

**Grenfell Tower – fire safety investigation:**  
**The fire protection measures in place on the night of the fire, and conclusions as to:**  
**the extent to which they failed to control the spread of fire and smoke;**  
**the extent to which they contributed to the speed at which the fire spread.**

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**Phase 1 Report – Appendix B**

**Texts and published documents referred to**

**REPORT OF**

**Dr Barbara Lane FREng FRSE CEng**

**Fire Safety Engineering**

**24<sup>th</sup> October 2018**

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<b>Specialist Field</b>	:	Fire Safety Engineering
<b>Assisted by</b>	:	Dr Susan Deeny, Dr Peter Woodburn, Dr Graeme Flint, Mr Tom Parker, Ms Danielle Antonellis, Mr Alfie Chapman
<b>On behalf of</b>	:	Grenfell Tower Inquiry
<b>On instructions of</b>	:	Cathy Kennedy, Solicitor, Grenfell Tower Inquiry
<b>Subject Matter</b>	:	To examine the circumstances surrounding the fire at Grenfell Tower on 14 <sup>th</sup> June 2017
<b>Inspection Date(s)</b>	:	6 <sup>th</sup> October, 1 <sup>st</sup> November, 7-9 <sup>th</sup> November 2017

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## Appendix B– Texts and published documents referred to

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## B1 Purpose of this Appendix

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- B1.1.1** This Appendix B defines the published documents that I have referred to throughout my Expert report which includes Legislation (Appendix B2), Regulations (Appendix B3) and statutory and industry guidance (Appendix B4).
- B1.1.2** I have provided copies of all referenced documents to the Inquiry.

## B2 Published Documents - Legislation

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- B2.1.1** This section provides a full list of references for the applicable legislation that I have relied upon throughout my Expert Report.
- B2.1.2** **Building Act, 1984** – Chapter 55. An Act to Consolidate Certain Enactments Concerning Building and Buildings and Related Matters.
- B2.1.3** **Fire and Rescue Services Act, 2004** – Chapter 21. The Stationery Office 2004.
- B2.1.4** **Fire Precautions Act, 1971** – Chapter 40. Her Majesty's Stationery Office, 1971.
- B2.1.5** **Fire Services Act, 1947** – 10 & 11 Geo. 6. Chapter 41. Her Majesty's Stationery Office, 1947.
- B2.1.6** **Health and Safety at Work Act, 1974** – Chapter 37. Her Majesty's Stationery Office. 1974.
- B2.1.7** **Housing Act, 2004** – Chapter 34. Her Majesty's Stationery Office, 2004.
- B2.1.8** **London Buildings Acts (Amendment) Act, 1939** – 2 & 3 Geo. 6. Chapter 97. Her Majesty's Stationery Office, 1939.
- B2.1.9** **Public Health Act, 1936** - Her Majesty's Stationery Office, 1936
- B2.1.10** **Public Health Act, 1961** - Her Majesty's Stationery Office, 1961.
- B2.1.11** **The Regulatory Reform (Fire Safety) Order, 2005** – Her Majesty's Stationery Office, 2005.

## B3 Published Documents – Regulation

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- B3.1.1** This section provides a full list of references for the applicable regulation that I have relied upon throughout my Expert Report.

- B3.1.2    The Building (Approved Inspectors etc.) Regulations, 2010** – Building and Buildings, England and Wales. Made 6<sup>th</sup> September 2010. Came into force 1<sup>st</sup> October 2010.
- B3.1.3    The Building (Inner London) Regulations, 1985** – Building and Buildings. Made 10<sup>th</sup> December 1985. Came into force 6<sup>th</sup> January 1986.
- B3.1.4    The Building Regulations &c. (Amendment) Regulations, 2015** – Building and Buildings, England and Wales. Made 26<sup>th</sup> March 2015. Came into Force 27<sup>th</sup> March 2015.
- B3.1.5    The Building Regulations 1965** - Building and Buildings, Made 6th July 1965, Coming into operation 1st February 1966
- B3.1.6    The Building Regulations, 1972** - Building and Buildings, Made 29th February 1972. Came into operation 1st June 1972.
- B3.1.7    The Building Regulations 1985** - Building and Buildings, Made 11th July 1985, Coming into operation 11th November 1985
- B3.1.8    The Building Regulations 2000** - Building and Buildings England and Wales, Made 13th September 2000. Came into force 1st January 2001.
- B3.1.9    The Building Regulations, 2010** – Building and Buildings, England and Wales. Made 6<sup>th</sup> September 2010. Came into Force 1<sup>st</sup> October 2010.
- B3.1.10    CDM 2007 - The Construction (Design and Management) Regulations, 2007.** Made 7<sup>th</sup> February 2007. Came into force 6<sup>th</sup> 2007.
- B3.1.11    CDM 2015 - The Construction (Design and Management) Regulations, 2015.** Made 22<sup>nd</sup> January 2015. Came into force 6<sup>th</sup> April 2015.
- B3.1.12    Construction Products Regulation 305/2011** - European Commission, 2011
- B3.1.13    The Fire Precautions (Workplace) Regulations 1997** - Fire Precautions, Health and Safety, made 28th July 1997, Coming into force 1st December 1997.
- B3.1.14    The Gas Safety (Installation and Use) Regulations, 1998** – Her Majesty’s Stationery Office, October 1998.
- B3.1.15    The Health and Safety (Safety Signs and Signals) Regulations 1996** - Health and Safety, Made 18th February 1996, Coming into force 1st April 1996.
- B3.1.16    The Housing Health and Safety Rating System (England) Regulations, 2005** – Her Majesty’s Stationery Office, 2005.
- B3.1.17    London Building Constructional By-laws 1952** - Greater London Council, 1952.



