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Fire detection systems  
Fire extinguishing systems  
Fire protection measures  
Fire risk assessment  
Fire safety  
Fire safety engineering  
Fire testing  
Design and construction  
Emergency lighting



2010

Fire

Managing the fire safety of  
your organization

# BSI Fire standards

BSI publishes standards, books and other useful materials covering all aspects of fire precautions including:

- Design
- Materials testing
- Detection
- Means of escape
- Extinguishing systems
- Fire service equipment.

Each standard is the responsibility of one of our fire standards technical committees. The technical committees are made up of representatives of trade associations, test houses, insurers, professional institutions, user federations and relevant government departments.

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# Fire Detection Systems

## A Comprehensive Guide to Fire Safety *Colin Todd*



Previously published as *Fire Precautions: A guide for management*, this book has been revised and updated to incorporate explanations and guidance relating to the Regulatory Reform Fire Service Order (RRFSO) and related legislation in Scotland and Northern Ireland.

A *Comprehensive Guide to Fire Safety* divides the subject of fire safety into a number of discrete components, for example:

- Fire prevention
- Means of escape
- Emergency lighting
- Fire safety signs
- Fire detection and alarm systems
- Human behaviour and staff training.

### BESTSELLER

- A5 paperback
- 42 pages
- ISBN 0 580 50943 8
- BSI order ref BIP 2111

Price £45\*

## BS EN 14604:2005 Smoke alarm devices



This standard specifies requirements, test methods, performance criteria, and manufacturer's instructions for smoke alarms that operate using scattered light, transmitted light or ionization, intended for household or similar residential application.

This standard includes additional requirements for smoke alarms, which are also suitable for use in leisure accommodation vehicles.

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 72 pages
- ISBN 0 580 46651 5

Price £180\*, Member price £90

## BS 5446-2:2003 Fire detection and fire alarm devices for dwellings. Specification for heat alarms



BS 5446-2 specifies requirements and type test methods for heat alarms. It is applicable to heat alarms intended solely for permanent installation on ceilings or walls of dwellings, and to heat alarms suitable for use in leisure accommodation vehicles (LAVs).

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 34 pages
- ISBN 0 580 41344 6

Price £142\*, Member price £71

## BS 5446-3:2005 Fire detection and fire alarm devices for dwellings. Specification for smoke alarm kits for deaf and hard of hearing people



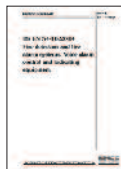
BS 5446-3 specifies requirements and test methods for kits and their components intended to be assembled to create smoke alarm systems for deaf and hard of hearing people, for the purpose of life safety in dwellings. It also specifies requirements and test methods for such smoke alarm kits intended for use in leisure accommodation vehicles (LAVs).

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 40 pages
- ISBN 0 580 60706 6

Price £142\*, Member price £71

## BS EN 54-16:2008 Fire detection and fire alarm systems. Voice alarm control and indicating equipment



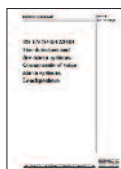
BS EN 54-16 specifies requirements, methods of test and performance criteria for voice alarm control and indicating equipment for use in fire detection and fire alarm systems. It applies to systems installed in buildings where the alarm signal is in the form of tone(s) or voice message(s), or both.

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 68 pages
- ISBN 0 580 54278 7

Price £172\*, Member price £86

## BS EN 54-24:2008 Fire detection and fire alarm systems. Components of voice alarm systems. Loudspeakers



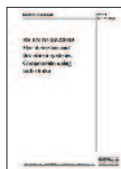
BS EN 54-24 specifies requirements, test methods and performance criteria for loudspeakers intended to broadcast a warning of fire between a fire detection and fire alarm system and the occupants of a building.

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 62 pages
- ISBN 978 0 580 54520 7

Price £172\*, Member price £86

## BS EN 54-25:2008 Fire detection and fire alarm systems. Components using radio links



BS EN 54-25 specifies requirements, test methods and performance criteria for components used in fire alarms systems, installed in and around buildings, which use radio frequency links (RF links) to communicate.

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 56 pages
- ISBN 0 580 54521 4

Price £172\*, Member price £86

## BS 5839-1:2002+Amendment2:2008 Fire detection and fire alarm systems for buildings. Code of practice for system design, installation, commissioning and maintenance



BS 5839-1 provides recommendations for the planning, design, installation, commissioning and maintenance of fire detection and fire alarm systems in and around buildings, other than dwellings.

### AMENDED STANDARD

- A4 Loose-leaf/PDF
- 146 pages
- ISBN 0 580 60438 6

Price £224\*, Member price £112

# Fire Detection Systems

## The Design, Installation, Commissioning and Maintenance of Fire Detection and Fire Alarm Systems. A Guide to BS 5839-1 (3rd edition) *Colin Todd*



This recently revised book is the essential guide to BS 5839-1:2002.

It represents the universal 'bible' for those involved in the design, maintenance and use of fire detection and alarm systems in the United Kingdom and covers all essential elements of the code.

### BESTSELLER

- Royal paperback
- 308 pages, 2008
- ISBN 0 580 63098 9
- BSI order ref BIP 2109

Price £50\*

## BS 5839-6:2004 Fire detection and fire alarm systems for buildings. Code of practice for the design, installation and maintenance of fire detection and fire alarm systems in dwellings



BS 5839-6 gives recommendations for the planning, design and installation of fire detection and fire alarm systems in dwellings and dwelling units that are designed to accommodate a single family, and in houses in multiple occupation that comprise a number of self-contained units each designed to accommodate a single family.

