

Schedule

Element Testing Services (S) Pte Ltd
249 Jalan Boon Lay
Singapore 619523

Certificate No : PD-2010-12
Issue No : 13
Date : 28 November 2023
Expiry of Certificate : 27 November 2026
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The accreditation covers the following scope:

- ISO/IEC Type 1b Certification scheme consisting of type test of a product representative of production and subsequent batch inspection
- ISO/IEC Type 2 Certification scheme consisting of type test and market surveillance
- ISO/IEC Type 5 Certification scheme consisting of type test of a sample representative of production, inspection of factory quality management system and routine surveillance of the management system and samples of the product

S/N	Product Description	Test Standard Number	Test Standard Description	Type
1	Raised Floor Panel	BS 476 Part 4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	2
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	
2	Composite Panel (Cladding to External Wall)	BS 476 Part 4:1970	Fire tests on building materials and structures. Method of test for fire propagation for products.	5 or 2

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test to determine the classification of the surface spread of flame of products.	
		BS 476 Part 6:1989 + A1:2009	Fire tests on building materials and structures. Method of test for fire propagation for products.	
		BS 476 Part 7:1997	Fire tests on building materials and structures. Method of test to determine the classification of the surface spread of flame of products.	
		NFPA 285:2023	Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	
3	Fire Retardant Solution /Paint	BS 476 Part 6:1989 + A1:2009	Fire tests on building materials and structures. Method of test for fire propagation for products.	2
		BS 476 Part 7:1997	Fire tests on building materials and structures. Method of test to determine the classification of the surface spread of flame of products	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
4	Air Distribution Duct / Ducting	BS 476 Part 4:1970	Fire tests on building materials and structures. Method of test for fire propagation for products.	2
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test to determine the classification of the surface spread of flame of products.	
		BS 476 Part 6:1989 + A1:2009	Fire tests on building materials and structures. Method of test for fire propagation for products.	
		BS 476 Part 7:1997	Fire tests on building materials and structures. Method of test to determine the classification of the surface spread of flame of products	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	
5	Thermal Insulation Material	BS 476 Part 4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	2
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		BS 476 Part 6:1989 + A1:2009	Fire tests on building materials and structures. Method of test for fire propagation for products.	
		BS 476 Part 7:1997	Fire tests on building materials and structures. Method of test to determine the classification of the surface spread of flame of products.	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	
		BS EN 45545-2:2013 + A1:2015	Railway applications – Fire Protection on railway vehicles	
		BS EN 45545-2:2020	Part 2: Requirements for fire behaviour of materials and components	
6	Finishing Material for Wall/Ceiling	BS 476 Part 4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	2
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		BS 476 Part 6:1989 + A1:2009	Fire tests on building materials and structures. Method of test for fire propagation for products.	
		BS 476 Part 7:1997	Fire tests on building materials and structures. Method of test to determine the classification of the surface spread of flame of products.	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	
		BS EN 45545-2:2013 + A1:2015	Railway applications – Fire Protection on railway vehicles	
		BS EN 45545-2:2020	Part 2: Requirements for fire behaviour of materials and components	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
7	Material for Wall/Ceiling/Floor Construction	BS 476 Part 4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	2
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		BS 476 Part 6:1989 + A1:2009	Fire tests on building materials and structures. Method of test for fire propagation for products.	
		BS 476 Part 7:1997	Fire tests on building materials and structures. Method of test to determine the classification of the surface spread of flame of products.	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	
		BS EN 45545-2:2013 + A1:2015 BS EN 45545-2:2020	Railway applications – Fire Protection on railway vehicles Part 2: Requirements for fire behaviour of materials and components	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
8	Roof Covering Material (Non Fire Rated) or Roof Covering Material (Fire Rated)	BS 476 Part 4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	2
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		BS 476 Part 6:1989 + A1:2009	Fire tests on building materials and structures. Method of test for fire propagation for products.	
		BS 476 Part 7:1997	Fire tests on building materials and structures. Method of test to determine the classification of the surface spread of flame of products.	
		ASTM E108 - 20 ASTM E108 - 20a	Standard test methods for fire tests of roof coverings	
		UL 790	Standard test methods for fire tests of roof coverings	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	
		EN 13501-5:2016	Fire classification of construction products and building elements - Part 5: Classification using data from external fire exposure to roofs tests	
		BS EN 45545-2:2013 + A1:2015 BS EN 45545-2:2020	Railway applications – Fire Protection on railway vehicles Part 2: Requirements for fire behaviour of materials and components	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
		EN 1364-2:2018	Fire resistance test for non- loadbearing elements- Part 2: Ceilings	
		AS 1530.4:2014	Methods of fire tests on building materials, components, and structures Part 4: Fire resistance test of elements of construction	
9	Roofing for Link way	BS 476 Part 4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	2
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		BS 476 Part 6:1989 + A1:2009	Fire tests on building materials and structures. Method of test for fire propagation for products.	
		BS 476 Part 7:1997	Fire tests on building materials and structures. Method of test to determine the classification of the surface spread of flame of products.	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	
10	Smoke Curtain Fabric	BS 476 Part 4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	2
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		BS 476 Part 6:1989 + A1:2009	Fire tests on building materials and structures. Method of test for fire propagation for products.	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
		BS 476 Part 7:1997	Fire tests on building materials and structures. Method of test to determine the classification of the surface spread of flame of products.	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	
11	uPVC Window Frame Material	ASTM D635 - 22	Standard test method for rate of burning and/or extent and time of burning of plastics in a horizontal position.	2
12	Fire Rated Board System	BS 476 Part 4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	2
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	
13	Fire Rated Spraying Material	BS 476 Part 4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	2
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
14	Fire Rated Partition (Compartment Wall)	BS 476 Part 4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	5
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		BS 476 Part 6:1989 + A1:2009	Fire tests on building materials and structures. Method of test for fire propagation for products.	
		BS 476 Part 7:1997	Fire tests on building materials and structures. Method of test to determine the classification of the surface spread of flame of products.	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	
		BS 476 Part 22:1987	Fire tests on building materials and structures. Methods for determination of the fire resistance of non-load bearing elements of construction.	
		AS 1530 Part 4:2005 AS 1530.4:2014	Methods of fire tests on building materials, components and structures Part 4: Fire resistance test of elements of construction.	
		ASTM E119 - 22	Standard Tests methods for fire tests of building construction and materials.	
		ISO 834:2003	Fire resistance tests – Elements of building construction.	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
		NFPA 251:2006	Standard method of test of fire resistance of building construction and material.	
		EN 1364-1:2015	Fire resistance test for non- loadbearing element – Walls.	
		EN 1365-1:1999	Fire resistance test for loadbearing element – Walls.	
		EN 1365-1:2012		
