




BS 5839-6:2019

Changes and updates



BS 5839-6:2019



BSI Standards Publication

Fire detection and fire alarm systems for buildings –
Part 6: Code of practice for the design, installation, commissioning and maintenance of fire detection and fire alarm systems in domestic premises

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The complex block represents the cover of the BS 5839-6:2019 standard. It features a collage of four images: a colorful light trail, a person in a white shirt working in a warehouse, two firefighters in full gear, and a modern car. Below the collage is a red banner with the text 'BSI Standards Publication'. The main title and subtitle are centered below the banner. At the bottom left is the 'bsi.' logo, and at the bottom right is the slogan '...making excellence a habit™'.



BS 5839-6:2019

is applicable across the UK to:

- Domestic premises
 - Existing properties
 - New Build
-
- Current version replaced BS 5839-6:2013
 - Is a 'best practice' guide
 - Emphasis on Fire Risk Assessment
 - Building regs and other guidance documents are based around the advice provided in the standard

BS 5839-6:2019



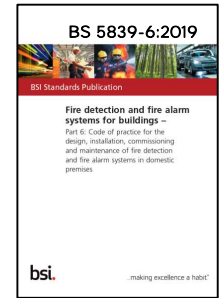
BSI Standards Publication

Fire detection and fire alarm systems for buildings –

Part 6: Code of practice for the design, installation, commissioning and maintenance of fire detection and fire alarm systems in domestic premises

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D1

Grades



Table 1













Testing &
Maintenance








Additional
Updates

GRADES

A  **Grade A**
  Separate detectors & sounders
 Mains powered & battery backup
 Separate Central control

B  **Grade B**
  Separate detectors & sounders
 Mains powered & battery backup
 Separate Central control

C  **Grade C**
  Separate detectors & sounders
 Mains powered & battery backup
 Central control

D  **Grade D**
 Mains powered & battery backup

E  **Grade E**
Mains powered & no battery backup

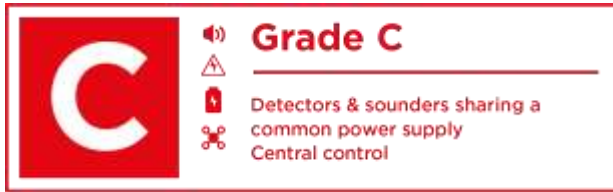
F  **Grade F**
Battery powered



Changes to
Grades



Changes to
Grades



Grade C has been redefined

A system of fire detectors and alarm sounders (which may be combined in the form of smoke alarms) connected to a common power supply, comprising the normal mains and a standby supply, with central control equipment.

In Grade C systems, an open or short circuit fault in any circuit, external to CIE, serving manual call points (if present), fire detectors or fire alarm devices should result in a fault warning at the CIE



Changes to
Grades

Grade D has been replaced with Grades D1 and D2



Grade D1: A system of one or more mains powered detectors, each with a tamper-proof standby supply consisting of a battery or batteries.

Grade D2: A system of one or more mains-powered detectors, each with an integral standby supply consisting of a user-replaceable battery or batteries.



Changes to
Grades

Grade F has been replaced with Grades F1 and F2

Grade F1: A system of one or more battery-powered detectors powered by a tamper-proof primary battery or batteries.

Grade F2: A system of one or more battery-powered detectors powered by a user-replaceable primary battery or batteries.





TABLE 1



BRITISH STANDARD BS 5839-6:2013

Table 1 Minimum Grade and Category of fire detection and fire alarm system for protection of life in typical premises

Class of premises	Minimum Grade and Category of system for installation in:					
	New or materially altered premises conforming to guidance that supports national building regulations ^{A)}			Existing premises conforming to current guidance that supports national building regulations ^{A)}		Existing premises where structural fire precautions are of a lower standard than those recommended in current guidance that supports national building regulations ^{A)}
	Grade	Category	Grade	Category	Grade	Category
Single-family dwellings ^{B)} and shared houses ^{C)} with no floor greater than 200 m² in area						
Owner-occupied bungalow, flat or other single-storey unit	D	LD2 ^{D)}	F ^{F)}	LD3 ^{G)}	D	LD2 ^{H)}
Rented bungalow, flat or other single-storey unit	D ^{I)}	LD2 ^{D)}	D	LD3 ^{G)}	D ^{I)}	LD2 ^{H)}
Owner-occupied maisonette or owner-occupied two-storey house	D	LD2 ^{D)}	F ^{F)}	LD3 ^{G)}	D	LD2 ^{H)}
Rented maisonette or rented two-storey house	D ^{I)}	LD2 ^{D)}	D ^{I)}	LD3 ^{G)}	D ^{I)}	LD2 ^{H)}
Three-storey house	D	LD2 ^{D)}	D	LD3 ^{G)}	D	LD2 ^{H)}
Four- (or more) storey house	A	LD2 ^{D)}	D	LD2 ^{D)}	A	LD2 ^{D)}
Single-family dwellings ^{B)} and shared houses ^{C)} with one or more floors greater than 200 m² in area						
Bungalow, flat or other single-storey unit	D	LD2 ^{D)}	D	LD3 ^{G)}	D	LD2 ^{D)}
Maisonette or two-storey house	A	LD2 ^{D)}	A	LD2 ^{D)}	A	LD2 ^{D)}
Three- (or more) storey house	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 ^{D)} system					
Houses in multiple occupation ^{K)} (HMOs)						
HMOs of one or two-storeys with no floor greater than 200 m ² in area	D	LD2 ^{D)}	D	LD3 ^{L)}	D	LD2 ^{M)}
Other HMOs: individual dwelling units, within the HMO, comprising two or more rooms	D ^{M)}	LD2 ^{D)}	D ^{M)}	LD3 ^{N)}	D ^{M)}	LD2 ^{H)}
Communal areas of the HMO	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 system ^{O)}					
Sheltered housing ^{P)}						
Individual dwelling units	D	LD2 ^{D)}	D	LD3 ^{R)}	D	LD2 ^{H)}
Communal areas	Grade A in accordance with the recommendations of BS 5839-1 for a Category L4 or L5 system ^{S)}					

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	New or materially altered premises		Existing premises	
	Grade	Category	Grade	Category
Single-family dwellings ^{A)} and shared houses ^{B)} with no floor greater than 200 m² in area				
Owner-occupied ^{C)} bungalow, flat or other single-storey unit	D2	LD2 ^{D)}	F2 ^{E), F), G)}	LD3 ^{F), G), H)}
Rented bungalow, flat or other single-storey unit	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} maisonette with no floor above 4.5 m from ground level or owner-occupied two-storey house	D2	LD2 ^{D)}	F2 ^{E), F), G)}	LD3 ^{F), G), H)}
Rented maisonette with no floor above 4.5 m from ground level or rented two-storey house	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Rented maisonette with any floor above 4.5 m from ground level and with alternative means of escape	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Any maisonette with any floor above 4.5 m from ground level and no alternative means of escape	D1	LD1	D1	LD1
Owner-occupied ^{C)} three-storey house	D2	LD2 ^{D)}	F2 ^{E), F), G)}	LD2 ^{D)}
Rented three-storey house	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} four- (or more) storey house	A	LD2 ^{D)}	D2 ^{I)}	LD2 ^{D)}
Rented four- (or more) storey house	A	LD1 ^{J)}	D1	LD1 ^{J)}
Single-family dwellings ^{A)} and shared houses ^{B)} with one or more floors greater than 200 m² in area				
Owner-occupied ^{C)} bungalow, flat or other single-storey unit	D2	LD2 ^{D)}	D2 ^{I)}	LD3 ^{F), G), H)}
Rented bungalow, flat or other single-storey unit	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} maisonette with no floor above 4.5 m from ground level or owner-occupied two-storey house	A	LD2 ^{D)}	D2 ^{I)}	LD3 ^{F), G), H)}
Rented maisonette with no floor above 4.5 m from ground level or rented two-storey house	A	LD2 ^{D)}	D1	LD2 ^{D)}
Rented maisonette with any floor above 4.5 m from ground level and with alternative means of escape	A	LD2 ^{D)}	D1	LD2 ^{D)}
Any maisonette with any floor above 4.5 m from ground level and no alternative means of escape	A	LD1	D1	LD1
Owner-occupied ^{C)} three-storey house	A	LD2 ^{D)}	D2 ^{I)}	LD2 ^{D)}

Source: BS 5839-6:2019, BSI

Source: BS 5839-6:2013, BSI

that supports national building regulations ^{A)}

that supports national building regulations ^{A)}

lower standard than those recommended in current guidance that supports national building regulations ^{A)}

Grade

Category

Grade

Category

Grade

Category

Single-family dwellings ^{B)} and shared houses ^{C)} with no floor greater than 200 m² in area

Owner-occupied bungalow, flat or other single-storey unit

Rented bungalow, flat or other single-storey unit

Owner-occupied maisonette or owner-occupied two storey house

Rented maisonette or rented two storey house

Three-storey house

Four- (or more) storey house

Single-family dwellings ^{B)} and shared houses ^{C)} with one or more floors greater than 200 m² in area

D

LD2 ^{D)}

F ^{F)}

LD3 ^{G)}

D

LD2 ^{H)}

D ^{E)}

LD2 ^{D)}

D

LD3 ^{G)}

D ^{E)}

LD2 ^{H)}

D

LD2 ^{D)}

F ^{F)}

LD3 ^{G)}

D

LD2 ^{H)}

D ^{E)}

LD2 ^{D)}

D ^{E)}

LD3 ^{G)}

D ^{E)}

LD2 ^{H)}

D

LD2 ^{D)}

D

LD3 ^{G)}

D

LD2 ^{H)}

A

LD2 ^{D)}

D

LD2 ^{D)}

A

LD2 ^{D) H)}



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	Existing premises where structural fire precautions are of a lower standard than those recommended in current guidance that supports national building regulations ^{A)}		Existing premises where structural fire precautions are of a lower standard than those recommended in current guidance that supports national building regulations ^{A)}		Existing premises where structural fire precautions are of a lower standard than those recommended in current guidance that supports national building regulations ^{A)}	
	Grade	Category	Grade	Category	Grade	Category
Single-family dwellings ^{B)} and shared houses ^{C)} with no floor greater than 200 m² in area						
Owner-occupied ^{C)} bungalow, flat or other single-storey unit	D	LD2 ^{D)}	F ^{F)}	LD3 ^{G)}	D	LD2 ^{H)}
Rented bungalow, flat or other single-storey unit	D ^{I)}	LD2 ^{D)}	D	LD3 ^{G)}	D ^{I)}	LD2 ^{H)}
Owner-occupied ^{C)} maisonette or owner-occupied two-storey house	D	LD2 ^{D)}	F ^{F)}	LD3 ^{G)}	D	LD2 ^{H)}
Rented maisonette or rented two-storey house	D ^{I)}	LD2 ^{D)}	D ^{I)}	LD3 ^{G)}	D ^{I)}	LD2 ^{H)}
Three-storey house	D	LD2 ^{D)}	D	LD3 ^{G)}	D	LD2 ^{H)}
Four- (or more) storey house	A	LD2 ^{D)}	D	LD2 ^{D)}	A	LD2 ^{H)}
Single-family dwellings ^{B)} and shared houses ^{C)} with one or more floors greater than 200 m² in area						
Bungalow, flat or other single-storey unit	D	LD2 ^{D)}	D	LD3 ^{G)}	D	LD2 ^{H)}
Maisonette or two-storey house	A	LD2 ^{D)}	A	LD2 ^{D)}	A	LD2 ^{H)}
Three- (or more) storey house	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 ^{I)} system					
Houses in multiple occupation ^{K)} (HMOs)						
HMOs of one or two-storeys with no floor greater than 200 m ² in area	D	LD2 ^{D)}	D	LD3 ^{I)}	D	LD2 ^{L)}
Other HMOs: individual dwelling units, within the HMO, comprising two or more rooms	D ^{M)}	LD2 ^{D)}	D ^{M)}	LD3 ^{K)}	D ^{M)}	LD2 ^{H)}
Communal areas of the HMO	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 system ^{O)}					
Sheltered housing ^{P)}						
Individual dwelling units	D	LD2 ^{D)}	D	LD3 ^{R)}	D	LD2 ^{H)}
Communal areas	Grade A in accordance with the recommendations of BS 5839-1 for a Category L4 or L5 system ^{S)}					

