LPCB Red Book

2

Part: 5

Construction products

bre

Last updated: 27 Nov 2020

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:

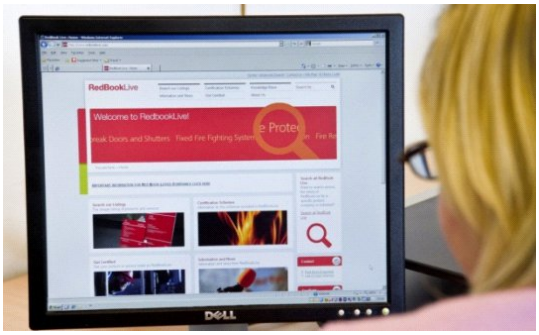
Volume 1:
- Fire detection and alarm products, systems, and cables
- Manual fire extinguishing equipment
- Automatic sprinkler, water spray and deluge systems
- Fixed fire fighting products and systems
- Watermist systems
- Related installers

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.

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:-

5 Construction products **1**
SECTION 1 Membranes 3
SECTION 2 Wall and roof cladding systems 4

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PermaRock Products Limited 5

Part 5

CONSTRUCTION PRODUCTS

PART 5: CONSTRUCTION PRODUCTS

INTRODUCTION

The products listed in this part of the Red Book have been assessed for ‘Technical Approval’ (or Certification) based on the intended use of the product, and take into account the UK Building Regulations, Highways Regulations, the Essential Requirements from the Construction Products Regulation (CPR) and other directives as necessary.

Most of the approvals listed are for products and systems for which there are no directly applicable recognised standards and a Technical Approval certification has been granted. Where British, European or other recognised standards apply, we also approve products against these standards.

The granting of certification depends on the type testing and initial factory assessments meeting the relevant standards and scheme requirements laid down. Certification is maintained by regular factory production control surveillance visits and, where specified, the testing of audit samples to ensure that the product continues to be made in exactly the same way.

The scope of products approved under this section is as follows:

Membranes for buildings manufactured from polymers, bitumen, rubbers and metal foil in liquid applied or sheet form for use as continuous or discontinuous layers for the control of the movement of air, liquid water, water vapour, carbon dioxide, radon and methane through floor, wall, roof and internal elements of buildings and structures over a specified design life.

The scope of products covered under this scheme is as follows:

Wall and roof cladding products, systems and kits for domestic, commercial and industrial building applications manufactured from metals, plastics, timber, glass, natural stone, clay and cementitious based materials and composites to provide decoration, and weather resisting, fire, thermal and acoustic protection.

IMPORTANT NOTICE

NEW REGULATIONS RELATED TO FIRE PERFORMANCE AND CLADDING SYSTEMS ON EXTERNAL WALLS OF BUILDINGS WITH A STOREY 18m ABOVE GROUND LEVEL IN ENGLAND

The validity of the external wall cladding system included within PermaRock Products Ltd Certificate No. 158/12 is impacted by the Building (Amendment) Regulations 2018 (SI 2018/1230) (the "Amendment Regulations") which apply to buildings and building work in England and which came into force on 21st December 2018.

The relevant buildings to which the new Regulations apply are those with a storey at least 18m above ground level and which contain;

- One or more dwellings or
- An institution or
- A room for residential purposes (excluding any room in a hostel, hotel or boarding house)

This specifically includes buildings with a storey at least 18m above ground floor level as follows;

- Residential blocks of flats
- Student accommodation
- Care homes
- Sheltered housing
- Hospitals
- Dormitories in boarding schools

In all these cases, all materials forming a part or element of an external wall or attachment must now achieve a class A2-s1, d0 or A1 in accordance with BS EN 13501-1:2007+A1:2009 for use 18m above ground level.

This means that some of the system within this certificate that previously complied with the building regulations and the guidance in Approved Document (AD) B through classification in accordance with BR 135 are no longer permitted for use on buildings of the above types, with a storey at least 18m above ground level. The certificates should be read alongside The Building (Amendment) Regulations 2018 (SI 2018 No. 1230) which is available in full through the following link;

http://www.legislation.gov.uk/uksi/2018/1230/pdfs/uksi_20181230_en.pdf

This certificates is currently undergoing a full review to take account of these changes for use on buildings in England and will be updated as soon as this work is complete.

The Amendment Regulations came into force on 21 December 2018. However, the Amendment Regulations do not apply where a building notice or an initial notice has been given to, or full plans deposited with, a local authority before 21 December 2018 and either the building work to which it relates: (a) has started before that day; or (b) is started within the period of two months beginning on that day. Please note that "building notice", "initial notice" and "full plans" have the meanings given in Regulation 2 of the Building Regulations 2010.

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Certificate No: 158/12

Certificated Products		**Cert. No.**
PermaRock External Wall Insulation and Render Systems	PLEASE SEE IMPORTANT NOTICE REGARDING NEW REGULATIONS RELATED TO FIRE PERFORMANCE AND CLADDING SYSTEMS ON EXTERNAL WALLS OF BUILDINGS WITH A STOREY 18M ABOVE GROUND LEVEL IN ENGLAND IN THE RED BOOK INTRODUCTION BELOW	158/12

PermaRock External Wall Insulation and Render Systems (PEWIRS) consist of (mono- or dual-density) mineral fibre, phenolic foam or expanded polystyrene (EPS) insulation finished externally with polymer modified renders, polymeric coatings with aggregate finishes, or brick slips or brick-effect render to simulate brickwork.

The PermaRock Systems are for application to external vertical walls of new or existing buildings of masonry, dense and no fines concrete, timber or light gauge steel frame construction. Carrier rails can be used in conjunction with EPS insulation to provide a 20mm drained cavity where required. The components of the external wall insulation and renders systems are as follows:

- Carrier rails
- Adhesive
- Fixings for insulation
- Insulation (mineral fibre, EPS and phenolic foam)
- Base coat materials
- Reinforcing mesh
- Fixings for reinforcement layers
- Primers
- External finishes