The recommendations apply to both new dwellings and existing dwellings. Recommendations for routine attention are also given.

### BESTSELLER

- A4 Loose-leaf/PDF
- 76 pages
- ISBN 0 580 44100 8

Price £196\*, Member price £98

## The Design of Fire Detection Installations for Dwellings. A Guide to BS 5839-6:2004 *Colin Todd*



This book is a comprehensive guide to using and implementing one of BSI's bestselling fire standards, BS 5839-6.

The code offers guidance for fire alarm systems both in new dwellings and the retrofitting of fire alarm systems in existing dwellings. This publication provides an invaluable aid to specifiers, designers and installers.

### BESTSELLER

- Royal paperback
- 188 pages, 2004
- ISBN 0 580 44016 8
- BSI order ref BIP 2044

Price £45\*

## BS 5839-8:2008 Fire detection and fire alarm systems for buildings. Code of practice for the design, installation, commissioning, and maintenance of voice alarm systems



This code of practice provides recommendations for the planning, design, installation, commissioning and maintenance of voice alarm systems associated with fire detection and fire alarm systems in and around buildings. It does not cover the fire detection and fire alarm systems themselves, which are covered by BS 5839-1.

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 56 pages
- ISBN 0 580 55591 6

Price £186\*, Member price £93

## The Design and Installation of Voice Alarm Systems. A Guide to BS 5839-8 *Douglas F. Mason and Colin S. Todd*



This book is the essential guide to the British standard BS 5839-8. It offers in-depth analysis of the key standard against which voice alarm systems for fire warning are designed, commissioned, installed and maintained.

This practical book gives detailed guidance for voice alarm systems and will be of interest to fire safety professionals, building control officers, environmental health officers, consulting engineers, electrical contractors and the main users of voice alarm systems.

### NEW BOOK

- Royal paperback
- 201 pages, 2009
- ISBN 0 580 66963 7
- BSI order ref BIP 2124

Price £45

## BS 5839-9:2003 Fire detection and alarm systems for buildings. Code of practice for the design, installation, commissioning and maintenance of emergency voice communication systems



This code of practice provides recommendations for the planning, design, installation, commissioning and maintenance of emergency voice communication systems in and around buildings and at sports, entertainment and similar venues. It does not recommend whether or not an emergency voice communication system should be installed in a given premises.

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 42 pages
- ISBN 0 580 41138 9

Price £142\*, Member price £71

## BS ISO 7240-8:2007 Fire detection and alarm systems. Carbon monoxide fire detectors using an electrochemical cell in combination with a heat sensor



BS ISO 7240-8 specifies requirements, test methods and performance criteria for point multi-sensor fire detectors that incorporate an electrochemical cell for sensing carbon monoxide (CO) in combination with one or more heat sensors, for use in fire detection and alarm systems installed in buildings.

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 62 pages
- ISBN 0 580 44396 5

Price £172\*, Member price £86

## PAS 41 Directional sounders. Requirements and tests



This Publicly Available Specification (PAS) specifies performance requirements and methods of test for directional sounders intended to aid the evacuation of a building, ship or structure under emergency conditions and/or where normal visibility is impaired.

### PUBLICLY AVAILABLE SPECIFICATION

- A4 Loose-leaf/PDF
- 18 pages
- ISBN 0 580 41191 5

Price £86\*, Member price £43

# Fire Detection Systems

## BS EN 12101 Smoke and heat control systems.

Title	ISBN	Price	Member price
BS EN 12101-1:2005+Amendment1:2006 Smoke and heat control systems. Specification for smoke barriers	0 580 68171 4	£168*	£84
BS EN 12101-2:2003 Smoke and heat control systems. Specification for natural smoke and heat exhaust ventilators	0 580 42388 3	£142*	£71
BS EN 12101-3:2002 Smoke and heat control systems. Specification for powered smoke and heat exhaust ventilators	0 580 38228 1	£162*	£81
BS EN 12101-6:2005 Smoke and heat control systems. Specification for pressure differential systems. Kits	0 580 46255 2	£196*	£98
BS EN 12101-10:2005 Smoke and heat control systems. Power supplies	0 580 47901 3	£172*	£86

# Fire Extinguishing Systems

## BS EN 12259-1:1999 Fixed firefighting systems. Components for sprinkler and water spray systems. Sprinklers



This standard specifies requirements for construction and performance of sprinklers which are operated by a change of state of an element or bursting of a glass bulb under the influence of heat, for use in automatic sprinkler systems.

### POPULAR STANDARD

- A4 Loose-leaf/PDF • 60 pages
- ISBN 0 580 32942 9

Price £172\*, Member price £86

## BS EN 12259-4:2000 Fixed firefighting systems. Components for sprinkler and water spray systems. Water motor alarms



BS EN 12259-4 specifies requirements for construction and performance of water motor alarms for use in conjunction with alarm valves.

Type approval tests and a recommended test schedule for type approval testing are also given.

### POPULAR STANDARD

- A4 Loose-leaf/PDF • 24 pages
- ISBN 0 580 34114 3

Price £124\*, Member price £62

## BS EN 12259-2:1999 Fixed firefighting systems. Components for sprinkler and water spray systems. Wet alarm valve assemblies



This standard specifies requirements for the construction and performance of wet alarm valve assemblies and retard chambers used in automatic sprinkler systems.

