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Fire Safety Standards

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In the UK **One** fire breaks out every minute. Every day there are over **47** fire related injuries. Over **11** people die every week from fire related causes*.

With these statistics* in mind BSI continues to develop standards to help make your environment safer. We can provide you with a rich source of information on fire safety, business continuity and disaster recovery.

New legislation (the Fire Safety Order - FSO) will replace the provisions of the Fire Precautions Act in England and Wales. The Fire Authority will no longer issue fire certificates for premises; instead the responsibility for fire protection will lie with the responsible person (e.g. owner) of the premises. The owner will be responsible for carrying out a risk assessment and to then make the changes identified.

*from Office for National Statistics, based on data on fire brigade callouts for 2000.

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Fire detection & alarm systems

Legal obligations and risk assessment

In the UK, around **80%** of all fire deaths and injuries occur in dwellings, a total of **450 - 500** deaths and around **14,000** injuries each year. Many of those who die are the most vulnerable in the community, namely elderly and socially deprived people. The installation of a fire detection and fire alarm system in a dwelling can substantially reduce the risk of death or serious injury from fire.

NEW

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

The new edition of BS 5839-6 is the key standard for fire detection used by fire authorities and building control officers. It applies to a range of dwellings of all sizes and is written to assist the non-specialist in compliancy and will help make installations easier to audit. It supersedes BS 5839-6:1995, which is withdrawn.

Important new changes includes:

- Special design requirements for fire detection and fire alarm systems in dwellings
- Recommendations on domestic smoke alarms
- New technologies including multi-sensor detection, carbon monoxide detection and heat detectors
- Fire warning systems for those with impaired hearing
- Recommendations for limiting false alarms by appropriate system design, system management and improved technology
- An informative annex on how to approach risk assessment and determine system design

ISBN 0 580 44100 8

Price £150*, £75 BSI Subscribing Members

Discounted special offer

BS 5839-6:2004 The design of fire detection installations for dwellings Kit 139

Order **BS 5839-6** with the **Guide to BS 5839-6 BIP 2044** and get an extra discount.

Kit contains **BS 5839-6:2004 Fire detection and alarm systems for buildings** and *The Design of Fire Detection Installations for Dwellings. A Guide to BS 5839-6:2004*

BSI Order Ref Kit 139

Price £158*, £98 BSI Subscribing Members

NEW

PAS 79 Fire risk assessment. Guidance and a recommended methodology

C S Todd & Associates Ltd



This comprehensive Publicly Available Specification (PAS) gives a new nine-step structured approach and corresponding documentation for conducting and recording significant findings of fire risk assessments in buildings and parts of buildings to which the Workplace Fire Precautions Legislation applies.

PAS 79 will enable employers, and those acting on their behalf, to carry out the 'suitable and

sufficient' fire risk assessment required by the Management of Health and Safety at Work Regulations, so as to enable the employer to satisfy the Fire Precautions (Workplace) Regulations.

PAS 79 provides tools and techniques to carry out fire risk assessments and to record the significant findings.

Fire risk assessments carried out according to PAS 79 are likely to provide a good basis for ensuring adequate fire precautions in buildings when UK Government makes major changes to fire safety legislation in England and Wales by means of a new Regulatory Reform (Fire Safety) Order.

ISBN 0 580 44723 5

BSI order ref PAS 79 Price £99*

NEW

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

Colin S Todd



This book is a comprehensive guide on how to use and implement one of BSI's best-selling fire standards BS 5839-6. The code is commonly known as the universal 'bible' for those involved in the design, installation, commissioning, maintenance and use of fire detection and alarm systems in the UK.

This new publication provides an invaluable aid to specifiers, designers and installers, including

Fire Brigades, Local Authorities, Housing Associations, Fire Alarm Contractors, Building Control Officers, Consulting Engineers, Electrical Contractors and Building Surveyors.