**B3.1.18 London Building (Constructional) Amending By-laws (No.1) 1964 –**  
London County Council, 1965.

**B3.1.19 The Pipelines Safety Regulations, 1996.**

## **B4 Published Documents – Guidance and standards**

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**B4.1.1** This section provides a full list of references for the applicable design guidance and industry standards that I have relied upon throughout my Expert Report.

**B4.1.2 AD7 1992** - Approved Document 7 Materials and workmanship, 1992 edition incorporating 2000 amendments, Office of the Deputy Prime Minister, 2000.

**B4.1.3 ADB 1985** – Approved Document B, B2/3/4 Fire spread, HMSO, 1985.

**B4.1.4 ADB 1992** – Approved Document B, Fire safety (amended 1992), HMSO, Building Regulations 1991.

**B4.1.5 ADB 2000** – Approved Document B, Fire Safety (2002 amended), Department of Communities and Local Government, 2002.

**B4.1.6 ADB 2006** – Approved Document B, Fire Safety (2006 edition), Department of Communities and Local Government, 2006.

**B4.1.7 ADB 2007** – Approved Document B, Fire Safety (2006 edition, Amended 2007), Department of Communities and Local Government, 2007.

**B4.1.8 ADB 2010** – Approved Document B, Fire Safety (incorporating 2007 and 2010 amendments), Department of Communities and Local Government, 2010.

**B4.1.9 ADB 2013** – Approved Document B, Fire Safety (incorporating 2007, 2010, and 2013 amendments), Department of Communities and Local Government, 2013.

**B4.1.10 ADK 2013** – Approved Document K, Protection from falling, collision and impact, HM Government, 2013.

**B4.1.11 ADM 2015** - Approved Document M, Access to and Use of Buildings, Volume 2: Buildings Other than Dwellings, HM Government, 2015.

**B4.1.12 The Ageing Performance of Intumescent Seals, Information Sheet 4 -**  
Intumescent Fire Seals Association, 2014.

**B4.1.13 ASFP Technical Guidance Document 8** – Code of practice for junctions between different fire protection systems when applied to load bearing structural steel elements, Technical Guidance Document 8, ASFP, 18<sup>th</sup> March 2010

