

# Commercial Buildings

# The Building Regulations

### **London Building Control**

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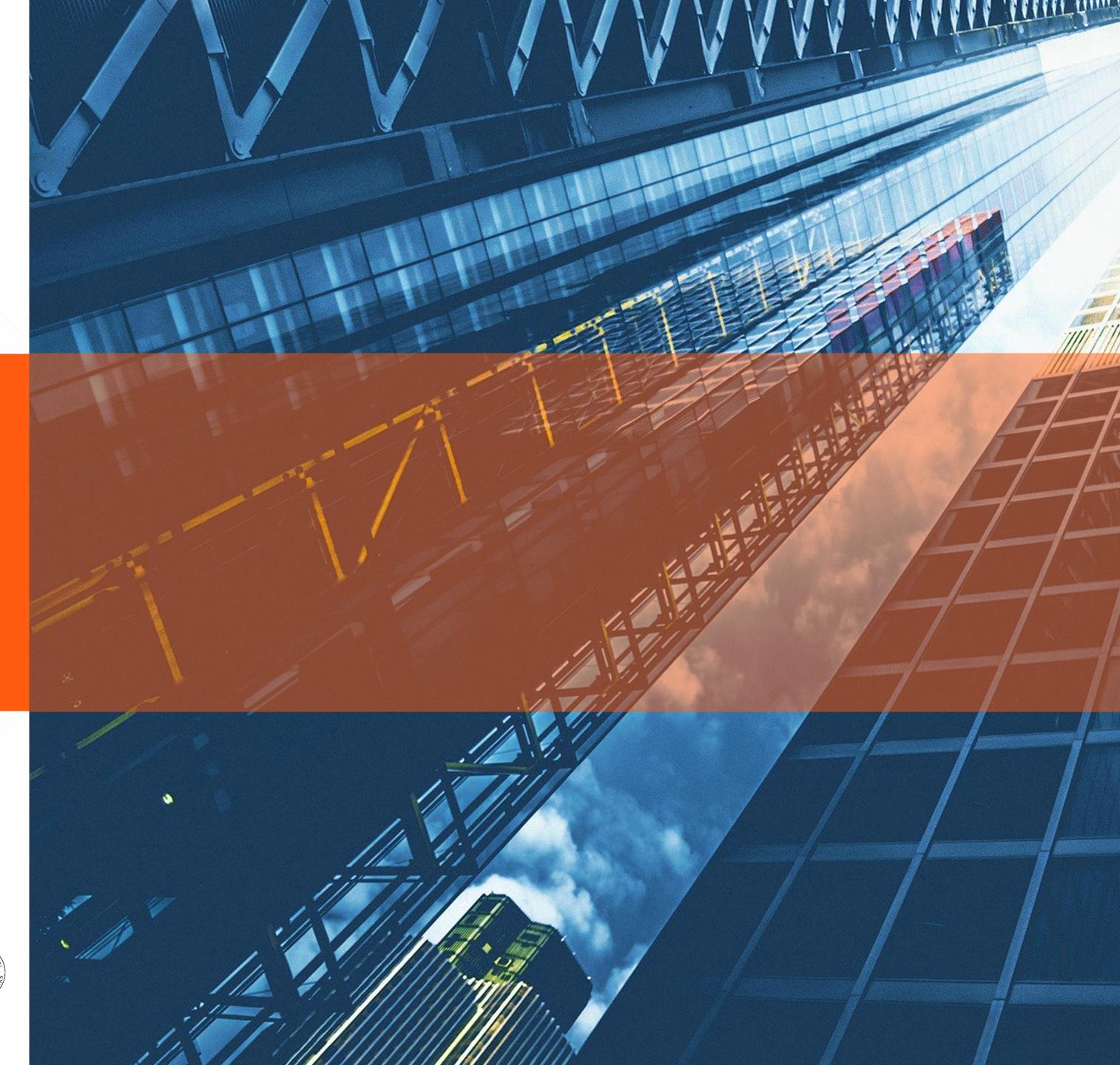
