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Table 1 – Minimum grade and category of fire detection and fire alarm system for protection of life in typical premises

Class of premises	Minimum grade and category of system for installation in:			
	New or materially altered premises		Existing premises	
	Grade	Category	Grade	Category
Single-family dwellings ^{A)} and shared houses ^{B)} with no floor greater than 200 m² in area				
Owner-occupied ^{C)} bungalow, flat or other single-storey unit	D2	LD2 ^{D)}	F2 ^{E), F), G)}	LD3 ^{F), G), H)}
Rented bungalow, flat or other single-storey unit	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} maisonette with no floor above 4.5 m from ground level or owner-occupied two-storey house	D2	LD2 ^{D)}	F2 ^{E), F), G)}	LD3 ^{F), G), H)}
Rented maisonette with no floor above 4.5 m from ground level or rented two-storey house	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Rented maisonette with any floor above 4.5 m from ground level and with alternative means of escape	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Any maisonette with any floor above 4.5 m from ground level and no alternative means of escape	D1	LD1	D1	LD1
Owner-occupied ^{C)} three-storey house	D2	LD2 ^{D)}	F2 ^{E), F), G)}	LD2 ^{D)}
Rented three-storey house	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} four- (or more) storey house	A	LD2 ^{D)}	D2 ^{I)}	LD2 ^{D)}
Rented four- (or more) storey house	A	LD1 ^{J)}	D1	LD1 ^{J)}
Single-family dwellings ^{A)} and shared houses ^{B)} with one or more floors greater than 200 m² in area				
Owner-occupied ^{C)} bungalow, flat or other single-storey unit	D2	LD2 ^{D)}	D2 ^{I)}	LD3 ^{F), G), H)}
Rented bungalow, flat or other single-storey unit	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} maisonette with no floor above 4.5 m from ground level or owner-occupied two-storey house	A	LD2 ^{D)}	D2 ^{I)}	LD3 ^{F), G), H)}
Rented maisonette with no floor above 4.5 m from ground level or rented two-storey house	A	LD2 ^{D)}	D1	LD2 ^{D)}
Rented maisonette with any floor above 4.5 m from ground level and with alternative means of escape	A	LD2 ^{D)}	D1	LD2 ^{D)}
Any maisonette with any floor above 4.5 m from ground level and no alternative means of escape	A	LD1	D1	LD1
Owner-occupied ^{C)} three-storey house	A	LD2 ^{D)}	D2 ^{I)}	LD2 ^{D)}

Source: BS 5839-6:2013, BSI

Source: BS 5839-6:2019, BSI

Grade D2, LD2^D

- Owner Occupied
New Build (2-3 storey)

Grade D2

- A system of one or more mains powered detectors, each with an integral standby supply consisting of a user-replaceable battery or batteries

Note D:

- Heat detectors should be installed in every kitchen. A smoke detector should be installed in the principal habitable room. Where more than one room might be used as the principal habitable room, a smoke detector should be installed in each of these rooms





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Class of premises	Minimum Grade and Category of system for installation in:					
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	Grade	Category	Grade	Category	Grade	Category
Single-family dwellings ^{B)} and shared houses ^{C)} with no floor greater than 200 m² in area						
Owner-occupied bungalow, flat or other single-storey unit	D	LD2 ^{D)}	F ^{F)}	LD3 ^{G)}	D	LD2 ^{H)}
Rented bungalow, flat or other single-storey unit	D ^{I)}	LD2 ^{D)}	D	LD3 ^{G)}	D ^{I)}	LD2 ^{H)}
Owner-occupied maisonette or owner-occupied two-storey house	D	LD2 ^{D)}	F ^{F)}	LD3 ^{G)}	D	LD2 ^{H)}
Rented maisonette or rented two-storey house	D ^{I)}	LD2 ^{D)}	D ^{I)}	LD3 ^{G)}	D ^{I)}	LD2 ^{H)}
Three-storey house	D	LD2 ^{D)}	D	LD3 ^{G)}	D	LD2 ^{H)}
Four- (or more) storey house	A	LD2 ^{D)}	D	LD2 ^{D)}	A	LD2 ^{D)}
Single-family dwellings ^{B)} and shared houses ^{C)} with one or more floors greater than 200 m² in area						
Bungalow, flat or other single-storey unit	D	LD2 ^{D)}	D	LD3 ^{G)}	D	LD2 ^{D)}
Maisonette or two-storey house	A	LD2 ^{D)}	A	LD2 ^{D)}	A	LD2 ^{D)}
Three- (or more) storey house	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 ^{D)} system					
Houses in multiple occupation ^{K)} (HMOs)						
HMOs of one or two-storeys with no floor greater than 200 m ² in area	D	LD2 ^{D)}	D	LD3 ^{L)}	D	LD2 ^{M)}
Other HMOs: individual dwelling units, within the HMO, comprising two or more rooms	D ^{M)}	LD2 ^{D)}	D ^{M)}	LD3 ^{N)}	D ^{M)}	LD2 ^{H)}
Communal areas of the HMO	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 system ^{O)}					
Sheltered housing ^{P)}						
Individual dwelling units	D	LD2 ^{D)}	D	LD3 ^{R)}	D	LD2 ^{H)}
Communal areas	Grade A in accordance with the recommendations of BS 5839-1 for a Category L4 or L5 system ^{S)}					

Table 1 – Minimum grade and category of fire detection and fire alarm system for protection of life in typical premises

Class of premises	Minimum grade and category of system for installation in:			
	New or materially altered premises		Existing premises	
	Grade	Category	Grade	Category
Single-family dwellings ^{A)} and shared houses ^{B)} with no floor greater than 200 m² in area				
Owner-occupied ^{C)} bungalow, flat or other single-storey unit	D2	LD2 ^{D)}	F2 ^{E), F), G)}	LD3 ^{F), G), H)}
Rented bungalow, flat or other single-storey unit	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} maisonette with no floor above 4.5 m from ground level or owner-occupied two-storey house	D2	LD2 ^{D)}	F2 ^{E), F), G)}	LD3 ^{F), G), H)}
Rented maisonette with no floor above 4.5 m from ground level or rented two-storey house	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Rented maisonette with any floor above 4.5 m from ground level and with alternative means of escape	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Any maisonette with any floor above 4.5 m from ground level and no alternative means of escape	D1	LD1	D1	LD1
Owner-occupied ^{C)} three-storey house	D2	LD2 ^{D)}	F2 ^{E), F), G)}	LD2 ^{D)}
Rented three-storey house	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} four- (or more) storey house	A	LD2 ^{D)}	D2 ^{I)}	LD2 ^{D)}
Rented four- (or more) storey house	A	LD1 ^{J)}	D1	LD1 ^{J)}
Single-family dwellings ^{A)} and shared houses ^{B)} with one or more floors greater than 200 m² in area				
Owner-occupied ^{C)} bungalow, flat or other single-storey unit	D2	LD2 ^{D)}	D2 ^{I)}	LD3 ^{F), G), H)}
Rented bungalow, flat or other single-storey unit	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} maisonette with no floor above 4.5 m from ground level or owner-occupied two-storey house	A	LD2 ^{D)}	D2 ^{I)}	LD3 ^{F), G), H)}
Rented maisonette with no floor above 4.5 m from ground level or rented two-storey house	A	LD2 ^{D)}	D1	LD2 ^{D)}
Rented maisonette with any floor above 4.5 m from ground level and with alternative means of escape	A	LD2 ^{D)}	D1	LD2 ^{D)}
Any maisonette with any floor above 4.5 m from ground level and no alternative means of escape	A	LD1	D1	LD1
Owner-occupied ^{C)} three-storey house	A	LD2 ^{D)}	D2 ^{I)}	LD2 ^{D)}

Source: BS 5839-6:2019, BSI

Source: BS 5839-6:2013, BSI

that supports national building regulations ^{A)}

that supports national building regulations ^{A)}

lower standard than those recommended in current guidance that supports national building regulations ^{A)}

Grade

Category

Grade

Category

Grade

Category

Single-family dwellings ^{B)} and shared houses ^{C)} with no floor greater than 200 m² in area

Owner-occupied bungalow, flat or other single-storey unit

D

LD2 ^{D)}

F ^{F)}

LD3 ^{G)}

D

LD2 ^{H)}

Rented bungalow, flat or other single-storey unit

D ^{E)}

LD2 ^{D)}

D

LD3 ^{G)}

D ^{E)}

LD2 ^{H)}

Owner-occupied maisonette or owner-occupied two storey house

D

LD2 ^{D)}

F ^{F)}

LD3 ^{G)}

D

LD2 ^{H)}

Rented maisonette or rented two storey house

D ^{E)}

LD2 ^{D)}

D ^{E)}

LD3 ^{G)}

D ^{E)}

LD2 ^{H)}

Three-storey house

D

LD2 ^{D)}

D

LD3 ^{G)}

D

LD2 ^{H)}

Four- (or more) storey house

A

LD2 ^{D)}

D

LD2 ^{D)}

A

LD2 ^{D) H)}

Single-family dwellings ^{B)} and shared houses ^{C)} with one or more floors greater than 200 m² in area



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	Grade	Category	Grade	Category	Grade	Category
Single-family dwellings ^{B)} and shared houses ^{C)} with no floor greater than 200 m² in area						
Owner-occupied bungalow, flat or other single-storey unit	D	LD2 ^{D)}	F ^{F)}	LD3 ^{G)}	D	LD2 ^{H)}
Rented bungalow, flat or other single-storey unit	D ^{E)}	LD2 ^{D)}	D	LD3 ^{G)}	D ^{E)}	LD2 ^{H)}
Owner-occupied maisonette or owner-occupied two storey house	D	LD2 ^{D)}	F ^{F)}	LD3 ^{G)}	D	LD2 ^{H)}
Rented maisonette or rented two storey house	D ^{E)}	LD2 ^{D)}	D ^{E)}	LD3 ^{G)}	D ^{E)}	LD2 ^{H)}
Three-storey house	D	LD2 ^{D)}	D	LD3 ^{G)}	D	LD2 ^{H)}
Four- (or more) storey house	A	LD2 ^{D)}	D	LD2 ^{D)}	A	LD2 ^{D)}
Single-family dwellings ^{B)} and shared houses ^{C)} with one or more floors greater than 200 m² in area						
Bungalow, flat or other single-storey unit	D	LD2 ^{D)}	D	LD3 ^{G)}	D	LD2 ^{H)}
Maisonette or two-storey house	A	LD2 ^{D)}	A	LD2 ^{D)}	A	LD2 ^{D)}
Three- (or more) storey house	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 ^{D)} system					
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HMOs of one or two-storeys with no floor greater than 200 m ² in area	D	LD2 ^{D)}	D	LD3 ^{L)}	D	LD2 ^{M)}
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Communal areas of the HMO	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 system ^{O)}					
Sheltered housing ^{P)}						
Individual dwelling units	D	LD2 ^{D)}	D	LD3 ^{R)}	D	LD2 ^{H)}
Communal areas	Grade A in accordance with the recommendations of BS 5839-1 for a Category L4 or L5 system ^{S)}					