### POPULAR STANDARD

- A4 Loose-leaf/PDF • 36 pages
- ISBN 0 580 32943 7

Price £142\*, Member price £71

## BS EN 12259-5:2002 Fixed firefighting systems. Components for sprinkler and water spray systems. Water flow detectors



This European standard specifies requirements for construction and performance and tests for water flow detectors for use in wet pipe automatic sprinkler systems conforming to BS EN 12845 - Fixed firefighting systems. Automatic sprinkler systems - Design and Installation.

Auxiliary components and attachments to water flow detectors are not covered by this standard.

### POPULAR STANDARD

- A4 Loose-leaf/PDF • 36 pages • ISBN 0 580 40891 4

Price £142\*, Member price £71

## BS EN 12259-3:2000 Fixed firefighting systems. Components for sprinkler and water spray systems. Dry alarm valve assemblies



This standard specifies requirements for construction and performance of dry alarm valve assemblies, accelerators and exhausters used in automatic sprinkler systems conforming to annexes A and B of BS EN 12845 - Fixed firefighting systems. Automatic sprinkler systems - Design and installation.

### POPULAR STANDARD

- A4 Loose-leaf/PDF • 58 pages • ISBN 0 580 34113 5

Price £172\*, Member price £86

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# Fire Extinguishing Systems

## BS EN 12845:2004+Amendment2:2009 Fixed firefighting systems. Automatic sprinkler systems. Design, installation and maintenance



This standard specifies requirements and gives recommendations for the design, installation and maintenance of fixed fire sprinkler systems in buildings and industrial plant, and particular requirements for sprinkler systems, which are integral to measures for the protection of life.

### AMENDED STANDARD

- A4 Loose-leaf/PDF
- 178 pages
- ISBN 0 580 68733 4

Price £228\*, Member price £114

## BS 9990:2006 Code of practice for non-automatic fire-fighting systems in buildings



This British standard gives recommendations for non-automatic fire-fighting systems in buildings. It covers good practice in matters affecting the design, installation, testing and maintenance of such systems including wet and dry fire-fighting mains.

BS 9990:2006 does not cover hose reels, foam inlets, automatic foam systems and portable fire-fighting equipment. These systems are covered in BS EN 671-1, BS 5306-1, BS 5306-3, BS 5306-8 and BS EN 3-7.

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 26 pages
- ISBN 0 580 48281 2

Price £124\*, Member price £62

## BS 5306 Fire extinguishing installations and equipment on premises

Title	ISBN	Price	Member price
BS 5306-0:1986 Fire extinguishing installations and equipment on premises. Guide for the selection of installed systems and other fire equipment	0 580 14760 6	£142*	£71
BS 5306-1:2006 Code of practice for fire extinguishing, installation and equipment on premises. Hose reels and foam inlets	0 580 48282 0	£86*	£43
BS 5306-2:1990 Fire extinguishing installations and equipment on premises. Specification for sprinkler systems	0 580 18560 5	£234*	£117
BS 5306-3:2009 Fire extinguishing installations and equipment on premises. Code of practice for the inspection and maintenance of portable fire extinguishers	0 580 57261 6	£138*	£69
BS 5306-4:2001 Fire extinguishing installations and equipment on premises. Specification for carbon dioxide systems	0 580 37963 9	£186*	£93
BS 5306-5.1:1992 Code of practice for fire extinguishing installations and equipment on premises. Halon systems. Specification for halon 1301 total flooding systems	0 580 20652 1	£172*	£86
BS 5306-5.2:1984 Code of practice for fire extinguishing installations and equipment on premises. Halon systems. Halon 1211 total flooding systems	0 580 13923 9	£142*	£71
BS 5306-6.1:1988 Fire extinguishing installations and equipment on premises. Foam systems. Specification for low expansion foam systems	0 580 16264 8	£124*	£62
BS 5306-6.2:1989 Fire extinguishing installations and equipment on premises. Foam systems. Specification for medium and high expansion foam systems	0 580 17018 7	£124*	£62
BS 5306-8:2000 Fire extinguishing installations and equipment on premises. Selection and installation of portable fire extinguishers. Code of practice	0 580 33203 9	£86*	£43

## BS EN 3-8:2006 Portable fire extinguishers. Additional requirements to EN 3-7 for the construction, resistance to pressure and mechanical tests for extinguishers with a maximum allowable pressure equal to or lower than 30 bar



BS EN 3-8 specifies the rules of design, type testing, fabrication and inspection control of portable fire extinguishers manufactured with metallic bodies as far as pressure risk is concerned. This part of the BS EN 3 series applies to portable fire extinguishers of which the maximum allowable pressure PS is lower than or equal to 30 bar and containing non-explosive, non-flammable, non-toxic and non-oxidising fluids.

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 32 pages
- ISBN 0 580 49992 0

Price £124\*, Member price £62

## BS EN 3-9:2006 Portable fire extinguishers. Additional requirements to EN 3-7 for pressure resistance of CO<sub>2</sub> extinguishers



BS EN 3-9 specifies the rules of design, assembling, inspection and testing of CO<sub>2</sub> portable fire extinguishers as far as the pressure risk is concerned.

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 16 pages
- ISBN 0 580 49993 7

Price £86\*, Member price £43

# Fire Extinguishing Systems

## BS EN 15004-5:2008 Fixed firefighting systems. Gas extinguishing systems. Physical properties and system design of gas extinguishing systems for HFC 227ea extinguishant



This standard gives specific requirements for gaseous fire-extinguishing systems, with respect to the HFC 227ea extinguishant. It includes details of physical properties, specification, usage and safety aspects and applies to systems operating at nominal pressures of 25 bar and 42 bar with nitrogen propellant.

