



Fire Safety

**bsi.**

...making excellence a habit.™

Standards aim to help organizations improve their performance, reduce their risk and become more sustainable.

Fire safety standards are very important for industry as they provide valuable information from fire protection to fire detection and alarm systems. As the UK's National Standards Body, we provide an essential resource for all those who design and install systems, as well as those responsible for building safety.



## BS 5839-1, the premiere standard for non-domestic fire detection, is now available

BS 5839-1 provides recommendations for the planning, design, installation, commissioning and maintenance of fire detection and fire alarm systems in and around non-domestic buildings. It is also referred to in both volumes of Approved Document B and thus underpins the recommendations given in those documents, necessary for life safety.

BS 5839-1 now takes into account the changes made to other major fire standards, including the BS EN 54 series of standards for fire detection and fire alarm systems and the essential fire safety standard, BS 9999 for fire safety in commercial buildings.

[BS 5839-1 is available on the BSI Shop](#)



To find out more about BS 5839-1 visit [shop.bsigroup.com/bs5839-1](http://shop.bsigroup.com/bs5839-1)

## BS 5306-3 Fire extinguishing installations and equipment on premises. Commissioning and maintenance of portable fire extinguishers. Code of practice

BS 5306-3 details the best practice in how to install and maintain portable fire extinguishers. The standard was updated to reflect changes to fire extinguisher installations, whilst taking into account environmental considerations. It should be noted that the principal changes within the revision reflect new agreements with water

regulators on the disposal of water based media. The standard also supplies guidance in respect to environmental issues regarding discharging contents during extended servicing.

[BS 5306-3 is available on the BSI Shop](#)



To find out more about BS 5306-3 visit [shop.bsigroup.com/bs5306-3](http://shop.bsigroup.com/bs5306-3)

## BS 9251 Fire sprinkler systems for domestic and residential occupancies. Code of practice

BS 9251 gives recommendations for the design, installation, components, water supplies, backflow protection, commissioning, maintenance and testing of fire sprinkler systems in domestic and residential occupancies.

These systems are primarily intended for the protection of life in case of fire and have

additional benefits for property protection, environmental protection, sustainability of buildings and continuity of use, and firefighter safety. The recommendations of BS 9251 are also applicable to any addition, extension, repair or other modification to a residential sprinkler system.

[BS 9251 is available on the BSI Shop](#)



To find out more about BS 9251 visit [shop.bsigroup.com/bs9251](http://shop.bsigroup.com/bs9251)



## BS 9999 Fire Safety in the design, management and use of buildings. Code of practice

Fire safety standards exist to reduce risks, manage damages and protect human life. BS 9999 is the essential fire safety standard that helps safeguard people, including fire-fighters, in and around buildings.

It provides recommendations and guidance on the design, management and use of buildings to achieve reasonable standards of fire safety throughout the buildings entire life-cycle.

BS 9999 has recently been fully revised to align with current industry practices, new technology and other parts of the fire safety standards series, namely BS 9990 for non-automatic fire-fighting systems, and BS 9991 for fire safety in residential buildings.

Keep your standards collection up-to-date and get the new edition of BS 9999 now.



To find out more about BS 9999 visit [shop.bsigroup.com/bs9999](http://shop.bsigroup.com/bs9999)

## Updated BS 7974 and PD series are due for 2018 release

Fire safety engineering is increasingly being used as an alternative to the traditional prescriptive means of meeting the functional requirements of Part B of the Building Regulations in England and Wales.

Fire safety engineering is a technique which supports innovative architectural design, vital for sustaining a modern economy. The BS 7974 and PD series are an important suite of documents addressing all aspects of fire safety engineering and are currently being revised for the first time since publication. This is a complete review with data being updated and needless duplication

being removed, and new technology and studies considered to bring the series up to date.

Updated versions of the documents will be issued to public consultation in Q2 2018, with publication expected Summer 2018.

PD 7974-0 Guide to design framework and fire safety engineering procedures, and PD 7974-8 Property protection, business and mission continuity, and resilience, have been merged into the BS 7974 standard.



Find out more about our range of fire standards at [shop.bsigroup.com/Fire](http://shop.bsigroup.com/Fire)

### The full list of parts being revised are:

#### British Standard:

**BS 9992** - Fire safety precautions in the design of railway buildings and the permanent way

**BS 9997** - Fire risk management systems

#### Published Document:

**PD 7974-1** - Initiation and development of fire within the enclosure of origin

**PD 7974-2** - Spread of smoke and toxic gases within and beyond the enclosure of origin

**PD 7974-3** - Structural response and fire spread beyond the enclosure of origin

**PD 7974-6** - Human factors. Life safety strategies. Occupant evacuation, behaviour and condition

**PD 7974-7** - Probabilistic risk assessment

### Coming soon in 2018

**PD 6531** Queries and interpretations on BS 5839-1. This Published Document (PD) gives queries concerning the interpretation of the 2017 version of BS 5839-1, together with the relevant answers. The PD will be published just before Summer 2018.