15	Fire Rated Partition (Protected shaft enclosing lift)	BS 476 Part 4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	5
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	
		BS 476 Part 20:1987	Fire tests on building materials and structures. Methods for determination of the fire resistance of non-load bearing elements of construction.	
		AS 1530 Part 4:2005 AS 1530.4:2014	Methods of fire tests on building materials, components and structures Part 4: Fire resistance test of elements of construction.	
		ASTM E119 - 22	Standard tests methods for fire tests of building construction and materials.	
		ISO 834:2003	Fire resistance tests – Elements of building construction.	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
		NFPA 251:2006	Standard method of test of fire resistance of building construction and material.	
		EN 1364-1:2015	Fire resistance test for non- loadbearing element – Walls.	
		EN 1365-1:2012	Fire resistance test for loadbearing element – Walls.	
		BS 5588 Part 5 Appendix A:2004	Partitions (including matching linings) Part 2:Specification for performance requirements for strength and robustness in methods of test	
		BS 5234 Part 2:1992	Partitions (including matching linings) Part 2:Specification for performance requirements for strength and robustness in methods of test	
		Clause 3.3 Building Code of Australia C 1.8	Building Code of Australia 1996 Vol. 1 : Structural tests for lightweight construction	
		EN 520:2004+A1:2009	Gypsum plasterboards. Definitions, requirements and test methods	
		BS 1230 Part 1:1985	Gypsum Plasterboard – Part 1:Specification for plasterboard excluding materials submitted to Secondary Operations	
		ISO 1896:1991	Products in fibre-reinforced cement - Non- combustible fibre-reinforced boards of calcium silicate or cement for insulation and fire protection	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
16	Fire Rated Partition (Protected shaft enclosing staircase or services)	BS 476 Part 4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	5
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	
		BS 476 Part 22:1987	Fire tests on building materials and structures. Methods for determination of the fire resistance of non-load bearing elements of construction	
		AS 1530 Part 4:2005 AS 1530.4:2014	Methods of fire tests on building materials, components and structures Part 4: Fire resistance test of elements of construction	
		ASTM E119 – 22	Standard tests methods for fire tests of building construction and materials.	
		ISO 834:2003	Fire resistance tests – Elements of building construction.	
		NFPA 251:2006	Standard method of test of fire resistance of building construction and material.	
		EN 1364-1:2015	Fire resistance test for non- loadbearing element – Walls.	
		EN 1365-1:2012	Fire resistance test for loadbearing element – Walls.	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
		BS 5588 Part 5 Appendix A:2004	Partitions (including matching linings) Part 2:Specification for performance requirements for strength and robustness in methods of test	
		BS 5234 Part 2:1992	Partitions (including matching linings) Part 2:Specification for performance requirements for strength and robustness in methods of test	
		EN 520:2004 + A1:2009	Gypsum plasterboards. Definitions, requirements and test methods.	
		BS 1230 Part 1:1985	Gypsum Plasterboard – Part 1:Specification for plasterboard excluding materials submitted to Secondary Operations	
		ISO 1896:1991	Products in fibre-reinforced cement - Non- combustible fibre-reinforced boards of calcium silicate or cement for insulation and fire protection.	
17	Fire Rated Floor	BS 476 Part 4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	5
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
		BS 476 Part 21:1987	Fire tests on building materials and structures. Methods for determination of the contribution of components to the resistance of a structure.	
		AS 1530 Part 4:2005 AS 1530.4:2014	Methods of fire tests on building materials, components and structures Part 4: Fire resistance test of elements of construction	
		ISO 834:2003	Fire resistance tests – Elements of building construction.	
		EN 1365-2:2014	Fire resistance tests for loadbearing elements. Floors and roofs	
18	Fire Rated Ceiling (Glass)	BS 476 Part 21:1987	Fire tests on building materials and structures. Methods for determination of the fire resistance of non-load bearing elements of construction.	5
		AS 1530 Part 4:2005 AS 1530.4:2014	Methods of fire tests on building materials, components and structures Part 4: Fire resistance test of elements of construction.	
		ASTM E119 - 22	Standard tests methods for fire tests of building construction and materials.	
		ISO 834:2003	Fire resistance tests – Elements of building construction.	
		NFPA 251:2006	Standard method of test of fire resistance of building construction and material.	
		AS 2208:1996	Safety glazing materials in buildings.	
		EN 1364-2:2018	Fire resistance test for non- loadbearing elements- Part 2: Ceilings	
		EN 12600:2002	Glass in building. Pendulum test. Impact test method and classification for flat glass	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
19	Fire Rated Ceiling (Compartmentation)	BS 476 Part 4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	5
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	
		BS 476 Part 22:1987	Fire tests on building materials and structures. Methods for determination of the fire resistance of non-load bearing elements of construction	
		AS 1530.4:2014	Methods of fire tests on building materials, components and structures Part 4: Fire resistance test of elements of construction.	
		ASTM E119 – 22	Standard tests methods for fire tests of building construction and materials.	
		ISO 834:2003	Fire resistance tests – Elements of building construction.	
		EN 1364-2:2018	Fire resistance test for non- loadbearing elements- Part 2: Ceilings	
		NFPA 251:2006	Standard method of test of fire resistance of building construction and material.	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
20	Fire Rated Ceiling (Protection to steel beams that support RC floor)	BS 476 Part 4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	5
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	
		BS 476 Part 23:1987	Fire tests on building materials and structures. Methods for determination of the contribution of components to the resistance of a structure.	
		AS 1530 Part 4:2005 AS 1530.4:2014	Methods of fire tests on building materials, components and structures Part 4: Fire resistance test of elements of construction.	
		ISO 834:2003	Fire resistance tests – Elements of building construction.	
21	Fire Rated Ceiling (Protection to timber/ steel flooring)	BS 476 Part 4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	5
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
		BS 476 Part 21:1987	Fire tests on building materials and structures. Methods for determination of fire resistance of load bearing elements of construction.	
		AS 1530 Part 4:2005 AS 1530.4:2014	Methods of fire tests on building materials, components and structures Part 4: Fire resistance test of elements of construction.	
		EN 1365-2:2014	Fire resistance tests for loadbearing elements. Floors and roofs	
		ISO 834:2003	Fire resistance tests – Elements of building construction.	
22	Fire-rated enclosure/ spraying material (Protection to steel structure)	BS 476 Part 4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	5
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	
		BS 476 Part 21:1987	Fire tests on building materials and structures. Methods for determination of the contribution of components to the resistance of a structure.	
		AS 1530.4:2014	Methods of fire tests on building materials, components and structures Part 4: Fire resistance test of elements of construction.	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
		ISO 834:2003	Fire resistance tests – Elements of building construction.	
		BS 5234 Part 2:1992	Partitions (including matching linings). Specification for performance requirements for strength and robustness including methods of test	
		ISO 1896 :1991	Products in fibre-reinforced cement - Non- combustible fibre-reinforced boards of calcium silicate or cement for insulation and fire protection.	
		EN 13381-4:2013	Test methods for determining the contribution to fire resistance of structural members. Part 4: Applied passive protection to steel members	
		EN 13381-8:2013	Test methods for determining the contribution to fire resistance of structural members. Part 8: Applied reactive protection to steel members	
		UL 1709	Rapid rise fire tests of protection materials for structural steel	
		EN 520:2004 + A1:2009	Gypsum plasterboards. Definitions, requirements and test methods.	
23	Fire-rated enclosure/ spraying material (Protection to firefighting system)	FSB/PSB/001 (issue 1.3.2007)	Fire resistance test on cladde pipe and its penetration through wall.	5
		BS 476 Part 4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	