### POPULAR STANDARD

• A4 Loose-leaf/PDF • 16 pages • ISBN 0 580 59946 0

Price £86\*, Member price £43

## BS EN 12094-5:2006 Fixed firefighting systems. Components for gas extinguishing systems. Requirements and test methods for high and low pressure selector valves and their actuators



This European standard specifies requirements and describes test methods for selector valves and their actuators used in CO<sub>2</sub>, Inert gas or Halocarbon gas fire extinguishing systems.

### POPULAR STANDARD

• A4 Loose-leaf/PDF • 32 pages

• ISBN 0 580 48689 3

Price £124\*, Member price £62

## BS EN 12094-6:2006 Fixed firefighting systems. Components for gas extinguishing systems. Requirements and test methods for non-electrical disable devices



This European standard specifies requirements and test methods for non-electrical disable devices for CO<sub>2</sub>, Inert gas or Halocarbon gas fire extinguishing systems.

Examples are:

- an isolating valve in the pipework to the flooding zone or in a pneumatic pilot line
- a device blocking the actuator at the bank of containers or the container valve in single-zone installations or the actuator of selector valves in multiple-zone installations.

### POPULAR STANDARD

• A4 Loose-leaf/PDF • 26 pages • ISBN 0 580 48804 7

Price £124\*, Member price £62

## BS EN 12094-8:2006 Fixed firefighting systems. Components for gas extinguishing systems. Requirements and test methods for connectors



This European standard specifies requirements and describes test methods for flexible and rigid connectors used in CO<sub>2</sub>, Inert gas or Halocarbon gas fire extinguishing systems.

This European standard is applicable to connectors used:

- between container valves and the manifold (type 1 and type 5 connector)
- in pneumatic pilot lines (type 3 connector)
- in distribution pipework of fire extinguishing installations downstream of the manifold/selector valve (type 2 or type 4 connector).

### POPULAR STANDARD

• A4 Loose-leaf/PDF • 26 pages • ISBN 0 580 48803 9

Price £124\*, Member price £62

## BS 9251:2005 Sprinkler systems for residential and domestic occupancies. Code of practice



This code of practice gives recommendations for the design, installation, components, water supplies and backflow protection, commissioning, maintenance and testing of fire sprinkler systems installed for life safety purposes with additional benefits for property protection in residential and domestic occupancies.

Residential occupancies, for multiple occupation, not exceeding 20 m in height, include apartments, residential homes, houses of multiple occupancy (HMOs), blocks of flats, boarding houses, aged persons homes, nursing homes, residential rehabilitation accommodation and dormitories.

Domestic occupancies include individual dwelling houses, individual flats, maisonettes and transportable homes.

### POPULAR STANDARD

• A Loose-leaf • 28 pages • ISBN 0 580 44816 9

Price £124\*, Member price £62

## PD 6686:2006 Guidance on directives, regulations and standards related to prevention of fire and explosion in the process industries



This Published Document (PD) discusses the European Union (EU) and United Kingdom (UK) legislation intended to minimize the risk of fire and explosion in the process industries. It provides a comprehensive guide to the standards, draft standards and other documents that contain the technical, practical and organizational information to ensure compliance with EU Directives and UK regulations.

### PUBLISHED DOCUMENT

• A4 Loose-leaf/PDF • 198 pages • ISBN 0 580 47906 4

Price £234\*, Member price £117

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# Fire Protection Measures

## BS 7273-1:2006 Code of practice for the operation of fire protection measures. Electrical actuation of gaseous total flooding extinguishing systems



BS 7273-1 gives recommendations for the design, installation and commissioning of electrical equipment for the actuation of gaseous total flooding fire extinguishing systems. It covers the interface between fire detection and fire alarm systems (see BS 5839-1) and gaseous total flooding fire extinguishing systems (see BS 5306 and BS ISO 14520) and is also applicable to fire protection systems for electronic equipment installations (see BS 6266).

### POPULAR STANDARD

• A4 Loose-leaf/PDF • 18 pages • ISBN 0 580 60870 4  
Price £86\*, Member price £43

## BS 7273-2:1992 Code of practice for the operation of fire protection measures. Mechanical actuation of gaseous total flooding and local application extinguishing systems



BS 7273-2 gives recommendations for the planning, installation and servicing of mechanical equipment for the actuation of gaseous fire extinguishing systems. It applies only to mechanically actuated total flooding and local application gaseous fire extinguishing systems.

### POPULAR STANDARD

• A4 Loose-leaf/PDF • 12 pages  
• ISBN 0 580 59894 4  
Price £42\*, Member price £21

## BS 7273-3:2008 Code of practice for the operation of fire protection measures. Electrical actuation of pre-action watermist and sprinkler systems



BS 7273-3 gives recommendations for the design, installation, operation and servicing of electrical equipment used for the actuation of pre-action sprinkler systems.

### POPULAR STANDARD

• A4 Loose-leaf/PDF • 26 pages  
• ISBN 0 580 58175 5  
Price £124\*, Member price £62

## BS 7273-4:2007 Code of practice for the operation of fire protection measures. Actuation of release mechanisms for doors



BS 7273-4 gives recommendations for the design, installation, commissioning and maintenance of electrical control arrangements for actuation of mechanisms that unlock, release or open doors in the event of fire. It applies to all aspects of the interface between these mechanisms and a fire detection and fire alarm system, including interfaces that incorporate acoustic coupling and radio transmission.