Commercial Buildings

**Current requirement of The Building** Regulations 2010 (as amended)

MHCLG planned amendments

The use of CLT and timber facades

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Where you are making material alterations to a building, eg fitting out for a restaurant, we need to assess whether you are adversely affecting any relevant requirements, such as Part B (Fire Safety) and Part M (Access)









ISO9001 Certified



















In these instances, you are not required to meet the current guidance within the Approved Documents, ensuring that existing provisions are made any worse, eg extending travel distances, removing accessible WC facilities



























Fire Safety

**Approved Document B Volume 2** 

British Standard 9999: 2017

Fire Safety Engineering

The Fire Safety Bill

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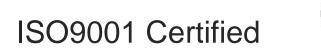
















## Fire Safety

The concept behind the development of 9999 and 7974 is that technical guidance on fire safety is now provided at three levels;

- a) General approach: Approved Document B
- b) Advanced approach: BS 9999: 2017
- c) Fire safety engineering: BS 7974: 2019

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Following Grenfell MHCLG have been consulting on changes to Fire Safety in dwellings

## **Building a Safer Future**

Independent Review of Building Regulations and Fire Safety: **Final Report** 

























Revised Approved Document B Volume 1 released 27th May 2020 with a coming into force date of 26<sup>th</sup> November 2020