- B4.1.14 ASFP Technical Guidance Document 19** – Fire Resistance Test for ‘Open-State’ Cavity Barriers used in the external envelope or fabric of buildings, ASFP, November 2017
- B4.1.15 BBA Certificate 06/4355** (January 2014) – Marley Eternit façade panels – Equitone [Natura], Marley Eternit Ltd.
- B4.1.16 BBA Certificate 17/5405** (March 2017) – Celotex Insulation – Celotex range of PIR insulation boards for dry lining, Saint-Gobain construction Products UK Ltd, trading as Celotex.
- B4.1.17 BBA Certificate 95/3126** (4<sup>th</sup> Issue) – Kingspan insulation board – Kingspan Thermapitch TP10, Kingspan Insulation Ltd.
- B4.1.18 BR 135** – Fire performance of external thermal insulation for walls of multi-storey buildings, third edition, Building Research Establishment, 2013.
- B4.1.19 BRE Digest 155** - Timber fire doors, Building Research Establishment, 1973.
- B4.1.20 BRE Digest 220** - Timber fire doors, Building Research Establishment, 1978.
- B4.1.21 BS 459-3:1951** - Fire-Check Flush Doors and Frames, 1951.
- B4.1.22 BS 476-1:1953** – Fire tests on building materials and structures, Part 1, British Standards Institution, 1953.
- B4.1.23 BS 476-4:1970** – Fire tests on building materials and structures, Part 4: Non combustibility test for materials, British Standards Institution, 1997.
- B4.1.24 BS 476-6:1989** – Fire tests on building materials and structures, Part 6: Method of test for fire propagation of products, British Standards Institution, 1997.
- B4.1.25 BS 476-6:1989+A1:2009 - Fire tests on building materials and structures** – Part 6: Method of test for fire propagation for products, British Standards Institution, 2009.
- B4.1.26 BS 476-7:1997** – Fire tests on building materials and structures, Part 7: Method of test to determine the classification of the surface spread of flame of products, British Standards Institution, 1997.
- B4.1.27 BS 476-8:1972** - Fire tests on building materials and structures. Test methods and criteria for the fire resistance of elements of building construction, British Standards Institution, 1972.
- B4.1.28 BS 476-10:2009** – Fire tests on building materials and structures, Part 10: Guide to the principles, selection, role and application of fire testing and their outputs, British Standards Institution, 2009.



- B4.1.29 BS 476-11:1982** – Fire tests on building materials and structures, Part 11: Method for assessing the heat emission from building materials, British Standards Institution, 1982.
- B4.1.30 BS 476-20:1987** – Fire tests on building materials and structures, Part 20: Method for determination of the fire resistance of elements of construction, British Standards Institution, 1987.
- B4.1.31 BS 476-21:1987** – Fire tests on building materials and structures, Part 21: Method for determination of the fire resistance of loadbearing elements of construction, British Standards Institution, 1987.
- B4.1.32 BS 476-22:1987** – Fire tests on building materials and structures, Part 22: Method of determination of the fire resistance of non-loadbearing elements of construction, British Standard Institution, 1987.
- B4.1.33 BS 476-31.1:1983** - Fire tests on building materials and structures. Methods for measuring smoke penetration through doorsets and shutter assemblies. Method of measurement under ambient temperature conditions, British Standards Institution, 1983.
- B4.1.34 BS 4422:2005** – Fire Vocabulary, British Standard Institution, 2005.
- B4.1.35 BS 5266-1:2005** – Emergency lighting, Part 1: Code of practice for the emergency lighting of premises, British Standard Institute, 2005.
- B4.1.36 BS 5266-1:2011** – Emergency lighting, Part 1: Code of practice for the emergency escape lighting of premises, British Standards Institute, 2011.
- B4.1.37 BS 5446-2:2003** – Fire detection and fire alarm devices for dwellings, Part 2: Specification for heat alarms, British Standards Institute, 2003.
- B4.1.38 BS 5499-1:2002** – Graphical symbols and signs – Safety signs, including fire safety signs, Part 1: Specification for geometric shapes, colours and layout, British Standards Institute, 2002.
- B4.1.39 BS 5499-5:2002** – Graphical symbols and signs – Safety signs, including fire safety signs, Part 5: Signs with specific safety meanings, British Standards Institute, 2002.
- B4.1.40 BS 5588-1:1990** – Fire precautions in the design, construction and use of buildings, Part 1: Code of practice for residential buildings, British Standards Institute, 1990.
- B4.1.41 BS 5588-4:1998** - Fire precautions in the design, construction and use of buildings. Code of practice for smoke control using pressure differentials, British Standards Institution, 1998
- B4.1.42 BS 5588-5:2004** – Fire precautions in the design, construction and use of buildings, Part 5: Access and facilities for fire-fighting, British Standards Institute, 2004.