### POPULAR STANDARD

• A4 Loose-leaf/PDF • 70 pages • ISBN 0 580 50303 0  
Price £172\*, Member price £86

## BS 7273-5:2008 Code of practice for the operation of fire protection measures. Electrical actuation of watermist systems (except pre-action systems)



BS 7273-5 gives recommendations for the design, installation and commissioning of electrical actuation arrangements for watermist systems. BS 7273-5 covers the interface between fire detection and fire alarm systems (see BS 5839-1) and watermist systems.

The recommendations are applicable to systems intended either for local application or volume protection. Recommendations relating to pre-action watermist systems are contained in BS 7273-3

### POPULAR STANDARD

• A4 Loose-leaf/PDF • 22 pages • ISBN 0 580 58176 2  
Price £86\*, Member price £43

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# Fire Risk Assessment

## The Audit of Active Fire Safety Systems. Practitioner's assessment and approval procedures manual

*Northern Ireland Fire Safety Panel*



The Audit of Active Fire Safety Systems. Practitioners' Assessment and approval procedures manual is designed to aid regulatory and enforcing authorities, and Approved Inspectors in England and Wales, fire safety professionals, designers and other interested parties in the wider fire safety community, in the audit, assessment and approval of active fire safety systems.

The easy-to-use chapters are broken down into three stages to lead you through the procedure: Assessment of specification and design drawings; Assessment of work in progress; and Final acceptance after commissioning of the installation. There are handy checklists and explanations of the relevant procedures at each stage to guide you through your audit from start to finish.

### POPULAR MANUAL

- A4 Looseleaf & Binder
- 175 pages, 2006
- ISBN 0 580 48362 2
- BSI order ref BIP 2112

Price £75\*

## BS ISO 19706:2007 Guidelines for assessing the fire threat to people



BS ISO 19706 is intended to serve as general guidelines for the assessment of the fire threat to people. It encompasses the development, evaluation and use of relevant quantitative information for use in fire hazard and risk assessment. This information, generally obtained from fire-incidence investigation, fire statistics, real-scale fire tests and from physical fire models, is intended to be used in conjunction with computational models for analysis of the initiation and development of fire, fire spread, smoke formation and movement, chemical species generation, transport and decay, and people movement, as well as fire detection and suppression.

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 22 pages
- ISBN 0 580 50680 2

Price £86\*, Member price £43

## F is for fire. Dictionary of fire terminology

*P Hodgson and D Christian*



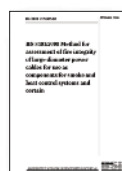
This new dictionary includes terms that cover the whole spectrum of fire safety in all its applications. This includes testing for both fire resistance and reaction to fire; passive and active fire protection systems and fire safety engineering principles to the design of buildings. The book supports all fire-related British standard, European standards, codes of practice and related documents.

### BESTSELLER

- A5 Hardback
- 192 pages
- Published by BSI
- ISBN 0 580 50222 4
- BSI order ref BIP 2125

Price £25\*

## BS 8491:2008 Method for assessment of fire integrity of large diameter power cables for use as components for smoke and heat control systems and certain other active fire safety systems



BS 8491 describes a method for assessment of the fire integrity of large diameter power cables for use as components for smoke and heat control systems as given in BS 7346-6, and certain other active fire safety systems. It is applicable to cables of rated voltage not exceeding 600/1 000 V and of overall diameter greater than 20 mm.

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 28 pages
- ISBN 0 580 57269 2

Price £124\*, Member price £62

## PAS 79:2007 Fire Risk Assessment. Guidance and a Recommended Methodology

*C S Todd & Associates Ltd*



PAS 79 has been revised to take account of changes to the Regulatory Reform (Fire Safety) Order.

This comprehensive publication gives a nine-step structured approach and corresponding documentation for conducting and recording significant findings of fire risk assessments in buildings across three legislative regimes, namely that in England and Wales, that in Scotland and the unchanged legislation in Northern Ireland.

### BESTSELLER

- A4 Paperback/PDF
- 95 pages
- Published by BSI
- ISBN 0 580 50683 3
- BSI order ref PAS 79:2007

Price £99\*

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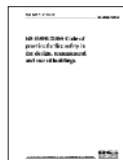
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<http://shop.bsigroup.com/riskstandards>



# Fire Safety

## BS 9999:2008 Code of practice for fire safety in the design, management and use of buildings



BS 9999 gives recommendations and guidance on the design, management and use of buildings to achieve acceptable levels of fire safety for all people in and around buildings.

BS 9999 is applicable to the design of new buildings, and to alterations, extensions and changes of use of an existing building, with the exception of individual homes and with limited applicability in the case of certain specialist buildings. It also provides guidance

on the ongoing management of fire safety in a building throughout the entire life cycle of the building, including guidance for designers to ensure that the overall design of a building assists and enhances the management of fire safety. It can be used as a tool for assessing existing buildings, although fundamental change in line with the guidelines might well be limited or not practicable.

### BESTSELLER

• A4 loose-leaf/PDF • 458 pages • ISBN 0 580 57920 2  
Price £290\*, Member price £145

## BS 5499-1:2002 Graphical symbols and signs. Safety signs, including fire safety signs. Specification for geometric shapes, colours and layout



BS 5499-1 specifies a system of geometric shapes and safety colours for use with appropriate graphical symbols to produce safety signs. It is applicable to signs providing information on the actions to be taken to prevent, or reduce the risk of accidents, for warning of hazards and for dealing with certain emergencies including the identification of escape routes and the location of fire equipment.

The standard also specifies the use of supplementary signs, including arrows, and the combination of signs. Safety marking is also specified. Information for use in the selection of sign sizes, and preferred sizes of signboards are also given.