Significant improvements for dwellings







ISO9001 Certified



















No changes for Commercial Buildings

Fire loss statistics in Commercial use

Material change of use

















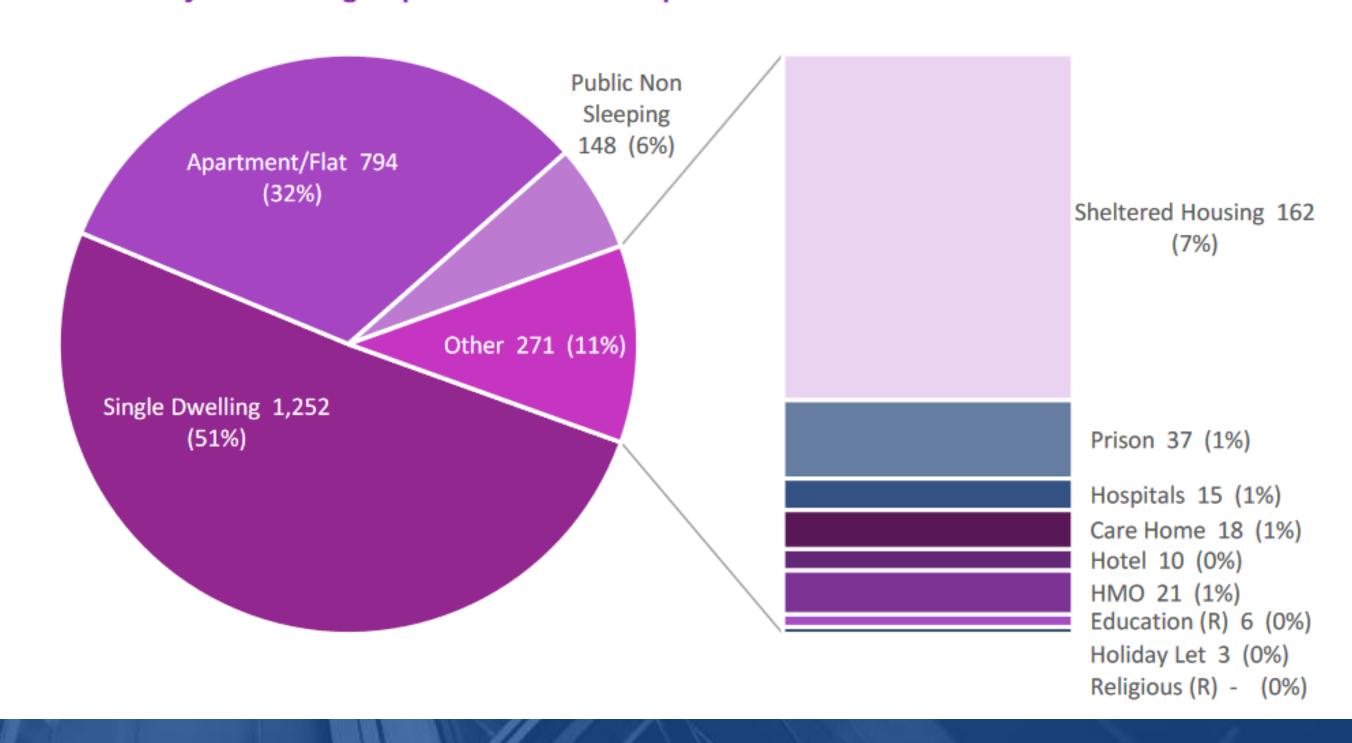








Chart 2: Fires involving a fatality or casualty requiring hospital treatment by property type for the combined years ending September 2012 to September 2018



























**Cross laminated Timber (CLT)** 

Regulation 7(2) restricts the materials in external facades to A2-s1, d0 or A1 for relevant buildings (residential) with a floor in excess of 18m above ground level



























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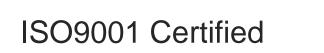