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		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	
		BS 476 Part 20:1987	Fire tests on building materials and structures. Methods for determination of the fire resistance of elements of construction (general principles)	
		AS 1530.4:2014	Methods of fire tests on building materials, components and structures Part 4: Fire resistance test of elements of construction.	
24	Fire-rated enclosure/ spraying material (Protection to building service)	BS 476 Part 4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	5
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	
		BS 476 Part 20:1987	Fire tests on building materials and structures. Methods for determination of the fire resistance of elements of construction (general principles)	
		AS 1530.4:2014	Methods of fire tests on building materials, components and structures Part 4: Fire resistance test of elements of construction	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
		ASTME119 - 22	Standard tests methods for fire tests of building construction and materials	
		EN 1366-5:2021	Fire resistance tests for service installations - Part 5: Service ducts and shafts	
		ISO 834:2003	Fire resistance tests – Elements of building construction.	
		NFPA 251:2006	Standard method of test of fire resistance of building construction and material.	
25	Fire Rated Duct System	BS 476 Part 4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	5
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	
		BS 476 Part 24:1987	Fire tests on building materials and structures. Methods for determination of ventilation ducts.	
		AS 1530 Part 4:2005 AS 1530.4:2014	Methods of fire tests on building materials, components and structures Part 4: Fire resistance test of elements of construction.	
		ASTM E119 – 22	Standard tests methods for fire tests of building construction and materials	
		ISO 834:2003	Fire resistance tests – Elements of building construction.	