### POPULAR STANDARD

• A4 Loose-leaf/PDF • 28 pages • ISBN 0 580 38258 3  
Price £124\*, Member price £62

## BS 5499-5:2002 Graphical symbols and signs. Safety signs, including fire safety signs. Signs with specific safety meanings



BS 5499-5 specifies safety signs using the system of geometric shapes and safety colours specified in BS 5499-1.

It is applicable to signs providing information on the actions to be taken to prevent or reduce the risk of accidents, for warning of hazards and for dealing with certain emergencies including the identification of escape routes and the location of fire equipment.

### POPULAR STANDARD

• A4 Loose-leaf/PDF • 54 pages • ISBN 0 580 38259  
Price £172\*, Member price £86

## BS 5499-10:2006 Safety signs, including fire safety signs. Code of practice for the use of safety signs, including fire safety signs



BS 5499-10 provides guidance on how to select, install, position and maintain safety signs conforming to BS 5499-1 and BS 5499-5, excluding escape route signs, to present specific safety information.

It satisfies the requirements of the Health and Safety (Safety Signs and Signals) Regulations 1996 and existing fire safety legislation and is applicable to all premises, with the exception of private domestic premises. However, it is applicable to the common access areas within multi-occupied dwellings.

This standard is intended for use by building owners, facility managers of premises, safety managers and others responsible for selecting, installing and/or inspecting safety signs.

### POPULAR STANDARD

• A4 Loose-leaf/PDF • 48 pages • ISBN 0 580 48738 5  
Price £162\*, Member price £81

## PAS 911 Fire strategies. Guidance and framework for their formulation



PAS 911 Fire strategies is a brand new publicly available specification (PAS) that can provide a degree of uniformity in the preparation of fire strategies. It provides a recommended process that will encompass many of the key considerations and will lead to a document that is consistent in format and has the necessary level of detail to enable subsequent designs for fire systems and for the setting up of procedures for management of fire safety to be prepared in a complementary manner.

The recommended process given in PAS 911 Fire strategies includes:

1. Determination of the design basis; A prescriptive or performance based approach?
2. Seven input themes with possible considerations. These themes are:
3. Strategy formulation
4. Six output sub-strategies with key headings. The sub-strategies are:
  - Fire policy statement
  - Fire safety (management) strategy
  - Evacuation strategy
  - Fire and smoke control strategy
  - Fire fighting strategy
  - Fire protection strategy
5. Finalising the fire strategy.



### PUBLICLY AVAILABLE SPECIFICATION

• A4 Paperback/PDF • 48 pages  
• ISBN 0 580 59381 9 • BSI order ref PAS 911  
Price £99\*

# Fire Safety Engineering

## BS 7974:2001 Application of fire safety engineering principles to the design of buildings. Code of practice



This code of practice provides a framework for an engineering approach to the achievement of fire safety in buildings by giving recommendations and guidance on the application of scientific and engineering principles to the protection of people, property and the environment from fire. This code of practice applies to the design of new buildings and the appraisal of existing buildings.

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 34 pages
- ISBN 0 580 38447 0

Price £142\*, Member price £71

## Basic Guide to Fire Engineering

Dr S D Christian



This is a basic introduction to the principles of fire safety engineering in relation to fire precautions. It suggests why such engineered solutions are effective in achieving satisfactory fire safety levels. It is a guide for those who are new to the subject and suggests where further, more detailed information can be found. The strength of the publication is the author's mastery of the subject, enabling him to deliver the salient features in a complex topic in an easily digestible and informative manner.

### POPULAR GUIDE

- A4 Paperback
- 34 pages, 2003
- Published by BSI
- ISBN 0 580 41896 0
- BSI order ref BIP 2007

Price £20\*

## Winning With Fire Safety. A Guide for Business

Pat Perry



This publication provides operational managers of all levels with a basic framework by which they can implement an effective fire safety strategy to meet their business needs in a planned and sustainable fashion.

It also provides the reader with no-nonsense advice and guidance on implementing an effective fire safety strategy in their business, offering a host of good practice, assessment and review in plain English. Check lists, handy hint boxes and a CD of key proformas complete the publication.

### POPULAR GUIDE AND CD-ROM

- A4 Loose-leaf with binder and CD-ROM
- 110 pages, 2006
- ISBN 0 580 44095 8
- BSI order ref BIP 2047

Price £55\*

### DRAFT REVIEW SYSTEM

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<http://drafts.bsigroup.com>

## PD 7974 Application of fire safety engineering principles to the design of buildings

PD 7974 is an eight part series of user-friendly documents covering the application of fire safety engineering principles to the design of buildings. These publications have been designed to provide a framework for a flexible but formalized approach to fire safety design that can also be readily assessed by the statutory authorities.

Title	ISBN	Price	Member price
PD 7974-0:2002 Application of fire safety engineering principles to the design of buildings. Guide to design framework and fire safety engineering procedures	0 580 40169 3	£162*	£81
PD 7974-1:2003 Application of fire safety engineering principles to the design of buildings. Initiation and development of fire within the enclosure of origin (Sub-system 1)	0 580 41195 8	£186*	£93
PD 7974-2:2002 Application of fire safety engineering principles to the design of buildings. Spread of smoke and toxic gases within and beyond the enclosure of origin (Sub-system 2)	0 580 40168 5	£172*	£86
PD 7974-3:2003 Application of fire safety engineering principles to the design of buildings. Structural response and fire spread beyond the enclosure of origin (Sub-system 3)	0 580 40304 1	£234*	£117
PD 7974-4:2003 Application of fire safety engineering principles to the design of buildings. Detection of fire and activation of fire protection systems. (Sub-system 4)	0 580 41249 0	£142*	£71
PD 7974-5:2002 Application of fire safety engineering principles to the design of buildings. Fire service intervention. (Sub-system 5)	0 580 40167 7	£86*	£43
PD 7974-6:2004 The application of fire safety engineering principles to fire safety design of buildings. Human factors. Life safety strategies. Occupant evacuation, behaviour and condition (Sub-system 6)	0 580 43812 0	£172*	£86
PD 7974-7: 2003 Application of fire safety engineering principles to the design of buildings. Probabilistic risk assessment	0 580 41515 5	£186*	£93

