.2

LPS 1208 COMPOSITE CONSTRUCTION ELEMENTS

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

LPS 1581 Requirements and tests for LPCB approval of non-load bearing External Thermal Insulated Cladding Systems with rendered finishes (ETICS) or Rain Screen Cladding systems (RSC) applied to the masonry face of a building.

PART 1: SECTION 2.3.1

LPS 1581 EXTERNAL THERMAL INSULATED CLADDING (ETICS) ON MASONRY SUBSTRATES

LPS 1581 Requirements and tests for LPCB approval of non-load bearing External Thermal Insulated Cladding Systems with rendered finishes (ETICS) or Rain Screen Cladding systems (RSC) applied to the masonry face of a building

The test method used is BS 8414-1:2002 *Test method for non-load bearing external cladding systems applied to the face of the building* and is representative of an external fire source or fully developed (post-flashover) fire in a room venting through an opening such as a window aperture that exposes the external surfaces of the cladding system to the effects of the impinging flames. The test method determines external and potential internal (within the ETICS system) fire spread and, where a void exists, the extent of fire spread through the void.

External Thermal Insulated Composite Systems (ETICS) are systems which are applied to a masonry or concrete leaf, typically comprising of a number of layers including an insulation layer, a reinforcing mesh and external render or pre-formed slips or similar finish.

LPS 1581 Requirements and tests for LPCB approval of non-load bearing External Thermal Insulated Cladding Systems with rendered finishes (ETICS) or Rain Screen Cladding systems (RSC) applied to the masonry face of a building

The test method used is BS 8414-1:2002 *Test method for non-load bearing external cladding systems applied to the face of the building* and is representative of an external fire source or fully developed (post-flashover) fire in a room venting through an opening such as a window aperture that exposes the external surfaces of the cladding system to the effects of the impinging flames. The test method determines external and potential internal fire spread and, where a void exists, the extent of fire spread through the void.

Rain Screen Cladding (RSC) systems are often used for the refurbishment of existing buildings where the insulation component is typically fixed to the original masonry face of the building. The external face of the cladding system is fixed to a supporting rail, so that the external face is spaced away from the insulation layer to form a cavity which may be drained.

PART 1: SECTION 2.4

LPS 1582 EXTERNAL CLADDING SYSTEMS SUPPORTED BY A STRUCTURAL STEEL FRAME

LPS 1582 Requirements and tests for LPCB approval of non-load bearing external cladding systems fixed to and supported by a structural steel frame.

PART 1: SECTION 2.4.1

LPS 1582 EXTERNAL THERMAL INSULATED CLADDING (ETICS) SUPPORTED BY A STRUCTURAL STEEL FRAME

LPS 1582 Requirements and tests for LPCB approval of non-load bearing external cladding systems fixed to and supported by a structural steel frame.

This standard is applicable to non-load bearing external cladding systems, such as curtain walling, glazed elements, infill panels and insulated composite panel systems fixed to and supported by a structural steel frame.

The test method used is BS 8414-2: 2005 *Test method for non-load bearing external cladding systems fixed to and supported by a structural steel frame*, and is intended to represent the action of a fully developed (post flashover) fire in a room venting through an opening such as a window aperture, or an external fire source that exposes the external surfaces of the cladding system to the effects of the impinging flames. The test method determines external and potential internal and fire spread and, where a void exists, the extent of fire spread through the void.

PART 1: SECTION 2.4.2

LPS 1582 RAIN SCREEN CLADDING SYSTEM (RSC) SUPPORTED BY A STRUCTURAL STEEL FRAME

LPS 1582 Requirements and tests for LPCB approval of non-load bearing external cladding systems fixed to and supported by a structural steel frame.

This standard is applicable to non-load bearing external rain screen cladding systems fixed to and supported by a structural steel frame.

The test method used is BS 8414-2: 2005 *Test method for non-load bearing external cladding systems fixed to and supported by a structural steel frame*, and is intended to represent the action of a fully developed (post flashover) fire in a room venting through an opening such as a window aperture, or an external fire source that exposes the external surfaces of the cladding system to the effects of the impinging flames. The test method determines external and potential internal and fire spread and, where a void exists, the extent of fire spread through the void.

The products listed in this section are used as roofing systems where there is a risk of fire as follows;

Section 2.5.1 - Protection against fire from outside the building.

Section 2.5.2 - Protection against fire from inside the building.

PART 1: SECTION 2.5.1

PROTECTION AGAINST FIRE FROM OUTSIDE THE BUILDING

The products listed in this section are used as roofing systems that offer protection where there is a risk of fire from outside of the building. The products have been tested against either BS 476:Part 3 *Fire tests on building materials & structures - external fire exposure roof test* or ENV 1187:2002 *Test methods for external fire exposure to roofs*, in order to ensure that roof covering and its supporting deck act as a protective barrier against fire from the outside of a building. It should be noted that BS 476: Part 3:1958 has been withdrawn, but is still referred to in Approved Document B of the UK Building Regulations. ENV 1187:2002 has been issued as a Draft for Development publication and is of a provisional nature as agreement could not be reached on the publication of an EN.

Work is currently being undertaken to develop a Loss Prevention Standard for this product group.

The products listed in this section are built-up roofing systems which offer protection against the risk of fire from within the building. The products have been tested to:

- BS 476:Part 21 *Fire tests on building materials & structures. Methods for determination of the fire resistance of loadbearing elements of construction*
- or
- BS 476:Part 22 *Fire tests on building materials & structures. Methods for determination of the fire resistance of non-loadbearing elements*
- or
- EN 1364:Part 2 *Fire resistance tests for non-loadbearing elements. Ceilings*
- or
- EN 1365:Part 2 *Fire resistance tests for loadbearing elements. Floors & roofs and meet the requirements of LPS 1208 for fire resistance (For roof sandwich panels, see Section 2.2.)*

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Certificate No: 022a to BS 476: Part 21: Method 7 (see note 1)

Product Name	Specification System Thickness (mm) (1)	Fire Resistance (min) Integrity	Fire Resistance (min) Insulation	Core Material	LPCB Ref. No.
Hardrock Dual Density Roofing Board System	210	120	120	Stone Wool	022a/01
	100 - 135	60	60	Stone Wool	
	140 - 205	90	90	Stone Wool	
Hardrock Dual Density SPA Roofing Board System	210	120	120	Stone Wool	022a/02
	100 - 135	60	60	Stone Wool	
	140 - 205	90	90	Stone Wool	
DuoRock Roofing Board System	100 - 210	60	60	Stone Wool	022a/03
Hardrock Multi-fix Dual Density Roofing Board System	150	90	90	Stone Wool	022a/04
	210	120	120	Stone Wool	
	100 - 135	60	60	Stone Wool	
	140 - 205	90	120	Stone Wool	

Notes:

1. Roof board system LPCB Ref No. 022a/01, LPCB Ref No. 022a/03 & and LPCB Ref No. 022a/04 : Mechanically fastened Sarnafil single ply type S327 (1.2mm thickness), external weather proof membrane (or alternative membrane less than 3.5kg/m² e.g.. PVC, Chlorinated PE, Butyl Rubber with welded seams); Comprising of two layers of Rockwool roofing board with staggered joints (100mm minimum stagger for fire resistance up to 90 minutes and 300mm stagger for 2 hours fire resistance), vapour control layer and 0.7mm thickness 35mm deep profile steel metal deck.
2. Roof board system LPCB Ref No. 022a/02; Sarnafil single ply external weather proof membrane type G410 (1.2mm thickness), fully adhered to Hardrock Dual Density SPA Roofing Board System with Sarnafil Adhesive (or Rockwool approved alternative, adhesive/membrane combination, with a membrane material less than 3.5kg/m² e.g. PVC, Chlorinated PE, Butyl Rubber with welded seams); comprising of two layers of Rockwool roofing board with staggered joints (100mm minimum stagger for fire resistance up to 90 minutes and 300mm stagger for 2 hours fire resistance), vapour control layer and 0.7mm thickness 35mm deep profile steel metal deck.
3. The test construction was tested unloaded. However, deflection of the roof did not exceed the allowable limits set out in BS 476: Part 20: 1987 for loadbearing horizontal elements. Decking side laps were stitched at 450mm centres.

