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













BSI fire testing and certification

A comprehensive guide










Fire standards – what BSI can certify and test



Fire Brigade Equipment

BS 336:2010	Specification for fire hose couplings and ancillary equipment	
BS 750:2012	Specification for underground fire hydrants and surface box frames and covers	
BS 5041-1:1987	Fire hydrant systems equipment – Part 1: Specification for landing valves for wet risers	
BS 5041-2:1987	Fire hydrant systems equipment – Part 2: Specification for landing valves for dry risers	
BS 5041-3:1975	Fire hydrant systems equipment – Part 3: Specification for inlet breechings for dry riser inlets	
BS 6391:2009	Specification for non-percolating layflat delivery hoses and hose assemblies for fire fighting	
BS EN 14339:2005	Underground fire hydrants	 
BS EN 14540:2005	Fire-fighting hoses – Non-percolating layflat hoses for fixed systems	 
BS EN 694:2014	Fire-fighting hoses – Semi-rigid hoses for fixed systems	 
BS EN 14384:2005	Pillar fire hydrant	 
BS EN 15182-2:2007 +A1:2009	Hand-held branchpipes for fire service use – Part 2: Combination branchpipes PN 16	
BS EN 15182-3:2007 +A1:2009	Hand-held branchpipes for fire service use – Part 3: Smooth bore jet and/or one fixed spray jet angle branchpipes PN 16	
BS EN 15182-4:2007 +A1:2009	Hand-held branchpipes for fire service use – Part 4: High pressure branchpipes PN40	
BS EN 15767-2:2009	Portable equipment for projecting extinguishing agents supplied by fire fighting pumps – Portable monitors. Part 1: General requirements for portable monitor assemblies	
BS EN 15767-3:2010	Portable equipment for projecting extinguishing agents supplied by fire fighting pumps – Portable monitors. Part 3: Foam devices	

Fire Extinguishers

BS EN 1866-1:2007	Mobile fire extinguishers – Part 1: Characteristics, performance and test methods	
BS EN 1866-2:2014	Mobile fire extinguishers – Part 2: Requirements for the construction, pressure resistance and mechanical tests for extinguishers, with a maximum allowable pressure equal to or lower than 30 bar, which comply with the requirements of EN 1866-1	
BS EN 1866-3:2013	Mobile fire extinguishers – Part 3: Requirements for the assembly, construction and pressure resistance of CO2 extinguishers which comply with the requirements of EN 1866-1	
BS EN 3-7:2004 +A1:2007	Characteristics, performance requirements and test methods	
BS EN 3-8:2006	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 3-9:2006	Additional requirements to EN 3-7 for pressure resistance of CO2 extinguishers	
BS EN 3-10:2009	Provisions for evaluating the conformity of a portable fire extinguisher to EN 3-7	






Fire Extinguishers – continued

BS 6165:2002	Specification for small disposable fire extinguishers of the aerosol type	
PAS 2013-1:2013	Liquid fire-extinguishing media – Part 1: Hand-applied units for use on Class F fires (up to 3l or up to 5l cooking media)	
SANS 1910:2009	Portable refillable fire extinguishers	
SANS 1567:2014	Portable rechargeable fire extinguishers – CO2 type extinguishers	
PAS 2013-1:2013 +C1:2014	PAS 2013-1 specifies requirements for Liquid Fire-Extinguishing Media – Part 1: Hand-applied units for use on Class F fires (up to 3L or up to 5L cooking media)	
AS/NZS 1850:2009	Portable fire extinguishers – Classification, rating and performance testing	
AS/NZS 1841.1:2007	Portable fire extinguishers. Part 1: General requirements	
AS/NZS 1841.2:2007	Portable fire extinguishers. Part 2: Specific requirements for water type extinguishers	
AS/NZS 1841.3:2007	Portable fire extinguishers. Part 3: Specific requirements for wet chemical type extinguishers	
AS/NZS 1841.4:2007	Portable fire extinguishers. Part 4: Specific requirements for foam type extinguishers	
AS/NZS 1841.5:2007	Portable fire extinguishers. Part 5: Specific requirements for powder type extinguishers	
AS/NZS 1841.6:2007	Portable fire extinguishers. Part 6: Specific requirements for carbon dioxide type extinguishers	
AS/NZS 1841.7:2007	Portable fire extinguishers. Part 7: Specific requirements for vaporising liquid type extinguishers	
AS/NZS 1841.8:2007	Portable fire extinguishers. Part 8: Specific requirements for non-rechargeable type extinguishers	