# Fire Testing

## BS EN 1363-1:1999 Fire resistance tests. General requirements



BS 1363-1 establishes the general principles for determining the fire resistance of various elements of construction when subjected to standard fire exposure conditions.

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 52 pages
- ISBN 0 580 32419 2

Price £162\*, Member price £81

## BS EN 13823:2002 Reaction to fire tests for building products. Building products excluding floorings exposed to the thermal attack by a single burning item



This European standard specifies a method of test for determining the reaction to fire performance of construction products excluding floorings, and excluding products which are indicated in the EC Decision 2000/147/EC, when exposed to thermal attack by a single burning item (SBI).

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 98 pages
- ISBN 0 580 39176 0

Price £186\*, Member price £93

## BS EN ISO 11925-2:2002 Reaction to fire tests. Ignitability of building products subjected to direct impingement of flame. Single-flame source test



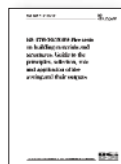
This standard specifies a method of test for determining the ignitability of building products by direct small flame impingement under zero impressed irradiance using specimens tested in a vertical orientation.

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 32 pages
- ISBN 0 580 39038 1

Price £124\*, Member price £62

## BS 476-10:2009 Fire tests on building materials and structures. Guide to the principles, selection, role and application of fire testing and their outputs



BS 476-10 describes the general principles and application of the methods in the series of standards for fire testing. Fire tests are used extensively in support of national fire safety legislation. The outputs of these tests may also be used, with caution, to support a fire safety strategy that has been generated using the functional approach to regulations.

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 46 pages
- ISBN 0 580 56656 1

Price £150\*, Member price £75

## BS EN 13501-1:2007+Amendment1:2009 Fire classification of construction products and building elements. Classification using data from reaction to fire tests



This European standard provides the reaction to fire classification procedure for all construction products, including products incorporated within building elements. Products are considered in relation to their end use application.

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 56 pages
- ISBN 0 580 59861 6

Price £172\*, Member price £86

## BS EN 13501-2:2007+Amendment1:2009 Fire classification of construction products and building elements. Classification using data from fire resistance tests, excluding ventilation services



BS EN 13501-2 specifies the procedure for classification of construction products and building elements using data from fire resistance and smoke leakage tests which are within the direct field of application of the relevant test method.

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 82 pages
- ISBN 0 580 59862 3

Price £186\*, Member price £93

## BS EN 1364 Fire resistance tests for non-loadbearing elements

Title	ISBN	Price	Member price
BS EN 1364-1:1999 Fire resistance tests for non-loadbearing elements. Walls	0 580 32421 4	£142*	£71
BS EN 1364-2:1999 Fire resistance tests for non-loadbearing elements. Ceilings	0 580 32422 2	£86*	£43
BS EN 1364-3:2006 Fire resistance tests for non-loadbearing elements. Curtain walling. Full configuration (complete assembly)	0 580 52967 2	£124*	£62
BS EN 1364-4:2007 Fire resistance tests for non-loadbearing elements. Curtain walling. Part configuration	0 580 52967 2	£162*	£81

# Fire Testing

## BS EN 13501-3:2005+Amendment1:2009 Fire classification of construction products and building elements. Classification using data from fire resistance tests on products and elements used in building service installations: fire resisting ducts and fire dampers



This standard specifies the procedure for classification of the resistance to fire performance of construction products and building elements used as components of building service installations. It uses data from fire resistance tests which are within the direct field of application of the relevant test method.

### POPULAR STANDARD

- A4 Loose-leaf/PDF • 22 pages
- ISBN 0 580 59863 0

Price £124\*, Member price £62

## BS EN 13501-4:2007+Amendment1:2009 Fire classification of construction products and building elements. Classification using data from fire resistance tests on components of smoke control systems



BS EN 13501-4 specifies the procedure for classification of components of smoke control systems, using data from fire resistance tests which are within the field of application of the relevant test methods.

Products covered by this standard are:

- Smoke control ducts
- Smoke control dampers
- Smoke barriers
- Powered smoke and heat exhaust ventilators (fans), including connectors
- Natural smoke and heat exhaust ventilators.

