

BSI fire testing and certification

A comprehensive guide



Fire standards – what BSI can certify and test

Fire Brigade Equipment

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Specification for fire hose couplings and ancillary equipment	♥
Specification for underground fire hydrants and surface box frames and covers	♥
Fire hydrant systems equipment – Part 1: Specification for landing valves for wet risers	♥
Fire hydrant systems equipment – Part 2: Specification for landing valves for dry risers	♥
Fire hydrant systems equipment – Part 3: Specification for inlet breechings for dry riser inlets	\$
Specification for non-percolating layflat delivery hoses and hose assemblies for fire fighting	\$
Underground fire hydrants	⊗ (€
Fire-fighting hoses — Non-percolating layflat hoses for fixed systems	⊗ (€
Fire-fighting hoses – Semi-rigid hoses for fixed systems	⊗ (€
Pillar fire hydrant	⊗ (€
Hand-held branchpipes for fire service use – Part 2: Combination branchpipes PN 16	\$
Hand-held branchpipes for fire service use – Part 3: Smooth bore jet and/or one fixed spray jet angle branchpipes PN 16	\$
Hand-held branchpipes for fire service use – Part 4: High pressure branchpipes PN40	♥
Portable equipment for projecting extinguishing agents supplied by fire fighting pumps — Portable monitors. Part 1: General requirements for portable monitor assemblies	\$
Portable equipment for projecting extinguishing agents supplied by fire fighting pumps — Portable monitors. Part 3: Foam devices	♥
	ancillary equipment Specification for underground fire hydrants and surface box frames and covers Fire hydrant systems equipment – Part 1: Specification for landing valves for wet risers Fire hydrant systems equipment – Part 2: Specification for landing valves for dry risers Fire hydrant systems equipment – Part 3: Specification for inlet breechings for dry riser inlets Specification for non-percolating layflat delivery hoses and hose assemblies for fire fighting Underground fire hydrants Fire-fighting hoses — Non-percolating layflat hoses for fixed systems Fire-fighting hoses — Semi-rigid hoses for fixed systems Pillar fire hydrant Hand-held branchpipes for fire service use — Part 2: Combination branchpipes PN 16 Hand-held branchpipes for fire service use — Part 3: Smooth bore jet and/or one fixed spray jet angle branchpipes PN 16 Hand-held branchpipes for fire service use — Part 4: High pressure branchpipes PN40 Portable equipment for projecting extinguishing agents supplied by fire fighting pumps — Portable monitors. Part 1: General requirements for portable monitor assemblies Portable equipment for projecting extinguishing agents supplied by fire fighting pumps —

Fire Extinguishers

Mobile fire extinguishers — Part 1: Characteristics, performance and test methods	\$
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	\$
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	\$
Characteristics, performance requirements and test methods	♥
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	\$
Additional requirements to EN 3-7 for pressure resistance of CO2 extinguishers	♥
Provisions for evaluating the conformity of a portable fire extinguisher to EN 3-7	♥
	Part 1: Characteristics, performance and test methods 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 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 Characteristics, performance requirements and test methods 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 Additional requirements to EN 3-7 for pressure resistance of CO2 extinguishers Provisions for evaluating the conformity of a

Fire Extinguishers – continued

The Extinguist	icis continaca	
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 3I or up to 5I 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	②
AS/NZS 1841.1:2007	Portable fire extinguishers. Part 1: General requirements	②
AS/NZS 1841.2:2007	Portable fire extinguishers. Part 2: Specific requirements for water type extinguishers	②
AS/NZS 1841.3:2007	Portable fire extinguishers. Part 3: Specific requirements for wet chemical type extinguishers	②
AS/NZS 1841.4:2007	Portable fire extinguishers. Part 4: Specific requirements for foam type extinguishers	②
AS/NZS 1841.5:2007	Portable fire extinguishers. Part 5: Specific requirements for powder type extinguishers	②
AS/NZS 1841.6:2007	Portable fire extinguishers. Part 6: Specific requirements for carbon dioxide type extinguishers	②
AS/NZS 1841.7:2007	Portable fire extinguishers. Part 7: Specific requirements for vaporising liquid type extinguishers	②
AS/NZS 1841.8:2007	Portable fire extinguishers. Part 8: Specific requirements for non-rechargeable type extinguishers	②

Fire Blankets

BS EN 1869:1997

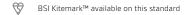
Hose Reels		
BS EN 671-1:2012	Fixed firefighting systems – Hose systems Part 1: Hose reels with semi-rigid hose	⊗ (€
BS EN 671-2:2012	Fixed firefighting systems — Hose systems Part 2: Hose systems with lay-flat hose	⊗ (€
SANS 543:2015	Fire hose reels (with semi-rigid hose)	♥

Fire blankets

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	♥

Key: \bigcirc (€ BSI Kitemark $^{\text{TM}}$ and CE marking available on this standard



CE marking available on this standard



BSI Benchmark™ available on this standard (Australia and New Zealand only)

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 con- centrates – 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	②
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	७ (€
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	७ (€
BS EN 54-10:2002	Fire Detection and Fire Alarm Systems – Part 10. Flame Detectors and Point Detectors	७ (€
BS EN 54-11:2001	Fire Detection and Fire Alarm Systems — Part 11. Manual Call Points	७ (€
BS EN 54-12:2002	Fire Detection and Fire Alarm Systems — Part 12. Optical Beam Smoke Detectors	७ (€
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	७ (€
BS EN 54-17:2005	Fire Detection and Fire Alarm Systems – Part 17. Short Circuit Isolator Modules	७ (€
BS EN 54-18:2005	Fire Detection and Fire Alarm Systems — Part 18. Input / Output Modules	७ (€
BS EN 54-20:2006	Fire Detection and Fire Alarm Systems – Part 20. Aspirating Smoke Detectors	७ (€
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	७ (€
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	७ (€
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	७ (€
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	②
AS 7240-3:2014	Fire detection and alarm systems – Audible alarm devices	②
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	②
AS 7240-7:2004	Fire detection and alarm systems – Point type smoke detectors using scattered light, transmitted light or ionization	②
AS 7240-10:2008	Fire detection and alarm systems – Manual call points	②
AS 7240- 13:2006+A1:2006	Fire detection and alarm systems – Compatibility assessment of system components	②
AS 7240-17:2015	Fire detection and alarm systems – Short circuit isolators	②
AS 7240-18:2015	Fire detection and alarm systems – Input/ output devices	②
AS 7240-23:2014	Fire detection and alarm systems – Visual alarm devices	②
AS 7240-24:2015	Fire detection and alarm systems – Sound system loudspeakers	②
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	②

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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	७ (€
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

Luminaires. General requirements and tests	♥
Luminaires. Particular requirements. Luminaires for emergency lighting	♥
Lamp controlgear. Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)	\$
Lamp controlgear. Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	♥
Central power supply systems	♥
Automatic test systems for battery powered emergency escape lighting	♥
	Luminaires. Particular requirements. Luminaires for emergency lighting Lamp controlgear. Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained) Lamp controlgear. Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules Central power supply systems Automatic test systems for battery powered

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Installation/Servicing 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	\$
BAFE SP101*	Contract Maintenance of Portable Fire Extinguishers incorporating Registered Fire Extinguisher Service Technicians	\$
BAFE SP203-1*	Fire Detection and Alarm Systems – system design, installation, commissioning and maintenance	\$
BAFE SP203-3*	Fixed Gaseous Fire Suppression Systems – system design, installation, commissioning and maintenance	₩
BAFE 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 or visit our website for more information.

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