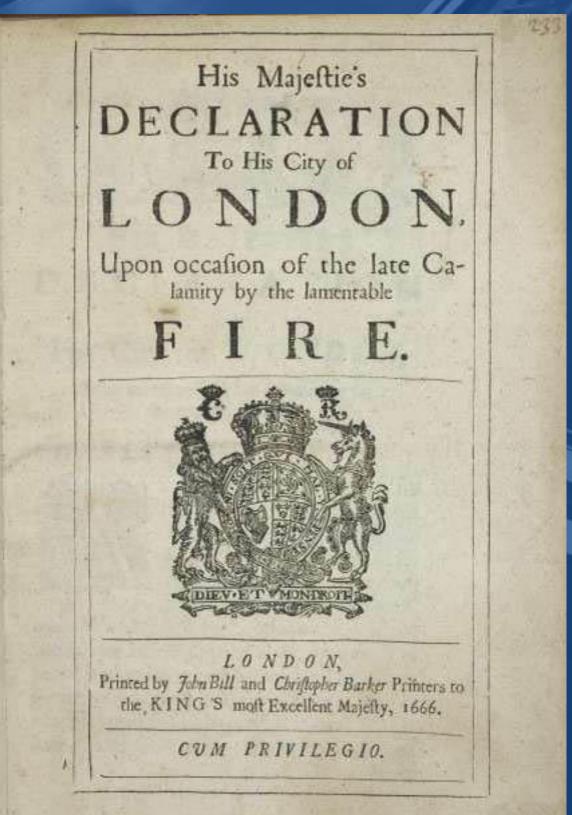








'Stable door' legislation



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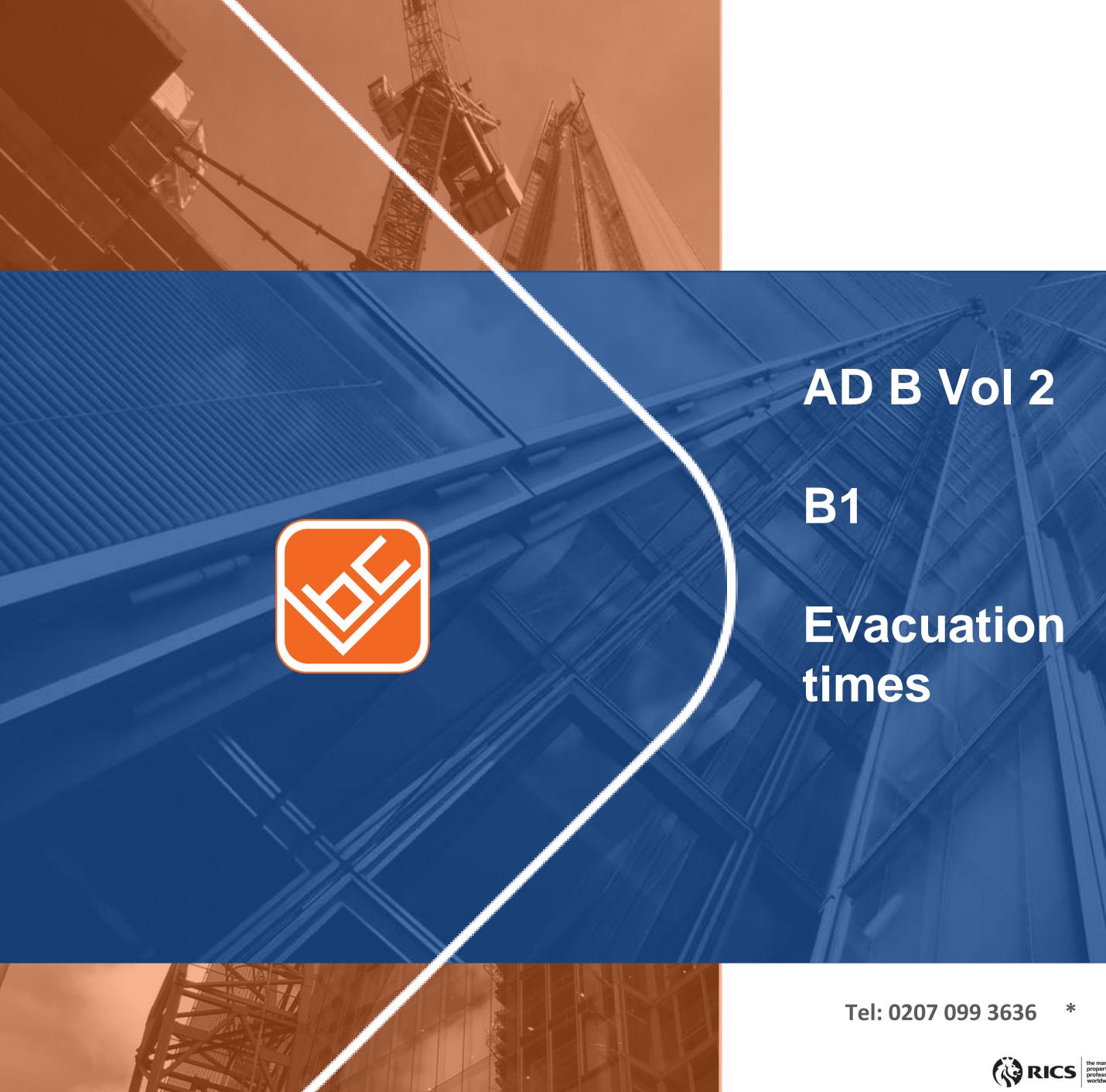












### Table 2 Limitations on travel distance

Maximum travel distance [1] where travel is possible in:

Purpose group	Use of the premises or part of the premises		One direction only (m)	More than one direction (m)
2(a)	Institutional		9	18
2(b)	Other residential:	(		
	a. in bedrooms 🕾	1000	9	18
	b. in bedroom corridors	er Com View	9	35 35
	c. elsewhere	0 1/03/	18	35
3	Office	N.	18	45
4	Shop and commercial (2)	8	1819	45
5	Assembly and recreation:			
	<ul> <li>a. buildings primarily for disabled people</li> </ul>		9	18
	b. areas with seating in rows		15	32
	c. elsewhere		18	45
6	Industrial (9)	-04-000 (CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-C	736.00	10024
		Normal Hazard	25	45
		Higher Hazard	12	25
7	Storage and other non-residential (9)		9109.00	
	89	Normal Hazard	25	45
		Higher Hazard	12	25
2-7	Place of special fire hazard 19		90	18 (7)
2-7	Plant room or rooftop plant:		- 13.11	340
Visit	a. distance within the room		9	35
	<ul> <li>b. escape route not in open air (overall travel of</li> </ul>	distance)	18	45
	<ul> <li>c. escape route in open air (overall travel dista</li> </ul>	nce)	60	100
Notes:		21125		