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Rented maisonette with any floor above 4.5 m from ground level and with alternative means of escape	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Any maisonette with any floor above 4.5 m from ground level and no alternative means of escape	D1	LD1	D1	LD1
Owner-occupied ^{C)} three-storey house	D2	LD2 ^{D)}	F2 ^{E), F), G)}	LD2 ^{D)}
Rented three-storey house	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} four- (or more) storey house	A	LD2 ^{D)}	D2 ^{I)}	LD2 ^{D)}
Rented four- (or more) storey house	A	LD1 ^{J)}	D1	LD1 ^{J)}
Single-family dwellings ^{A)} and shared houses ^{B)} with one or more floors greater than 200 m² in area				
Owner-occupied ^{C)} bungalow, flat or other single-storey unit	D2	LD2 ^{D)}	D2 ^{I)}	LD3 ^{F), G), H)}
Rented bungalow, flat or other single-storey unit	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} maisonette with no floor above 4.5 m from ground level or owner-occupied two-storey house	A	LD2 ^{D)}	D2 ^{I)}	LD3 ^{F), G), H)}
Rented maisonette with no floor above 4.5 m from ground level or rented two-storey house	A	LD2 ^{D)}	D1	LD2 ^{D)}
Rented maisonette with any floor above 4.5 m from ground level and with alternative means of escape	A	LD2 ^{D)}	D1	LD2 ^{D)}
Any maisonette with any floor above 4.5 m from ground level and no alternative means of escape	A	LD1	D1	LD1
Owner-occupied ^{C)} three-storey house	A	LD2 ^{D)}	D2 ^{I)}	LD2 ^{D)}

Source: BS 5839-6:2019, BSI

Source: BS 5839-6:2013, BSI

Grade D1, LD2^D,

- Rented New Build/Existing

Grade D1

- A system of one or more mains powered detectors, each with a tamper-proof standby supply consisting of a battery or batteries.

Note D:

- Heat detectors should be installed in every kitchen. A smoke detector should be installed in the principal habitable room. Where more than one room might be used as the principal habitable room, a smoke detector should be installed in each of these rooms.





TABLE 1



BRITISH STANDARD BS 5839-6:2013

Table 1 Minimum Grade and Category of fire detection and fire alarm system for protection of life in typical premises

Class of premises	Minimum Grade and Category of system for installation in:					
	New or materially altered premises conforming to guidance that supports national building regulations ^{A)}			Existing premises conforming to current guidance that supports national building regulations ^{A)}		Existing premises where structural fire precautions are of a lower standard than those recommended in current guidance that supports national building regulations ^{A)}
	Grade	Category	Grade	Category	Grade	Category
Single-family dwellings ^{B)} and shared houses ^{C)} with no floor greater than 200 m² in area						
Owner-occupied bungalow, flat or other single-storey unit	D	LD2 ^{D)}	F ^{F)}	LD3 ^{G)}	D	LD2 ^{H)}
Rented bungalow, flat or other single-storey unit	D ^{I)}	LD2 ^{D)}	D	LD3 ^{G)}	D ^{I)}	LD2 ^{H)}
Owner-occupied maisonette or owner-occupied two-storey house	D	LD2 ^{D)}	F ^{F)}	LD3 ^{G)}	D	LD2 ^{H)}
Rented maisonette or rented two-storey house	D ^{I)}	LD2 ^{D)}	D ^{I)}	LD3 ^{G)}	D ^{I)}	LD2 ^{H)}
Three-storey house	D	LD2 ^{D)}	D	LD3 ^{G)}	D	LD2 ^{H)}
Four- (or more) storey house	A	LD2 ^{D)}	D	LD2 ^{D)}	A	LD2 ^{H)}
Single-family dwellings ^{B)} and shared houses ^{C)} with one or more floors greater than 200 m² in area						
Bungalow, flat or other single-storey unit	D	LD2 ^{D)}	D	LD3 ^{G)}	D	LD2 ^{H)}
Maisonette or two-storey house	A	LD2 ^{D)}	A	LD2 ^{D)}	A	LD2 ^{H)}
Three- (or more) storey house	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 ^{I)} system					
Houses in multiple occupation ^{K)} (HMOs)						
HMOs of one or two-storeys with no floor greater than 200 m ² in area	D	LD2 ^{D)}	D	LD3 ^{L)}	D	LD2 ^{M)}
Other HMOs: individual dwelling units, within the HMO, comprising two or more rooms	D ^{M)}	LD2 ^{D)}	D ^{M)}	LD3 ^{N)}	D ^{M)}	LD2 ^{H)}
Communal areas of the HMO	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 system ^{O)}					
Sheltered housing ^{P)}						
Individual dwelling units	D	LD2 ^{D)}	D	LD3 ^{R)}	D	LD2 ^{H)}
Communal areas	Grade A in accordance with the recommendations of BS 5839-1 for a Category L4 or L5 system ^{S)}					

Table 1 – Minimum grade and category of fire detection and fire alarm system for protection of life in typical premises

Class of premises	Minimum grade and category of system for installation in:			
	New or materially altered premises		Existing premises	
	Grade	Category	Grade	Category
Single-family dwellings ^{A)} and shared houses ^{B)} with no floor greater than 200 m² in area				
Owner-occupied ^{C)} bungalow, flat or other single-storey unit	D2	LD2 ^{D)}	F2 ^{E), F), G)}	LD3 ^{F), G), H)}
Rented bungalow, flat or other single-storey unit	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} maisonette with no floor above 4.5 m from ground level or owner-occupied two-storey house	D2	LD2 ^{D)}	F2 ^{E), F), G)}	LD3 ^{F), G), H)}
Rented maisonette with no floor above 4.5 m from ground level or rented two-storey house	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Rented maisonette with any floor above 4.5 m from ground level and with alternative means of escape	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Any maisonette with any floor above 4.5 m from ground level and no alternative means of escape	D1	LD1	D1	LD1
Owner-occupied ^{C)} three-storey house	D2	LD2 ^{D)}	F2 ^{E), F), G)}	LD2 ^{D)}
Rented three-storey house	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} four- (or more) storey house	A	LD2 ^{D)}	D2 ^{I)}	LD2 ^{D)}
Rented four- (or more) storey house	A	LD1 ^{J)}	D1	LD1 ^{J)}
Single-family dwellings ^{A)} and shared houses ^{B)} with one or more floors greater than 200 m² in area				
Owner-occupied ^{C)} bungalow, flat or other single-storey unit	D2	LD2 ^{D)}	D2 ^{I)}	LD3 ^{F), G), H)}
Rented bungalow, flat or other single-storey unit	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} maisonette with no floor above 4.5 m from ground level or owner-occupied two-storey house	A	LD2 ^{D)}	D2 ^{I)}	LD3 ^{F), G), H)}
Rented maisonette with no floor above 4.5 m from ground level or rented two-storey house	A	LD2 ^{D)}	D1	LD2 ^{D)}
Rented maisonette with any floor above 4.5 m from ground level and with alternative means of escape	A	LD2 ^{D)}	D1	LD2 ^{D)}
Any maisonette with any floor above 4.5 m from ground level and no alternative means of escape	A	LD1	D1	LD1
Owner-occupied ^{C)} three-storey house	A	LD2 ^{D)}	D2 ^{I)}	LD2 ^{D)}

Source: BS 5839-6:2019, BSI

Source: BS 5839-6:2013, BSI

or owner occupied two storey house

Rented maisonette or rented two storey house

Three-storey house

Four- (or more) storey house

D^{E)}

LD2^{D)}

D^{E)}

LD3^{G)}

D^{E)}

LD2^{H)}

D

LD2^{D)}

D

LD3^{G)}

D

LD2^{H)}

A

LD2^{D)}

D

LD2^{D)}

A

LD2^{D) H)}

Single-family dwellings^{B)} and shared houses^{C)} with one or more floors greater than 200 m² in area

Bungalow, flat or other single-storey unit

Maisonette or two-storey house

Three- (or more) storey house

D

LD2^{D)}

D

LD3^{G)}

D

LD2^{G)}

A

LD2^{D)}

A

LD2^{D) I)}

A

LD2^{D) G)}

Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2^{D) I) J)} system

Houses in multiple occupation^{K)} (HMOs)

HMOs of one or two-storeys with no floor greater than 200 m² in area

Other HMOs:

Individual dwelling units, within the HMO, comprising two or more rooms

Communal areas of the HMO

D

LD2^{D)}

D

LD3^{L) G)}

D

LD2^{L) H)}

D^{M)}

LD2^{D)}

D^{M)}

LD3^{N)}

D^{M)}

LD2^{H)}

Grade A, Category LD2, with detectors sited in accordance with the



TABLE 1



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Table 1 Minimum Grade and Category of fire detection and fire alarm system for protection of life in typical premises

Class of premises	Minimum Grade and Category of system for installation in:					
	New or materially altered premises conforming to guidance that supports national building regulations ^{A)}			Existing premises conforming to current guidance that supports national building regulations ^{A)}		
	Grade	Category	Grade	Category	Grade	Category
Single-family dwellings ^{B)} and shared houses ^{C)} with no floor greater than 200 m ² in area						
Owner-occupied bungalow, flat or other single-storey unit	D	LD2 ^{D)}	F ^{F)}	LD3 ^{G)}	D	LD2 ^{H)}
Rented bungalow, flat or other single-storey unit	D ^{I)}	LD2 ^{D)}	D	LD3 ^{G)}	D ^{I)}	LD2 ^{H)}
Owner-occupied maisonette or owner-occupied two-storey house	D	LD2 ^{D)}	F ^{F)}	LD3 ^{G)}	D	LD2 ^{H)}
Rented maisonette or rented two-storey house	D ^{I)}	LD2 ^{D)}	D ^{I)}	LD3 ^{G)}	D ^{I)}	LD2 ^{H)}
Three-storey house	D	LD2 ^{D)}	D	LD3 ^{G)}	D	LD2 ^{H)}
Four- (or more) storey house	A	LD2 ^{D)}	D	LD2 ^{D)}	A	LD2 ^{D)}
Single-family dwellings ^{B)} and shared houses ^{C)} with one or more floors greater than 200 m ² in area						
Bungalow, flat or other single-storey unit	D	LD2 ^{D)}	D	LD3 ^{G)}	D	LD2 ^{H)}
Maisonette or two-storey house	A	LD2 ^{D)}	A	LD2 ^{D)}	A	LD2 ^{D)}
Three- (or more) storey house	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 ^{I)} system					
Houses in multiple occupation ^{K)} (HMOs)						
HMOs of one or two-storeys with no floor greater than 200 m ² in area	D	LD2 ^{D)}	D	LD3 ^{L)}	D	LD2 ^{M)}
Other HMOs: individual dwelling units, within the HMO, comprising two or more rooms	D ^{M)}	LD2 ^{D)}	D ^{M)}	LD3 ^{L)}	D ^{M)}	LD2 ^{H)}
Communal areas of the HMO	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 system ^{O)}					
Sheltered housing ^{P)}						
Individual dwelling units	D	LD2 ^{D)}	D	LD3 ^{R)}	D	LD2 ^{H)}
Communal areas	Grade A in accordance with the recommendations of BS 5839-1 for a Category L4 or L5 system ^{S)}					