- B4.1.43 BS 5655-1:1986** - Lifts and service lifts. Safety rules for the construction and installation of electric lifts, British Standards Institution, 1986
- B4.1.44 BS 5839-6:2004** – Fire Detection and Fire Alarm Systems for Buildings. Code of Practice for the Design, Installation and Maintenance of Fire Detection and Fire Alarm Systems in Dwellings, British Standards Institute, 2004.
- B4.1.45 BS 6100-6:2008** – Building and civil engineering – Vocabulary, Part 6: Construction parts, British Standards Institute, 2008.
- B4.1.46 BS 7346-8:2013** - Components for smoke control systems. Code of practice for planning, design, installation, commissioning and maintenance, British Standards Institution, 2013
- B4.1.47 BS 8213-4:2007** – Windows, doors and rooflights, Part 4: Code of practice for the survey and installation of windows and external doorsets, British Standards Institute, 2007.
- B4.1.48 BS 8214:2016** - Timber-based fire door assemblies – Code of practice, British Standards Institution, 2016.
- B4.1.49 BS 8298-1:2010** – Code of practice for the design and installation of natural stone cladding, Part 1: General, British Standards Institute, 2010.
- B4.1.50 BS 8298-4:2010** – Code of practice for the design and installation of natural stone cladding, Part 4: Rainscreen and stone on metal frame cladding system, British Standards Institute, 2010.
- B4.1.51 BS 8414-1:2002** – Fire performance of external cladding systems, Part 1: Test method for non-loadbearing external cladding systems applied to the face of the building, British Standards Institute, 2002.
- B4.1.52 BS 8414-1:2015** – Fire performance of external cladding systems, Part 1: Test method for non-loadbearing external cladding systems applied to the masonry face of a building, British Standards Institute, 2015.
- B4.1.53 BS 8414-2:2005** – Fire performance of external cladding systems, Part 1: Test method for non-loadbearing external cladding systems fixed to and supported by a structural steel frame, British Standards Institute, 2015.
- B4.1.54 BS 9251:2005** – Sprinkler systems for residential and domestic occupancies – Code of practice, British Standards Institute, 2005.
- B4.1.55 BS 9990:2006** – Code of practice for non-automatic fire-fighting systems in buildings, British Standards Institute, 2006.
- B4.1.56 BS 9991:2011** – Fire safety in the design, management and use of residential buildings – Code of practice, British Standards Institute, 2011.

- B4.1.57 BS 9991:2015** – Fire safety in the design, management and use of residential buildings – Code of practice, British Standards Institute, 2015.
- B4.1.58 BS 9999:2008** – Code of practice for fire safety in the design, management and use of buildings, British Standards Institute, 2008.
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- B4.1.60 BS EN 81-72:2003** – Safety rules for the construction and installation of lifts – Particular applications for passenger and goods passenger lifts, Part 72: Firefighters lifts, British Standard Institution.
- B4.1.61 BS EN 81-73:2005** - Safety rules for the construction and installation of lifts. Particular applications for passenger and goods passenger lifts. Behaviour of lifts in the event of fire, British Standards Institution, 2005
- B4.1.62 BS EN 1363-1:2012** - Fire resistance tests Part 1: General Requirements, British Standards Institution, 2012.
- B4.1.63 BS EN 1366-2:1999** - Fire resistance tests for service installations. Fire dampers, British Standards Institution, 1999.
- B4.1.64 BS EN 1366-4:2006** – Fire resistance tests for service installations, Part 4: Linear joint seals, British Standards Institute, 2006+A1:2010.
- B4.1.65 BS EN 1366-10:2011** - Fire resistance tests for service installations. Smoke control dampers, British Standards Institution, 2011.
- B4.1.66 BS EN 1634-1:2008** - Fire resistance and smoke control tests for door, shutter and, openable window assemblies and elements of building hardware. Fire resistance tests for doors, shutters and openable windows, British Standards Institution, 2008
- B4.1.67 BS EN 1634-1:2014** - Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware Part 1: Fire resistance test for door and shutter assemblies and openable windows, British Standards Institution, 2014.
- B4.1.68 BS EN 1634-3:2004** - Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware. Smoke control test for door and shutter assemblies, British Standards Institution, 2004
- B4.1.69 BS EN 1992-1-2:2004** – Design of concrete structures, Part 1-2: General rules – Structural fire design, British Standards Institute, 2004.
- B4.1.70 BS EN 12101-6:2005** – Smoke and heat control systems, Part 6: Specification for pressure differential systems – Kits, British Standards Institute, 2005.