### POPULAR STANDARD

- A4 Loose-leaf/PDF • 32 pages • ISBN 0 580 59864 7

Price £138\*, Member price £69

## BS EN 1366 Fire resistance tests for service installations

Title	ISBN	Price	Member price
BS EN 1366-3:2009 Fire resistance tests for service installations. Penetration seals	0 580 69607 7	£190*	£95
BS EN 1366-4:2006 Fire resistance tests for service installations. Linear joint seals	0 580 48898 5	£142*	£71
BS EN 1366-5:2003 Fire resistance tests for service installations. Service ducts and shafts	0 580 42572 X	£124*	£62
BS EN 1366-6:2004 Fire resistance tests for service installations. Raised access and hollow core floors	0 580 44799 5	£86*	£43
BS EN 1366-7:2004 Fire resistance tests for service installations. Conveyor systems and their closures	0 580 44018 4	£172*	£86
BS EN 1366-8:2004 Fire resistance tests for service installations. Smoke extraction ducts	0 580 44199 7	£142*	£71
BS EN 1366-9:2008 Fire resistance tests for service installations. Single compartment smoke extraction ducts	0 580 59170 9	£162*	£81

# Design and Construction

## Building Regulations Approved Document B - Volume 1 Fire Safety: Dwelling houses



This Approved Document provides guidance to support compliance with fire safety standards set out as part of the Building Regulations. Revisions to Building Regulations Part B Fire Safety came into force 06 April 2007 and affect future building work, such as the erection, extension or material alteration of a building, and how fire safety is designed into a building. Amendments to the guidance on domestic loft conversions, the use of door-closing devices and the provision of sprinklers in tall blocks of flats are included.

Part B has been split into Volume 1: Dwelling houses and Volume 2: Buildings other than Dwelling houses to make the guidance more accessible and easier to use. Anyone intending to carry out building work in England and Wales is required by law to obtain building control approval to ensure the Regulations are complied with.

### BESTSELLER

- A4 Paperback • 76 pages, 2007
- ISBN 0 117 03724 3 • BSI order ref BIP 2064

Price £13\*

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# Emergency Lighting

## A Guide to Emergency Lighting C J Watts



This popular guide aids users, and design, installation and maintenance engineers in providing appropriate emergency lighting systems to assist occupants to leave premises safely and comply with legislation. It covers all aspects of the selection, design, installation, maintenance and testing of battery powered emergency lighting systems to meet legislation. This publication will be of wide-ranging appeal to all those involved in this subject including; facilities managers; installation engineers; suppliers; system designers; system users; electrical contractors; engineers involved in maintenance of emergency lighting systems; installers; building control inspectors; fire protection companies; architects; local authorities; fire authorities; specifiers; consultants.

### POPULAR GUIDE

- A5 Paperback
- 216 pages, 2006
- ISBN 0 580 47755 X
- BSI order ref BIP 2081

Price £45\*

## Emergency lighting CD-ROM



This CD-ROM contains a compilation of standards and explanatory guides to give you an invaluable tool when designing, building and installing emergency lighting.

It includes BS 5266-1, BS 5266-7 (BS EN 1838), BS 5266-8 (BS EN 50172), BS EN 60598-2-22, BS EN 50171 and BIP 2081 (A Guide to Emergency Lighting).

These are complemented by a series of slides written by C J Watts (the author of the *Guide to Emergency Lighting*) and the ICEL (Industry Committee for Emergency Lighting) which will assist with the application of the standards.

### POPULAR CD-ROM

- CD-ROM
- 2006
- BSI order ref BIP 3071

Price £295\* + VAT, Member price £195 + VAT

## BS 5266-1:2005 Emergency lighting. Code of practice for the emergency lighting of premises



BS 5266-1 gives recommendations and guidance on the factors to consider in the design of, and the installation and wiring of, the electrical emergency lighting systems specified in BS EN 50172/BS 5266-8 in order to provide the lighting parameters specified in BS EN 1838/BS 5266-7.

Guidance on the illumination needed for safe movement, and recommendations for lighting in areas with fixed seating are also given.

### POPULAR STANDARD

- A4 Loose-leaf/PDF
- 36 pages
- ISBN 0 580 46820 8
- BSI order ref BS 5266-1:2005

Price £142\*, Member price £71

## 2010 EMERGENCY LIGHTING COURSES

BSI offers a selection of emergency lighting courses. The Introduction course gives a basic overview of the standards and legislation involved in emergency lighting; there is a facilitated workshop for experienced engineers who want to discuss practical solutions and a more advanced Certificate course accredited by ICEL is also available. Each of these courses addresses the new Regulatory Reform (Fire Safety) Order which, since its introduction in October 2006, all buildings must comply with.

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## BS 5266 Emergency lighting and related standards

Title	ISBN	Price	Member price
BS 5266-1:2005 Emergency lighting. Code of practice for the emergency lighting of premises	0 580 46820 8	£142*	£71
BS 5266-2:1998 Emergency lighting. Code of practice for electrical low mounted way guidance systems for emergency use	0 580 29511 7	£42*	£21
BS 5266-3:1981 Emergency lighting. Specification for small power relays (electromagnetic) for emergency lighting applications up to and including 32 A	0 580 11576 3	£42*	£21
BS 5266-4:1999 Emergency lighting. Code of practice for design, installation, maintenance and use of optical fibre systems	0 580 33004 4	£124*	£62
BS 5266-5:1999 Emergency lighting. Specification for component parts of optical fibre system	0 580 33005 2	£86*	£43
BS 5266-6:1999 Emergency lighting. Code of practice for non-electrical low mounted way guidance systems for emergency use. Photoluminescent systems	0 580 33034 6	£70*	£35
BS EN 1838:1999 (BS 5266-7:1999) Lighting applications. Emergency lighting	0 580 32992 5	£70*	£35
BS EN 50172:2004 (BS 5266-8:2004) Emergency escape lighting systems	0 580 45157 7	£86*	£43
BS 5266-10:2008 Guide to the design and provision of emergency lighting to reduce the risks from hazards in the event of failure of the normal lighting supply	0 580 58881 5	£124*	£62

## British Standards Online (BSOL)



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### BSI Group Headquarters

389 Chiswick High Road London W4 4AL UK

Tel +44 (0)20 8996 9000

Fax +44 (0)20 8996 7400

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