PART 1: SECTION 2.5.2

PROTECTION AGAINST FIRE FROM INSIDE THE BUILDING

4. Roof board System LPCB Ref 022a/01, 022a/02 & 022a/03 Hardrock Dual Density Roofing Board System, Hardrock Dual Density SPA Roofing Board System and DuoRock Roofing Board System are also available and approved in cut-to-fall tapered options, the relevant minimum & maximum and maximum system thickness and staggered joints shall apply as detailed above.
5. Hardrock Multi-fix Dual Density roof board system 022a/04 at a thickness of 150mm is unfaced and for the purpose of extending the thickness within the Multi-Fix system.

The materials and products listed in this section are LPCB approved and classified to one of the following Reaction to Fire (RTF) classification systems:

- Non-combustible to BS 476-4 Fire tests on building materials and structures. Non-combustibility test for materials.
- Class O as defined in Approved Document B - Fire Safety, The Building Regulations 2000.
- EN 13501-1 Fire classification of construction products and building elements. Classification using test data from reaction to fire tests. Note: LPCB approvals under this standard are limited to materials or products resulting in a classification of A1, A2 or B. Products under A2 or B will also be classified in relation to the additional classifications of s and d (eg s3, d2).

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Certificate No: 022e to SD 198 (Appendix B14) / EN 13501-1

Product Name	LPCB Ref. No.
Cladding Roll - Aluminium foil faced	022e/01
Cladding Roll - Unfaced	
Cladding Roll - White tissue faced	022e/02
Cavity Batts - Unfaced	
Rainscreen Duo-slabs - Unfaced	022e/03
Ranscreen Duo-slabs - Black tissue faced	022e/04
Flaxi Batts - Unfaced	
Hardrock Dual Density Roofing Boards - Black tissue faced	022e/05
Hardrock Dual Density Roofing Boards - Unfaced	
Hardrock Dual Density Roofing Boards - White tissue faced	022e/06
DuoRock Roofing Boards - Black tissue faced	
DuoRock Roofing Boards - Unfaced	
DuoRock Roofing Boards - White tissue faced	
Rockwool Hardrock Dual Density Multi-Fix-Cream glass fibre tissue faced	022e/07

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 3

LPS 1132 WALL & FLOOR PENETRATION AND LINEAR GAP SEALS

The following products have been approved to LPS 1132 *Requirements and tests for LPCB approval of wall & floor penetration & linear gap seals* to help ensure fire resisting compartment walls and floors are not compromised by the installation of building services that pass between fire resisting compartments.

The design requirements for these products are described in more detail in Section 4.6 of the *LPC Design Guide for the Fire Protection of Buildings: 2000*.

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Certificate No: 1457a to LPS 1132 Issue 4

Suresnap cast in fire collars

Product Name	LPCB Ref. No.
Suresnap cast in fire collars - H65S	1457a/01
Suresnap cast in fire collars - H100S	1457a/02
Suresnap cast in fire collars - H110S	1457a/03
Suresnap cast in fire collars - H150S	1457a/04

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

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Certificate No: 628a to LPS 1132: Issue 4

Product Name	Use	Element of Construction	Fire Resistance (min) Integrity	Fire Resistance (min) Insulation	LPCB Ref. No.
RGB 2, 4, 6, 8 & RGB 180, 240 & 360	Cables	Concrete or masonry Floor	240	120	628a/01
	Steel pipes	Concrete or masonry Floor	240	60	
	Cables	Concrete or masonry Wall	240	60	
	Steel pipes	Concrete or masonry Wall	240	60	
RGBO 2, 4, 6, 8 & RGBO 180, 240 & 360	Cables	Concrete or masonry Floor	240	120	628a/02

PART 1: SECTION 3**LPS 1132 WALL & FLOOR PENETRATION AND LINEAR GAP SEALS**

Product Name	Use	Element of Construction	Fire Resistance (min) Integrity	Fire Resistance (min) Insulation	LPCB Ref. No.
RGP 50, 70, 100, 150, 200 & 300	Steel pipes	Concrete or masonry Floor	240	60	628a/03
	Cables	Concrete or masonry Wall	240	60	
	Steel pipes	Concrete or masonry Wall	240	60	
	Cables	Concrete or masonry Floor	360	120	
	Steel pipes	Concrete or masonry Floor	240	60	
	Cables	Concrete or masonry Wall	360	120	
RGPO 50, 70, 100, 150, 200 & 300	Steel pipes	Concrete or masonry Floor	240	60	628a/04
	Cables	Concrete or masonry Wall	360	120	
	Steel pipes	Concrete or masonry Floor	240	60	
	Cables	Concrete or masonry Wall	360	120	
	Steel pipe	Concrete or masonry Wall	240	60	

Note:

Please refer to manufacturer's product data for maximum aperture sizes and installation details.

Rockwool Limited

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Certificate No: 022b(2) to LPS 1132: Issue 4

Product Name	Product Type(s)	Wall Width (mm)	Firestop Width (mm)	Application	Fire Resistance (min) Integrity/Insulation	LPCB Ref. No.
Rockwool FirePro™ Linear and Trapezoidal Firestop Systems	Trapezoidal Firestop 2B & Linear Firestop 2A	100	100	Profiled metal deck over block work wall, deck profiles running across the wall line	120/120	022b/03
	Trapezoidal Firestop 2B & Linear Firestop 2A	150	150	Profiled metal deck over blockwork wall, deck profiles running across the wall line	180/180	
	Trapezoidal Firestop 2B & Linear Firestop 2A	200	200	Profiled metal deck over blockwork wall, deck profiles running across the wall line	240/240	