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Table 1 – Minimum grade and category of fire detection and fire alarm system for protection of life in typical premises

Class of premises	Minimum grade and category of system for installation in:			
	New or materially altered premises		Existing premises	
	Grade	Category	Grade	Category
Single-family dwellings ^{A)} and shared houses ^{B)} with no floor greater than 200 m² in area				
Owner-occupied ^{C)} bungalow, flat or other single-storey unit	D2	LD2 ^{D)}	F2 ^{E), F), G)}	LD3 ^{F), G), H)}
Rented bungalow, flat or other single-storey unit	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} maisonette with no floor above 4.5 m from ground level or owner-occupied two-storey house	D2	LD2 ^{D)}	F2 ^{E), F), G)}	LD3 ^{F), G), H)}
Rented maisonette with no floor above 4.5 m from ground level or rented two-storey house	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Rented maisonette with any floor above 4.5 m from ground level and with alternative means of escape	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Any maisonette with any floor above 4.5 m from ground level and no alternative means of escape	D1	LD1	D1	LD1
Owner-occupied ^{C)} three-storey house	D2	LD2 ^{D)}	F2 ^{E), F), G)}	LD2 ^{D)}
Rented three-storey house	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} four- (or more) storey house	A	LD2 ^{D)}	D2 ^{I)}	LD2 ^{D)}
Rented four- (or more) storey house	A	LD1 ^{J)}	D1	LD1 ^{J)}
Single-family dwellings ^{A)} and shared houses ^{B)} with one or more floors greater than 200 m² in area				
Owner-occupied ^{C)} bungalow, flat or other single-storey unit	D2	LD2 ^{D)}	D2 ^{I)}	LD3 ^{F), G), H)}
Rented bungalow, flat or other single-storey unit	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} maisonette with no floor above 4.5 m from ground level or owner-occupied two-storey house	A	LD2 ^{D)}	D2 ^{I)}	LD3 ^{F), G), H)}
Rented maisonette with no floor above 4.5 m from ground level or rented two-storey house	A	LD2 ^{D)}	D1	LD2 ^{D)}
Rented maisonette with any floor above 4.5 m from ground level and with alternative means of escape	A	LD2 ^{D)}	D1	LD2 ^{D)}
Any maisonette with any floor above 4.5 m from ground level and no alternative means of escape	A	LD1	D1	LD1
Owner-occupied ^{C)} three-storey house	A	LD2 ^{D)}	D2 ^{I)}	LD2 ^{D)}

Source: BS 5839-6:2013, BSI

Source: BS 5839-6:2019, BSI

Rented two-storey house	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Rented maisonette with any floor above 4.5 m from ground level and with alternative means of escape	D1	LD1	D1	LD1
Any maisonette with any floor above 4.5 m from ground level and no alternative means of escape	D1	LD1	D1	LD1
Owner-occupied ^{C)} three-storey house	D2	LD2 ^{D)}	F2 ^{E), F), G)}	LD2 ^{D)}
Rented three-storey house	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} four- (or more) storey house	A	LD2 ^{D)}	D2 ^{I)}	LD2 ^{D)}
Rented four- (or more) storey house	A	LD1 ^{J)}	D1	LD1 ^{J)}
Single-family dwellings^{A)} and shared houses^{B)} with one or more floors greater than 200 m² in area				
Owner-occupied ^{C)} bungalow, flat or other single-storey unit	D2	LD2 ^{D)}	D2 ^{I)}	LD3 ^{F), G), H)}
Rented bungalow, flat or other single-storey unit	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} maisonette with no floor above 4.5 m from ground level or owner-occupied two-storey house	A	LD2 ^{D)}	D2 ^{I)}	LD3 ^{F), G), H)}
Rented maisonette with no floor above 4.5 m from ground level or rented two-storey house	A	LD2 ^{D)}	D1	LD2 ^{D)}
Rented maisonette with any floor above 4.5 m from ground level and with alternative means of escape	A	LD2 ^{D)}	D1	LD2 ^{D)}
Any maisonette with any floor above 4.5 m from ground level and no alternative means of escape	A	LD1	D1	LD1
Owner-occupied ^{C)} three-storey house	A	LD2 ^{D)}	D2 ^{I)}	LD2 ^{D)}



TABLE 1



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Table 1 Minimum Grade and Category of fire detection and fire alarm system for protection of life in typical premises

Class of premises	Minimum Grade and Category of system for installation in:					
	New or materially altered premises conforming to guidance that supports national building regulations ^{A)}			Existing premises conforming to current guidance that supports national building regulations ^{A)}		
	Grade	Category	Grade	Category	Grade	Category
Single-family dwellings ^{B)} and shared houses ^{C)} with no floor greater than 200 m ² in area						
Owner-occupied bungalow, flat or other single-storey unit	D	LD2 ^{D)}	F ^{F)}	LD3 ^{G)}	D	LD2 ^{H)}
Rented bungalow, flat or other single-storey unit	D ^{I)}	LD2 ^{D)}	D	LD3 ^{G)}	D ^{I)}	LD2 ^{H)}
Owner-occupied maisonette or owner-occupied two-storey house	D	LD2 ^{D)}	F ^{F)}	LD3 ^{G)}	D	LD2 ^{H)}
Rented maisonette or rented two-storey house	D ^{I)}	LD2 ^{D)}	D ^{I)}	LD3 ^{G)}	D ^{I)}	LD2 ^{H)}
Three-storey house	D	LD2 ^{D)}	D	LD3 ^{G)}	D	LD2 ^{H)}
Four- (or more) storey house	A	LD2 ^{D)}	D	LD2 ^{D)}	A	LD2 ^{D)}
Single-family dwellings ^{B)} and shared houses ^{C)} with one or more floors greater than 200 m ² in area						
Bungalow, flat or other single-storey unit	D	LD2 ^{D)}	D	LD3 ^{G)}	D	LD2 ^{D)}
Maisonette or two-storey house	A	LD2 ^{D)}	A	LD2 ^{D)}	A	LD2 ^{D)}
Three- (or more) storey house	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 ^{D)} system					
Houses in multiple occupation ^{K)} (HMOs)						
HMOs of one or two-storeys with no floor greater than 200 m ² in area	D	LD2 ^{D)}	D	LD3 ^{L)}	D	LD2 ^{M)}
Other HMOs: individual dwelling units, within the HMO, comprising two or more rooms	D ^{M)}	LD2 ^{D)}	D ^{M)}	LD3 ^{N)}	D ^{M)}	LD2 ^{N)}
Communal areas of the HMO	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 system ^{O)}					
Sheltered housing ^{P)}						
Individual dwelling units	D	LD2 ^{D)}	D	LD3 ^{R)}	D	LD2 ^{S)}
Communal areas	Grade A in accordance with the recommendations of BS 5839-1 for a Category L4 or L5 system ^{T)}					

Table 1 – Minimum grade and category of fire detection and fire alarm system for protection of life in typical premises

Class of premises	Minimum grade and category of system for installation in:			
	New or materially altered premises		Existing premises	
	Grade	Category	Grade	Category
Single-family dwellings ^{A)} and shared houses ^{B)} with no floor greater than 200 m² in area				
Owner-occupied ^{C)} bungalow, flat or other single-storey unit	D2	LD2 ^{D)}	F2 ^{E), F), G)}	LD3 ^{F), G), H)}
Rented bungalow, flat or other single-storey unit	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} maisonette with no floor above 4.5 m from ground level or owner-occupied two-storey house	D2	LD2 ^{D)}	F2 ^{E), F), G)}	LD3 ^{F), G), H)}
Rented maisonette with no floor above 4.5 m from ground level or rented two-storey house	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Rented maisonette with any floor above 4.5 m from ground level and with alternative means of escape	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Any maisonette with any floor above 4.5 m from ground level and no alternative means of escape	D1	LD1	D1	LD1
Owner-occupied ^{C)} three-storey house	D2	LD2 ^{D)}	F2 ^{E), F), G)}	LD2 ^{D)}
Rented three-storey house	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} four- (or more) storey house	A	LD2 ^{D)}	D2 ^{I)}	LD2 ^{D)}
Rented four- (or more) storey house	A	LD1 ^{J)}	D1	LD1 ^{J)}
Single-family dwellings ^{A)} and shared houses ^{B)} with one or more floors greater than 200 m² in area				
Owner-occupied ^{C)} bungalow, flat or other single-storey unit	D2	LD2 ^{D)}	D2 ^{I)}	LD3 ^{F), G), H)}
Rented bungalow, flat or other single-storey unit	D1	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} maisonette with no floor above 4.5 m from ground level or owner-occupied two-storey house	A	LD2 ^{D)}	D2 ^{I)}	LD3 ^{F), G), H)}
Rented maisonette with no floor above 4.5 m from ground level or rented two-storey house	A	LD2 ^{D)}	D1	LD2 ^{D)}
Rented maisonette with any floor above 4.5 m from ground level and with alternative means of escape	A	LD2 ^{D)}	D1	LD2 ^{D)}
Any maisonette with any floor above 4.5 m from ground level and no alternative means of escape	A	LD1	D1	LD1
Owner-occupied ^{C)} three-storey house	A	LD2 ^{D)}	D2 ^{I)}	LD2 ^{D)}

Source: BS 5839-6:2019, BSI

Source: BS 5839-6:2013, BSI

Maisonette or two-storey house Three- (or more) storey house	A LD2 ^{D)}	A LD2 ^{D)}	A LD2 ^{D)}
Houses in multiple occupation ^{K)} (HMOs) HMOs of one or two-storeys with no floor greater than 200 m ² in area Other HMOs: Individual dwelling units, within the HMO, comprising two or more rooms Communal areas of the HMO	D D ^{M)} Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 system ^{O)}	D D ^{M)} Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 system ^{O)}	LD3 ^{L) G)} LD3 ^{N)} Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 system ^{O)}
Sheltered housing ^{P)} Individual dwelling units Communal areas	D Grade A in accordance with the recommendations of BS 5839-1 for a Category L4 or L5 system ^{S)}	D Grade A in accordance with the recommendations of BS 5839-1 for a Category L4 or L5 system ^{S)}	LD2 ^{L) H)} LD2 ^{H), R)} Grade A in accordance with the recommendations of BS 5839-1 for a Category L4 or L5 system ^{S)}



TABLE 1



BRITISH STANDARD BS 5839-6:2013

Table 1 Minimum Grade and Category of fire detection and fire alarm system for protection of life in typical premises