Paperback ISBN 0 580 441016 8

BSI Order Ref BIP 2044 Price £45*

Fire detection & alarm systems

NEW EDITION

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

This new edition of BS 5839-1:2002 incorporating amendment 1 includes significant and important changes. This code of practice:

- Includes the important amendments you need
- Contains significant changes to keep you up-to-date
- Will help you understand the key issues through greater detail and clarification
- Applies to retrofitting, extensions and alterations of existing systems
- Also for the design, installation, commissioning and maintenance of fire detection and fire alarm systems.

ISBN 0 580 40376 9

Price £190*, £95 BSI Subscribing Members

Fire Detection and Alarm Systems

A guide to the BS code BS 5839-1:2002. Code of practice for system design, installation, commissioning and maintenance *Colin S Todd*



This invaluable book provides guidance on the current version of BS 5839-1:2002 Fire detection and fire alarm systems for buildings. Code of practice for system design, installation, commissioning and maintenance. Compliance with the Code is commonly required by building control authorities throughout the UK (except Scotland where fire alarm systems are usually outside the scope of the relevant building regulations). It is also applicable to fire and other authorities that may enforce provisions for fire safety in certain occupancies, together with many property insurers.

Contents include: Contents of the Code; Selecting a suitable fire alarm system; The fire alarm contract and definition of responsibilities; The interface between the fire alarm system & other systems; The components of the system; Detection zones and alarm zones; Audible, visual and tactile fire alarm signals; Staged fire alarms; Which type of detector; Spacing and siting of automatic fire detectors; False alarms and their limitation; Installation work; Inspecting and testing; Certification; Verification; Repair and non-routine attention; User responsibilities.

Paperback 236 pages Distributed by BSI

ISBN 0 862 13129 4 **BSI Order Ref** BIP 2009 **Price** £30

Seminars are available on BS 5839-1, see page 5 for more details.

NEW

BS 5446-3:2005 Specification for smoke alarms for deaf and hard of hearing people

Smoke alarms for use in dwellings have been available for many years, and are specified in BS 5446-1. These devices are intended to warn of the presence of a potential fire condition by emitting a loud piercing sound. However, people with hearing loss can be unaware of such an alarm sound.

There are recognized methods of alerting deaf and hard of hearing people, including the use of vibro-tactile and visual alarm devices. To provide a fire warning for those who are deaf or hard of hearing, it has become common practice for such devices to be coupled to domestic smoke alarms.

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

ISBN 0 580 45647 1

Price £128*, £64 BSI Subscribing Members

BS 5446-3 applies to domestic dwellings only.

PAS 41:2003 Directional sounders. Requirements and tests

This Publicly Available Specification (PAS) has been published to provide an interim specification for companies designing and employing directional sounders as part of an emergency evacuation system within a building, ship or structure. It specifies performance requirements and methods of test and applies to directional sounders used under emergency conditions and/or where normal visibility is impaired.

Contents include: Fire alarms; Alarm systems; Fire safety in buildings; Fire safety; Warning devices; Sound generators; Performance; Performance testing; Environmental testing.

ISBN 0 580 41191 5

Price £64*, £32 BSI Subscribing Members

BS 5266-1:1999 Emergency lighting. Code of practice for the emergency lighting of premises other than cinemas and certain other specified premises used for entertainment

This Code is designed to promote wider understanding of the different types of emergency lighting systems available, and gives guidance on their correct application to different premises. It is based on providing adequate safety to people in the event of interruption of the normal lighting supply. The publication addresses the safe unobstructed means of escape from the premises at all times; location and operation of fire alarm points and firefighting equipment, and minimizing the chances of panic arising in enclosed spaces such as lifts.