PART 1: SECTION 3

LPS 1132 WALL & FLOOR PENETRATION AND LINEAR GAP SEALS

Product Name	Product Type(s)	Wall Width (mm)	Firestop Width (mm)	Application	Fire Resistance (min) Integrity/Insulation	LPCB Ref. No.
	Trapezoidal Firestop 2B & Linear	100	100	Profiled metal deck over blockwork wall, deck profiles running across the wall line	120/120	
	Firestop 2A Trapezoidal	150	150	Profiled metal deck over blockwork wall, deck profiles running across the wall line	180/180	
	Firestop 2A Trapezoidal	200	200	Profiled metal deck over blockwork wall, deck profiles running across the wall line	240/240	
	Firestop 2B Trapezoidal	100	100	Profiled metal deck over blockwork wall, single deck profile running in line, but asymmetrical with wall line	120/120	
	Firestop 2A Trapezoidal	150	150	Profiled metal deck over blockwork wall, single deck profile running in line, but asymmetrical with wall line	180/180	
	Firestop 2A Trapezoidal	200	200	Profiled metal deck over blockwork wall, single deck profile running in line, but asymmetrical with wall line	240/240	
	Firestop 2B Trapezoidal	100	100	Profiled metal deck over blockwork wall, single deck profile running in line, but asymmetrical with wall line	120/120	
	Firestop 2A Trapezoidal	150	150	Profiled metal deck over blockwork wall, single deck profile running in line, but asymmetrical with wall line	180/180	
	Firestop 2A Trapezoidal	200	200	Profiled metal deck over blockwork wall, single deck profile running in line, but asymmetrical with wall line	240/240	
	Firestop 2B Trapezoidal	100	100	Profiled metal deck over blockwork wall, trapezoidal deck profiles running across wall line	120/120	
	Firestop 2A Trapezoidal	150	150	Profiled metal deck over blockwork wall, trapezoidal deck profiles running across wall line	180/180	
	Firestop 2A Trapezoidal	200	200	Profiled metal deck over blockwork wall, trapezoidal deck profiles running across wall line	240/240	
	Firestop 2A Linear	100	100	Profiled metal composite deck over blockwork, Dovetail deck profiles running across wall line	120/120	
	Firestop 2A & Dovetail Infil Strips Linear	150	150	Profiled metal composite deck over blockwork, Dovetail deck profiles running across wall line	180/180	
	Firestop 2A & Dovetail Infil Strips Linear	200	200	Profiled metal composite deck over blockwork, Dovetail deck profiles running across wall line	240/240	
	Firestop 2B Trapezoidal	100	100	Profiled metal composite deck over blockwork, Trapezoidal deck profiles running in line with wall line	120/120	
	Firestop 2A Trapezoidal	150	150	Profiled metal composite deck over blockwork, Trapezoidal deck profiles running in line with wall line	180/180	

PART 1: SECTION 3

LPS 1132 WALL & FLOOR PENETRATION AND LINEAR GAP SEALS

Product Name	Product Type(s)	Wall Width (mm)	Firestop Width (mm)	Application	Fire Resistance (min) Integrity/Insulation	LCB Ref. No.
	Trapezoidal Firestop 2B & Linear Firestop 2A	200	200	Profiled metal composite deck supported by steel universal beam. Fire resistance times quoted cannot exceed fire resistance of protected beams	240/240	
	Trapezoidal Firestop 2B	100	100	Profiled metal composite deck supported by steel universal beam. Fire resistance times quoted cannot exceed fire resistance of protected beams	120/120	
	Trapezoidal Firestop 2B	150	150	Profiled metal composite deck supported by steel universal beam. Fire resistance times quoted cannot exceed fire resistance of protected beams	180/180	
RockwoolFirePro™ Linear and Trapezoidal Firestop Systems	Trapezoidal Firestop 2B	200	200	Profiled metal composite deck supported by steel universal beam. Fire resistance times quoted cannot exceed fire resistance of protected beams	240/240	
Rockwool FirePro™ Linear and Trapezoidal Firestop Systems	Trapezoidal Firestop 2B	100	100	Profiled metal composite deck supported by steel universal beam. Fire resistance times quoted cannot exceed fire resistance of protected beams	120/120	
	Trapezoidal Firestop 2B	150	150	Profiled metal composite deck supported by steel universal beam. Fire resistance times quoted cannot exceed fire resistance of protected beams	180/180	
	Trapezoidal Firestop 2B	200	200	Profiled metal composite deck supported by steel universal beam. Fire resistance times quoted cannot exceed fire resistance of protected beams	240/240	
	Linear Firestop 2A	100	100	Plain concrete deck over blockwork wall	120/120	
	Linear Firestop 2A	150	150	Plain concrete deck over blockwork wall	180/180	
	Linear Firestop 2A	200	200	Plain concrete deck over blockwork wall	240/240	
	Linear Firestop 2A	100	100	Plain concrete deck over blockwork wall, principle of multi-layering fire stops. The head of wall void can be filled by layering two or three firestops provided that the layers thickness does not exceed wall width and the compression/tightness of fit note above is followed	120/120	
	Linear Firestop 2A	150	150	Plain concrete deck over blockwork wall, principle of multi-layering fire stops. The head of wall void can be filled by layering two or three firestops provided that the layers thickness does not exceed wall width and the compression/tightness of fit note above is followed	180/180	
	Linear Firestop 2A	200	200	Plain concrete deck over blockwork wall, principle of multi-layering fire stops. The head of wall void can be filled by layering two or three firestops provided that the layers thickness does not exceed wall width and the compression/tightness of fit note above is followed	240/240	

PART 1: SECTION 3

LPS 1132 WALL & FLOOR PENETRATION AND LINEAR GAP SEALS

Product Name	Product Type(s)	Wall Width (mm)	Firestop Width (mm)	Application	Fire Resistance (min) Integrity/Insulation	LPCB Ref. No.
	Trapezoidal Firestop 2B & Linear Firestop 2A	100	100	Profiled concrete deck over blockwork. Deck profiles running in either direction	120/120	
	Trapezoidal Firestop 2B & Linear Firestop 2A	150	150	Profiled concrete deck over blockwork. Deck profiles running in either direction	180/180	
	Trapezoidal Firestop 2B & Linear Firestop 2A	200	200	Profiled concrete deck over blockwork. Deck profiles running in either direction	240/240	

Notes:

- When the Firepro Linear and Trapezoidal Firestop Seals are being installed they must be a tight and an accurate fit, closely following the profile of the gap. The Firepro Linear Firestop 2A material must be compressed by at least 5%.
- Gaps between the top of the wall and the soffit of the deck/floor of sizes, other than the tested depth of 25mm, may be sealed providing that the Firepro Linear Firestop 2A is compressed by at least 5%. If more than one layer is used, the layers should be installed simultaneously to ensure that the full width of the gap is uniformly filled.
- The maximum gap size covered by this approval between the top of the wall and the soffit of the deck/floor is the thickness of the wall.
- Where the deck voids run parallel but outside the line of the blockwork wall, Firestop 2A should be fixed to the deck above at maximum 350mm centres.
- Care should be taken that any joints between lengths of Firepro Linear Firestop material should be fitted tightly together with no gaps.
- Therefore this certificate applies to gaps over walls constructed of dense aggregate concrete, lightweight aggregate concrete, clay bricks or concrete blocks, which have a density greater than 400kg/m³.
- This certificate applies to any trapezoidal or dovetail steel deck providing the cavity of the trapezoidal or dovetail steel deck can be adequately filled with the Rockwool Firepro Linear Firestop system.
- When the gap being sealed and is located between a structural steel beam and a profiled steel deck, with or without concrete, the beam should be fire protected with a suitable board system.
- It is assumed that the steel deck will remain horizontal or bow downwards in the event of a fire. If there is a possibility that the configuration of the steel deck and wall or beam being considered is such that an upward deformation of the deck is likely, then a reduced fire performance of the seal can be expected.
- Refer to manufacturer's technical literature for fixing details.