**BS 5839-6** gives recommendations for the planning, design, installation, commissioning and maintenance of fire detection and fire alarm systems in domestic premises. The recommendations apply to both new and existing domestic premises. The new, revised text will be issued for public consultation Q3 2018.

## Fire safety standards

### **BS 9991 Fire safety in the design, management and use of residential buildings. Code of practice**

BS 9991 exists to help people put adequate fire safety measures in place in residential buildings. The new edition brings updated and extended recommendations as well as some new inclusions.

### **BS 9990 Non automatic fire-fighting systems in buildings. Code of practice**

BS 9990 is a good practice guide for non-automatic fire-fighting systems. It contains recommendations for design, installation, testing and maintenance of such systems including wet and dry fire-fighting mains.

### **BS EN 12845 Fixed fire fighting systems. Automatic sprinkler systems. Design, installation and maintenance**

BS EN 12845 specifies requirements and gives recommendations for the design, installation and maintenance of fixed fire sprinkler systems in buildings and industrial plants, and particular requirements for sprinkler systems that are integral to measures for the protection of life.

### **BS 7273-4 Code of practice for the operation of fire protection measures. Actuation of release mechanisms for doors**

BS 7273-4 addresses safety critical arrangements that enforcing authorities rely upon to ensure that a building can be evacuated safely where fire doors are held open or exits secured which need to be released by the fire alarm system.

### **BS 5306-9 Fire extinguishing installations and equipment on premises. Recharging of portable fire extinguishers. Code of practice**

BS 5306-9 brings together and updates the two parts of BS 6643, providing all the recommendations for the recharging of portable fire extinguishers in a single standard.

### **BS 8489 series Fixed fire protection systems. Industrial and commercial watermist systems**

The BS 8489 series is made up of five key standards that provide recommendations, fire performance criteria and tests and specifies requirements for industrial and commercial watermist systems.

### **BS 5266-1 Emergency lighting. Code of practice for the emergency lighting of premises**

The code of practice has recently been revised and gives guidance on emergency lighting if the mains lighting fails.

BS 5266-1 provides recommendations and detailed guidance on the factors that need to be considered in the design, installation and wiring of electrical emergency escape lighting systems.

### **BS 6266 Fire protection for electronic equipment installations. Code of practice**

BS 6266 gives guidance on the measures and environmental characteristics which need to be taken into consideration in regards to electronic equipment installations.

If a fire does occur, its effects can be minimized by appropriate structural fire protection measures, early detection and extinguishing of the fire, either of which might occur automatically or manually. BS 6266 is complementary to BS 7974, which gives a structured method for determining the most appropriate fire protection strategy for a building as a whole.



For more help contact customer services at  
Email: [cservices@bsigroup.com](mailto:cservices@bsigroup.com)  
Tel: 0345 086 9001

## Get involved with standards

Do you want to keep up with the latest developments in your industry and have a say on the shaping of future fire safety standards?

Whether you're an industry expert with years of experience, an entrepreneur full of new ideas or a consumer representative concerned about the public's safety, you can help us develop better standards that will improve our economy, help society and protect the environment.

Learn more about how to join our community of standards makers at: [bsigroup.com/how-to-get-involved-with-standards-uk](https://bsigroup.com/how-to-get-involved-with-standards-uk) or contact us at: [standardsmakers@bsigroup.com](mailto:standardsmakers@bsigroup.com)

# BSI Fire safety

---

## About BSI

BSI is the business standards company that helps organizations all over the world make excellence a habit. We understand the complexity and competitiveness of the fire and construction industries, and the challenges this brings for companies seeking to improve margins, reduce costs and improve predictability. Whether you're involved in infrastructure or buildings, public, private or PPP, we understand the challenges you face including managing financial risks, efficient delivery, or meeting legislative or environmental requirements. Plus we recognize the need to find innovative solutions whilst also avoiding project over-runs.



@BSI\_UK



@BritishStandardsInstitution



BSIBritishStandards



BSI



BSI Group  
389 Chiswick High Road  
London, W4 4AL  
United Kingdom

T: +44 (0)20 8996 9001  
E: [cservices@bsigroup.com](mailto:cservices@bsigroup.com)  
[bsigroup.com](http://bsigroup.com)