Fire Blankets



BS EN 1869:1997	Fire blankets	
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Hose Reels


BS EN 671-1:2012	Fixed firefighting systems – Hose systems Part 1: Hose reels with semi-rigid hose	 
BS EN 671-2:2012	Fixed firefighting systems – Hose systems Part 2: Hose systems with lay-flat hose	 
SANS 543:2015	Fire hose reels (with semi-rigid hose)	


Fire Extinguishing Systems

BRL-K23001/04	Evaluation Guideline for fixed dry aerosol fire extinguishing components	
BS EN 15004-1:2008	Fixed fire fighting systems – Gas extinguishing systems – Part 1: Design, installation and maintenance	

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Fire Extinguishing Media

BS EN 615:2009	Fire protection. Fire extinguishing media. Specifications for powders (other than class D powders)	
BS EN 1568-1:2018	Fire extinguishing media – Foam concentrates – Part 1: Specification for medium expansion foam concentrates for surface application to water-immiscible liquids	
BS EN 1568-2:2018	Fire extinguishing media – Foam concentrates – Part 2: Specification for high expansion foam concentrates for surface application to water-immiscible liquids	
BS EN 1568-3:2018	Fire extinguishing media. Foam concentrates - Part 3. Specification for low expansion foam concentrates for surface application to water-immiscible liquids	
BS EN 1568-4:2018	Fire extinguishing media – Foam concentrates – Part 4: Specification for low expansion foam concentrates for surface application to water-miscible liquids	

Fire Detection and Fire Alarm Devices for Dwellings

BS 5446-2:2003	Fire detection and fire alarm devices for dwellings. Part 2: Specification for heat alarms	
BS 5446-3:2015	Detection and alarm devices for dwellings – Part 3: Specification for fire alarm and carbon monoxide alarm systems for deaf and hard of hearing people	
BS EN 50291-2:2010 +A1:2015	Electrical apparatus for continuous operation in a fixed installations in recreational vehicles and similar premises including recreational craft – Additional test methods and performance requirements	
BS EN 50194-1:2009	Electrical apparatus for the detection of combustible gases in domestic premises – Test methods and performance requirements	
BS EN 14604:2005	Smoke alarm devices	
AS 3786:2014	Smoke alarms using scattered light, transmitted light or ionization	
BS EN 50291-1:2018	Gas detectors. Electrical apparatus for the detection of carbon monoxide in domestic premises. Test methods and performance requirements	

Fire Detection and Fire Alarm System Components/Devices

BS EN 54-2:1998	Fire Detection and Fire Alarm Systems – Part 2. Control and Indicating Equipment	
BS EN 54-3: 2001/2014	Fire Detection and Fire Alarm Systems – Part 3. Fire Alarm Devices – Sounders	
BS EN 54-4:1997	Fire Detection and Fire Alarm Systems – Part 4. Power Supply Equipment	
BS EN 54-5:2000	Fire Detection and Fire Alarm Systems – Part 5. Heat Detectors – Point Detectors	
BS EN 54-7:2000	Fire Detection and Fire Alarm Systems – Part 7. Smoke Detectors – Point Detectors using Scattered Light or Ionization	
BS EN 54-10:2002	Fire Detection and Fire Alarm Systems – Part 10. Flame Detectors and Point Detectors	
BS EN 54-11:2001	Fire Detection and Fire Alarm Systems – Part 11. Manual Call Points	
BS EN 54-12:2002	Fire Detection and Fire Alarm Systems – Part 12. Optical Beam Smoke Detectors	
BS EN 54-13:2015	Fire detection and fire alarm systems – Part 13: Compatibility assessment of system components	