Certificate No: 022b(3) to LPS 1132: Issue 4

Product Name	Application	Cavity Width (mm)	Barrier Size (mm)	Fire Resistance (min) Integrity	Fire Resistance (min) Insulation	LPCB Ref. No.
Rockwool Firepro™ TCB Cavity Barrier	Masonry/timber frame and masonry cavity walls	50 - 55	65 X 65	60	30	022b / 04
	Masonry/timber frame and masonry cavity walls	56 - 65	75 x 75	60	30	
	Masonry/timber frame and masonry cavity walls	66 - 75	85 x 85	60	30	
	Masonry/timber frame and masonry cavity walls	76 - 80	90 x 90	60	30	
	Masonry/timber frame and masonry cavity walls	81 - 90	100 x 100	60	30	
	Masonry/timber frame and masonry cavity walls	91 - 100	110 x 110	60	30	
	Masonry/timber frame and masonry cavity walls					

PART 1: SECTION 3

LPS 1132 WALL & FLOOR PENETRATION AND LINEAR GAP SEALS

Product Name	Application	Cavity Width (mm)	Barrier Size (mm)	Fire Resistance (min) Integrity	Fire Resistance (min) Insulation	LPCB Ref. No.
	Masonry/timber frame and masonry cavity walls	101 - 110	120 x 120	60	30	
	Masonry/timber frame and masonry cavity walls	111 - 120	130 x 130	60	30	
	Masonry/timber frame and masonry cavity walls	121 - 130	140 x 140	60	30	
	Masonry/timber frame and masonry cavity walls	131 - 140	150 x 150	60	30	
	Timber frame	50 - 55	65 x 65	30	30	
	Timber frame	56 - 65	75 x 75	30	30	
	Timber frame	66 - 75	85 x 85	30	30	
	Timber frame	76 - 80	90 x 90	30	30	
	Timber frame	81 - 90	100 x 100	30	30	
	Timber frame	91 - 100	110 x 110	30	30	
	Timber frame	101 - 110	120 x 120	30	30	
	Timber frame	111 - 120	130 x 130	30	30	
	Timber frame	121 - 130	140 x 140	30	30	
	Timber frame	131 - 140	150 x 150	30	30	
	Timber frame	50 - 55	75 x 75	60	30	
	Timber frame	56 - 65	75 x 75	60	30	
	Timber frame	66 - 75	85 x 85	60	30	
	Timber frame	76 - 80	90 x 90	60	30	
	Timber frame	81 - 90	100 x 100	60	30	
	Timber frame	91 - 100	110 x 110	60	30	
	Timber frame	101 - 110	120 x 120	60	30	
	Timber frame	111 - 120	130 x 130	60	30	
	Timber frame	121 - 130	140 x 140	60	30	
	Timber frame	131 - 140	150 x 150	60	30	
	Timber frame	81 - 90	100 x 100	60	60	
	Timber frame	91 - 100	110 x 110	60	60	
	Timber frame	101 - 110	120 x 120	60	60	
	Timber frame	111 - 120	130 x 130	60	60	
	Timber frame	121 - 130	140 x 140	60	60	

Notes:

1. Rockwool Firepro™ TCB Cavity Barrier is designed for use between the leaves of a masonry cavity wall, timber frame construction, or between a timber frame inner leaf and masonry outer leaf.
2. Barriers can be installed vertically or horizontally.
3. Refer to manufacturer's technical literature for fixing details.

PART 1: SECTION 4

STRUCTURAL STEEL AND CONCRETE MEMBERS FIRE PROTECTION

The protection of the structural integrity of a building is important for life safety of the occupants, fire fighters and for the cost-effective repair of the building post fire. When a building is involved in a fire, structural steelwork and concrete members can resist the damaging effects of the high temperatures generated if suitably protected.

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Certificate No: 1192n to SD198 (Appendix B15)/AS 4100

Product Name	LPCB Ref. No.
STEELGUARD 751 / STEELGUARD 851	1192n/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 4.1

LPS 1107 STRUCTURAL STEEL FIRE PROTECTION - BOARD AND CEMENTITIOUS COVERINGS

This section covers structural steel fire protection with use of board or cementitious coverings approved to LPS 1107 *Requirements, Tests and Methods of Assessment of Passive Fire Protection Systems for Structural Steelwork*.

PART 1: SECTION 4.2

STRUCTURAL STEEL FIRE PROTECTION - INTUMESCENT THIN FILM COATINGS

The protection of the structural integrity of a building is important for life safety of the occupants, fire fighters and for the cost-effective repair of the building post fire. When a building is involved in a fire, structural steelwork can resist the damaging effects of the high temperatures generated if suitably protected.

This section covers structural steel fire protection with use of intumescent thin film coatings approved to SD075 *Fire Protection for Structural Steelwork (Intumescent Systems)* (BS 476: Parts 20 & 21).

International Paint Limited

Stoneygate Lane, Felling, Gateshead, Tyne & Wear NE10 0JY, United Kingdom

Tel: +44 (0) 191 469 6111 • Fax:

E-mail: Neil.Wheat@akzonobel.com • Website: www.international-pc.com

Certificate No: 1109a(2) to SD198 (Appendix B15)/BS 476: Part 21

Interchar 1260

Product Name	LPCB Ref. No.
Interchar 1260	1111a/02 / 1307a/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1109a(1) to SD198 Appendix B15 / BS 476: Part 21

Interchar 1190

Product Name	LPCB Ref. No.
Interchar 1190	1111a/01 1307a/01 1372a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PPG Coatings Europe BV

Oceanenweg 2, 1047 BB, Amsterdam, The Netherlands

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Certificate No: 1192a to SD198 Appendix B15 / EN 1363-1:1999

STEELGUARD™701 / STEELGUARD™801

Product Name	Steel Section	Steel Section factor range (Hp/A)	DFT dry film thickness range (mm)	Critical Temperature Range (° C)	FireResistance Period(mins)	Appendix No.	LPCB Ref. No.
STEELGUARD™701 / STEELGUARD™801	Circular steel solid rods	40 - 215	0.24 - 4.82	350, 400, 450, 500, 550, 600, 650, 700 & 750	30, 60, 90 & 120	1	1192a/01

A copy of the certificate, confirming the relationship between DFT dry film thickness, critical temperature and fire resistance period must be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1192b to SD198 (Appendix B15) / EN 13381-8: 2010

PART 1: SECTION 4.2

STRUCTURAL STEEL FIRE PROTECTION - INTUMESCENT THIN FILM COATINGS

STEELGUARD™701 / STEELGUARD™801

Product Name	Steel Section	Steel Section Factor Range (Hp/A)	DFT Dry Film Thickness Range (mm)	Critical Temperature Range (° C)	Fire Resistance Period (mins)	Appendix No.	LPCB Ref. No.
STEELGUARD™701 / STEELGUARD™801	I & H Section Beams, 3 Sided Exposure	60 - 315	0.257 - 0.501	350, 400, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 700	15, 20, 30, 45, 60, 90 & 120	1	1192b/01
	I & H Section Columns, 4 Sided Exposure	70 - 310	0.232 - 1.046	350, 400, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 700	15, 20, 30, 45, 60 & 90	2	
	I & H Section Beams, 4 Sided Exposure	70 - 310	0.232 - 1.487	350, 400, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 700	15, 20, 30, 45, 60 & 90	3	
	Circular Hollow Section Columns	50 - 220	0.581 - 2.218	350, 400, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 700	15, 20, 30, 45 & 60	4	
	Rectangular / Square Hollow Section Columns, 4 Sided Exposure	50 - 235	0.629 - 2.284	350, 400, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 700	15, 20, 30, 45 & 60	5	

Notes:

- Please refer to the relevant appendix number referenced in the table above to view the relationship between DFT dry film thickness, Critical Temperature and Fire Resistance Period.
- LPCB Ref No. 1192b/01 - STEELGUARD™ 701 / STEELGUARD™ 801 is approved for use with Amercoat 71, a two part, epoxy-based primer, applied to the steel at a normal dry film thickness of 50µm (microns) prior to application of the STEELGUARD™ 701 / STEELGUARD™ 801. The primer and intumescent coating are applied using airless paint spray equipment.