Class of premises	Minimum Grade and Category of system for installation in:					
	New or materially altered premises conforming to guidance that supports national building regulations ^{A)}			Existing premises conforming to current guidance that supports national building regulations ^{A)}		
	Grade	Category	Grade	Category	Grade	Category
Single-family dwellings ^{B)} and shared houses ^{C)} with no floor greater than 200 m ² in area						
Owner-occupied bungalow, flat or other single-storey unit	D	LD2 ^{D)}	F ^{D)}	LD3 ^{D)}	D	LD2 ^{D)}
Rented bungalow, flat or other single-storey unit	D ^{D)}	LD2 ^{D)}	D	LD3 ^{D)}	D ^{D)}	LD2 ^{D)}
Owner-occupied maisonette or owner-occupied two storey house	D	LD2 ^{D)}	F ^{D)}	LD3 ^{D)}	D	LD2 ^{D)}
Rented maisonette or rented two storey house	D ^{D)}	LD2 ^{D)}	D ^{D)}	LD3 ^{D)}	D ^{D)}	LD2 ^{D)}
Three-storey house	D	LD2 ^{D)}	D	LD3 ^{D)}	D	LD2 ^{D)}
Four- (or more) storey house	A	LD2 ^{D)}	D	LD2 ^{D)}	A	LD2 ^{D)}
Single-family dwellings ^{B)} and shared houses ^{C)} with one or more floors greater than 200 m ² in area						
Bungalow, flat or other single-storey unit	D	LD2 ^{D)}	D	LD3 ^{D)}	D	LD2 ^{D)}
Maisonette or two-storey house	A	LD2 ^{D)}	A	LD2 ^{D)}	A	LD2 ^{D)}
Three- (or more) storey house	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 ^{D)} system					
Houses in multiple occupation ^{K), L)} (HMOs)						
HMOs of one or two storeys with no floor greater than 200 m ² in area	D	LD2 ^{D)}	D	LD3 ^{D)}	D	LD2 ^{D)}
Other HMOs:						
Individual dwelling units, within the HMO, comprising a single room, which include cooking facilities (bedsits)	D ^{M)}	LD2 ^{D)}	D ^{M)}	LD3 ^{M)}	D ^{M)}	LD2 ^{M)}
Individual dwelling units, within the HMO, comprising a single room, which do not include cooking facilities (bedsits)	D ^{M)}	LD2 ^{D)}	D ^{M)}	LD3 ^{M)}	D ^{M)}	LD2 ^{M)}
Individual dwelling units, within the HMO, comprising two or more rooms	D ^{M)}	LD2 ^{D)}	D ^{M)}	LD3 ^{M)}	D ^{M)}	LD2 ^{M)}
Communal areas of the HMO	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 system ^{D)}					
Sheltered housing ^{P)}						
Individual dwelling units	D	LD2 ^{D)}	D	LD3 ^{D)}	D	LD2 ^{D)}
Communal areas	Grade A in accordance with the recommendations of BS 5839-1 for a Category L4 or L5 system ^{R)}					

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Table 1 – Minimum grade and category of fire detection and fire alarm system for protection of life in typical premises

Class of premises	Minimum grade and category of system for installation in:			
	New or materially altered premises		Existing premises	
	Grade	Category	Grade	Category
Rented three-storey house	A	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} four- (or more) storey house	A	LD2 ^{D)}	A	LD2 ^{D)}
Rented four- (or more) storey house	A	LD1 ^{J)}	A	LD1 ^{J)}
Houses in multiple occupation ^{K), L)} (HMOs)				
HMOs of one or two storeys with no floor greater than 200 m ² in area	D1	LD1 ^{J)}	D1	LD2 ^{D)}
Other HMOs:				
Individual dwelling units, within the HMO, comprising a single room, which include cooking facilities (bedsits)	D1 ^{M)}	LD1 ^{J), N)}	D1 ^{M)}	LD1 ^{J), N)}
Individual dwelling units, within the HMO, comprising a single room, which do not include cooking facilities (bedsits)	D1 ^{M)}	LD1 ^{J)}	D1 ^{M)}	LD1 ^{J)}
Individual dwelling units, within the HMO, comprising two or more rooms	D1 ^{M)}	LD2 ^{D)}	D1 ^{M)}	LD2 ^{D)}
Communal areas of the HMO	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1:2017 for a Category L2 system ^{D)}			
Sheltered housing ^{P)}				
Individual dwelling units	D2	LD1 ^{J)}	D2	LD2 ^{D)}
Communal areas	Grade A in accordance with the recommendations of BS 5839-1:2017 for a Category L4 or L5 system ^{R)}			
Self-catering premises or premises with short-term paying guests	D1	LD1 ^{J)}	D1	LD1 ^{J)}
Supported housing				
Single-storey	D1	LD1 ^{J)}	D1	LD1 ^{J)}
Two or more storeys and not more than four bedrooms	D1	LD1 ^{J)}	D1	LD1 ^{J)}
Two or more storeys and more than four bedrooms	A	LD1 ^{J)}	A	LD1 ^{J)}

^{A)} Including premises with long-term lodgers, but not boarding houses, the latter of which are outside the scope of this part of BS 5839.

^{B)} Houses shared by no more than six persons, generally living in a similar manner to a single family (e.g. houses rented by a number of students).

^{C)} Including premises in which lodgers live as their principal home.

^{D)} Heat detectors should be installed in every kitchen. A smoke detector should be installed in the principal habitable room (see 3.28). Where more than one room might be used as the principal habitable room, a smoke detector should be installed in each of these rooms. The detector in the principal habitable room (but not the kitchen) may alternatively be a carbon monoxide fire detector. However, consideration needs to be given to the potential for false alarms from a smoke detector in the lounge if a kitchen opens directly into, or is combined with, the lounge.

Source: BS 5839-6:2019, BSI

Source: BS 5839-6:2013, BSI

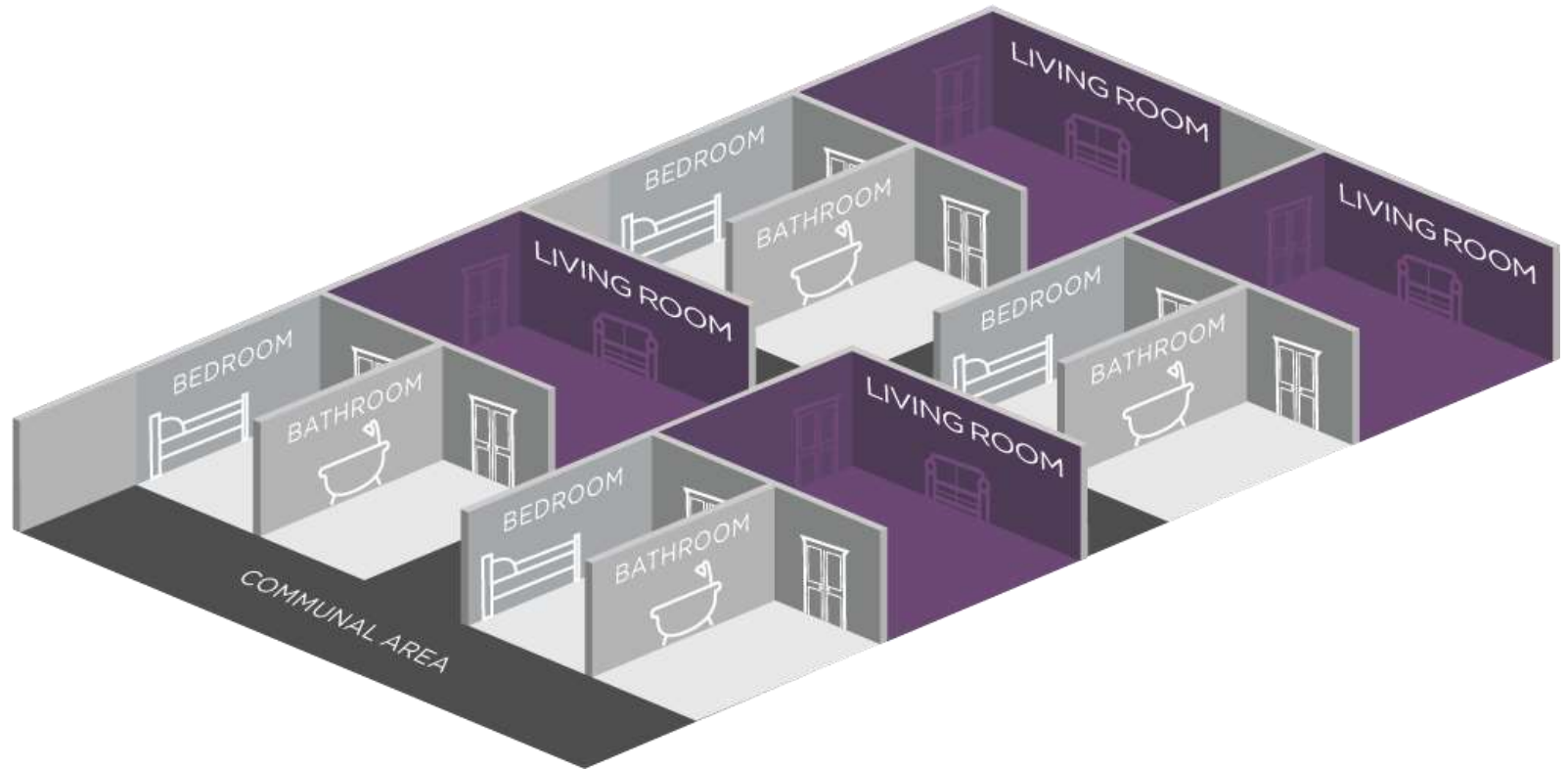
Sheltered Housing - Existing

Individual Dwellings -
Grade D2, Category LD2^Q

Communal Area - Grade A,
Category L4/L5

Note Q

- Where sheltered housing is upgraded, electrical work such as a rewire is undertaken, or smoke alarms are replaced, a Grade D (D1 or D2), Category LD1 system should be installed.



Sheltered Housing - New or Materially Altered

Individual Dwellings -
Grade D2, Category LD1^J

Communal Area -
Grade A, Category L4/L5

Note J

- Detectors may normally be omitted from roof voids unless there are specific significant fire hazards such as gas boilers or electrical equipment for photovoltaic systems.