ISBN 0 580 33044 3

Price £92*, £46 BSI Subscribing Members

Fire detection & alarm systems

BS EN 1838:1999, BS 5266-7:1999

Lighting applications. Emergency lighting

Gives the luminous requirements for emergency lighting requirements. To be read in conjunction with BS 5266-1:1999

ISBN 0 580 32992 5

Price £52*, £26 BSI Subscribing Members

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

ISBN 0 580 41344 6

Price £106*, £53 BSI Subscribing Members

NEW

DD CEN/TS 54-14:2004 Fire detection and alarm systems. Guidelines for planning, design, installation, commissioning, use and maintenance

This is the English language version of EN-54, the European standard approved by CEN. It is designed to draw together many different documents associated with fire detection and fire alarm systems. This is to provide a unified set of guidelines to give a reasonable Technical Specification of planning, design, installation, commissioning, use and maintenance for fire detection and fire alarm systems throughout Europe.

ISBN 0 580 44326 4 Price £120*, £60 BSI Subscribing Members

BSI ORDER REF	TITLE	ISBN	PRICE	BSI MEMBER PRICE
BS EN 54-7:2001	Smoke detectors. Point detectors using scattered light, transmitted light or ionisation	0 580 37103 4	£128*	£64
BS EN 54-10:2002	Flame detectors. Point detectors	0 580 39035 7	£106*	£53
BS EN 54-11:2001	Manual call points	0 580 37102 6	£106*	£53
BS EN 54-12:2002	Smoke detectors. Line detectors using an optical light beam	0 580 42366 2	£128*	£64

DD 245:2002 Code of practice for management of false alarms

ISBN 0 580 37231 6

Price £52*, £26 BSI Subscribing Members

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

ISBN 0 580 38258 3

Price £92*, £46 BSI Subscribing Members

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

ISBN 0 580 38259 1

Price £128*, £64 BSI Subscribing Members

Discounted special offers

Kit 42 Emergency Lighting

Includes BS 5266-1, BS 5266-2, BS 5266-4, BS 5266-5, BS 5266-6, BS EN 1838 (BS 5266-7) and BS EN 60598-2-22.

Price £380*, £190 BSI Subscribing Members

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Contains BS EN 1838 and BS 5266-1

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Contains BS 5839-1, BS 5266-1 and BS EN 1838.

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Kit 106 Graphical signs and symbols set

Includes BS 5499-1, BS 5499-4, BS 5499-5, BS 5499-11 and BS 5378-2.

ISBN 0 580 40157 X

Price £360*, £180 BSI Subscribing Members

Fire safety engineering and design

Designed to meet fire safety standards, these publications will help you build a safer environment.

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.

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

BS 7974:2001 Code of practice is designed to help you implement the key principles of fire safety engineering. It provides recommendations and guidance on the application of scientific and engineering principles in the protection of people, property and the environment from fire. The code applies to the design of new buildings and the appraisal of existing buildings.

It will enable you to:

- Supply the designer with a disciplined approach to fire safety design
- Allow the safety levels for alternative designs to be compared
- Select appropriate fire protection systems
- Offer opportunities for innovative designs
- Provide information on the management of fire safety for a building.

ISBN 0 580 38447 0

Price £106*, £53 BSI Subscribing Members

A Guide to Fire Safety 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 of a complex topic in an easily digestible and informative manner.

Contents include: What are fire precautions?; What is fire safety engineering?; Benefits of fire safety engineering; Using standard guidance - code-based solutions; Using fire safety engineering; Questions for those dealing with a fire safety engineering design

Paperback 34 pages **BSI Order Ref** BIP 2007:2003

ISBN 0 580 41896 0 **Price** £20*

COMING SOON

BS EN 12101-6 Smoke and heat control systems. Specification for pressure differential systems. Kits

BS EN 12101-6 specifies pressure differential systems designed to hold back smoke at a leaky physical barrier in a building, such as a door (either open or closed), or other similarly restricted openings. It describes relevant and critical features of installation and commissioning procedures needed to implement the calculated design in a building.