A copy of the certificate and required appendix confirming the relationship between DFT dry film thickness, Critical Temperature and Fire Resistance period must be viewed online by clicking on the links on the associated entry on www.redbooklive.com

Certificate No: 1192d to SD198 (Appendix B15)/EN 13381-8:2010

STEELGUARD™702 / STEELGUARD™802

Product Name	Steel Section	Steel Section Factor range (Hp/A)	DFT Dry Film Thickness Range (mm)	Critical Temperature Range (° C)	Fire Resistance Period (mins)	Appendix No.	LPCB Ref. No.
STEELGUARD™702 / STEELGUARD™802	Circular Hollow Section Columns	50 - 235	0.717 - 3.822	350, 400, 450, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 700	15, 20, 30, 45, 60 & 90	1	1192d/01
	Rectangular/Square Hollow Section Columns	50 - 215	0.722 - 3.595	350, 400, 450, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 700	15, 20, 30, 45, 60 & 90	2	

Notes:

PART 1: SECTION 4.2

STRUCTURAL STEEL FIRE PROTECTION - INTUMESCENT THIN FILM COATINGS

1. Please refer to the relevant appendix number referenced in the table above to view the relationship between DFT dry film thickness, Critical Temperature and Fire Resistance Period.
2. LPCB Ref. No. 1192d/01 - STEELGUARD™ 702 / STEELGUARD™ 802 is approved for use with Amercoat 71P, a two part polyimide cured epoxy-based primer, applied to the steel at a normal dry film thickness of 100µm (microns) prior to application of the STEELGUARD™ 702 / STEELGUARD™ 802. The primer and intumescent coating are applied using airless paint spray equipment.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1192k to SD 198 (Appendix B15)/ISO 834: Part 10

Product Name	Steel Section	Steel Section Factor range (Hp/A)	DFT Dry Film Thickness Range (mm)	Critical Temperature Range (° C)	Fire Resistance Period (mins)	Appendix No.	LPCB Ref. No.
STEELGUARD™ 751 / STEELGUARD™ 851	I- section beams, 3 sided exposure	65 - 325	0.690 4.528	350, 400, 450, 500, 538, 550, 593, 600, 650, 700 & 750	15, 30, 45, 60, 75, 90, 105 & 120	1	1192k/01
	I- section columns, 4 sided exposure	65 - 355	1.415 5.575	350, 400, 450, 500, 538, 550, 593, 600, 650, 700 & 750	15, 30, 45, 60, 75, 90, 105 & 120	2	
	Circular hollow section columns with all round exposure	45 - 230	2.035 7.218	350, 400, 450, 500, 538, 550, 593, 600, 650, 700 & 750	15, 30, 45, 60, 75, 90, 105 & 120	3	
	Rectangular hollow section columns 4 sided exposure	45 - 245	2.096 7.150	350, 400, 450, 500, 538, 550, 593, 600, 650, 700 & 750	15, 30, 45, 60, 75, 90, 105 & 120	4	
	Rectangular hollow section beams 3 sided exposure	45 - 245	0.673 3.696	350, 400, 450, 500, 538, 550, 593, 600, 650, 700 & 750	15, 30, 45, 60, 75, 90, 105 & 120	5	

Notes:

1. Please refer to the relevant appendix number referenced in the table above to view the relationship between DFT dry film thickness, Critical Temperature and Fire Resistance Period.
2. LPCB Ref. No. 1192k/01 - STEELGUARD 751 / STEELGUARD 851 thicknesses shown in table is intumescent only. The intumescent coating are applied using airless paint spray equipment.
3. Results from analysis of I- or H- sections are directly applicable to angles, channels and T- sections for the same section factor, whether used as individual elements or as bracing.
4. The results of the analysis for columns can be applied to beams exposed on all four sides up to a maximum dry film thickness of 4.528mm for I- and H- sections and 3.696mm for rectangular hollow sections.

Approved Manufacturers

The following Companies manufacture the product listed on this certificate. These Companies are audited by the LPCB to ensure the product certification requirements are met.

PPG Coatings SPRL / BVBA
(LPCB No 1249)
Tweemontstraat 104
BE-2100 Deurne
Antwerp
Belgium

Certificate No: 1192m to SD198 (Appendix B15) / BS476-21: 1987

STEELGUARD™ 651

Product Name	LPCB Ref. No.
STEELGUARD™ 651	1192m/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1192l to SD198 (Appendix B15) / EN 13381-8

PART 1: SECTION 4.2

STRUCTURAL STEEL FIRE PROTECTION - INTUMESCENT THIN FILM COATINGS

STEELGUARD™ 651

Product Name	LPCB Ref. No.
STEELGUARD™ 651	1192I/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1192c to SD198 (Appendix B15) / BS 476-21: 1987

STEELGUARD™701 / STEELGUARD™801

Product Name	LPCB Ref. No.
STEELGUARD™701 / STEELGUARD™801	1192c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 4.3

STRUCTURAL CONCRETE MEMBERS FIRE PROTECTION

The products listed in section are assessed against the requirements of Scheme Document SD198 which details the requirements of the approval and certification process, and prEN 13381-3 (DPC 12/30259154 DC dated 15/05/2012) which specifies a test and assessment method for determining the contribution of fire protection systems to the fire resistance of structural concrete members, for instance slabs, floors, roofs and walls and which can include integral beams and columns. The concrete can be lightweight, normal weight or heavyweight concrete and of all strength classes (e.g. 20/25 to 50/60 for normal strength concrete and for high strength concrete 55/67 to 90/105). The test method, test results and the assessment method are not applicable to structural hollow concrete members and therefore the LPCB approvals in this section do not apply to such applications.

The member shall contain steel reinforcing bars.

The approval is applicable to all fire protection materials used for the protection of concrete members and includes sprayed materials, coatings, cladding protection systems and multi-layer or composite fire protection materials, with or without a gap between the fire protection material and the concrete member.

PART 1: SECTION 5

PROTECTIVE COVERING MATERIALS & SCAFFOLD CLADDING

This section includes LPS 1207 *Fire requirements for protective covering materials* which are used during the construction of new buildings and renovation of existing buildings, and LPS 1215 *Requirements for the LPCB Approval and Listing of Scaffold cladding materials*.

