

List of Regulated Fire Safety Products & Materials

Product	Acceptable Standards	Product Listing Scheme (PLS) Class	Surveillance Regime	
			Testing	Factory/Site Inspection
1. Fire Alarm Panel	1.EN 54 Pt 2 & 4 2.CP10	1A or 1B (Labels issued)	1A - Annually or by trigger (every 200 labels) 1B - Batch Testing Critical electrical (freq, voltage) input and output; Verify Design Deviation; Verify Functionality; Verify Visual & Audio Indicators	1A -Annually or by trigger (every 200 labels) 1B - NA
2. Fire Pump	1.AS 2941, UL, FM, BRE	1A (Labels issued)	AS - Annual witness testing; FM/UL/BRE-Annual; Submission of reports shall include surveillance inspection & witness testing.	AS - Annually FM/UL/BRE - 3 yearly
3. Fire-rated Partition ⁽¹⁶⁾ Materials are listed under BS 476 Pt 4, BS 476 Pt 11, EN 13501-1(Min A2 class) under PLS Class 2				
3.1 Compartment wall	1. BS 476 Pt 22, EN 1364-1, AS 1530 Pt 4, ASTM E119, ISO 834, NFPA 251	1A (DOC ⁽¹⁾ issued)	Site inspection triggered by DOC (every 3500 sqm). Annual surveillance test on material under class 2.	Annually
3.2 Protected shaft enclosing lift ⁽²⁾	1. BS 476 Pt 20, AS 1530 Pt 4, ASTM E119, ISO 834, NFPA 251 2. BS 5234 Pt 2 3. BS EN 520 (gypsum plaster board) 4. ISO 1896 (calcium silicate or cement board) 5. Cyclic loading & dynamic test as specified under clause 3.3 of Building Code of Australia C 1.8	1A (DOC issued)	Site inspection triggered by DOC (every 3500 sqm). Annual surveillance test on material under class 2.	Annually

3.3 Protected shaft enclosing staircase or services	1. BS 476 Pt 22, AS 1530 Pt 4, ASTM E119, ISO 834, NFPA 251 2. BS 5234 Pt 2 3. EN 520 (gypsum plaster board) 4. ISO 1896 (calcium silicate or cement board)	1A (DOC issued)	Site inspection triggered by DOC (every 3500 sqm). Annual surveillance test on material under class 2.	Annually
4. Fire-rated Floor ⁽¹⁶⁾ Materials are listed under BS 476 Pt 4, BS 476 Pt 11, EN 13501-1 (Min A2 class) under PLS Class 2				
4.1. Fire-rated Floor ⁽²⁾	1. BS 476 Pt 21, AS 1530 Pt 4, ISO 834	1A (DOC issued)	Site inspection triggered by DOC (every 3500 sqm). Annual surveillance test on material under class 2.	Annually
5. Fire-rated Ceiling ⁽¹⁶⁾ Materials are listed under BS 476 Pt 4, BS 476 Pt 11, EN 13501-1 (Min A2 class) under PLS Class 2				
5.1 Compartmentation	1. BS 476 Pt 22, AS 1530 Pt 4, ASTM E119, ISO 834, NFPA 251	1A (DOC issued)	Site inspection triggered by DOC (every 3500 sqm). Annual surveillance test on material under class 2.	Annually
5.2 Protection to steel beams that support RC floor ⁽²⁾	1. BS 476 Pt 23, AS 1530 Pt 4, ISO 834	1A (DOC issued)	Site inspection triggered by DOC (every 3500 sqm). Annual surveillance test on material under class 2.	Annually
5.3 Protection to timber/ steel flooring ⁽²⁾	1. BS 476 Pt 21, AS 1530 Pt 4, ISO 834	1A (DOC issued)	Site inspection triggered by DOC (every 3500 sqm). Annual surveillance test on material under class 2.	Annually
6. Fire-rated Enclosure/ spraying material ⁽¹⁶⁾ Materials are listed under BS 476 Pt 4, BS 476 Pt 11, EN 13501-1 (Min A2 class) under PLS Class 2				
6.1 Protection to steel structure ⁽²⁾⁽³⁾	1. BS 476 Pt 21, AS 1530 Pt 4, ISO 834 2. BS 5234 Pt 2 3. EN 520 (gypsum plaster board) 4. ISO 1896 (calcium silicate or cement board)	1A (DOC issued)	Site inspection triggered by DOC (every 3500 sqm). Annual surveillance test on material under class 2.	Annually