It also covers systems intended to protect means of escape, such as stairwells, corridors and lobbies. It also includes systems intended to provide a firefighting bridgehead for the Fire Services.

Price £148*, £74 BSI Subscribing Members

NEW

BS EN 54-13 Fire detection and alarm systems. Compatibility assessment of system components

This standard specifies the requirements for compatibility and connectability assessment of system components that either comply with the requirements of EN 54 or with a manufacturer's specification where there is no EN 54 standard.

It also specifies requirements for the integrity of the fire detection and fire alarm system when connected to other systems.

Price £92*, £46 BSI Subscribing Members

JULY

BS EN 14604 Self contained smoke alarms

This publication provides the requirements, test methods, performance criteria, and manufacturer's instructions for smoke alarms intended for household or similar residential application. It also includes requirements for smoke alarms for use in caravans (leisure accommodation vehicles).

Price £140*, £70 BSI Subscribing Members



Fire safety engineering and design

Additional guidance on fire safety engineering and risk assessment is provided in the rest of **BS 7974: The application of fire safety engineering principle to the design of buildings** series.

PD 7974-0:2002 Guide to design framework and fire safety engineering procedures

It provides guidance on the use of BS 7974:2001 as a framework for an engineering approach to the achievement of fire safety in buildings.

ISBN 0 580 40169 3

Price £120*, £60 BSI Subscribing Members

PD 7974-1:2003 Initiation and development of fire within the enclosures of origin

It provides guidance on evaluating fire growth/size within the enclosure of the fire origin.

ISBN 0 580 41195 8

Price £140*, £70 BSI Subscribing Members

PD 7974-2:2002 Spread of smoke and toxic gases within and beyond the enclosure of origin

It provides guidance on the application of fire safety engineering principles for the treatment of smoke movement, control and management problems. This information can be used to calculate the time between the detection of a fire to conditions developing which would be dangerous to building occupants.

ISBN 0 580 40168 5

Price £128*, £64 BSI Subscribing Members

PD 7974-3:2003 Structural response and fire spread beyond the enclosure of origin

It highlights the possible routes and conditions that will enable a fire to spread.

ISBN 0 580 40304 1

Price £182*, £91 BSI Subscribing Members

PD 7974-4:2003 Detection of fire and activation of fire protection systems

It provides guidance on the development, design and application of fire detection systems.

ISBN 0 580 41249 0

Price £106*, £53 BSI Subscribing Members

PD 7974-5:2002 Fire service intervention

It evaluates the fire service provided by private or public providers, assessing time taken to respond/extinguish and many more assessment criteria.

ISBN 0 580 40167 7

Price £64*, £32 BSI Subscribing Members

PD 7974-7:2003 Probabilistic risk assessment

This publication sets out the general principles and techniques of risk analysis for fire safety engineering. It outlines the circumstances where this approach is appropriate, with examples illustrating their use. It also includes data for probabilistic risk assessment and criteria for assessment. It is applicable to the design of new buildings and the appraisal of existing buildings.

ISBN 0 580 41515 5

Price £140*, £70 BSI Subscribing Members

Discounted special offers

BS 7974:2001 and series PD 7974. Safety engineering principles for building design. Kit 140

Contains BS 7974:2001, PD 7974-0, PD 7974-1, PD 7974-2, PD 7974-3, PD 7974-4, PD 7974-5, PD 7974-6 and PD 7974-7.

ISBN 0 580 33399 X BSI Order Ref Kit 140

Price £892*, £446 BSI Subscribing Members

PD 7974 series. Safety engineering principles for building design. Kit 141

Contains PD 7974-0, PD 7974-1, PD 7974-2, PD 7974-3, PD 7974-4, PD 7974-5, PD 7974-6 and PD 7974-7.