- 1. The dimensions in the Table are travel distances. If the internal layout of partitions, fittings, etc is not known when plans are deposited, direct distances may be used for assessment. The direct distance is taken as 2/3rds of the travel distance.
- Maximum part of travel distance within the room. (This limit applies within the bedroom (and any associated dressing room, bathroom or sitting room, etc) and is measured to the door to the protected corridor serving the room or suite. Sub-item (b) applies from that point along the bedroom corridor to a storey exit.)
- Maximum travel distances within shopping malls are given in BS 5588: Part 10. Guidance on associated smoke control measures is given in a BRE report Design methodologies for smoke and heat exhaust ventilation (BR 366).
- BS 5588; Part 10 applies more restrictive provisions to units with only one exit in covered shopping complexes.
- In industrial and storage buildings the appropriate travel distance depends on the level of fire hazard associated with the processes and materials being used. Higher hazard includes manufacturing, processing or storage of significant amounts of hazardous goods or materials, including: any compressed, liquefied or dissolved gas, any substance which becomes dangerous by interaction with either air or water, any liquid substance with a flash point below 65°C including whisky or other spirituous liquor, any corrosive substance, any oxidising agent, any substance liable to spontaneous combustion, any substance that changes or decomposes readily giving out heat when doing so, any combustible solid substance with a flash point less than 120° Celsius, any substance likely to spread fire by flowing from one part of a building to another.
- Places of special fire hazard are listed in the definitions in Appendix E.

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**B2** Internal fire spread (linings) Classification of linings to walls and ceilings Previously known as Class 0, 1 & 3 European class B-s3, d2, C-s3,d2, and D-s3,d2



























Fire Safety ADBVol2

**B3 Internal Fire Spread (Structure)** 

Structural Fire Resistance Separating walls Compartmentation Cavity barriers Fire Dampers

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Fire Safety ADB Vol 2

**B4 External Fire Spread** The ability of a building to prevent fire spread to adjacent buildings Unprotected areas Combustible materials Roof coverings

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**B5** Access for Fire Fighting Vehicle Access, Pump or High Reach appliance, depending on building height Fire fighting shafts Dry or wet rising mains



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Second tier of guidance Code compliant solutions



























Fire Safety BS 9999: 2017

Creating a Risk Profile

A1 least risk, through to C4, highest risk Occupancy characteristic (Table 2) Fire growth rate (Table 3) Risk profile (Table 4)