6.2 Protection to fire fighting system ie sprinkler, rising mains, hydrant, etc. ⁽⁴⁾	1. FSB/PSB/001 (Insulation criteria – shall not exceed 75°C)	1A (DOC issued)	Site inspection triggered by DOC (every 3500 sqm). Annual surveillance test on material under class 2.	Annually
6.3 Protection to building services ie cables, sanitary pipes, chilled water pipes etc	1. BS 476 Pt 20, AS 1530 Pt 4, ASTM E119, ISO 834, NFPA 251	1A (DOC issued)	Site inspection triggered by DOC (every 3500 sqm). Annual surveillance test on material under class 2.	Annually
7 Smoke Curtain ⁽¹⁶⁾ Materials are listed under BS 476 Pt 4, BS 476 Pt 11, BS 476 Pt 6 & BS 476 Pt 7, EN 13501-1 (Min A2 class) under PLS Class 2				
7.1. Smoke Curtain ⁽⁵⁾	1. EN12101-1:2005+A12006	1B (Labels issued)	Annual surveillance test on material under Class 2	NA
8. Fire-rated duct system ⁽¹⁶⁾ Materials are listed under BS 476 Pt 4, BS 476 Pt 11, EN 13501-1 (Min A2 class) under PLS Class 2				
8.1. Fire-rated duct system, eg. Ventilation, Smoke extraction and/or Kitchen Exhaust Ducting System	1. BS 476 Pt 24, AS 1530 Pt 4, ASTM E119, ISO 834, NFPA 251	1A (DOC issued)	Site inspection triggered by DOC (every 3500 sqm). Annual surveillance test on material under class 2.	Annually
9. Fire Extinguishing System for Kitchen Hood	1. UL 300	1A (Labels issued)	Site inspection triggered by DOC (every 50 labels) or min once per year	Annually
10. Fire Stopping Material (including Fire Rated Collar)	1. BS 476 Pt 20, AS 1530 Pt 4, ASTM E119, ISO 834, NFPA 251, EN1366-3, EN 1366-4, ASTM E814, 2. ASTM 2307-04 (curtain wall)	1A (DOC issued)	No testing. Site inspection triggered by DOC (every 1000 labels). Annual Surveillance testing	Annually

11. <i>Fire-rated Glass Block/ Partition/Panel</i> ⁽⁷⁾	1. BS 476 Pt 22, AS 1530 Pt 4, ASTM E119, ISO 834, NFPA 251 2. BS 6206, AS2208, EN 12600	1A (DOC issued)	NA for Glass block. FR Glass partition - Impact test once every 3 years.	Annually
12. <i>Exit sign (powered electrically)</i>	1. SS 263 Pt 2 2. SS 508 Pt 1 & 2 3. CP 19 (replaced by SS 563 Pt 1 & SS 563 Pt 2 wef 6 July 2014)	1A or 1B (Labels issued)	1A - Annually or by trigger (every 2000 labels) 1B - Batch Testing Full tests over 3 years	1A - Annually or by trigger (every 2000 labels) 1B - NA
13. <i>Emergency lighting (self-contained)</i>	1. SS 263 Pt 2 2. CP 19 (replaced by SS 563 Pt 1 & SS 563 Pt 2 wef 6 July 2014)	1A or 1B (Labels issued)	1A - Annually or by trigger (every 2000 labels) 1B - Batch Testing; Full tests over 3 years	1A - Annually or by trigger (every 2000 labels) 1B - NA
14. <i>Battery System (for exit signs and emergency lighting)</i>	1. CP 19 (replaced by SS 563 Pt 1 & SS 563 Pt 2 wef 6 July 2014)	1A or 1B (Labels issued)	1A - Annually or by trigger (every 2000 labels); 1B - Batch Testing; Full tests over 3 years	1A - Annually or by trigger (every 2000 labels) , 1B - NA
15. <i>Self-luminous Sign (powered by radioactive material)</i>	1. UL 924 2. SS 508 Pt 1 & 2 3. CP 19 (replaced by SS 563 Pt 1 & SS 563 Pt 2 wef 6 July 2014)	1A or 1B (Labels issued)	1A - Annually or by trigger (every 2000 labels); 1B - Batch Testing; Full tests over 3 years	1A - Annually or by trigger (every 2000 labels), 1B - NA
16. <i>Fire Hosereel</i>	1. EN 671 Pt 1 2. SS 575 (Formerly CP 29)	1A or 1B (Labels issued)	1A - Annually or by trigger (every 1500 labels). Full test over 5 years per type 1B - batch testing (full test)	Annually or by trigger (every 1500 labels)

