






















# Fire testing and certification

BSI's testing scope for fire products

























# Fire standards – that BSI can certify and test

## Fire Brigade Equipment


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

## Fire Extinguishers

<b>BS EN 1866-1</b>	Mobile fire extinguishers – Part 1: Characteristics, performance and test methods	
<b>BS EN 1866-2</b>	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	
<b>BS EN 1866-3</b>	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	
<b>BS EN 3-7: +A1</b>	Characteristics, performance requirements and test methods	
<b>BS EN 3-8</b>	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	
<b>BS EN 3-9</b>	Additional requirements to EN 3-7 for pressure resistance of CO2 extinguishers	
<b>BS EN 3-10</b>	Provisions for evaluating the conformity of a portable fire extinguisher to EN 3-7	
<b>BS 6165</b>	Specification for small disposable fire extinguishers of the aerosol type	
<b>PAS 2013-1</b>	Liquid fire-extinguishing media – Part 1: Hand-applied units for use on Class F fires (up to 3l or up to 5l cooking media)	
<b>SANS 1910:</b>	Portable refillable fire extinguishers	
<b>SANS 1567</b>	Portable rechargeable fire extinguishers – CO2 type extinguishers	
<b>PAS 2013-1+C1</b>	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)	
<b>PP503</b>	Protocol for Li-on battery fire suitability	
<b>AS/NZS 1850</b>	Portable fire extinguishers – Classification, rating and performance testing	








<b>AS/NZS 1841.1</b>	Portable fire extinguishers. Part 1: General requirements	
<b>AS/NZS 1841.2</b>	Portable fire extinguishers. Part 2: Specific requirements for water type extinguishers	
<b>AS/NZS 1841.3</b>	Portable fire extinguishers. Part 3: Specific requirements for wet chemical type extinguishers	
<b>AS/NZS 1841.4</b>	Portable fire extinguishers. Part 4: Specific requirements for foam type extinguishers	
<b>AS/NZS 1841.5</b>	Portable fire extinguishers. Part 5: Specific requirements for powder type extinguishers	
<b>AS/NZS 1841.6</b>	Portable fire extinguishers. Part 6: Specific requirements for carbon dioxide type extinguishers	
<b>AS/NZS 1841.7</b>	Portable fire extinguishers. Part 7: Specific requirements for vaporising liquid type extinguishers	
<b>AS/NZS 1841.8</b>	Portable fire extinguishers. Part 8: Specific requirements for non-rechargeable type extinguishers	

## Fire Blankets









<b>BS EN 1869</b>	Fire blankets	
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## Hose Reels

<b>BS EN 671-1</b>	Fixed firefighting systems – Hose systems Part 1: Hose reels with semi-rigid hose	  
<b>BS EN 671-2</b>	Fixed firefighting systems — Hose systems Part 2: Hose systems with lay-flat hose	  
<b>SANS 543</b>	Fire hose reels (with semi-rigid hose)	

## Fire Extinguishing Systems

<b>BRL-K23001/04</b>	Evaluation Guideline for fixed dry aerosol fire extinguishing components	
<b>BS EN 15004-1</b>	Fixed fire fighting systems – Gas extinguishing systems – Part 1: Design, installation and maintenance	
<b>BS EN 12259-12 UL448</b>	Components for sprinkler and water spray systems – Pumps	
<b>BS EN 14972-1</b> <b>BS EN 14972-3</b> <b>BS EN 14972-9</b>	Water mist systems	
<b>EN 15004-1</b> <b>UL 2166</b>	Gas extinguishing systems	
<b>BS EN 15276-1</b>	Condensed aerosol extinguishing systems	
<b>BS EN 17446</b>	Fire extinguishing systems in kitchens	
<b>SANS 14520-1</b>	Gaseous fire-extinguishing systems - Physical properties and system design Part 1: General requirements.	

## Fire Extinguishing Media

<b>BS EN 615</b>	Fire protection. Fire extinguishing media. Specifications for powders (other than class D powders)	
<b>BS EN 1568-1</b>	Fire extinguishing media – Foam concentrates – Part 1: Specification for medium expansion foam concentrates for surface application to water-immiscible liquids	
<b>BS EN 1568-2</b>	Fire extinguishing media – Foam concentrates – Part 2: Specification for high expansion foam concentrates for surface application to water-immiscible liquids	

<b>BS EN 1568-3</b>	Fire extinguishing media. Foam concentrates - Part 3. Specification for low expansion foam concentrates for surface application to water-immiscible liquids	
<b>BS EN 1568-4</b>	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

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

<b>BS EN 54-2</b>	Fire Detection and Fire Alarm Systems – Part 2. Control and Indicating Equipment	
<b>BS EN 54-3</b>	Fire Detection and Fire Alarm Systems – Part 3. Fire Alarm Devices – Sounders	
<b>BS EN 54-4</b>	Fire Detection and Fire Alarm Systems – Part 4. Power Supply Equipment	
<b>BS EN 54-5</b>	Fire Detection and Fire Alarm Systems – Part 5. Heat Detectors – Point Detectors	