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		NFPA 251:2006	Standard method of test of fire resistance of building construction and material.	
		EN 1366-1:1999 EN 1366-1:2014 + A1:2020	Fire resistance tests for service installations. Fire resistance tests for service installations. Ventilation Ducts	
		EN 1366-8:2004	Fire resistance tests for service installations. Smoke extraction ducts	
		EN 1366-9:2008	Fire resistance tests for service installations. Single compartment smoke extraction ducts	
26	Fire Rated Board System (Structural Elements)	BS 476 Part 4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	5
		BS 476 Part 11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	
		BS 476 Part 21:1987	Fire tests on building materials and structures. Methods for determination of the contribution of components to the resistance of a structure	
		AS 1530 Part 4:2005 AS 1530.4:2014	Methods of fire tests on building materials, components and structures Part 4: Fire resistance test of elements of construction	
		ISO 834:2003	Fire resistance tests – Elements of building construction.	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
27	Portable Fire Extinguisher	SS EN 3-7:2012	Portable fire extinguishers - Characteristics, performance requirements and test methods.	1b or 5
		SS EN 3-8:2012	Portable fire extinguishers - Additional requirements to SS EN 3-7 for the construction, resistance to pressure and mechanical tests for extinguishers with a maximum.	
		SS EN 3-9:2012	Portable fire extinguishers - Additional requirements to SS EN 3-7 for pressure resistance of CO2 extinguishers.	
28	Breeching Inlet	BS 5041 Part 3:1975	Fire hydrant systems equipment. Specification for inlet breechings for dry riser inlets.	1b or 5
29	Landing Valve	BS 5041 Part 1:1987	Fire hydrant systems equipment. Specification for inlet breechings for wet risers.	1b or 5
30	Standby Fire Hose	BS 6391:2009	Specification for non-percolating lay flat delivery hoses and hose assemblies for fire-fighting purposes.	1b or 5
31	Fire Hose Reel	EN 671-1:2012	Fixed fire fighting systems. Hose systems. Hose reels with semi-rigid hose.	1b or 5
		SS 575:2012	Code of practice for fire hydrant, rising mains and hose reel systems.	
32	Smoke Screen (Fixed)	EN 12101-1:2005 + A1:2006	Smoke and heat control systems. Specification for smoke barriers	5

