Electrical Experts A Landlords Guide

British Standard BS 5839-6:2019

Fire Alarm Systems for Domestic Premises In The Rental & HMO Sectors

The British Standards Institution recently updated Part 6 of BS 5839:6-2019 this applies to architects, building professionals, installers and enforcing authorities to ensure constant compliance when specifying, installing and maintaining fire detection systems in domestic properties.

Property Classifications

BS5839:6 2019 Is Guidance Standard only and NOT the LAW unlike in Scotland. However when replacing or installing from April 1st 2019 the installation must be installed to the current standards as set out below.

PRS Private Rental Sector

LD2 Medium Protection

Grade D1 Mains Powered with tamper proof battery

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.

HMO Sector (Licensed or Not)

THERE ARE 2 TYPES OF HMO'S

A licensed HMO –This is where 5 or more (unrelated people), share amenities in one property. A licensed HMO needs to be registered with the council, and you will need to pay a licensing fee.

An Unlicensed HMO – This is where 3 and/or 4 (unrelated people), share amenities in one property. You will not have to pay a licensing fee.

LD2 Medium Protection/LD1 High Protection

Grade D1 Mains Powered with tamper proof battery

Grade D1, LD2D

House of Multiple Occupancy (HMO)

Existing (1-2 Storey)

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.

BS5839:6 2019 Is Guidance Standard only and NOT the LAW unlike in Scotland. However when replacing or installing from April 1st 2019 the installation must be installed to the current standards as set out below.

Testing and Maintenance

There is the addition of new Table 3 for testing and servicing by Grade. The aim of this is to bring clarity and simplicity.

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

Test Regularity:

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.

No Test Button:

If a fire alarm has no test button, assistance with testing should be a sought from a fire service company. In 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.

Notes:

REVISED SYSTEM GRADES

THE CATEGORIES

For Fire Detection and Fire Alarm Systems

The latest revision has updated the previously defined six system grades, removing Grade B and Grade E, whilst Grade D and Grade F are now split into Grade D1 / Grade D2 and Grade F1 / Grade F2 respectively. New system grades are as follows:.

Revised Grades - for fire detection and fire alarm systems as per BS 5839-6:019

GRADE

Separate detectors, sounders and central control and indicating equipment with back-up power supply that conforms to British Standards BS EN 54.

GRADE

GRADE

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.

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

GRADE

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

GRADE

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

GRADE

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

The standard states that the level of protection to the occupants needs to be directly related to the fire risk. It does list three Categories of system to describe the level of protection to provide. Where and how many alarms are installed will affect how quickly a fire is detected

LD1 MAXIMUM PROTECTION

Escape routes, high risk rooms plus all areas where a fire might start

The highest level of protection of all occupants who might occupy the dwelling over the lifetime of the fire detection and fire alarm system. A system installed throughout the premises, incorporating detectors in all circulation areas that form part of the escape routes from the premises, and in all rooms and areas, other than those with negligible sources of ignition, such as toilets, bathrooms and shower rooms.

Hallway, Landing, Living Room, Kitchen (Heat Alarm), Bedroom, Airing / Meter Cupboards, Loft, Garage



LD2 MEDIUM PROTECTION

Escape routes plus high risk rooms

A system incorporating detectors in all circulation areas that form part of the escape routes from the premises, and in all specified rooms or areas that present a high fire risk to occupants, including a heat alarm in any kitchen and a smoke alarm in principle habitable room(s).

Note This is now the new minimum category for all rented properties and must include a heat alarm in the kitchen and a smoke alarm in principle habitable room(s) which may include Bedrooms.

Hallway, Landing, Living Room, Kitchen (Heat Alarm) & Bedrooms as required.



LD3 MINIMUM PROTECTION

Escape routes only

A system incorporating detectors in all circulation areas that form part of the escape routes from the premises. Smoke alarms should be installed in all circulation spaces that form part of escape routes such as:

Hallway, Landing

Note This minimum category now onty applies to owner occupied bungalow, flat, single-storey unit or maisonette with no floor level above 4.5m from ground level or owner-occupied two-storey house.



REVISED TABLE 1

TABLE 3

Minimum Grade and Category of Fire Detection and Fire Alarm System

Testing and Servicing By Grade

Latest revisions include new minimum grades and categories of systems split by new build or existing property. Updates have been made to reflect current types of living conditions, see summary table below*:

Grade	Category	Further Notes to Consider
Grade D1	LD2	Note D: Heat detectors should be installed in every kitchen. A smoke detector should be installed in the principal habitable room(s).
Individual,Dwellings: Grade D2 Communal Area: Grade A	LD2	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.
Individual Units: Grade D2 Communal Area: Grade A Part 1	LD1	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.
Recommendations		
Existing: Grade D1	LD2	Note.D
Act band. orace of	No. of Concession, Name	Note N: If cooking facilities in room, install heat alarm
w (<3 Storey): Grade D2 New (<4 Storey): Grade A	LD2 LD2	Note D Note D
	Grade D1 Individual,Dwellings: Grade D2 Communal Area: Grade A Individual Units: Grade D2 Communal Area: Grade A Part 1 Recommendations Existing: Grade D1 New Build: Grade D1 ww (<3 Storey): Grade	Grade D1 LD2 Individual,Dwellings: LD2 Grade D2 Communal Area: LD2 Grade A LD1 Individual Units: Grade D2 Communal Area: LD1 Grade A Part 1 Recommendations Existing: Grade D1 LD2 New Build: Grade D1 LD1 w (<3 Storey): Grade

New Minimum Standard for Rented Properties and Owner Occupied:

Rented Properties - New Minimum Standard now requires LD2 and D1 Grade alarms whether existing or new build plus note D

Owner Occupied - New Minimum Standard now requires LD2 and D2 alarms plus note D for new builds / materially altered Grade F2 alarms and LD3 min for bungalow / single storey unit but now with notes E), F) and G

Where more than one smoke alarm is installed, all smoke alarms need to be interlinked [see 13.2c)]. Any heat alarms also need to be interlinked with the smoke alarms.

Notes

 13.2c) In all premises, all smoke alarms and heat alarms (if provided) in Grade D and Grade F systems should be interlinked, such that, when fire is detected by any smoke alarm or heat alarm, an audible fire alarm warning is given by all smoke alarms and heat alarms in the premises.

Note E) A Grade F1 system should be installed if there is any doubt regarding the long term suitability or reliability of a battery powered system, i.e. the ability to replace batteries

Note F) Where electrical work such as a rewire is undertaken, Grade (D1 or D2) category LD2 system should be installed

Note G) Scottish Housing Act 1987 Order 2019 (11), Grade F1, Category LD2 systems are a minimum in existing dwellings

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In conjunction with changes to Table 1, a new Table 3 has also been created, which outlines the recommended testing and servicing by grade per grade of detection – here is a summary of Table 3*:

Grade of detection	Type of fire detection & fire alarm system	Frequency of test by user	Testing action to be taken by user
Α	Systems of a type described in BS 5839-1:2017	Weekly	As in BS 5839-1:2017
С	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)
D	Mains-powered smoke alarms, heat alarms or multi-sensor alarms with standby supplies	Monthly	Press test button
F/	Battery-powered smoke alarms, heat alarms or multi-sensor alarms	Monthly	Press test button

*The information stated within this brochure should be considered as guidance only, for further advice please refer to the BS 5839:6-2019 standard © THE BRITISH STANDARDS INSTITUTION 2019 – ALL RIGHTS RESERVED

