

# BSI testing and certification for fire products

It is essential that manufacturers of fire detection and suppression products ensure that their products consistently meet the highest levels of quality and safety. This is why independent, third party certification is crucial. BSI can help you with this.

**How BSI can help** – With over 35 years of unrivalled experience, accredited certification and testing, and Notified Body Status for all relevant Directives, BSI is committed to helping manufacturers of fire detection and suppression products meet and demonstrate compliance with the relevant standards, legislation, and international market specifications.

## BSI can offer:

BSI has Notified Body Status for **18 major European Directives**, including these key Directives for fire products:

- Pressure Equipment Directive (PED) 97/23/EC
- Construction Products Directive (CPD) 89/106/EC & Construction Products Regulation (CPR) 305/2011
- ATEX Directive 96/98/EC
- Marine Equipment Directive (MED) 96/98/EC
- Low Voltage Directive (LVD) 73/23/EC
- Electro Magnetic Compatibility Directive (EMC) 89/336/EC
- Transportable Pressure Equipment Directive (TPED) 1999/36/EC

### The BSI Kitemark™



BSI can offer independent third party certification. If a product or service meet the scheme requirements, BSI award Kitemark certification, the distinctive symbol of quality and trust. 93%\* of the UK adult population believe that a BSI Kitemark product is safer. As such the BSI Kitemark helps the consumer and businesses identify quality products that meet or even exceed industry standards, therefore giving the supplier a competitive advantage.

\*GfK NOP Survey

### CE marking



The majority of fire products sold in the EU must bear the CE mark, the sign of compliance to EU Directives. BSI can offer a comprehensive range of testing and certification for CE marking which enables manufacturers to confidently and legally affix the CE mark.

### Product Testing

With a worldwide reputation as an independent and impartial testing authority, BSI can test a wide range of products to international, national and industry standards, giving our clients access to global markets. We can also work with clients to create new technical specifications that can be used to test your products.

### Other Services available from BSI

**Pre-Assessment Services.** For some products BSI can test to certain parts of a standard that will give an indication of whether the product is likely to pass the requirements of a standard.

**Gap Analysis.** BSI can provide a GAP-ANALYSIS service to show where a client is in relation to where they need to be to meet a certain standard, certification or directive/regulation.

# Alarm systems

## Control & indicating equipment, power supplies and fire extinguishing panels

In addition to the BSI Kitemark and CE marking schemes against the relevant standards for CIEs and ECDs, we can offer compatibility testing of the system (control panel devices) and, full compliance testing against Electro Magnetic Compatibility (EMC), the Low Voltage Directive (LVD), and the Marine Equipment Directive (MED). BSI can also offer testing to Marine Agency requirements

## Line units

BSI Kitemark and CE marking certification can be offered against the required standards for input/output devices and short circuit isolators. In addition, BSI can offer full compliance testing against Electro Magnetic Compatibility (EMC), and the Low Voltage Directive (LVD).

## Manual call points

Full compliance testing for the BSI Kitemark and CE marking against the standard for Manual Call Points. This can be further complemented with full compliance testing under EMC, LVD and ATEX Directives.

## Smoke and heat detectors

Full compliance testing for the BSI Kitemark and CE marking against the required standards for smoke and heat detectors. For multi criteria detectors combined testing can be undertaken. This can be complimented with full compliance testing under EMV, LVD and ATEX Directives.

## Sounders

Our anechoic and reverberation chambers enable testing of sounders to BS EN 54-3, including voice sounders, and satisfy product requirements in domestic/commercial markets for size, frequency and sound level.

## Voice and visual alarms

The BSI Kitemark and CE marking are available against BS EN 54-16 :2008 voice alarm equipment, BS EN 54-24:2008 loudspeakers, and BS EN54-23:2010 visual alarm devices.

## Wireless Systems

BSI Kitemark and CE marking can be offered for fire alarm components using radio links as their method of communication.



Pre-assessment is also available to help manufacturers spot any non conformities ahead of formal compliance stage.

