

LPCB Approval Schemes for Installers of Fire Protection Systems

Even with the best equipment – fire detection, fire suppression, gas extinguishing and passive fire protection systems are only effective if they are correctly designed, installed, commissioned and maintained. It is therefore vitally important that specifiers select only competent installation companies who have independent third party approval.

LPCB approval schemes for installers of fire protection systems comprise:

- Technical assessment of the installer's competence
- Approval of the installer's quality management system to ISO 9001 (or assessment against the requirements of the relevant Loss Prevention Standard (LPS) where ISO 9001 is not appropriate)
- Regular surveillance inspections of on-going installations
- Surveillance of the quality management system
- Certificates of Conformity which are issued for each installation to demonstrate compliance with the specification
- Listing of the approved installer in the LPCB Red Book

The approval schemes described below ensure that installers are competent to design, install, commission and maintain systems (as described in the relevant scheme document – LPS)



Fire Detection and Alarm Systems

LPS 1014: Requirements for certificated fire detection and alarm system firms.

In accordance with the following standards/codes:

- BS 5839 – Fire detection and alarm systems for buildings
- BS 6266 – Code of practice for fire protection for electronic data processing installations
- BS 7273-1 – Code of practice for the operation of fire protection measures
- NFPA 72 – National fire alarm and signalling code



Automatic Sprinkler Systems

LPS 1048: Requirements for the approval of sprinkler system contractors in the UK and Eire

LPS 1148: Requirements for contractors engaged in the design, installation, commissioning and servicing of automatic sprinkler systems (outside UK, Eire and the Netherlands).

In accordance with the following standards/codes:

- BS EN 12845 Fixed fire fighting systems – automatic sprinkler systems – design, installation and maintenance
- LPC Rules for automatic sprinkler installations, incorporating BS EN 12845, and all Technical Bulletins
- BS 9251 – Sprinkler systems for residential and domestic occupancies – Code of Practice
- NFPA 13 – Installation of sprinkler systems
- FM Global Property Loss Prevention Data Sheets

Passive Fire Protection

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

This scheme covers the following products, which are installed in accordance with the manufacturer's specifications:

- Penetration, cavity barrier and linear gap seals
- Fire rated board and cladding to structural elements
- Intumescent coatings to structural elements
- Fire rated spray materials
- Fire rated ductwork systems
- Fire resisting dampers
- Fire resistant compartment wall systems
- Offsite application of intumescent coatings to structural elements

Gas Extinguishing Systems

LPS 1204: Requirements for firms engaged in the design, installation, commissioning and servicing of gas extinguishing systems.

In accordance with the following standards/codes:

- ISO 14520 – Gaseous fire-extinguishing systems – physical properties and system design
- EN 15004 – Fixed firefighting systems – gas extinguishing systems
- BS 5306 – Fire extinguishing installations and equipment on premises – Part 4: 2001 – Specification for carbon dioxide systems
- NFPA 12 – Standard on carbon dioxide extinguishing systems
- NFPA 2001 – Standard on clean agent fire extinguishing systems
- FM Data Book 4-11 N – Carbon dioxide extinguishing systems (NFPA)
- LPS 1230 – Requirements for fire testing of fixed gaseous fire extinguishing systems

In this scheme it is recommended that the approved installer is responsible for the total system, including the integration of the following elements:

- Risk assessment
- Extinguishing design concentration
- Enclosure structural/leakage integrity
- Discharge/post discharge venting
- Electrical system integration

Copies of Loss Prevention Standards (LPS) and details of LPCB approved installers can be downloaded free of charge from our website at www.redbooklive.com.

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