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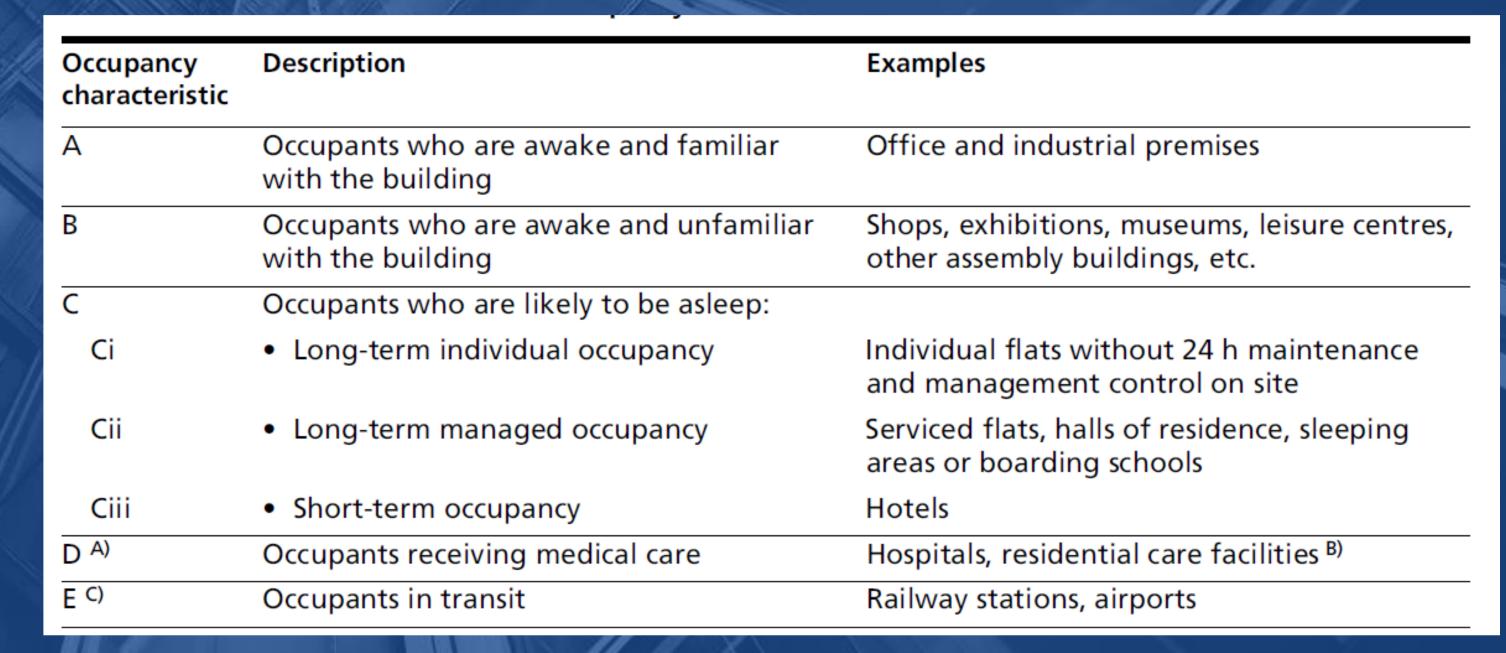














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Category	Fire growth rate	Examples	Fire growth parameter A) kJ/s <sup>3</sup>
1	Slow	Banking hall, limited combustible materials	0.002 9
2	Medium	Stacked cardboard boxes, wooden pallets	0.012
3	Fast	Baled thermoplastic chips, stacked plastic products, baled clothing	0.047
4	Ultra-fast	Flammable liquids, expanded cellular plastics and foam	0.188

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BS 9999 Table 4

## **Risk profiles**

Occupancy characteristic (from Table 2)		growth rate	Risk profile
	1	Slow	A1
A (O	2	Medium	A2
(Occupants who are awake and familiar with the building)	3	Fast	A3
rannan viitir tire bananig,	4	Ultra-fast	A4 <sup>A)</sup>
	1	Slow	B1
B Occupants who are awake and	2	Medium	B2
(Occupants who are awake and unfamiliar with the building)	3	Fast	B3
<b>3</b> ,	4	Ultra-fast	B4 <sup>A)</sup>
	1	Slow	C1 <sup>B)</sup>
C	2	Medium	C2 B)
(Occupants who are likely to be asleep)	3	Fast	C3 B), C)
20.00p)		Ultra-fast	C4 A), B)