PART 1: SECTION 5.1

LPS 1207 PROTECTIVE COVERING MATERIALS

During the construction of new buildings and renovation of existing buildings, it is common to use sheeting made from plastic or similar materials to provide protection against the weather, dust and other materials produced by work in adjacent areas. If a material complies with LPS 1207 *Fire requirements for protective covering materials* it will not add significantly to the fire risk. This standard is referred to in *The Joint Code of Practice on the Protection from Fire of Construction Sites & Buildings Undergoing Renovation, 8th Edition* published by the FPA in association with RISC Authority

Bainbridge International Limited

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Certificate No: 1058a to LPS 1207 Issue 3

Wall Cover Guard, Floor Cover Guard

Product Name	LPCB Ref. No.
Wall Cover Guard CG 0636TF/CG0672TF	1058a/01
Floor Cover Guard CG1036DP/CG1072DP CG1336DP/CG1372DP CG2536DP/CG2572DP CG4036DP/CG4072DP	1058a/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Berry bpi Packaging Solutions (trading as a division of British Polythene Limited)

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Website: www.bpipoly.com

Certificate No: 521a to LPS 1207 Issue 3

Product Name	LPCB Ref. No.
Visqueen Flame Retardant Polythene Protection	521a/03
Visqueen Megafilm	
Bpi FR+ Door Sleeves	521a/04
Bpi FR+ Flame Retardant Sheeting	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

BMI Group UK Limited

BMI House, 2 Pitfield, Kiln Farm, Milton Keynes MK11 3LW, United Kingdom

Tel: +44 (0)330 123 4585 • Fax: +44 (0)330 123 4595

E-mail: technical.uk@bmigroup.com • Website: bmigroup.com/uk

Certificate No: 572c to LPS 1207 Issue 3

Product Name	LPCB Ref. No.
Monarflex Super T Plus Firesmart	572c/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 5.1.1

LPS 1207 PROTECTIVE COVERING MATERIALS - SHEETING

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E-mail: Dean.reeves@bryson.co.uk • Website: www.bryson.co.uk

Certificate No: 341a-x2 to LPS 1207 Issue 3

Swiftguard Twin-Flute White Protection Board

Product Name	LPCB Ref. No.
Swiftguard Twin-Flute White Protection Board	341a-x2/01
Swiftguard Twin-Flute Black Protection Board	341a-x2/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Core Industrial Plastics Limited

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E-mail: sales@coreplastics.co.uk

Certificate No: 803a to LPS 1207: Issue 3

Total Board-Flame Retardant Protection Board

Product Name	LPCB Ref. No.
Total Board-Flame Retardant Protection Board	803a/01
	803a/02
	803a/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Corplex Plastics UK Ltd trading as Corplex UK

Unit 7a - 7b Madleave Road, , Gloucester GL1 5SG, United Kingdom

Tel: 01452 316 522

E-mail: Nigel.Davenport@corplex.com; correx.sales@corplex.com • Website: www.corplex.com

Certificate No: 227a to LPS 1207 Issue 3

Correx®

Product Name	LPCB Ref. No.
Correx®	227a/01
	227a/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Distriplast Flandre SAS

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Website: www.distriplast.com

Certificate No: 1353a to LPS 1207: Issue 3

PART 1: SECTION 5.1.1
LPS 1207 PROTECTIVE COVERING MATERIALS - SHEETING

Product Name	LPCB Ref. No.
FT BLL2 Diplast FR	1353a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Don & Low Ltd, Nonwovens

Glamis Road, Forfar, Angus DD8 1EY, United Kingdom
Tel: +44 (0)1307 452600 • Fax: +44 (0)1307 452635
E-mail: nonwovens@donlow.co.uk • Website: www.donlow.com

Certificate No: 726a to LPS 1207: Issue 3

Daltex Flame Retardant Spunbound (A100E5TFR)

Product Name	LPCB Ref. No.
Daltex Flame Retardant Spunbound (A100E5TFR)	726a/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Florprotec Limited

Relay Park, Relay Drive, Tamworth B77 5PR, United Kingdom
Tel: +44 (0)1827 831440 • Fax: +44 (0)1827 831441
E-mail: sales@florprotec.co.uk • Website: www.floorprotection.co.uk

Certificate No: 726a-x2 to LPS 1207: Issue 3

Florprotec® Breatha-Flor

Product Name	LPCB Ref. No.
Florprotec® Breatha-Flor	726a-x2/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

IPB N.V.

Steenovenstraat 30, B-8790 Waregem, Belgium
Tel: + 32 (0)56 60 79 19 • Fax: + 32 (0)56 61 08 85
E-mail: david.stofferis@iplast.be • Website: www.iplast.be

Certificate No: 365a to LPS 1207 Issue 3

Biplex

Product Name	LPCB Ref. No.
Biplex White	365a/01
Biplex Black	365a/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 5.1.1

LPS 1207 PROTECTIVE COVERING MATERIALS - SHEETING

Northern Ireland Plastics Limited

39 Shrigley Road, Killyleagh, Co. Down, Northern Ireland BT30 9SR, United Kingdom

Tel: +44 (0)2844 828753/4 • Fax: +44 (0)2844 828809

E-mail: info@niplastics.com

Certificate No: 341a to LPS 1207 Issue 3

Product Name	LPCB Ref. No.
Corriboard Twin Wall (White)	341a/01
Corriboard Twin Wall (Black)	341a/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Ockwells Limited

Unit 6, Transigo, Gables Way, Thatcham, Berkshire RG19 4ZA, United Kingdom

Tel: +44 (0)1635 876336 • Fax: +44 (0)1635 876338

E-mail: sales@ockwell.co.uk • Website: www.ockwells.co.uk

Certificate No: 742a-x1 to LPS 1207: Issue 3

Product Name	LPCB Ref. No.
Ockwells Twinshield	742a-x1/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 341a-x1 to LPS 1207 Issue 3

Product Name	LPCB Ref. No.
Ockwells Twinshield (White)	341a-x1/01
Ockwells Twinshield (Black)	341a-x1/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 227a-x1 to LPS 1207 Issue 3.0

Product Name	LPCB Ref. No.
TwinShield	227a-x1/01
	227a-x1/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 726a-x1 to LPS 1207: Issue3

FloorShield FR

Product Name	LPCB Ref. No.
FloorShield FR	726a-x1/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Ondaplast SpA

Via Crocetta, 3310, Longiano (FC) 47020, Italy

Tel: +39 0547 56616 • Fax: +39 0547 54087

E-mail: renzo.rossi@ondaplast.com • Website: www.ondaplast.com

Certificate No: 742a to LPS 1207: Issue 3

Product Name	LPCB Ref. No.
RE-FLAM twin wall flame retardant sheet, natural colour	742a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Protec International Limited

Construction House, Adlington Industrial Estate, Adlington, Cheshire SK10 4NL, United Kingdom

Tel: +44 (0)1625 855666 • Fax: +44 (0)1625 855601

E-mail: enquiries@protection.co.uk • Website: www.protection.co.uk

Certificate No: 843a to LPS 1207: Issue 3

Product Name	LPCB Ref. No.
CushionGard FR	843a/01
Bath Protector FR	843a/03
Bidet Protector FR	
Door Protector Sheet FR	
Edge Protector FR	
Hob & Oven Protector FR	
Proplex - Translucent	
Proplex FR HD	
Sink Protector FR	
Stair Protector FR	
WC Protector FR	
WC Protector FR (Concealed Cistern)	
Window and Door Sill Protector	
Proplex - Black	843a/05
Breather Shield FR	843a/07
Door Sleeve FR	894a/02
FR Polythene - Heavy, Medium and Light Duty	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Sealed Air Limited

Telford Way, Kettering, Northants NN16 8UN, United Kingdom

Tel: 01536 315 700 • Fax: 01536 315 702

E-mail: kettering.orders@sealedair.com • Website: www.sealedair.com

Certificate No: 505b to LPS 1207: Issue 3

Product Name	Thickness (mm)	Weight (g/m ²)	Base material colour	Assessed for additional print (logos, advertising etc) (see note 1)	LPCB Ref. No.
EMFR	4mm Bubble	60 ± 2	White	No	505b/03

Note:

- All approved product shall be suitably marked in accordance with the requirement of LPS 1207: Issue 3, clause 5. Additional print refers to, for example, distributor, contractor or contract logos or pictures, product use and additional site safety information or advertising, and is applied in addition to the required approval marking of clause 5.