Fire Detection and Fire Alarm System Components/Devices – continued

BS EN 54-16:2008	Fire Detection and Fire Alarm Systems – Part 16. Voice Alarm Control and Indicating Equipment	
BS EN 54-17:2005	Fire Detection and Fire Alarm Systems – Part 17. Short Circuit Isolator Modules	
BS EN 54-18:2005	Fire Detection and Fire Alarm Systems – Part 18. Input / Output Modules	
BS EN 54-20:2006	Fire Detection and Fire Alarm Systems – Part 20. Aspirating Smoke Detectors	
BS EN 54-21:2006	Fire Detection and Fire Alarm Systems – Part 21. Alarm Transmission and Fault Warning Routing Equipment	
BS EN 54-23:2010	Fire detection and fire alarm systems – Part 23. Fire Alarm Devices – Visual Alarm Systems	
BS EN 54-24:2008	Fire Detection and Fire Alarm Systems – Part 24. Components of Voice – Loud Speaker	
BS EN 54-25:2008	Fire Detection and Fire Alarm Systems – Part 25. Components using Radio Links	
BS EN 12094-1:2003	Fixed Fire Fighting Systems – Components for Gas Extinguishing Systems. Part 1: Requirements and Test Methods for Electrical Automatic Control and Delay Devices	
BS EN 12094-3:2003	Fixed firefighting systems. Components for gas extinguishing systems. Part 3: Requirements and test methods for manual triggering and stop devices	
AS 7240-2:2004	Fire detection and alarm systems – Control and indicating equipment	
AS 7240-3:2014	Fire detection and alarm systems – Audible alarm devices	
AS 7240-4:2004+A1:2016	Fire detection and alarm systems – Power supply equipment	
AS 7240-5:2004+A1:2007	Fire detection and alarm systems – Point type heat detectors	
AS 7240-7:2004	Fire detection and alarm systems – Point type smoke detectors using scattered light, transmitted light or ionization	
AS 7240-10:2008	Fire detection and alarm systems – Manual call points	
AS 7240-13:2006+A1:2006	Fire detection and alarm systems – Compatibility assessment of system components	
AS 7240-17:2015	Fire detection and alarm systems – Short circuit isolators	
AS 7240-18:2015	Fire detection and alarm systems – Input/output devices	
AS 7240-23:2014	Fire detection and alarm systems – Visual alarm devices	
AS 7240-24:2015	Fire detection and alarm systems – Sound system loudspeakers	
AS 7240-27:2016	Fire detection and alarm systems – Point type fire detectors using a scattered light, transmitted light or ionization smoke sensor, an electrochemical cell carbon monoxide sensor and a heat sensor	





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Fire Doors


BS EN 16034:2014	Pedestrian doorsets, industrial, commercial, garage doors and openable windows. Product standard, performance characteristics. Fire resisting and/or smoke control characteristics	 
BS EN 1634-1:2014	Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware. Fire resistance test for door and shutter assemblies and openable windows	
BS 476-22:1987	Fire tests on building materials and structures. Method for determination of the fire resistance of non-loadbearing elements of construction	


Emergency Lighting

BS EN 60598-1:2015	Luminaires. General requirements and tests	
BS EN 60598-2-22:2014	Luminaires. Particular requirements. Luminaires for emergency lighting	
BS EN 61347-2-7:2012	Lamp controlgear. Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)	
BS EN 61347-2-13:2014	Lamp controlgear. Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	
BS EN 50171:2001	Central power supply systems	
BS EN 62034:2012	Automatic test systems for battery powered emergency escape lighting	









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Installation/Service Schemes for Fire Detection, Fire Suppression and Emergency Lighting

BS 5839-1:2013	Fire detection and fire alarm systems for buildings. Code of practice for design, installation, commissioning and maintenance of systems in non-domestic premises	
BS 5839-6:2013	Fire detection and fire alarm systems for buildings. Code of practice for the design, installation, commissioning and maintenance of fire detection and fire alarm systems in domestic premises	
BS 5839-8:2013	Fire detection and fire alarm systems for buildings. Code of practice for the design, installation, commissioning and maintenance of voice alarm systems	
BS EN 15004-1:2008	Fixed firefighting systems. Gas extinguishing systems. Design, installation and maintenance	
BS 5266-1:2011	Emergency lighting. Code of practice for the emergency escape lighting of premises	
SANS 1475-1	The production of reconditioned fire fighting equipment – Part 1: portable and wheeled (mobile) rechargeable fire extinguishers	
NPFA 72:2016	National Fire Alarm and Signalling Code	
SAFE SP101*	Contract Maintenance of Portable Fire Extinguishers incorporating Registered Fire Extinguisher Service Technicians	
SAFE SP203-1*	Fire Detection and Alarm Systems – system design, installation, commissioning and maintenance	
SAFE SP203-3*	Fixed Gaseous Fire Suppression Systems – system design, installation, commissioning and maintenance	
SAFE SP203-4*	Emergency Lighting Systems – system design, installation, commissioning and maintenance	

* Applicable to the UK only

We are a Notified Body for the following Directives and Regulation

Construction Products Regulation (CPR)

Marine Equipment Directive (MED)

Pressure Equipment Directive (PED)

If you have any questions about certification and testing for your fire products, please contact us. Our team will be happy to help.

Speak to one of our experts
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