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33	Auditorium Seats	BS 5852:1990 Section 5 Ignition Source 0, 1 and 5	Methods of test for assessment of ignitability of upholstered seating by smoldering and flaming ignition sources.	1b or 5
34	Fire Rated Door	SS 332:2018 Clause 5	Specification for fire doors.	1b or 5
		SS 332:2018 + A1: 2022 Clause 5		
		EN 1634-1:2014 + A1:2018	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 window	
		EN 12600:2002	Glass in building. Pendulum test. Impact test method and classification for flat glass	
		AS 2208:1996	Safety glazing materials in buildings.	
35	Fire Rated Hatch Door	BS 476 Part 22:1987	Fire tests on building materials and structures. Methods for determination of the fire resistance of non-load bearing elements of construction.	1b or 5
		AS 1530.4:2014	Methods of fire tests on building materials, components and structures Part 4: Fire resistance test of elements of construction	
		EN 1634-1:2014 + A1:2018	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 window	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
36	Fire-rated lift landing / dumb waiter door	BS 476 Part 22:1987	Fire tests on building materials and structures. Methods for determination of the fire resistance of non-load bearing elements of construction.	1b or 5
		EN 81 – 58:2022	Safety rules for the construction and Installation of lifts. Examination and Tests. Landing doors fire resistance test.	
		AS 2208:1996	Safety glazing materials in buildings.	
		EN 12600:2002	Glass in building. Pendulum test. Impact test method and classification for flat glass	
37	Fire Rated Refuse Hopper	BS 476 Part 22:1987	Fire tests on building materials and structures. Methods for determination of the fire resistance of non-load bearing elements of construction.	1b or 5
38	Bin/Linen Chute Door	BS 476 Part 22:1987	Fire tests on building materials and structures. Methods for determination of the fire resistance of non-load bearing elements of construction.	1b or 5
		AS 1530.4:2014	Methods of fire tests on building materials, components and structures Part 4: Fire resistance test of elements of construction	
		EN 1634-1:2014 + A1:2018	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 window	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
39	Fire Damper	SS 333:1996 Appendix A	Specification for fire dampers.	1b or 5
40	Fire Rated Shutter/ Fire Curtain	SS 489:2001 Annex A & Clause 3.5	Specification for Fire Shutters.	1b
		EN 1634-1:2014 + A1:2018	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 window	
41	(Controlled Door Closing Device - Surface Mounted Door Closer)	BS EN 1154:1997 Incorporating Amendment no 1 and Corrigendum no 1	Building Hardware. Controlled door closing devices. Requirements and test methods.	5 or 2
		SS 332:2018 Clause 6 Annex C	Specification for Fire Doors.	
	(Controlled Door Closing Device - Concealed Door Closer)	SS 332:2018 + A1:2022 Clause 6 Annex C		
		BS EN 1154:1997 Incorporating Amendment no 1 and Corrigendum no 1	Building Hardware. Controlled door closing devices. Requirements and test methods.	
		SS 332:2018 Clause 6 Annex C	Specification for Fire Doors.	
		SS 332:2018 + A1:2022 Clause 6 Annex C		

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	(Controlled Door Closing Device – Floor Mounted Door Closer / Floor Spring)	BS EN 1154:1997 Incorporating Amendment no 1 and Corrigendum no 1	Building Hardware. Controlled door closing devices. Requirements and test methods.	
		SS 332:2018 Clause 6 Annex C	Specification for Fire Doors.	
		SS 332:2018 + A1:2022 Clause 6 Annex C		
	(Locks and Latches - Electromechanically Operated Locks and Striking Plates)	BS EN 14846:2008	Building hardware. Locks and latches. Electromechanically operated locks and striking plates. Requirements and test methods	
		SS 332:2018 Clause 6 Annex D	Specification for Fire Doors.	
		SS 332:2018 + A1:2022 Clause 6 Annex D		
	(Door Coordinator Devices)	BS EN 1158:1997 Incorporating Amendment no 1 and Corrigendum no 2	Building hardware. Door coordinator devices. Requirements and test methods	
		SS 332:2018 Clause 6 Annex E	Specification for Fire Doors.	
		SS 332:2018 + A1:2022 Clause 6 Annex E		

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
	(Door Bolts)	EN 12051:1999	Building hardware. Door and window bolts. Requirements and test methods	
		SS 332:2018 Clause 6 Annex F	Specification for Fire Doors.	
		SS 332:2018 + A1:2022 Clause 6 Annex F		
	(Lever Handles and Knob Furniture)	BS EN 1906:2012	Building hardware. Lever handles and knob furniture. Requirements and test methods	
		SS 332:2018 Clause 6 Annex G	Specification for Fire Doors.	
		SS 332:2018 + A1:2022 Clause 6 Annex G		
	(Mechanical Locks and Latches)	BS EN 12209:2016	Building hardware. Mechanically operated locks and locking plates. Requirements and test methods	
		SS 332:2018 Clause 6 Annex H	Specification for Fire Doors.	
		SS 332:2018 + A1:2022 Clause 6 Annex H		
	(Emergency Exit Devices)	BS EN 179: 2008	Building hardware. Emergency exit devices operated by a lever handle or push pad, for use on escape routes. Requirements and test method	
		SS 332:2018 Clause 6 Annex I	Specification for Fire Doors.	
		SS 332:2018 + A1:2022 Clause 6 Annex I		

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
	(Panic Exit Devices)	BS EN 1125: 2008	Building hardware. Panic exit devices operated by a horizontal bar, for use on escape routes. Requirements and test methods	
		SS 332:2018 Clause 6 Annex J	Specification for Fire Doors.	
		SS 332:2018 + A1:2022 Clause 6 Annex J		
	(Single Axis Hinges)	BS EN 1935: 2002 Incorporating Corrigendum No. 1	Building hardware. Single-axis hinges. Requirements and test methods	
		SS 332:2018 Clause 6 Annex K	Specification for Fire Doors.	
		SS 332:2018 + A1:2022 Clause 6 Annex K		
	(Electrically Powered Hold-Open Devices for Swing Doors)	BS EN 1155:1997 Incorporating Amendment no 1 and Corrigendum nos. 1, 2 and 3	Building hardware. Electrically powered hold-open devices for swing doors. Requirements and test method	
		SS 332:2018 Clause 6 Annex L	Specification for Fire Doors.	
		SS 332:2018 + A1:2022 Clause 6 Annex L		