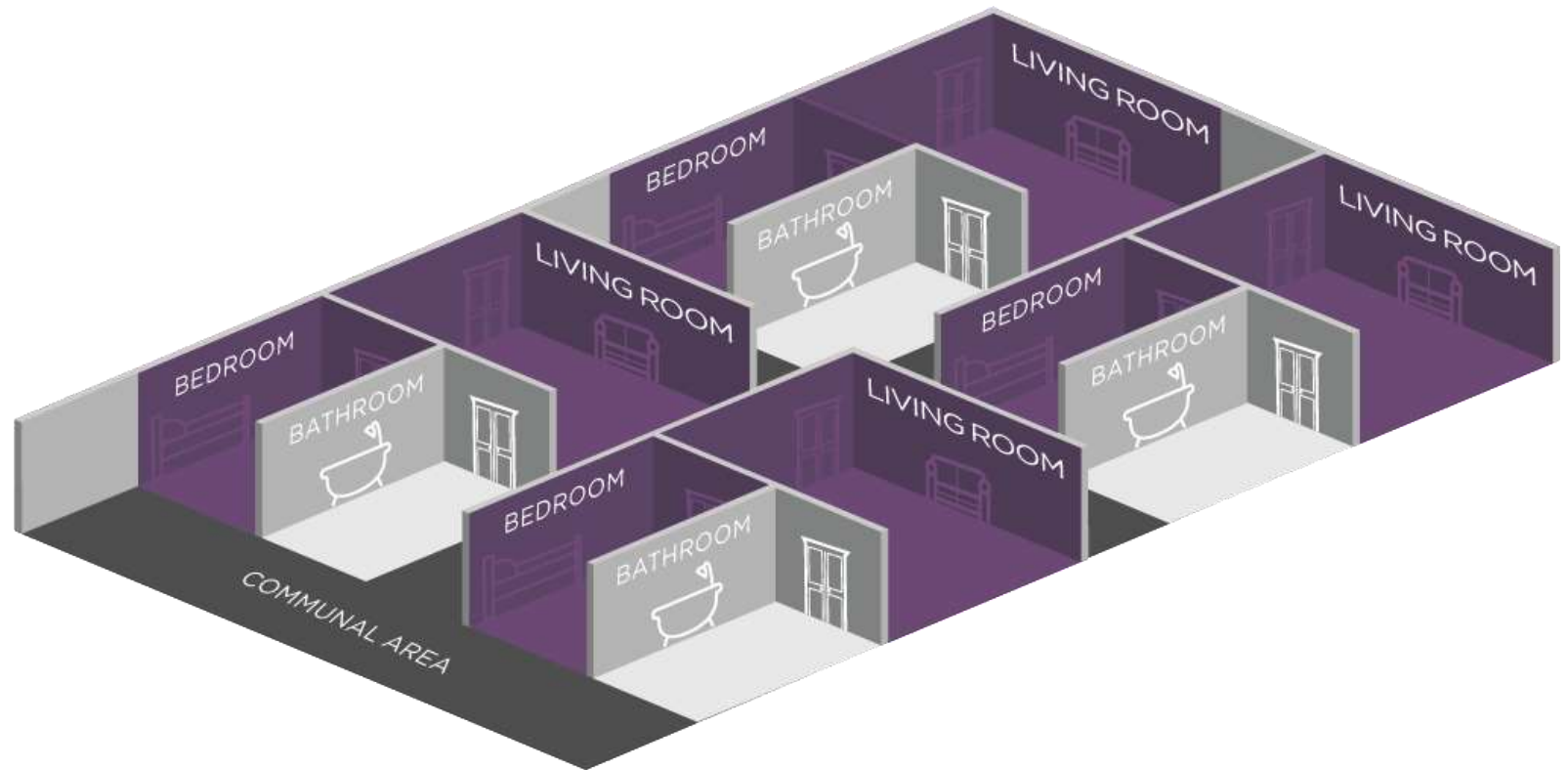




TABLE 1



BRITISH STANDARD BS 5839-6:2013

Table 1 Minimum Grade and Category of fire detection and fire alarm system for protection of life in typical premises

Class of premises	Minimum Grade and Category of system for installation in:					
	New or materially altered premises conforming to guidance that supports national building regulations ^{A)}		Existing premises conforming to current guidance that supports national building regulations ^{A)}		Existing premises where structural fire precautions are of a lower standard than those recommended in current guidance that supports national building regulations ^{A)}	
	Grade	Category	Grade	Category	Grade	Category
Single-family dwellings ^{B)} and shared houses ^{C)} with no floor greater than 200 m ² in area						
Owner-occupied bungalow, flat or other single-storey unit	D	LD2 ^{D)}	F ^{D)}	LD3 ^{D)}	D	LD2 ^{D)}
Rented bungalow, flat or other single-storey unit	D ^{D)}	LD2 ^{D)}	D	LD3 ^{D)}	D ^{D)}	LD2 ^{D)}
Owner-occupied maisonette or owner-occupied two storey house	D	LD2 ^{D)}	F ^{D)}	LD3 ^{D)}	D	LD2 ^{D)}
Rented maisonette or rented two storey house	D ^{D)}	LD2 ^{D)}	D ^{D)}	LD3 ^{D)}	D ^{D)}	LD2 ^{D)}
Three-storey house	D	LD2 ^{D)}	D	LD3 ^{D)}	D	LD2 ^{D)}
Four- (or more) storey house	A	LD2 ^{D)}	D	LD2 ^{D)}	A	LD2 ^{D)}
Single-family dwellings ^{B)} and shared houses ^{C)} with one or more floors greater than 200 m ² in area						
Bungalow, flat or other single-storey unit	D	LD2 ^{D)}	D	LD3 ^{D)}	D	LD2 ^{D)}
Maisonette or two-storey house	A	LD2 ^{D)}	A	LD2 ^{D)}	A	LD2 ^{D)}
Three- (or more) storey house	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 ^{D)} system					
Houses in multiple occupation ^{K), L)} (HMOs)						
HMOs of one or two storeys with no floor greater than 200 m ² in area	D	LD2 ^{D)}	D	LD3 ^{D)}	D	LD2 ^{D)}
Other HMOs: Individual dwelling units, within the HMO, comprising two or more rooms	D ^{M)}	LD2 ^{D)}	D ^{M)}	LD3 ^{D)}	D ^{M)}	LD2 ^{D)}
Communal areas of the HMO	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 system ^{D)}					
Sheltered housing ^{P)}						
Individual dwelling units	D	LD2 ^{D)}	D	LD3 ^{D)}	D	LD2 ^{D)}
Communal areas	Grade A in accordance with the recommendations of BS 5839-1 for a Category L4 or L5 system ^{R)}					

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Source: BS 5839-6:2013, BSI

Table 1 – Minimum grade and category of fire detection and fire alarm system for protection of life in typical premises

Class of premises	Minimum grade and category of system for installation in:			
	New or materially altered premises		Existing premises	
	Grade	Category	Grade	Category
Rented three-storey house	A	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} four- (or more) storey house	A	LD2 ^{D)}	A	LD2 ^{D)}
Rented four- (or more) storey house	A	LD1 ^{J)}	A	LD1 ^{J)}
Houses in multiple occupation ^{K), L)} (HMOs)				
HMOs of one or two storeys with no floor greater than 200 m ² in area	D1	LD1 ^{J)}	D1	LD2 ^{D)}
Other HMOs: Individual dwelling units, within the HMO, comprising a single room, which include cooking facilities (bedsits)	D1 ^{M)}	LD1 ^{J), N)}	D1 ^{M)}	LD1 ^{J), N)}
Individual dwelling units, within the HMO, comprising a single room, which do not include cooking facilities (bedsits)	D1 ^{M)}	LD1 ^{J)}	D1 ^{M)}	LD1 ^{J)}
Individual dwelling units, within the HMO, comprising two or more rooms	D1 ^{M)}	LD2 ^{D)}	D1 ^{M)}	LD2 ^{D)}
Communal areas of the HMO	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1:2017 for a Category L2 system ^{O)}			
Sheltered housing ^{P)}				
Individual dwelling units	D2	LD1 ^{J)}	D2	LD2 ^{Q)}
Communal areas	Grade A in accordance with the recommendations of BS 5839-1:2017 for a Category L4 or L5 system ^{R)}			
Self-catering premises or premises with short-term paying guests	D1	LD1 ^{J)}	D1	LD1 ^{J)}
Supported housing				
Single-storey	D1	LD1 ^{J)}	D1	LD1 ^{J)}
Two or more storeys and not more than four bedrooms	D1	LD1 ^{J)}	D1	LD1 ^{J)}
Two or more storeys and more than four bedrooms	A	LD1 ^{J)}	A	LD1 ^{J)}

A) Including premises with long-term lodgers, but not boarding houses, the latter of which are outside the scope of this part of BS 5839.
 B) Houses shared by no more than six persons, generally living in a similar manner to a single family (e.g. houses rented by a number of students).
 C) Including premises in which lodgers live as their principal home.
 D) Heat detectors should be installed in every kitchen. A smoke detector should be installed in the principal habitable room (see 3.28). Where more than one room might be used as the principal habitable room, a smoke detector should be installed in each of these rooms. The detector in the principal habitable room (but not the kitchen) may alternatively be a carbon monoxide fire detector. However, consideration needs to be given to the potential for false alarms from a smoke detector in the lounge if a kitchen opens directly into, or is combined with, the lounge.

Source: BS 5839-6:2019, BSI

Maisonette or two-storey house	A	LD2 ^{D)}	A	LD2 ^{D)}	A	LD2 ^{D)}
Three- (or more) storey house	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 ^{D) (I) J)} system					
Houses in multiple occupation ^{K)} (HMOs)						
HMOs of one or two-storeys with no floor greater than 200 m ² in area	D	LD2 ^{D)}	D	LD3 ^{L) G)}	D	LD2 ^{L) H)}
Other HMOs: Individual dwelling units, within the HMO, comprising two or more rooms	D ^{M)}	LD2 ^{D)}	D ^{M)}	LD3 ^{N)}	D ^{M)}	LD2 ^{H)}
Communal areas of the HMO	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 system ^{O)}					
Sheltered housing ^{P)}						
Individual dwelling units	D	LD2 ^{Q)}	D	LD3 ^{R)}	D	LD2 ^{H), R)}
Communal areas	Grade A in accordance with the recommendations of BS 5839-1 for a Category L4 or L5 system ^{S)}					



TABLE 1



BRITISH STANDARD BS 5839-6:2013

Table 1 Minimum Grade and Category of fire detection and fire alarm system for protection of life in typical premises

Class of premises	Minimum Grade and Category of system for installation in:					
	New or materially altered premises conforming to guidance that supports national building regulations ^{A)}		Existing premises conforming to current guidance that supports national building regulations ^{A)}		Existing premises where structural fire precautions are of a lower standard than those recommended in current guidance that supports national building regulations ^{A)}	
	Grade	Category	Grade	Category	Grade	Category
Single-family dwellings ^{B)} and shared houses ^{C)} with no floor greater than 200 m ² in area						
Owner-occupied bungalow, flat or other single-storey unit	D	LD2 ^{D)}	F ^{D)}	LD3 ^{G)}	D	LD2 ^{H)}
Rented bungalow, flat or other single-storey unit	D ^{D)}	LD2 ^{D)}	D	LD3 ^{G)}	D ^{D)}	LD2 ^{H)}
Owner-occupied maisonette or owner-occupied two storey house	D	LD2 ^{D)}	F ^{D)}	LD3 ^{G)}	D	LD2 ^{H)}
Rented maisonette or rented two storey house	D ^{D)}	LD2 ^{D)}	D ^{D)}	LD3 ^{G)}	D ^{D)}	LD2 ^{H)}
Three-storey house	D	LD2 ^{D)}	D	LD3 ^{G)}	D	LD2 ^{H)}
Four- (or more) storey house	A	LD2 ^{D)}	D	LD2 ^{D)}	A	LD2 ^{D)}
Single-family dwellings ^{B)} and shared houses ^{C)} with one or more floors greater than 200 m ² in area						
Bungalow, flat or other single-storey unit	D	LD2 ^{D)}	D	LD3 ^{G)}	D	LD2 ^{H)}
Maisonette or two-storey house	A	LD2 ^{D)}	A	LD2 ^{D)}	A	LD2 ^{D)}
Three- (or more) storey house	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 ^{D)} system					
Houses in multiple occupation ^{K), L)} (HMOs)						
HMOs of one or two storeys with no floor greater than 200 m ² in area	D	LD2 ^{D)}	D	LD3 ^{G)}	D	LD2 ^{H)}
Other HMOs: Individual dwelling units, within the HMO, comprising a single room, which include cooking facilities (bedsits)	D ^{M)}	LD2 ^{D)}	D ^{M)}	LD3 ^{H)}	D ^{M)}	LD2 ^{H)}
Individual dwelling units, within the HMO, comprising a single room, which do not include cooking facilities (bedsits)	D ^{M)}	LD2 ^{D)}	D ^{M)}	LD3 ^{H)}	D ^{M)}	LD2 ^{H)}
Individual dwelling units, within the HMO, comprising two or more rooms	D ^{M)}	LD2 ^{D)}	D ^{M)}	LD3 ^{H)}	D ^{M)}	LD2 ^{H)}
Communal areas of the HMO	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1 for a Category L2 system ^{D)}					
Sheltered housing ^{P)}						
Individual dwelling units	D	LD2 ^{D)}	D	LD3 ^{H)}	D	LD2 ^{H)}
Communal areas	Grade A in accordance with the recommendations of BS 5839-1 for a Category L4 or L5 system ^{R)}					