- B4.1.71 BS EN 12101-8:2011** – Smoke and heat control systems. Smoke control dampers, British Standards Institution, 2011.
- B4.1.72 BS EN 12519:2018** - Windows and pedestrian doors - Terminology, British Standards Institution, 2018.
- B4.1.73 BS EN 13501-1:2002** - Fire classification of construction products and building elements. Classification using test data from reaction to fire tests, British Standards Institution, 2002.
- B4.1.74 BS EN 13501-1:2007** – Fire classification of construction products and building elements, Part 1: Classification using data from reaction to fire tests, British Standards Institute, 2007.
- B4.1.75 BS EN 13501-2:2016** – Fire classification of construction products and building elements, Part 2: Classification using data from reaction to fire tests, excluding ventilation services, British Standards Institute, 2016.
- B4.1.76 BS EN 13501-3:2005** - Fire classification of construction products and building elements. Classification using data from fire resistance tests on products and elements used in building service installations: fire resisting ducts and fire dampers, British Standards Institution, 2006.
- B4.1.77 BS EN 13501-4:2007** - Fire classification of construction products and building elements. Classification using data from fire resistance tests on components of smoke control systems, British Standards Institution, 2007.
- B4.1.78 BS EN 13823:2010** – Reaction to fire tests for building products — Building products excluding floorings exposed to the thermal attack by a single burning item, British Standards Institute, 2010+A1:2014.
- B4.1.79 BS EN 14604:2005** – Smoke Alarm Devices, British Standards Institute, 2005.
- B4.1.80 BS EN 15269-3:2013** – Extended application of test results for fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware. Fire resistance of hinged and pivoted timber doorsets and openable timber framed windows, British Standards Institute, 2013.
- B4.1.81 BS EN 15725:2010** – Extended application reports on the fire performance of construction products and building elements, British Standards Institute, 2010.
- B4.1.82 BS EN 50200:2006** – Method of Test for Resistance to Fire of Unprotected Small Cables for Use in Emergency Circuits, British Standards Institute, 2006
- B4.1.83 BS EN ISO 1182:2010** – Reaction to Fire Tests for Products. Non-combustibility Test, British Standards Institute, 2010.



- B4.1.84 BS EN ISO 1716:2010** – Reaction to fire tests for products – determination of the gross heat of combustion (calorific value), British Standards Institute, 2010.
- B4.1.85 BS EN ISO 11925-2:2010** – Reaction to fire tests – Ignitability of products subjected to direct impingement of flame, Part 2: Single-flame source test, British Standards Institute, 2010.
- B4.1.86 BS ISO 6707-1:2014** – Buildings and Civil Engineering works – Vocabulary, Part 1- General Terms, British Standards Institute, 2014.
- B4.1.87 The Building Regulations 1985: Mandatory rules for means of escape in case of fire** - Her Majesty's Stationery Office, 1985
- B4.1.88 CFOA Enforcers Guidance 2015** – Chief Fire Officers Association, Collected Perceived Insights into the Application of The Regulatory Reform (Fire Safety) Order 2005 For the Benefit of Enforcing Authorities, 2015 Revision.
- B4.1.89 CIBSE Guide E** – Fire safety engineering, Third Edition, The Chartered Institution of Building Services Engineers London, May 2010.
- B4.1.90 Code of Practice for buildings of Excess Height and/or Additional Cubical Extent requiring approval under Section 20 of the London Building Acts (Amendment) Act 1939**, Greater London Council, 1970
- B4.1.91 CP3-1962** – British Standard Code of Practice, Chapter IV Precautions Against Fire, Part 1: Fire precautions in flats and maisonettes over 80 ft in height. The council for codes of practice, British Standard Institution, 1962.
- B4.1.92 CP3-1971** – British Standard Code of Practice, Chapter IV Precautions Against Fire, Part 1: Flats (in blocks over two storeys). The council for codes of practice, British Standard Institution, 1971.
- B4.1.93 CWCT Technical Note 77** – Assessment and certification of rainscreen systems, Centre for Window and Cladding Technology, 2012.
- B4.1.94 DCLG Fire Safety Risk Assessment** – Sleeping Accommodation, The Stationery Office, 2006.
- B4.1.95 DCLG Regulatory Reform (Fire Safety) Order 2005** – Guidance Note No.1: Enforcement, Department for Communities and Local Government: London, 2007.
- B4.1.96 DD 252:2002** – Components for Residential Sprinkler Systems. Specification and Test Methods for Residential Sprinklers, British Standards Institute, 2002.
- B4.1.97 Doors as Barriers to Fire and Smoke** - U.S Department of Commerce, National Bureau of Standards, 1966.