<b>BS EN 54-7</b>	Fire Detection and Fire Alarm Systems – Part 7. Smoke Detectors – Point Detectors using Scattered Light or Ionization	
<b>BS EN 54-10</b>	Fire Detection and Fire Alarm Systems – Part 10. Flame Detectors and Point Detectors	
<b>BS EN 54-11</b>	Fire Detection and Fire Alarm Systems – Part 11. Manual Call Points	
<b>BS EN 54-12</b>	Fire Detection and Fire Alarm Systems – Part 12. Optical Beam Smoke Detectors	
<b>BS EN 54-13</b>	Fire detection and fire alarm systems — Part 13: Compatibility assessment of system components	
<b>BS EN 54-16</b>	Fire Detection and Fire Alarm Systems – Part 16. Voice Alarm Control and Indicating Equipment	
<b>BS EN 54-17</b>	Fire Detection and Fire Alarm Systems – Part 17. Short Circuit Isolator Modules	
<b>BS EN 54-18</b>	Fire Detection and Fire Alarm Systems – Part 18. Input / Output Modules	
<b>BS EN 54-20</b>	Fire Detection and Fire Alarm Systems – Part 20. Aspirating Smoke Detectors	
<b>BS EN 54-21</b>	Fire Detection and Fire Alarm Systems – Part 21. Alarm Transmission and Fault Warning Routing Equipment	
<b>BS EN 54-23</b>	Fire detection and fire alarm systems – Part 23. Fire Alarm Devices – Visual Alarm Systems	
<b>BS EN 54-24</b>	Fire Detection and Fire Alarm Systems – Part 24. Components of Voice – Loud Speaker	
<b>BS EN 54-25</b>	Fire Detection and Fire Alarm Systems – Part 25. Components using Radio Links	
<b>BS EN 12094-1</b>	Fixed Fire Fighting Systems – Components for Gas Extinguishing Systems. Part 1: Requirements and Test Methods for Electrical Automatic Control and Delay Devices	
<b>BS EN 12094-3</b>	Fixed firefighting systems. Components for gas extinguishing systems. Part 3: Requirements and test methods for manual triggering and stop devices	
<b>AS 7240-1</b>	Fire detection and alarm systems - General and definitions	
<b>AS 7240-2</b>	Fire detection and alarm systems – Control and indicating equipment	
<b>AS 7240-3</b>	Fire detection and alarm systems – Audible alarm devices	

<b>AS 7240-4+A1</b>	Fire detection and alarm systems - Power supply equipment	
<b>AS 7240-5+A1</b>	Fire detection and alarm systems - Point type heat detectors	
<b>AS 7240-6</b>	Fire detection and alarm systems - Part 6: Carbon monoxide fire detectors using electro-chemical cells	
<b>AS 7240-7</b>	Fire detection and alarm systems - Point type smoke detectors using scattered light, transmitted light or ionization	
<b>AS 7240-8</b>	Fire detection and alarm systems - Part 8: Carbon monoxide fire detectors using an electro-chemical cell in combination with a heat sensor	
<b>AS 7240-10</b>	Fire detection and alarm systems - Manual call points	
<b>AS 7240-11</b>	Fire detection and alarm systems - Manual call points	
<b>AS 7240-11</b>	Fire detection and alarm systems - Line type smoke detectors using a transmitted optical beam	
<b>AS 7240-13+A1</b>	Fire detection and alarm systems - Compatibility assessment of system components	
<b>AS 7240-15</b>	Fire detection and alarm systems - Part 15: Multisensor fire detectors	
<b>AS 7240-17</b>	Fire detection and alarm systems - Short circuit isolators	
<b>AS 7240-18</b>	Fire detection and alarm systems - Input/output devices	
<b>AS 7240-20</b>	Fire detection and alarm systems - Aspirating smoke detectors	
<b>AS 7240-21</b>	Fire Detection and Alarm Systems - Routing Equipment	
<b>AS 7240-22</b>	Fire detection and alarm systems - Smoke-detection equipment for ducts	
<b>AS 7240-23</b>	Fire detection and alarm systems - Visual alarm devices	
<b>AS 7240-24</b>	Fire detection and alarm systems - Sound system loudspeakers	
<b>AS 7240-27</b>	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	



## Fire Doors




















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

## Emergency Lighting

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

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

<b>BS 5839-1:2013</b>	Fire detection and fire alarm systems for buildings. Code of practice for design, installation, commissioning and maintenance of systems in non-domestic premises	
<b>BS 5839-6:2013</b>	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	

<b>BS 5839-8:2013</b>	Fire detection and fire alarm systems for buildings. Code of practice for the design, installation, commissioning and maintenance of voice alarm systems	
<b>BS EN 15004-1:2008</b>	Fixed firefighting systems. Gas extinguishing systems. Design, installation and maintenance	
<b>BS 5266-1:2011</b>	Emergency lighting. Code of practice for the emergency escape lighting of premises	
<b>SANS 1475-1</b>	The production of reconditioned fire fighting equipment – Part 1: portable and wheeled (mobile) rechargeable fire extinguishers	
<b>NPFA 72:2016</b>	National Fire Alarm and Signalling Code	
 <b>SP101*</b>	Contract Maintenance of Portable Fire Extinguishers incorporating Registered Fire Extinguisher Service Technicians	
 <b>SP203-1*</b>	Fire Detection and Alarm Systems – system design, installation, commissioning and maintenance	
 <b>SP203-3*</b>	Fixed Gaseous Fire Suppression Systems – system design, installation, commissioning and maintenance	
 <b>SP203-4*</b>	Emergency Lighting Systems – system design, installation, commissioning and maintenance	
 <b>SP205*</b>	Service and Maintenance of Dry and Wet Riser/Falling Installations	
 <b>SP206*</b>	Design, Installation, Commissioning, Recharge and Maintenance of Kitchen Fire Protection Systems Scheme	
 <b>SP207*</b>	Design, Installation, Commissioning and Maintenance of Evacuation Alert Systems Scheme	

\* Applicable to the UK only



**Key:** Symbols show the certification services available for each standard



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