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
	(Cylinders for Locks)	BS EN 1303:2015	Building hardware. Cylinders for locks. Requirements and test methods	
		SS 332:2018 Clause 6 Annex M	Specification for Fire Doors.	
		SS 332:2018 + A1:2022 Clause 6 Annex M		
	(Mechatronics Cylinders)	BS EN 15684:2012	Building hardware. Mechatronic cylinders. Requirements and test methods	
		SS 332:2018 Clause 6 Annex N	Specification for Fire Doors.	
		SS 332:2018 + A1:2022 Clause 6 Annex N		
	(Push and pull handle furniture)	SS 332:2018 + A1:2022 Clause 6 Annex U	Specification for Fire Doors.	
	(Mechatronics Door Furniture)	BS EN 16867:2020	Building hardware. Mechatronic door furniture. Requirements and test methods	
	(Automatic Door Operator)	BS EN 16005:2012 Incorporating corrigenda November 2013 and August 2015	Power operated pedestrian doorsets – Safety in use - Requirements and test methods	
	(Digital Door Lock)	SS 332:2018 Clause 5	Specification for fire doors.	
		SS 332:2018 + A1:2022 Clause 5		
		EN 1634-1:2014 + A1:2018	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 window	

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		BS EN 14846:2008	Building hardware. Locks and latches. Electromechanically operated locks and striking plates. Requirements and test methods	
		SS 332:2018 Clause 6 Annex D	Specification for Fire Doors.	
		SS 332:2018 + A1:2022 Clause 6 Annex D		
		BS EN 1906:2012	Building hardware. Lever handles and knob furniture. Requirements and test methods	
		SS 332:2018 Clause 6 Annex G	Specification for Fire Doors.	
		SS 332:2018 + A1:2022 Clause 6 Annex G		
		BS EN 1303:2015	Building hardware. Cylinders for locks. Requirements and test methods	
		SS 332:2018 Clause 6 Annex M	Specification for Fire Doors.	
		SS 332:2018 + A1:2022 Clause 6 Annex M		
		BS EN 15684:2012	Building hardware. Mechatronic cylinders. Requirements and test methods	
		SS 332:2018 Clause 6 Annex N	Specification for Fire Doors.	
		SS 332:2018 + A1:2022 Clause 6 Annex N		
		SS 332:2018 + A1:2022 Clause 6 Annex U	Specification for Fire Doors.	
		BS EN 16867:2020	Building hardware. Mechatronic door furniture. Requirements and test methods	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
42	Fire-rated glass block / glass partition	EN 1364-1:2015	Fire resistance test for non- loadbearing element - Walls	5
		BS 476 Part 22:1987	Fire tests on building materials and structures. Methods for determination of the fire resistance of non-load bearing elements of construction.	
		AS 1530.4:2014	Methods of fire tests on building materials, components and structures Part 4: Fire resistance test of elements of construction	
		ASTM E119 - 22	Standard tests methods for fire tests of building construction and materials	
		ISO 834:2003	Fire resistance tests – Elements of building construction.	
		NFPA 251:2006	Standard method of test of fire resistance of building construction and material.	
		AS 2208:1996	Safety glazing materials in buildings.	
		EN 12600:2002	Glass in building. Pendulum test. Impact test method and classification for flat glass	
43	Fire Rated Glass Block System	BS 476 Part 22:1987	Fire tests on building materials and structures. Methods for determination of the fire resistance of non-load bearing elements of construction	5
		AS 1530.4:2014	Methods of fire tests on building materials, components and structures Part 4: Fire resistance test of elements of construction	
		ASTM E119 - 22	Standard tests methods for fire tests of building construction and materials	
		EN 1364-1:2015	Fire resistance test for non- loadbearing element – Walls	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
		ISO 834:2003	Fire resistance tests – Elements of building construction.	
		NFPA 251:2006	Standard method of test of fire resistance of building construction and material.	
		AS 2208:1996	Safety glazing materials in buildings.	
		EN 12600:2002	Glass in building. Pendulum test. Impact test method and classification for flat glass	
44	Fire Collar	BS 476 Part 20:1987	Fire tests on building materials and structures. Methods for determination of the fire resistance of non-load bearing elements of construction.	5
		BS 476 Part 22:1987	Methods for determination of the fire resistance of non load bearing elements of construction	
		EN 1366-3:2021	Fire resistance tests for service installation: Penetration seals.	
		EN 1366-4:2021	Fire resistance tests for service installations. Linear joint seals	
		AS 1530.4:2014	Methods of fire tests on building materials, components and structures Part 4: Fire resistance test of elements of construction	
		ASTM E119 – 22	Standard tests methods for fire tests of building construction and materials	
		ISO 834:2003	Fire resistance tests – Elements of building construction.	
		NFPA 251:2006	Standard method of test of fire resistance of building construction and material.	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
		ASTM E814 - 13a (2017) ASTM E814 - 23a	Standard Test Method for Fire Tests of Through-Penetration Fire Stops	
		ASTM E2307 - 19 ASTM E2307 - 2 0ASTM E2307 - 23a	Standard Test Method for Determining Fire Resistance of Perimeter Fire Barriers Using Intermediate-Scale, Multi-story Test Apparatus	
45	Fire Stopping Material	BS 476 Part 20:1987	Fire tests on building materials and structures. Methods for determination of the fire resistance of non-load bearing elements of construction.	5
		BS 476 Part 22:1987	Methods for determination of the fire resistance of non load bearing elements of construction	
		EN 1366-3:2009 EN 1366-3 :2021	Fire resistance tests for service installation: Penetration seals.	
		EN 1366-4:2006 + A1:2010 EN 1366-4:2021	Fire resistance tests for service installations. Linear joint seals	
		AS 1530 Part 4:2005 AS 1530.4:2014	Methods of fire tests on building materials, components and structures Part 4: Fire resistance test of elements of construction	
		ASTM E119 – 22	Standard tests methods for fire tests of building construction and materials	
		ISO 834:2003	Fire resistance tests – Elements of building construction.	
		NFPA 251:2006	Standard method of test of fire resistance of building construction and material.	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
		ASTM E814 - 13a (2017) ASTM E814 - 23a	Standard Test Method for Fire Tests of Through-Penetration Fire Stops	
		ASTM E2307-19 ASTM E2307-20 ASTM E2307-23a	Standard Test Method for Determining Fire Resistance of Perimeter Fire Barriers Using Intermediate-Scale, Multi-story Test Apparatus	
46	Intumescent Coating System	BS 8202 Part 2:1992	Coating for fire protection of building elements: Code of practice for the use of intumescent coating systems to metallic substrates for providing fire resistance.	5
		BS 476 Part 21:1987	Fire tests on building materials and structures. Methods for determination of the contribution of components to the resistance of a structure.	
		AS 1530.4:2014	Methods of fire tests on building materials, components and structures Part 4: Fire resistance test of elements of construction.	
		ISO 834:2003	Fire resistance tests – Elements of building construction.	
		EN 13381-8:2013	Test methods for determining the contribution to fire resistance of structural members. Part 8: Applied reactive protection to steel members	
		UL 1709	Rapid rise fire tests of protection materials for structural steel	
		EN 16623:2015	Paints and varnishes. Reactive coatings for fire protection of metallic substrates. Definitions, requirements, characteristics and marking	