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Table 5 E	Examples	of typical	risk	profiles
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Occupancy	Risk profile	Occupancy	Risk profile
Administration office	A2	Indoor games/training rooms in schools	B2
Amusement arcade	B2	Kitchen	A3
Archive/library reading area	B3	Licensed betting office (public area)	B1
Art gallery	B1/B2	Lobbies	B1
Assembly hall	B2	Lounge (other than dwelling)	B2
Banking hall	B1	Machine/printing room	A3
Bar	B2	Mechanical plant room	A4 A)
Bazaar	B2/B3	Meeting room	B2
Bedroom/study bedroom	Cii2	Museum	B2
Bed-sitting room	Cii2	Office (closed-plan or office less than 60 m <sup>2</sup> )	B2
Billiards or snooker room	B2	Office (open-plan exceeding 60 m²)	A2
Bingo hall	B2	Reading room	B2
Bowling alley	B2	Reception area	B1
Business centre	B2	Restaurant	B2

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Fire Safety BS 9999: 2017

Travel distances, and door widths, can be varied up to the limits in Tables 17 & 18, eg; Risk profile A1, 90m for two-way travel How can we achieve this?

Automatic fire detection Management Effect of ceiling heights

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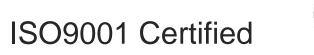
















Maximum travel distances when additional fire protection measures are provided

Risk profile	Maximum permissible travel distance			
	Two-way travel	One-way travel m		
A1	90	30		
A2	75	24		
A3	60	22		
A4 <sup>A)</sup>	Not applicable A)	Not applicable A)		
B1	90	28		
B2	75	24		
B3	60	20		
B4 <sup>A)</sup>	Not applicable A)	Not applicable A)		
C1	37	18		
C2	27	13		
C3 A)	18	9		
C4 A)	Not applicable A)	Not applicable A)		

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Fire safety Engineering

BS 7974:2019



Application of fire safety engineering principles to the design of buildings. Code of practice

bsi.

.making excellence a habit"

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Fire Safety Fire Safety Bill 2019-21

A Bill to make provision about the application of the Regulatory Reform (Fire Safety) Order 2005, is now being considered by a Public Bill Committee which is expected to report to the House by Thursday 25 June 2020

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Fire Safety Fire Safety Bill 2019-21

The Bill will also amend the primary legislation to The Building Regulations 2010 (The Building Act 1984) to introduce the Fire Safety Regulator role which will be the responsibility of the HSE

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## The Regulatory Reform (Fire Safety) Order 2005

The bill will amend the Order to clarify that the responsible person or duty-holder for multi-occupied, residential buildings must manage and reduce the risk of fire for the structure and external walls of the building, including cladding, balconies and windows, entrance doors to individual flats that open into common parts This clarification will empower fire and rescue services to take enforcement action and hold building owners to account if they are not compliant.

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Access and Use

Part M Volume 2

Originally introduce in 1985 as Access and Facilities for Disabled People

DDA/Equalities Act



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Access and Use

Part M Volume 2

**Sensory Impairments** 

Access to the building

**Access Strategies** 



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Part L2A

Revisions to L1 (Residential) in 2020 with L2 (Other than dwellings) to follow

Mis HM Government

The Building Regulations 2010

Conservation of fuel and power

APPROVED DOCUMENT

L2A Conservation of fuel and power in new buildings other than dwellings

2013 edition incorporating 2016 amendments - for use in England\*



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The UK has set in law in target to bring all its greenhouse gas emissions to net zero by 2050 - one of the most ambitious targets in the world. Homes – both new and existing – accounts for 20% of emissions. Despite progress reducing emissions from homes, we need to go much further. New homes being built now and in the next 5-10 years will still exist in 2050 and therefore we must ensure that the energy efficiency standards we set for them put us on track to meet the 2050 target.

