
LPCB Red Book



2

Part: 5 Construction products

bre

Foreword by the United Arab Emirates (UAE) Acting Commander in Chief, Major General Rashid Thani Al Matrooshi

As the dynamic environment in our Region progresses, we the UAE Civil Defence Authority, has set forth a number of strategic goals for the delivery of public safety. Our strategic goals observe both the national and Ministry of Interior's strategic plan by;

“Providing an effective firefighting and emergency response system delivered by qualified and well trained people using the latest technologies to ensure lives and properties are safeguarded”

As a result, the UAE can be 'benchmarked' with other Countries that are witnessing a decline in fires and incidents when compared to the density of population. As an example, the number of fire incidents has been reduced by 39% in 2011 compared to 2010, with a marked reduction in small and medium fire incidents, together with a high percentage achievement of a 9 minute response time for first attendance at incidents.

“Providing excellent performance and support during disasters and crises”

Confirmation of performance and support are achieved during disasters and crisis situations. Civil Defence Departments conduct a range of joint fire safety and evacuation drills in association with other safety agencies for both the public and private sectors. Evacuation drills carried out in Dubai during 2011 was estimated at 356 drills, which targeted 178,530 persons. Customer satisfaction percentage achieved was 97.2%. The number of drills carried out has increased by 142.4% compared to the target number set out in our annual plan.

“Spreading a fire safety and awareness culture across the community “

In this regard, a National Safety campaign was launched targeting 'domestic safety' with an achieved target of 50% of homes in UAE being visited during a six month period. This was aimed at preventive awareness and removing violations which threaten public safety. During the campaign, 206,490 houses (61.4% of the total dwellings) were visited, again with a marked customer satisfaction percentage of 92%.

Similarly a National Safety campaign was also executed at industrial areas, with teams visiting industrial facilities at different industrial areas across the country. 31,647 facilities were inspected. The teams also managed to correct violation situations in 13,400 facilities and 53,426 people were trained in the basic skills of firefighting and awareness.

“Equipping operations with the best and appropriate equipment and technologies”

The latest state of the art technologies have been introduced for various services such as, 'e-engineering' for online drawing approval and the '24 x 7 smart system' for building electronic monitoring and protection. Currently 61.7% of buildings are connected to the system and 95.7% surveyed for connection.

In addition, the 'UAE Fire and Life Safety Code of Practice' with our Standard Operating Procedures (SOPs) is considered a first in the region. This will contribute to reduced costs and effort. Ultimately this will result in a decrease in accidents and improve command and control mechanisms.

“Achieving Strategic Partnership with Public/Private and Voluntary Organizations”

By ensuring, through careful selection, that products, systems and installers are approved with a listing by Civil Defence, following rigorous third party certification. This ensures that locally we receive the best performance of fire safety products, systems and technologies.

LPCB is widely recognised as an independent reference for all fire and security safety experts. Their testing laboratories and approvals services together with their leading team of highly qualified expert scientists and engineers, guides us all impeccably towards a qualified framework.



Major General Rashid Thani Al Matrooshi

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 or via apps from Apple, Google and Windows.

BRE Global Ltd is also a Notified Certification Body and Notified Test Laboratory for:-

- Construction Products Regulation
- Pressure Equipment Directive
- Marine Equipment Directive
- Transport Pressure Equipment Directive

BRE 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

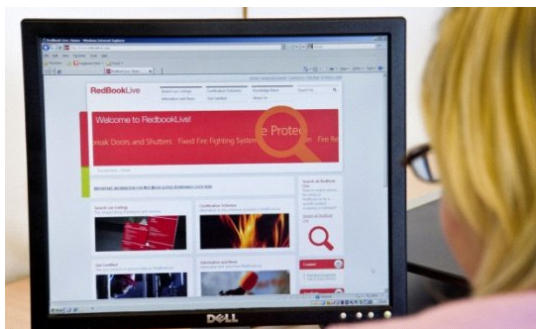
Volume 2: (This Volume)

- **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 and also via an App that is available free from Apple iStore (for iPhone and iPad), from Google Play, (for Android phones and tablets) and Windows Store (for Windows 8 phones).

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>>>>> or download the App.



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

VOLUME 2 LIST OF APPROVED PRODUCTS AND SERVICES

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

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

K
Knauf UK

4

P
PermaRock Products Limited

4

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.

IMPORTANT

We are currently changing the way that we approve and certificate products with the result that we will not be issuing any new Technical Approvals. In the future, new certificates will be issued against published BRE Schemes and, where appropriate BRE Product Standards (BPS). Details of current Schemes and associated BPSs can be found at: www.RedBookLive.com

This does not affect the validity of the current Technical Approvals listed in this section. These will remain valid for three years from their date of issue - or until converted into one of our new range of Approved Building Product certificates.

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.

PART 5: SECTION 2

WALL AND ROOF CLADDING SYSTEMS

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.

Knauf UK

Kemsley Fields Business Park, Sittingbourne, Kent ME9 8SR, United Kingdom

Tel: +44 (0)1795 416061 • Fax: +44 (0)1795 416261

E-mail: technical@knauf.co.uk • Website: www.knauf.co.uk

Certificate No: 159/13

Certificated Products

Knauf Marmorit Render Systems

Knauf Marmorit Render Systems (KMRS) consist of a range of cementitious based ready coloured one-coat or two-coat mesh reinforced renders providing various surface textures and colours for application to suitable masonry, concrete and cement board clad steel and timber framed substrates.

Knauf Marmorit Warm-Wall Insulation and Render Systems (KMWIRS) additionally incorporate mineral fibre or expanded polystyrene insulation and associated fixings. Carrier rail systems (outside the scope of this certificate, see 1.1.7.1) can be incorporated to provide a 15mm cavity when KMWIRS are used in conjunction with framed structures.

Cert. No.

159/13

PermaRock Products Limited

Jubilee Drive, Loughborough, Leicestershire LE11 5TW, United Kingdom

Tel: +44 (0)1509 262924 • Fax: +44 (0)1509 230063

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

Certificate No: 158/12

Certificated Products

PermaRock External Wall Insulation and Render Systems

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

The PermaRock Systems are for application to external vertical walls of new or existing buildings of masonry, dense or no-fines concrete, timber or light gauge steel frame construction. Carrier rails can be used in conjunction with expanded polystyrene to provide a drained cavity where required on steel framed or timber framed constructions.

The components of the external wall insulation and renders systems are as follows:

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

Cert. No.

158/12