PART 1: SECTION 5.1.1

LPS 1207 PROTECTIVE COVERING MATERIALS - SHEETING

Solicom SA

Rue de Drinklange 9, Troisvierges, L-9911, Luxembourg

Tel: +352 26957256 • Fax: +352 26958056

E-mail: info@solicom-verisafe.com • Website: www.solicom-verisafe.com

Certificate No: 789a to LPS 1207 Issue 3

Product Name	LPCB Ref. No.
Verisafe 200	789a/01
Verisafe B1 280	789a/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Swiftec Group

Castlepoint, Castle Way, Ellon, Aberdeenshire AB41 9RG, United Kingdom

Tel: +44 (0)1358 720888 • Fax: +44 (0)1358 720880

E-mail: info@swiftecgroupp.com • Website: www.swiftecgroupp.com

Certificate No: 1205e to LPS 1207: Issue 3

Product Name	LPCB Ref. No.
Antinox® 2/250 FR	1205e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1205c to LPS 1207: Issue 3.0

Product Name	LPCB Ref. No.
Antimar® 125 mu FR Orange Polythene Sheeting	1205c/01
Antimar® 125 mu FR White Polythene Sheeting	
Antimar® 50 mu FR White Polythene Sheeting	
Dustban® 125 mu Screening	
Dustban® 75 mu Screening	
Dustban® 75mu Flame Retardant Door Sleeves	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1205a to LPS 1207: Issue 3

Antimar® Airtech FR Breathable Fleece

Product Name	LPCB Ref. No.
Antimar® Airtech FR Breathable Fleece	1205a/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Twinplast Limited

Unit 7, Humphreys Road, Woodside Industrial Estate, Dunstable, Hertfordshire LU5 4TP, United Kingdom
Tel: +44 (0)1923 230191/817761 • Fax: +44 (0)1923 817756
E-mail: sales@twinplast.co.uk • Website: www.twinplast.co.uk

Certificate No: 1641a to LPS 1207: Issue 3

TPHalFree

Product Name	LPCB Ref. No.
TPHalFree	1641a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Ultrimax Coatings Limited

Clayfield Industrial Estate, Tickhill Road, Doncaster DN4 8QG, United Kingdom
Tel: 01302 856 666 • Fax: 01302 571 510
E-mail: Kelly.berry@ultrimaxcoatings.co.uk • Website: www.ultrimaxstore.com

Certificate No: 521a-x1 to LPS 1207 Issue 3

Product Name	LPCB Ref. No.
Tuffalo	521a-x1/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 5.1.2

LPS 1207 PROTECTIVE COVERING MATERIALS - PRE-FORMED

Scaffold cladding materials such as sheeting and netting are often used externally during construction, refurbishment or demolition of buildings to provide protection. Historically, there have been a number of significant losses associated with fires involving scaffolding. Scaffold cladding materials should not add to the fire risk if they comply with LPS 1215 *Requirements for the LPCB approval and listing of scaffold cladding materials*. This standard is referred to in *The Joint Code of Practice on the Protection from Fire of Construction Sites & Buildings Undergoing Renovation, 8th Edition* published by the FPA in association with RISC Authority

Note: LPS 1215:Issue 3 does not cover other features required of scaffold materials, such as resistance to wind, rain penetration, resistance to tearing or impact damage.

Beacon Group International Limited trading as Leach's

Beacon Park, 226-228 Holme Lacy Road, Hereford HR2 6BQ, United Kingdom

Tel: +44 0 1432 817 648

E-mail: Russell@leachs.com

Certificate No: 1502a to LPS 1215 Issue 4.0

Scaffold Cladding Materials

Product Name	LPCB Ref. No.
BIG BEN Superclad Standard Flame Retardant	1502a/01
BIG BEN Superclad Premium Flame Retardant	1502a/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

BMI Group UK Limited

BMI House, 2 Pitfield, Kiln Farm, Milton Keynes MK11 3LW, United Kingdom

Tel: +44 (0)330 123 4585 • Fax: +44 (0)330 123 4595

E-mail: technical.uk@bmigroup.com • Website: bmigroup.com/uk

Certificate No: 572d to LPS 1215 Issue 4

Product Name	LPCB Ref. No.
Monarflex Super T Plus Firesmart	572d/07
Monarflex Monarsound Flamesafe	572d/08

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Solicom SA

Rue de Drinklange 9, Troisvierges, L-9911, Luxembourg

Tel: +352 26957256 • Fax: +352 26958056

E-mail: info@solicom-verisafe.com • Website: www.solicom-verisafe.com

Certificate No: 789b to LPS 1215 Issue 4

Product Name	LPCB Ref. No.
Verisafe 320	789b/01
Verisafe B1 280	789b/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 6

CAVITY FIRE BARRIERS

The materials listed in this section can be used to sub-divide such voids as service shafts, roof and floor spaces and restrict the spread of fire. In the absence of a specific test standard for cavity barriers these products meet the performance requirements of BS 476:Part 22:1987 *Methods for determination of the fire resistance of non-loadbearing elements of construction* or EN 1364-1 *Fire resistance tests for non-loadbearing elements, walls* or 1364-2 *Fire resistance tests for non-loadbearing elements, ceilings* as set down in Approved Document B. The *LPC Design Guide for the Fire Protection of Buildings: 2000* covers the design issues in Section 4.5.

The assessment methodology used in LPS 1208 also applies to the performance assessment for these products.