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Source: BS 5839-6:2013, BSI

Table 1 – Minimum grade and category of fire detection and fire alarm system for protection of life in typical premises

Class of premises	Minimum grade and category of system for installation in:			
	New or materially altered premises		Existing premises	
	Grade	Category	Grade	Category
Rented three-storey house	A	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} four- (or more) storey house	A	LD2 ^{D)}	A	LD2 ^{D)}
Rented four- (or more) storey house	A	LD1 ^{J)}	A	LD1 ^{J)}
Houses in multiple occupation ^{K), L)} (HMOs)				
HMOs of one or two storeys with no floor greater than 200 m ² in area	D1	LD1 ^{J)}	D1	LD2 ^{D)}
Other HMOs: Individual dwelling units, within the HMO, comprising a single room, which include cooking facilities (bedsits)	D1 ^{M)}	LD1 ^{J), N)}	D1 ^{M)}	LD1 ^{J), N)}
Individual dwelling units, within the HMO, comprising a single room, which do not include cooking facilities (bedsits)	D1 ^{M)}	LD1 ^{J)}	D1 ^{M)}	LD1 ^{J)}
Individual dwelling units, within the HMO, comprising two or more rooms	D1 ^{M)}	LD2 ^{D)}	D1 ^{M)}	LD2 ^{D)}
Communal areas of the HMO	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1:2017 for a Category L2 system ^{O)}			
Sheltered housing ^{P)}				
Individual dwelling units	D2	LD1 ^{J)}	D2	LD2 ^{Q)}
Communal areas	Grade A in accordance with the recommendations of BS 5839-1:2017 for a Category L4 or L5 system ^{R)}			
Self-catering premises or premises with short-term paying guests	D1	LD1 ^{J)}	D1	LD1 ^{J)}
Supported housing				
Single-storey	D1	LD1 ^{J)}	D1	LD1 ^{J)}
Two or more storeys and not more than four bedrooms	D1	LD1 ^{J)}	D1	LD1 ^{J)}
Two or more storeys and more than four bedrooms	A	LD1 ^{J)}	A	LD1 ^{J)}

- A) Including premises with long-term lodgers, but not boarding houses, the latter of which are outside the scope of this part of BS 5839.
- B) Houses shared by no more than six persons, generally living in a similar manner to a single family (e.g. houses rented by a number of students).
- C) Including premises in which lodgers live as their principal home.
- D) Heat detectors should be installed in every kitchen. A smoke detector should be installed in the principal habitable room (see 3.28). Where more than one room might be used as the principal habitable room, a smoke detector should be installed in each of these rooms. The detector in the principal habitable room (but not the kitchen) may alternatively be a carbon monoxide fire detector. However, consideration needs to be given to the potential for false alarms from a smoke detector in the lounge if a kitchen opens directly into, or is combined with, the lounge.

Source: BS 5839-6:2019, BSI

Grade D1, LD1^D,

HMO - 1-2 Storey - Existing

Grade D1

- A system of one or more mains powered detectors, each with a tamper-proof standby supply consisting of a battery or batteries.

Note D:

- Heat detectors should be installed in every kitchen. A smoke detector should be installed in the principal habitable room. Where more than one room might be used as the principal habitable room, a smoke detector should be installed in each of these rooms.





Additional Property types

- Self Catering premises or
- Premises with short-term guests
- Supported Housing

Table 1 – Minimum grade and category of fire detection and fire alarm system for protection of life in typical premises

Class of premises	Minimum grade and category of system for installation in:			
	New or materially altered premises		Existing premises	
	Grade	Category	Grade	Category
Rented three-storey house	A	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} four- (or more) storey house	A	LD2 ^{D)}	A	LD2 ^{D)}
Rented four- (or more) storey house	A	LD1 ^{J)}	A	LD1 ^{J)}
Houses in multiple occupation^{K), L)} (HMOs)				
HMOs of one or two storeys with no floor greater than 200 m ² in area	D1	LD1 ^{J)}	D1	LD2 ^{D)}
Other HMOs:				
Individual dwelling units, within the HMO, comprising a single room, which include cooking facilities (bedsits)	D1 ^{M)}	LD1 ^{J), N)}	D1 ^{M)}	LD1 ^{J), N)}
Individual dwelling units, within the HMO, comprising a single room, which do not include cooking facilities (bedsits)	D1 ^{M)}	LD1 ^{J)}	D1 ^{M)}	LD1 ^{J)}
Individual dwelling units, within the HMO, comprising two or more rooms	D1 ^{M)}	LD2 ^{D)}	D1 ^{M)}	LD2 ^{D)}
Communal areas of the HMO	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1:2017 for a Category L2 system ^{O)}			
Sheltered housing^{P)}				
Individual dwelling units	D2	LD1 ^{J)}	D2	LD2 ^{Q)}
Communal areas	Grade A in accordance with the recommendations of BS 5839-1:2017 for a Category L4 or L5 system ^{R)}			
Self-catering premises or premises with short-term paying guests	D1	LD1 ^{J)}	D1	LD1 ^{J)}
Supported housing				
Single-storey	D1	LD1 ^{J)}	D1	LD1 ^{J)}
Two or more storeys and not more than four bedrooms	D1	LD1 ^{J)}	D1	LD1 ^{J)}
Two or more storeys and more than four bedrooms	A	LD1 ^{J)}	A	LD1 ^{J)}

^{A)} Including premises with long-term lodgers, but not boarding houses, the latter of which are outside the scope of this part of BS 5839.

^{B)} Houses shared by no more than six persons, generally living in a similar manner to a single family (e.g. houses rented by a number of students).

^{C)} Including premises in which lodgers live as their principal home.

^{D)} Heat detectors should be installed in every kitchen. A smoke detector should be installed in the principal habitable room (see 3.28). Where more than one room might be used as the principal habitable room, a smoke detector should be installed in each of these rooms. The detector in the principal habitable room (but not the kitchen) may alternatively be a carbon monoxide fire detector. However, consideration needs to be given to the potential for false alarms from a smoke detector in the lounge if a kitchen opens directly into, or is combined with, the lounge.

Rented three-storey house	A	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} four- (or more) storey house	A	LD2 ^{D)}	A	LD2 ^{D)}
Rented four- (or more) storey house	A	LD1 ^{J)}	A	LD1 ^{J)}
Houses in multiple occupation^{K), L)} (HMOs)				
HMOs of one or two storeys with no floor greater than 200 m ² in area	D1	LD1 ^{J)}	D1	LD2 ^{D)}
Other HMOs:				
Individual dwelling units, within the HMO, comprising a single room, which include cooking facilities (bedsits)	D1 ^{M)}	LD1 ^{J), N)}	D1 ^{M)}	LD1 ^{J), N)}
Individual dwelling units, within the HMO, comprising a single room, which do not include cooking facilities (bedsits)	D1 ^{M)}	LD1 ^{J)}	D1 ^{M)}	LD1 ^{J)}
Individual dwelling units, within the HMO, comprising two or more rooms	D1 ^{M)}	LD2 ^{D)}	D1 ^{M)}	LD2 ^{D)}
Communal areas of the HMO	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1:2017 for a Category L2 system ^{O)}			
Sheltered housing^{P)}				
Individual dwelling units	D2	LD1 ^{J)}	D2	LD2 ^{Q)}
Communal areas	Grade A in accordance with the recommendations of BS 5839-1:2017 for a Category L4 or L5 system ^{R)}			
Self-catering premises or premises with short-term paying guests	D1	LD1 ^{J)}	D1	LD1 ^{J)}
Supported housing				
Single-storey	D1	LD1 ^{J)}	D1	LD1 ^{J)}
Two or more storeys and not more than four bedrooms	D1	LD1 ^{J)}	D1	LD1 ^{J)}
Two or more storeys and more than four bedrooms	A	LD1 ^{J)}	A	LD1 ^{J)}

^{A)} Including premises with long-term lodgers, but not boarding houses, the latter of which are outside the scope of this part of BS 5839.

^{B)} Houses shared by no more than six persons, generally living in a similar manner to a single family (e.g. houses rented by a number of students).

^{C)} Including premises in which lodgers live as their principal home.

^{D)} Heat detectors should be installed in every kitchen. A smoke detector should be installed in the principal habitable room (see 3.28). Where more than one room might be used as the principal habitable room, a smoke detector should be installed in each of these rooms. The detector in the principal habitable room (but not the kitchen) may alternatively be a carbon monoxide fire detector. However, consideration needs to be given to the potential for false alarms from a smoke detector in the lounge if a kitchen opens directly into, or is combined with, the lounge.



Additional Property types

- Self Catering premises or
- Premises with short-term guests
- Supported Housing

Table 1 – Minimum grade and category of fire detection and fire alarm system for protection of life in typical premises

Class of premises	Minimum grade and category of system for installation in:			
	New or materially altered premises		Existing premises	
	Grade	Category	Grade	Category
Rented three-storey house	A	LD2 ^{D)}	D1	LD2 ^{D)}
Owner-occupied ^{C)} four- (or more) storey house	A	LD2 ^{D)}	A	LD2 ^{D)}
Rented four- (or more) storey house	A	LD1 ^{J)}	A	LD1 ^{J)}
Houses in multiple occupation^{K), L)} (HMOs)				
HMOs of one or two storeys with no floor greater than 200 m ² in area	D1	LD1 ^{J)}	D1	LD2 ^{D)}
Other HMOs:				
Individual dwelling units, within the HMO, comprising a single room, which include cooking facilities (bedsits)	D1 ^{M)}	LD1 ^{J), N)}	D1 ^{M)}	LD1 ^{J), N)}
Individual dwelling units, within the HMO, comprising a single room, which do not include cooking facilities (bedsits)	D1 ^{M)}	LD1 ^{J)}	D1 ^{M)}	LD1 ^{J)}
Individual dwelling units, within the HMO, comprising two or more rooms	D1 ^{M)}	LD2 ^{D)}	D1 ^{M)}	LD2 ^{D)}
Communal areas of the HMO	Grade A, Category LD2, with detectors sited in accordance with the recommendations of BS 5839-1:2017 for a Category L2 system ^{O)}			
Sheltered housing^{P)}				
Individual dwelling units	D2	LD1 ^{J)}	D2	LD2 ^{Q)}
Communal areas	Grade A in accordance with the recommendations of BS 5839-1:2017 for a Category L4 or L5 system ^{R)}			
Self-catering premises or premises with short-term paying guests	D1	LD1 ^{J)}	D1	LD1 ^{J)}
Supported housing				
Single-storey	D1	LD1 ^{J)}	D1	LD1 ^{J)}
Two or more storeys and not more than four bedrooms	D1	LD1 ^{J)}	D1	LD1 ^{J)}
Two or more storeys and more than four bedrooms	A	LD1 ^{J)}	A	LD1 ^{J)}

^{A)} Including premises with long-term lodgers, but not boarding houses, the latter of which are outside the scope of this part of BS 5839.