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47	Fire Extinguishing System for Kitchen Hood	UL 300	Standard for fire testing of fire extinguishing systems for protection of commercial cooking equipment.	5
48	Fire Pump	AS 2941:1995	Centrifugal stationary pumps for fire-protection service	5
		UL 448	Fixed fire protection installations – Pumpset system	
		FM 1311:2007	Approval standards for centrifugal fire pumps split case type (axial or radial)	
		FM 1317:2008	Approval standards for centrifugal fire pumps split case type (horizontal, end-suction type)	
49	Exit Sign (powered electrically)	SS 263:Part 2:1998	Specification for luminaires - Luminaires for emergency lighting	1b or 5
		SS 508 Part 1:2004	Graphical symbols – Safety colours and safety signs - Design principles for safety signs and safety markings	
		SS 508 Part 2:2008	Specification for graphical symbols - Safety colours and safety signs - Design principles for product safety labels	
		SS 563 Part 1:2010	Code of practice for the design, installation and maintenance of emergency lighting and power supply systems in buildings - Part 1:Emergency lighting	
		SS 563 Part 2:2010	Code of practice for the design, installation and maintenance of emergency lighting and power supply systems in buildings - Part 2:Installation requirements and maintenance procedures	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
50	Emergency Lighting (Self –Contained)	SS 263:Part 2:1998	Specification for luminaires - Luminaires for emergency lighting	1b or 5
		SS 563 Part 1:2010	Code of practice for the design, installation and maintenance of emergency lighting and power supply systems in buildings - Part 1:Emergency lighting	
		SS 563 Part 2:2010	Code of practice for the design, installation and maintenance of emergency lighting and power supply systems in buildings - Part 2:Installation requirements and maintenance procedures	
51	Battery System (for exit signs and emergency lighting)	SS 563 Part 1:2010	Code of practice for the design, installation and maintenance of emergency lighting and power supply systems in buildings - Part 1:Emergency lighting	1b or 5
		SS 563 Part 2:2010	Code of practice for the design, installation and maintenance of emergency lighting and power supply systems in buildings - Part 2:Installation requirements and maintenance procedures	
52	Self-Luminous Sign (powered by radioactive material)	SS 508 Part 1:2004	Graphical symbols – Safety colours and safety signs - Design principles for safety signs and safety markings	1b or 5
		SS 508 Part 2:2008	Specification for graphical symbols - Safety colours and safety signs - Design principles for product safety labels	
		SS 563 Part 1:2010	Code of practice for the design, installation and maintenance of emergency lighting and power supply systems in buildings - Part 1:Emergency lighting	