ISBN 0 580 33400 7 BSI Order Ref Kit 141

Price £806*, £403 BSI Subscribing Members

NEW

PD 7974-6:2004 Application of fire safety engineering principles to fire safety design of buildings. Human factors: Life safety strategies. Occupant evacuation, behaviour and condition

PD 7974-6 is a new document providing guidance and advice on engineering methods available for the life safety aspects of a fire safety engineering design in relation to evacuation strategies. It covers the evaluation of occupant condition, especially in relation to exposure to fire effluent and heat. It also gives a framework for reviewing the suitability of an engineering method for assessing the life safety potential of a building for its occupants.

ISBN 0 580 43812 0

Price £128*, £64 BSI Subscribing Members

Fire safety engineering and design

BS 5588 Fire precautions in the design, construction and use of buildings

The BS 5588 series is a range that has been developed to help those working in the engineering and construction design industries. The series covers the general design of buildings for fire precautions and is intended for use by building designers

NEW

BS 5588-5:2004 Fire precautions in the design, construction and use of buildings. Access and facilities for firefighting

BS 5588-5 has been fully revised into a new edition on access and facilities for fire-fighting. It supersedes BS 5588-5:1991, which is withdrawn. The following principal changes are introduced:

- New recommendations for vehicle access, water supplies, fire control centre, drawings for fire service use and smoke control
- Design recommendations and guidance for firefighting stairs and lifts to assist the fire service in firefighting operations
- Recommendations are also made for passenger, goods and service lifts in conjunction with firefighting lifts
- Updating of recommendations to reflect new regulations and changes in practice since the previous edition.

ISBN 0 580 43804 X

Price £120*, £60 BSI Subscribing Members

NEW

Building Regulations 2000 Approved Document B Office of the Deputy Prime Minister



This publication is one of a series issued to provide practical guidance on the requirements of the Building Regulations 2000 for England and Wales. It deals with fire safety requirements for building work and provides a consolidation of the guidance previously issued in the original 2000 edition of Approved Document B and the subsequent amendments issued in 2000 and 2002. It covers the following requirements: means of warning and escape for dwellings and other buildings (B1); internal fire spread relating to wall and ceiling

linings (B2) and structure (B3); external fire spread (B4); access and facilities for the fire service (B5); and appendices.

Key Features

- Highlights main changes to the 2000 Edition on page 2
- Extensive Indexing and Cross reference to other publications.

Paperback 155 pages ISBN 0 117 53911 2

BSI Order Ref BIP 2064 Price £13

NEW

BS 5588-12:2004 Fire precautions in the design, construction and use of buildings. Managing fire safety

This part of BS 5588 is concerned with the management of fire safety, and provides guidance for building designers, fire safety managers - and in smaller premises - the owner of the building who would have responsibility for fire safety. The standard can be tailored to the actual risks and situation present. It covers the entire building lifecycle, from design to occupation, including renovation and change of use.

The following issues are covered and will help ensure the overall building design assists and enhances the management of fire safety:

- Design issues for premises of all sizes and complexity
- The period prior to occupation of a building
- Management issues following occupation of a building
- Issues relating to building alterations or change of use
- Management of fire safety over the building's lifetime
- Guidance on fire equipment and fire safety manuals.

ISBN 0 580 44586 0

Price £140*, £70 BSI Subscribing Members

Other parts of BS 5588 are available

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

This British Standard is a safety must-have. It provides recommendations for the design, installation, components, water supplies and backflow protection, commissioning and maintenance of fire sprinkler systems installed for use specifically in residential and domestic environments. It presumes that the sprinkler protection forms part of an integrated fire safety system.

Sprinkler systems provide an additional degree of protection for both life and property above smoke and/or other fire detection systems. A correctly designed and installed sprinkler system can detect and control a fire at an early stage of development and activate an alarm. Correct operation of the system will rapidly reduce the production rate of heat and smoke, allowing more time for the occupants to escape safely or be rescued.