^{B)} Houses shared by no more than six persons, generally living in a similar manner to a single family (e.g. houses rented by a number of students).

^{C)} Including premises in which lodgers live as their principal home.

^{D)} Heat detectors should be installed in every kitchen. A smoke detector should be installed in the principal habitable room (see 3.28). Where more than one room might be used as the principal habitable room, a smoke detector should be installed in each of these rooms. The detector in the principal habitable room (but not the kitchen) may alternatively be a carbon monoxide fire detector. However, consideration needs to be given to the potential for false alarms from a smoke detector in the lounge if a kitchen opens directly into, or is combined with, the lounge.



Addition of new Table 3

Testing and servicing by Grade

Updated Testing schedule

All systems, other than Grade A systems, should be tested at least every month.

In the case of smoke alarms and any heat alarms, this test may be carried out by use of a test button on each of the smoke alarms, heat alarms and multi-sensor alarms installed in the premises.

If a fire alarm has no test button, assistance with testing should be sought from a fire service company. In the case of linked alarms the “one alarm, all alarm” feature must be verified. The alarm should be visually inspected and any defects should be noted for action.

Grade of detection	Type of fire detection and fire alarm system	Frequency of test by user	Testing action to be taken by user	Frequency of service by competent person	Servicing procedure by competent person	Records held for property	Battery change recommendations
A	Systems of a type described in BS 5839-1	Weekly	As in BS 5839-1	6 months	As in BS 5839-1	As in BS 5839-1	As in BS 5839-1
C	Fire detectors and fire alarms supplied with power from a common PSU, with central control equipment	Monthly	Press test button on central control equipment (if a fire alarm system has no test button, testing should be carried out in accordance with the manufacturer's or supplier's instructions, or advice should be sought from a service company)	12 months for sheltered housing scheme and dispersed telecare-enabled fire detection and fire alarm systems; otherwise to the extent recommended by the manufacturer ^{A)}	As in Annex I, if applicable ^{B), C)}	—	If replaceable follow manufacturer's recommendations
D	Mains-powered smoke alarms, heat alarms or multi-sensor alarms with standby supplies	Monthly	Press test button	12 months for sheltered housing scheme and dispersed telecare-enabled fire detection and fire alarm systems; otherwise not applicable ^{B)}	As in Annex I, if applicable ^{B), C)}	—	Internal batteries replaced in accordance with manufacturer's recommendations or when a low battery warning has been generated, whichever is the soonest
F	Battery-powered smoke alarms, heat alarms or multi-sensor alarms	Monthly	Press test button	12 months for sheltered housing scheme and dispersed telecare-enabled fire detection and fire alarm systems; otherwise not applicable ^{B)}	As in Annex I, if applicable ^{B), C)}	—	Internal batteries replaced in accordance with manufacturer's recommendations or when a low battery warning has been generated, whichever is the soonest

C	Fire detectors and fire alarms supplied with power from a common PSU, with central control equipment	Monthly	Press test button on central control equipment (if a fire alarm system has no test button, testing should be carried out in accordance with the manufacturer's or supplier's instructions, or advice should be sought from a service company)	12 months for sheltered housing scheme and dispersed telecare-enabled fire detection and fire alarm systems; otherwise to the extent recommended by the manufacturer ^{A)}	As in Annex I, if applicable ^{B), C)}	—	If replaceable follow manufacturer's recommendations
D	Mains-powered smoke alarms, heat alarms or multi-sensor alarms with standby supplies	Monthly	Press test button	12 months for sheltered housing scheme and dispersed telecare-enabled fire detection and fire alarm systems; otherwise not applicable ^{B)}	As in Annex I, if applicable ^{B), C)}	—	Internal batteries replaced in accordance with manufacturer's recommendations or when a low battery warning has been generated, whichever is the soonest
F	Battery-powered smoke alarms, heat alarms or multi-sensor alarms	Monthly	Press test button	12 months for sheltered housing scheme and dispersed telecare-enabled fire detection and fire alarm systems; otherwise not applicable ^{B)}	As in Annex I, if applicable ^{B), C)}	—	Internal batteries replaced in accordance with manufacturer's recommendations or when a low battery warning has been generated, whichever is the soonest



Addition of new Table 3

Testing and servicing by Grade

Updated Testing schedule

All systems, other than Grade A systems, should be tested at least every month.

In the case of smoke alarms and any heat alarms, this test may be carried out by use of a test button on each of the smoke alarms, heat alarms and multi-sensor alarms installed in the premises.

If a fire alarm has no test button, assistance with testing should be sought from a fire service company. In the case of linked alarms the “one alarm, all alarm” feature must be verified. The alarm should be visually inspected and any defects should be noted for action.

Grade of detection	Type of fire detection and fire alarm system	Frequency of test by user	Testing action to be taken by user	Frequency of service by competent person	Servicing procedure by competent person	Records held for property	Battery change recommendations
A	Systems of a type described in BS 5839-1	Weekly	As in BS 5839-1	6 months	As in BS 5839-1	As in BS 5839-1	As in BS 5839-1
C	Fire detectors and fire alarms supplied with power from a common PSU, with central control equipment	Monthly	Press test button on central control equipment (if a fire alarm system has no test button, testing should be carried out in accordance with the manufacturer's or supplier's instructions, or advice should be sought from a service company)	12 months for sheltered housing scheme and dispersed telecare-enabled fire detection and fire alarm systems; otherwise to the extent recommended by the manufacturer ^{A)}	As in Annex I, if applicable ^{B), C)}	—	If replaceable follow manufacturer's recommendations
D	Mains-powered smoke alarms, heat alarms or multi-sensor alarms with standby supplies	Monthly	Press test button	12 months for sheltered housing scheme and dispersed telecare-enabled fire detection and fire alarm systems; otherwise not applicable ^{B)}	As in Annex I, if applicable ^{B), C)}	—	Internal batteries replaced in accordance with manufacturer's recommendations or when a low battery warning has been generated, whichever is the soonest
F	Battery-powered smoke alarms, heat alarms or multi-sensor alarms	Monthly	Press test button	12 months for sheltered housing scheme and dispersed telecare-enabled fire detection and fire alarm systems; otherwise not applicable ^{B)}	As in Annex I, if applicable ^{B), C)}	—	Internal batteries replaced in accordance with manufacturer's recommendations or when a low battery warning has been generated, whichever is the soonest



Additional Updates

BS 5839-6:2019



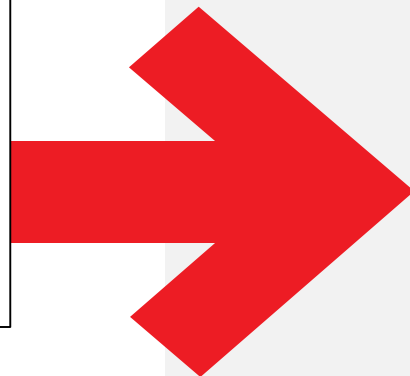
BSI Standards Publication

Fire detection and fire alarm systems for buildings –

Part 6: Code of practice for the design, installation, commissioning and maintenance of fire detection and fire alarm systems in domestic premises

bsi.

...making excellence a habit™



Multiple definitions updated throughout

CO Alarm Interconnection:

Mains powered CO alarms conforming to BS EN 50291 and installed in compliance with BS EN 50292 may also be interlinked with the fire detection and alarm system if the manufacturer of all the components makes such a recommendation

Alarm transmission:

All fire detection, alarm and transmission / signaling recommendations in the NFCC Specialised Housing Guide have been incorporated into this review

The Ei3024 Multi-Sensor Fire Alarm

- Total fire coverage
- Every fire is different - giving off different levels of smoke and heat at differing rates
- Traditional single sensors suited to different fire types
- Thermistor Heat Sensor and high performance Optical Sensor intelligently work together



Data sent between dual sensors monitoring heat and smoke levels

If a rise in temperature is detected by the heat sensor...

...data will relay to the optical sensor, increasing it's sensitivity to smoke



The Ei3028 Multi-Sensor Heat & CO Alarm

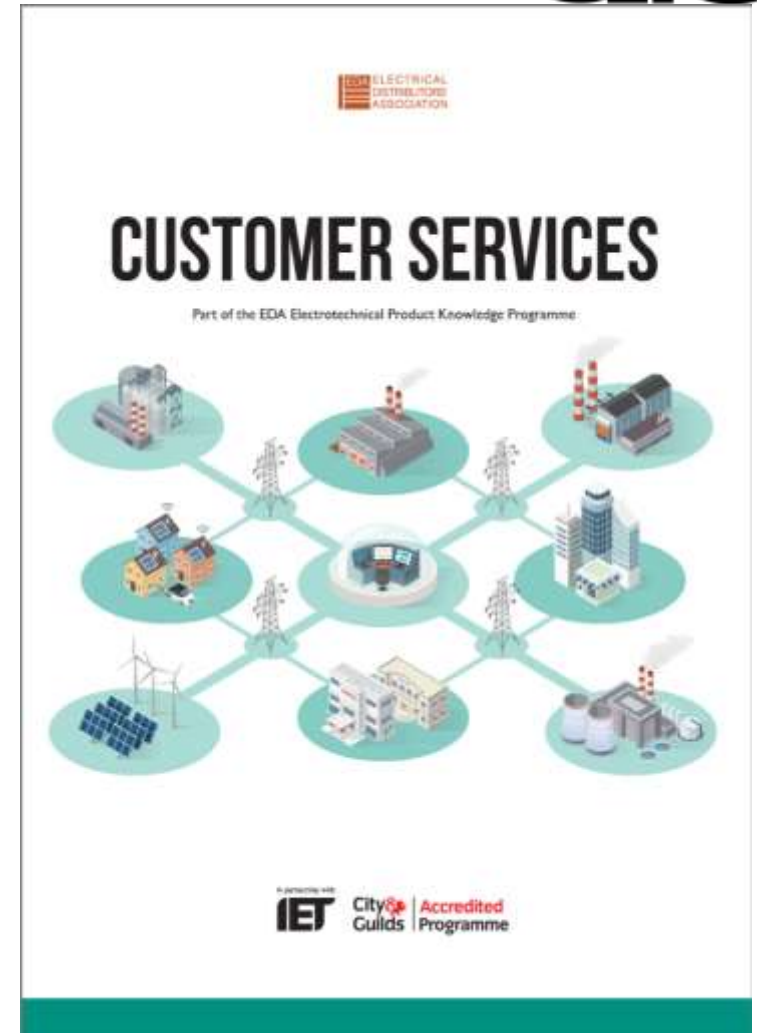
- Now protect from Fire & CO with one alarm
- Contains both a fast response Thermistor Heat Sensor & our proven Electrochemical CO Sensor
- One alarm, one installation, double the protection
- 50% of accidental fires start in the kitchen* where gas cookers and boilers are often kept



*Fire Statistics: England April 2015 to March 2016

| Customer Services

- Starting June 2019
- Severn Apprentices undertaking the module
- Aim being to work through all modules
- As new apprentices start, they will automatically enrol onto the modules.
- Customer Service Module will be a compulsory feature of Aico Apprenticeships



| Customer Services



- A way of providing 20% off the Job Training
- Working in partnership with the EDA to help give our Apprentices a quality enhanced experience





Quality | Service | Innovation