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
		SS 563 Part 2:2010	Code of practice for the design, installation and maintenance of emergency lighting and power supply systems in buildings - Part 2:Installation requirements and maintenance procedures	
53	Fire Alarm Panel	EN 54 Part 2:1997	Fire detection and fire alarm systems. Control and indicating equipment	1b or 5
		EN 54 Part 4:1997	Fire detection and fire alarm systems. Power supply equipment	
		SS CP 10:2005	Code of Practice for the installation and maintenance of Emergency Lighting and Power Supply Systems in Buildings	
54	Fire resistant cables	SS 299:Part 1:1998 SS 299:2021	Specification for fire resistant cables, Part 1:Performance requirements for cables required to maintain circuit integrity under fire conditions	5
55	Smoke Curtain/Barrier	EN 12101-1:2005 + A1:2006	Smoke and heat control systems. Specification for smoke barriers	1b or 5
		EN 13501-1:2018	Fire classification of construction products and building elements. Classification using test data from reaction to fire tests	
56	Household Shelter Door	SCDF File Ref: CD/FSSB/12/01/03/04 dated 8 Feb 2006	Technical Requirements for Storey Shelters 1997 Annex A	5
57	Storey Shelter Door	SCDF File Ref: CD/FSSB/12/01/03/04 dated 8 Feb 2006	Technical Requirements for Storey Shelters 1997 Annex A	5

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S/N	Product Description	Test Standard Number	Test Standard Description	Type
58	Blast Hatch	SCDF File Ref: CD/FSSB/12/01/03/04 dated 8 Feb 2006	Technical Requirements for Storey Shelters 1997 Annex A	5
		SCDF Synopsis dated 26 Oct 2010	Cyclic test, water tightness test, galvanized coating test	
59	Ventilation Sleeve	SCDF Synopsis dated 26 Oct 2010	Chemical Composition of Stainless Steel	5
60	Solar Photo-voltaic (PV) (Roof-mounted module)	SS IEC 61730-2:2020 IEC 61730-2:2016 IEC 61730-2:2012	Photovoltaic (PV) module safety qualification Part 2: Requirements for testing	2
		MST 23 (Fire Test)		
		UL 790	Standard test methods for fire tests of roof coverings	
		ASTM E108 - 20a	Standard test methods for fire tests of roof coverings	
		EN 13501-5:2016	Fire classification of construction products and building elements - Part 5: Classification using data from external fire exposure to roofs tests	
		MST 24 (Ignitability Test)	Reaction to fire tests – Ignitability of products subjected to direct impingement of flame.	
		EN ISO 11925-2	Part 2: Single-flame source test	

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61	Plastic Finishing Material for Floor	BS 476-4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	2
		BS 476-11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		EN 13501-1:2018	Fire classification of construction products and building elements Classification using test data from reaction to fire tests.	
		BS EN 45545-2:2013 + A1:2015	Railway applications – Fire Protection on railway vehicles	
		BS EN 45545-2:2020	Part 2: Requirements for fire behaviour of materials and components	
62	Coldroom Material (Non Fire Rated) or Coldroom Material (Fire Rated)	BS 476-4:1970	Fire tests on building materials and structures. Non-combustibility test for materials.	5
		BS 476-11:1982	Fire tests on building materials and structures. Method of test for assessing the heat emission from building materials.	
		EN 13501-1:2018	Fire classification of construction products and building elements Classification using test data from reaction to fire tests.	
		BS EN 45545-2:2013 + A1:2015	Railway applications – Fire Protection on railway vehicles	

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		BS EN 45545-2:2020	Part 2: Requirements for fire behaviour of materials and components	
		BS 476 Part 22:1987	Fire tests on building materials and structures. Methods for determination of the fire resistance of non-load bearing elements of construction	
		AS 1530.4:2014	Methods of fire tests on building materials, components and structures Part 4: Fire resistance test of elements of construction	
		EN 1364-1:2015	Fire resistance test for non- loadbearing element – Walls.	
		ASTM E119 – 22	Standard tests methods for fire tests of building construction and materials	

Foreign critical location : Nil

Country where certificates are issued: Singapore