ISBN 0 580 44816 9

Price £92*, £46 BSI Subscribing Members

Fire safety engineering and design

Fire Safety in Care Homes for Older People and Children *Dr S D Christian*



This informative book is an invaluable resource for designers, owners and managers of homes for older people and children's homes. Also useful for anyone involved in renovation or refurbishment of care homes as it outlines the advised fire safety precautions and explains how to implement them in the planning stages. Also helpful if you are responsible for enforcing fire safety standards in both new and existing premises.

Paperback 134 pages ISBN 0 580 41427 2

BSI Order Ref BIP 2004 Price £45

Newsletter alerts

To receive free newsletter alerts on fire safety please visit www.bsi-global.com/newsletters.

BS 5950-8:2003 Structural use of steelwork in building. Code of practice for fire resistant design

To ensure that you are kept aware of these impacting developments, following the developments in fire engineering and the introduction of new publications that adopt European and international codes, this publication now gives recommendations for evaluating the fire resistance of steel and steel/concrete composite structures, derived from both standard fire tests and calculations. Methods are also given for determining the thermal response of the structure and evaluating the protection required. It supersedes BS 5950-8:1990 which is withdrawn.

The principal change in this edition is the introduction of a more comprehensive set of elevated temperature properties for:

- Hot finished steel
- Normal weight concrete
- Lightweight concrete
- Hot rolled and cold worked reinforcing bars.

ISBN 0 580 42860 5

Price £106*, £53 BSI Subscribing Members

Fire extinguishing systems

Fire Extinguishing Systems. A guide to the types, application and considerations *Dr Tim Nichols*



This guide is an introduction to fire extinguishing systems and will benefit users, consultants, students and industry professionals who require a basic understanding of fire extinguishing systems and their applications. Emphasis is given to the principles of fire extinguishing, the decision making process and other design considerations. This book provides an excellent overview of what is available and discusses the merits of each technology,

removing the mystique of the seemingly baffling array of competing extinguishing devices, appliances and fixed systems.

Contents include: Theory of Fire Extinguishing; Fire Extinguishing Systems: Inert Gas Agents, Chemical Gas Agents, Carbon Dioxide, Water Mist, Sprinklers, Foam, Dry & Wet Chemical; Detection & Control Systems; Portable Fire Extinguishers.

Paperback 106 pages Distributed by BSI ISBN 0 86213 168 5

BSI order ref BIP 2003 Price £30*

BS 5306-3:2003 Fire extinguishing installations and equipment on premises. Code of practice for the inspection and maintenance of portable fire extinguishers

ISBN 0 580 42865 6

Price £64*, £32 BSI Subscribing Members

BS 5306-4:2001 Fire extinguishing installations and equipment on premises. Specification for carbon dioxide systems

ISBN 0 580 37963 9

Price £140*, £70 BSI Subscribing Members

BS 5306-8:2000 Fire extinguishing installations and equipment on premises. Selection and installation of portable fire extinguishers. Code of practice

ISBN 0 580 33203 9

Price £64*, £32 BSI Subscribing Members

Fire extinguishing systems

NEW

BS EN 12094-4:2004

Fixed firefighting systems. Components for gas extinguishing systems. Requirements and test methods for container valve assemblies and their actuators

ISBN 0 580 44176 8

Price £106*, £53 BSI Subscribing Member

BS EN 12094-1:2003

Fixed firefighting systems. Components for gas extinguishing systems. Requirements and test methods for electrical automatic control and delay devices

ISBN 0 580 42863 X

Price £120*, £60 BSI Subscribing Members

BS EN 12094-16:2003

Fixed firefighting systems. Components for gas extinguishing systems. Requirements and test methods for odorizing devices for CO₂ low pressure systems

ISBN 0 580 41520 1

Price £52*, £26 BSI Subscribing Members

Discounted special offers

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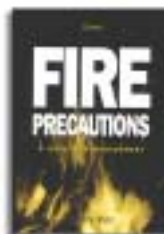
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