Culimeta-Saveguard Limited

Tame Valley Mill, Wainwright Street, Dukinfield, Cheshire SK16 5NB, United Kingdom

Tel: +44 (0)161 344 2484 • Fax: +44 (0)161 344 2486

E-mail: sales@culimeta-saveguard.com

Certificate No: 552a to LPS 1208: Issue 2

Product Name	Specification high x wide (mm)	Orientation V-Vertical Resistance (min) Integrity	Layer of fabric	Fire Resistance (min) Integrity	Fire Resistance (min) Insulation	LPCB Ref. No.
FIREHALT 120/60	3000 x 3000	V	Double	120	60	552a/01
FIREHALT 120/30	3000 x 3000	V	Single	120	30	552a/02
FIREHALT 60/30	6000 x 20000	V	Single	60	30	552a/03
FIREHALT 30/30	6000 x 20000	V	Single	30	30	552a/04
VALBARR 120/60	3000 x 3000	V	Double	120	60	552a/05
VALBARR 120/30	3000 x 3000	V	Single	120	30	552a/06
VALBARR 60/30	6000 x 20000	V	Single	60	30	552a/07
VALBARR 30/30	6000 x 20000	V	Single	30	30	552a/08

Notes:

1. The barriers can only be installed vertically;
2. The barriers joints between individual runs in a barrier must be fixed with 2 rows of 10mm staples at 100mm staggered vertical centres and can only be installed vertically;
3. LPCB Ref no's 552a/01, 552a/05 are provided in a double layer configuration to provide a compartmentation performance of 120 minutes integrity and 60 minutes insulation;
4. LPCB Ref no's 552a/01, 552a/05 the two layers of fabric may be jointed together by means of hot melt, thermos softening adhesive spots such that it can be supplied as a single fabric component;
5. The barrier should be clamped into a concrete aperture using galvanised mild steel stud sections of dimensions 25mm by 25mm by 0.5mm thick, to the head and galvanised mild steel angle sections of dimensions 25mm by 25mm by 0.5mm thick to the remaining three edges. The stud fixing by steel Rawlbolts, M6 10P, centres 250mm.
6. Approved Manufacturers

The following Companies manufacture the product listed on this certificate. These Companies are audited by the LPCB to ensure the product certification requirements are met.

Culimeta-Saveguard Ltd
(LPCB Ref. No 552)

Dukinfield
Cheshire
SK16 5NB
United Kingdom

The products listed in this section have been assessed for use in rail transport applications in which the means of escape from a fire is limited as a result of:

- Difficulties in escaping from moving vehicles.
- The location of the fire (sub surface tunnels, viaducts, termini).
- Restricted egress from tunnels and sub surface termini.

Under such circumstances, it is essential that the materials used in the construction and furnishings of vehicles and sub surface constructions have the appropriate fire performance in terms of fire resistance and reaction to fire, including spread of flame, smoke and toxic fume emission.

This scheme provides independent third party approval for fire performance of products which have been tested and, where appropriate, classified in accordance with standards and codes of practice recognised by the transport industry or produced by the relevant transport bodies such as London Underground Limited (LUL), International Maritime Organisation (IMO) etc.

Products gaining LPCB approval under this scheme are primarily for use in transport applications such as rolling stock, shipping, motor vehicles and within transport infrastructure such as underground tunnels and transport termini.

MCT Brattberg AB

SE 37192 Karlskrona, Sweden

Tel: +46 (0) 455 375200 • Fax: +46 (0) 455 375290

E-mail: info@mctbrattberg.com • Website: www.mctbrattberg.com

UK Office:

MCT Brattberg Ltd, Commerce Street, Carrs Industrial Estate, Haslingden BB4 5JT, United Kingdom

Tel: +44 (0)1706 244890 • Fax: +44 (0)1706 244891

E-mail: info@mctbrattberg.co.uk • Website: www.mctbrattberg.co.uk

Certificate No: 628a to LPS 1132: Issue 4

Product Name	Use	Element of Construction	Fire Resistance (min) Integrity	Fire Resistance (min) Insulation	LPCB Ref. No.
RGB 2, 4, 6, 8 & RGB 180, 240 & 360	Cables	Concrete or masonry Floor	240	120	628a/01
	Steel pipe	Concrete or masonry Floor	240	60	
	Cables	Concrete or masonry Wall	240	60	
	Steel pipes	Concrete or masonry Wall	240	60	
RGOB 2, 4, 6, 8 & RGOB 180, 240 & 360	Cables	Concrete or masonry Floor	240	120	628a/02
	Steel pipes	Concrete or masonry Floor	240	60	
	Cables	Concrete or masonry Wall	240	60	

PART 1: SECTION 8

PRODUCTS ASSESSED FOR USE IN SURFACE AND SUB SURFACE TRANSPORT APPLICATIONS

Product Name	Use	Element of Construction	Fire Resistance (min) Integrity	Fire Resistance (min) Insulation	LPCB Ref. No.
RGP 50, 70, 100, 150, 200 & 300	Steel pipes	Concrete or masonry Wall	240	60	628a/03
	Cables	Concrete or masonry Floor	360	120	
	Steel pipes	Concrete or masonry Floor	240	60	
	Cables	Concrete or masonry Wall	360	120	
RGPO 50, 70, 100, 150, 200 & 300	Steel pipes	Concrete or masonry Wall	240	60	628a/04
	Cables	Concrete or masonry Floor	360	120	
	Steel pipes	Concrete or masonry Floor	240	60	
	Cables	Concrete or masonry Wall	360	120	
	Steel pipes	Concrete or masonry Wall	240	60	

Note:

1. Please refer to manufacturer's product data for maximum aperture sizes and installation details.

The timber escape stairs listed in this section are assessed against the requirements of Scheme Document SD 198 which details the requirements of the approval and certification process, and BD2569 Fire Performance of Escape Stairs Guidance Document which details the method of test and assessment for escape stairs based on a realistic fire scenario. The procedure consists of a fire test to evaluate the reaction-to-fire performance of the stair assembly and a subsequent load test to evaluate the structural performance of the stair assembly following a fire incident. The scheme applies only to stairs used in:

- Single occupancy dwellings
- Communal areas in blocks of flats
- Areas where people may congregate as defined in Table 1 of BS 6399-13.

This approval scheme is run in partnership with the British Woodworking Federation (BWF).

Jeld-Wen UK Ltd

Snow Hill, Melton Mowbray, Leicestershire LE13 1PD, United Kingdom

Tel: 0845 122 2890

E-mail: staircustomerservices@jeld-wen.co.uk • Website: www.jeld-wen.co.uk/stairs

Certificate No: 1023a to SD198 (Appendix B11)/BD2569

Jeld-Wen Fire Protected Stair

Product Name	LPCB Ref. No.
Jeld-Wen Fire Protected Stair	1023a/02
	1023a/08

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 10

FIRE RESISTANT GLAZING SYSTEMS

The products listed in this section are approved to:-

LPS 1158: Requirements and tests for fire resistant glazing systems

This Standard details the requirements for the certification of fire resisting glazing.

Fire resisting glazing systems consist of one or more transparent or translucent panes with a suitable method of mounting, with e.g. frames, seals and fixing materials, capable of satisfying the appropriate fire resistance criteria.

It is applicable to both insulating and non-insulating glass/glazing systems having fire resistances of Up to 240 minutes in either horizontal and/or vertical orientations.

The applicable test standards are:-

- BS 476: Part 20
- EN 1364 Part 1

Alufire Sp.Z o.o.Sp.K

Ul. Warszawka 64a, 87-148 Lysomice K. Torunia, , Poland

Tel: +48 56 674 88 11 • Fax: +48 56 674 88 10

E-mail: biuro@alufire.pl • Website: <http://www.alufire.biz.pl/>

Certificate No: 1406a to LPS 1158

Product Name	LPCB Ref. No.
ALUFIRE EI30	1406a/01
ALUFIRE EI60	1406a/02
ALUFIRE EI120	1406a/03
ALUFIRE Vision Line EI30	1406a/04
ALUFIRE Vision Line EI60	1406a/05

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com