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### Roadmap to the Future Homes Standard FHS Industry Industry task Part L 2020 task-force force interim established published report Part L 2020 Case-study on **Future Homes** homes built to comes into-Research Standard 2020 standards and force **Future Homes** for Future Homes Standard Implementation early FHS adopters implementation Standard consultation Initial consultation Technical **Future Homes** working Standard groups Developing evidence base for Implementation and established Further implementation consultation coming-into force consultation\* 2020 2019 2021 2022 2023 2025 2024 Indicative timeline \*Further consultation to incorporate work on: Work to existing buildings Overheating in new dwellings

















New non-domestic buildings





























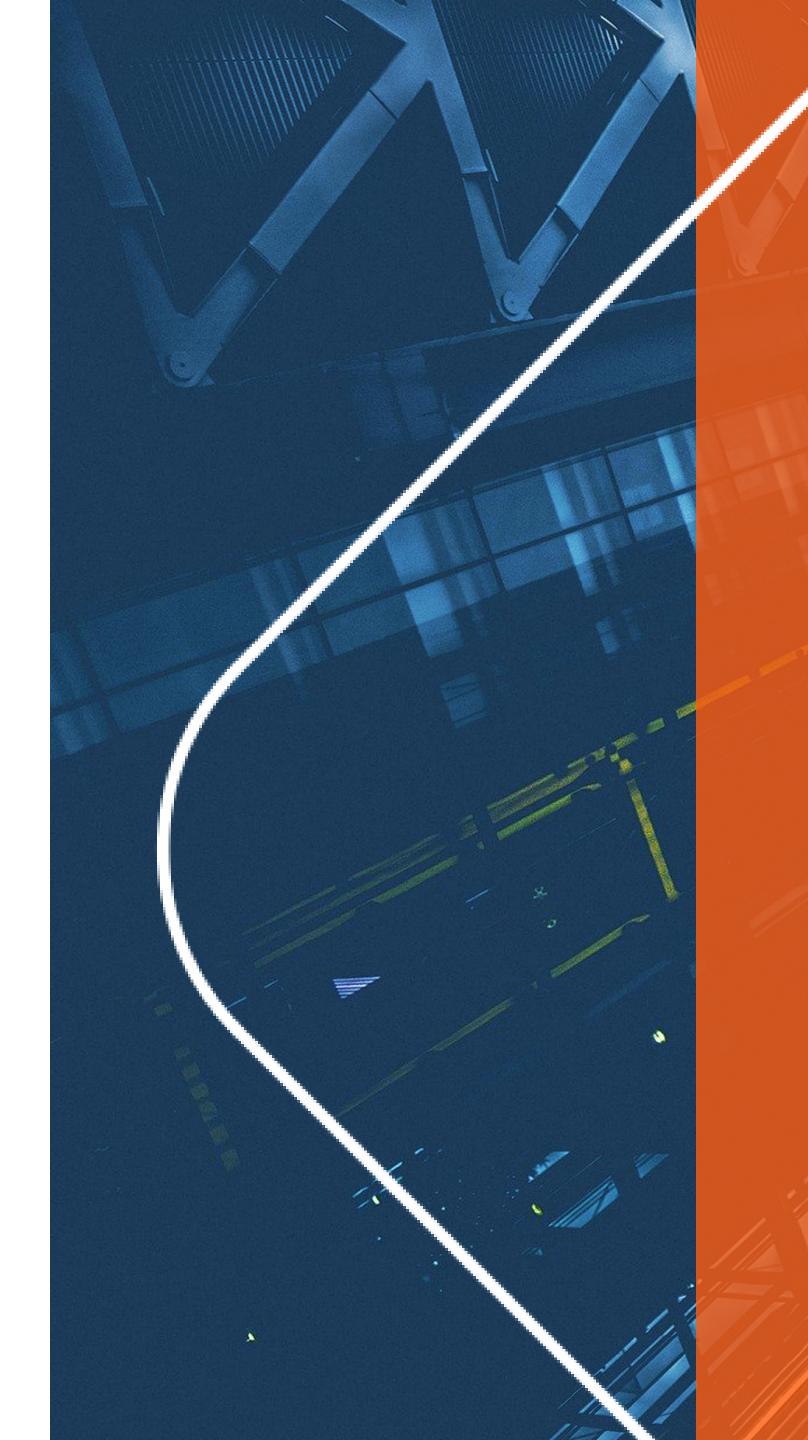














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