- B4.1.98 Emergency Call Management Circular 2004** – Fire and Rescue Service Circular 54-2004, IRMP Guidance Note 10, Emergency Call Management, Office of the Deputy Prime Minister, December 2004.
- B4.1.99 European commission decision 96/603/EC** – Establishing the list of product belonging to Classes A ‘No contribution to fire’ provided for in Decision 94/611/EC implementing Article 20 of Council Directive 89/106/EEC on construction products, Official Journal of the European Communities, October 1996.
- B4.1.100 Fire and Rescue Manual: Volume 2** – Fire service operations - Incident command, 3<sup>rd</sup> edition, 2008.
- B4.1.101 Fire control personnel training** – Emergency Call Handling Techniques, Fire Survival Guidance, The Home Office, 1994.
- B4.1.102 Fire Research Note 855** - An Investigation into the Fire Resistance of Timber Fire Doors W. A Morris, 1971.
- B4.1.103 Fire service National Operational Guidance** – Major incidents section, <https://www.ukfrs.com/guidance/major-incidents>, first published March 2018.
- B4.1.104 FOIA909.1 Part1 LFB Response** – Freedom of Information request reference number: FOIA909.1 Part 1, London Fire Brigade Response, London Fire Brigade, 18 March 2011.
- B4.1.105 GRA 3.2 Fighting fires** - In high rise buildings – Fire and Rescue Authorities Operational Guidance, Department for Communities and Local Government, 2014.
- B4.1.106 Guidance on Smoke Control to Common Escape Routes in Apartment Buildings (Flats and Maisonettes), Revision 2** - Smoke Control Association, 2015.
- B4.1.107 Housing Health and Safety Rating System, Enforcement Guidance** – Office of the Deputy Prime Minister, 2006.
- B4.1.108 Housing Health and Safety Rating System, Guidance for Landlords and Property Related Professionals** – Office of the Deputy Prime Minister, 2006.
- B4.1.109 Housing Health and Safety Rating System, Operating Guidance** – Office of the Deputy Prime Minister, 2006.
- B4.1.110 The Ignition Handbook** – Vytenis Babrauskas, Fire Science Publishers, 2003 Chapter 15 Table 15.
- B4.1.111 ISO/IEC 17065:2012** - Conformity assessment - Requirements for bodies certifying products, processes and services, International Organization for Standardization, 2012.



- B4.1.112 LGA Guide: Fire Safety in Purpose-Built Blocks of Flats** – Local Government Association, 2011.
- B4.1.113 Mandatory Rules for Means of Escape in Case of Fire** – Her Majesty's Stationery Office, 1985.
- B4.1.114 Manual of Firemanship, Book 12** – Practical Firemanship II, Home Office (Fire Department), 1983.
- B4.1.115 Means of Escape in Case of Fire** – Greater London Council, 1967.
- B4.1.116 Means of Escape in Case of Fire: Code of Practice** - Greater London Council, 1974.
- B4.1.117 Metric Handbook** – Planning and design data, 3<sup>rd</sup> edition, Architectural Press, 2008 (Excerpts).
- B4.1.118 National Building Studies Technical Paper No.6** - Investigations on Building Fires Part IV Fire Resistance of Timber doors Webster and Ashton, 1951.
- B4.1.119 NFPA 5000, Building Construction and Safety Code** – National Fire Protection Association, 2017.
- B4.1.120 NHBC Standards 2007** - National House Building Council, 2007
- B4.1.121 PD 7974-0:2002** – Application of Fire Safety Engineering Principles to the Design of Buildings – Part 0: Guide to design framework and fire safety engineering procedures, British Standards Institute, 2003.
- B4.1.122 PD 7974-1:2003** – Application of Fire Safety Engineering Principles to the Design of Buildings – Part 1: Initiation and Development of Fire Within the Enclosure of Origin (Sub-system 1), British Standards Institute, 2003.
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- B4.1.124 Protocol Between Local Housing Authorities and Fire and Rescue Authorities to Improve Fire Safety** – Chartered Institute of Environmental Health, 2007.
- B4.1.125 Review of Housing Protocol** - FEP 2350, London Fire and Emergency Planning Authority, 2014
- B4.1.126 The Role of Intumescent Materials in the Design and Manufacture of Timber based Fire Resisting Doorsets, Information Sheet No. 1** - Intumescent Fire Seals Association, 2012.



- B4.1.127 Safety signs and signals Guidance on Regulations - Health and Safety Executive, Third Edition, 2015**
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- B4.1.129 Stec and Hull 2011–** Stec, A. & Hull, T.R., *Assessment of the fire toxicity of building insulation materials*, Journal of Energy and Buildings, 43 (2-3), pp. 498-506 (2011)
- B4.1.130 TRADA Performance of Fire-resisting Timber-based Doorsets – WIS 1-13, TRADA, April 2017.**
- B4.1.131 West Midlands Major Incident Plan – West Midlands Police, 2008**
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