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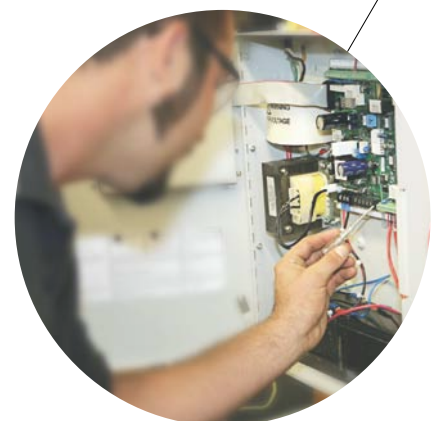
# System installation

## Fire Alarm, Suppression and Emergency Lighting

The BSI Kitemark is available for this and standards to which you can gain certification include BS 5836 parts 1, 6 and 8. We also provide certification for fixed fire fighting systems, and for emergency lighting. BAFE approval is available for design, installation and maintenance of these schemes.

## Emergency lighting

We offer BSI Kitemark certification and CE marking for a range of standards. We can offer the ENEC mark for emergency luminaries to complement the BSI Kitemark if required as stand-alone certification depending on market requirements.



## The BSI Kitemark™ certification journey

- 1 Client application**  
Manufacturer/designer/ service provider submits application with basic details (inc. range of products/ services covered)
- 2 Contract review**
  - BSI review Kitemark application
  - Requests additional information
  - Prepares quote
- 3 Quote acceptance**  
Manufacturer/supplier/ designer/service provider accepts quotation.
- 4 Initial assessment**  
FPC or quality management system assessed by BSI
- 5**

## Fire suppression



### Fire extinguishers

BSI can offer a complete testing package including on-site witness testing and integrated multi-assessment visits to cover, CE (Pressure Equipment Directive (PED) and Marine Equipment Directive (MED)) and BSI Kitemark certification. BS EN 1866-1 can be tested against the PED and / or the Transportable Pressure Equipment Directive.

### Fire hoses and connectors

All fire hoses with BSI Kitemark Certification will conform with the construction, dimension, weight, burst pressure, adhesion, moisture absorption, flexibility, heat ageing, abrasion resistance, and ozone resistance requirements of the standards.

### Fire hydrant valves

In addition to the BSI Kitemark on the whole range of fire hydrants, stand alone CE marking is offered on BS EN 14339 & BS EN 14384. Testing can be done on site or at BSI's facilities.

### Fire blankets

Full compliance testing and BSI Kitemark certification to BS EN 1869 and BS 7944.

### Fire hose reels

As well as BSI Kitemark certification to BS EN 671 Parts 1 & 2, full compliance testing can be undertaken against the Construction Products Directive / Regulation.

### Fire Extinguishing Systems

We offer BSI Kitemark certification on a range of Fire Extinguishing Systems rather than just the individual components.

BSI  
Portfolio



## Domestic alarms

### Domestic heat/smoke/CO alarms

Full compliance testing for the BSI Kitemark and CE marking, where applicable, against the required standards for smoke and heat detectors and CO alarms. This can be further complemented with full compliance testing under EMC, and LVD Directives.

### Domestic combination alarms and domestic combustible gas alarms

Full compliance testing against required standards for combustible gas alarms. For combination alarms, combined testing can be undertaken to the appropriate standards.

### Smoke alarms for the deaf and the hearing impaired

These take a number of forms: visual with the use of a beacon, or tactile in the form of a vibrating pad under a pillow, or both. For these products we offer BSI Kitemark certification against BS EN 5446-3:2005.

**Pre-assessment** is also available to help manufacturers spot any non conformities ahead of formal compliance stage.

#### Product testing

- Initial type testing completed by BSI or evidence of testing submitted
- Inspection of service delivery

6

#### Evaluation

BSI considers all evidence and assesses against product manual/standard and makes recommendation

7

#### Risk and compliance check

BSI independently review recommendation and evidence and make a decision

8

#### Kitemark certificate

Certificate is issued if decision is positive.

Annual surveillance Incl. FPC/QMS and audit testing/inspection.

# A partnership through compliance

With a wealth of experience in the testing and certification field, BSI is ideally equipped to work with you from the design stage through to the testing and compliance process, helping you to get your products on the marketplace.

Whatever level of service is required, from certification to custom product testing or project management for specialist out-sourced testing, BSI is here to help every step of the way.

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