17. Fire Fighting Hose	1. BS 6391	1A or 1B (Labels issued)	1A -Annually or by trigger (every 1000 labels); Full tests over 5 years per type 1B - batch testing (full test)	Annually or by trigger (every 1000 labels)
18. Auditorium Seats ⁽⁸⁾	1. BS 5852, clause 12 (ignition source 0,1 & 5)	1B (Labels issued)	Batch testing covering clause 12	NA
19. Fire Damper	1. SS 333 (includes fire-resistance test, air leakage test, spring force test and closing reliability test)	1B (Labels issued)	1A & 1B- Annually. Full test over 3 years	1B - NA
20. Fire-rated Door ⁽¹⁴⁾	1. SS 332 2. BS 6206, AS 2208, EN 12600 (glass door)	1A or 1B (Labels issued)	Annually (timber/composite door) Once every 3 years (steel/glass door)	Annually or by trigger (every 500 labels) - Factory or site
21. Bin/Linen Chute Door	1. BS 476 Pt22	1A or 1B (Labels issued)	Once every 3 years	Annually or by trigger (every 500 labels)
22. Fire-rated Lift-landing/ Dumb Waiter Door	1. BS 476 Pt 22, EN 81-58 (lift-landing door) 2. BS 6206, AS 2208, EN 12600 (glass door)	1B (Labels issued)	Fire - once every 3 years Impact - once every 3 years	NA
23. Fire Shutter/Fire Curtain	1. SS 489	1B (Labels issued)	Batch inspection - No surveillance. Full tests over 3 years	NA
24. Fire-rated Hopper / Hatch door	1. BS 476 Pt 22	1A or 1B (Labels issued)	once every 3 years	Annually or by trigger (every 500 labels)
25. Portable Fire Extinguisher	1. SS EN 3-7, SS EN 3-8, SS EN 3-9	1A or 1B (Labels issued)	Annually or by trigger (every 5000 labels). Full tests over 5 years per type	Annually or by trigger (every 5000 labels)
26. Fire-rated Cables	1. SS 299	1A (Mark printed on cables)	Full tests over 3 years	Annually

27. <i>Intumescent Coating System (for protection to steel structure)</i> ⁽⁹⁾	1. BS 8202 Pt 2 (includes fire test & weathering tests) 2. BS 476 Pt 21, AS 1530 Pt 4 3. ISO 834 (for fire test)	1A (DOC issued)	Annually - Full test over 3 years.	Annually
28. <i>Landing Valve</i>	1. BS 5041 Pt 1	1A or 1B (Labels issued)	Annually or by trigger (every 1500 labels); Full tests over 5 years per type	Annually or by trigger (every 1500 labels)
29. <i>Breeching Inlet</i>	1. BS 5041 Pt 3	1A or 1B (Labels issued)	Annually or by trigger (every 1000 labels); Full tests over 5 years per type	Annually or by trigger (every 1000 labels)
30. <i>Raised Floor Panel</i> ^{(10) (16)}	1. BS 476 Pt 4, BS 476 Pt 11, EN 13501-1 (Min A2) (applicable to the core material of composite construction)	2 (No label issued)	Annual surveillance test	NA
31. <i>Material for Wall/Ceiling Construction</i> ^{(10) (16)}	1. BS 476 Pt 4, BS 476 Pt 11, BS 476 Pt 7, BS 476 Pt 6 & BS 476 Pt 7, EN 13501-1	2 (No label issued)	Annual surveillance test	NA
32. <i>Thermal Insulation Material</i> ⁽¹⁰⁾⁽¹⁶⁾	1. BS 476 Pt 4, BS 476 Pt 11, BS 476 Pt 7, BS 476 Pt 6 & BS 476 Pt 7, EN 13501-1	2 (No label issued)	Annual surveillance test	NA
33. <i>Finishing material for wall/ceiling</i> ⁽¹⁰⁾⁽¹⁶⁾	1. BS 476 Pt 4, BS 476 Pt 11, BS 476 Pt 7, BS 476 Pt 6 & BS 476 Pt 7, EN 13501-1	2 (No label issued)	Annual surveillance test	NA
34. <i>Roof Covering Material</i> ^{(10) (15) (16)}	1. BS 476 Pt 4, BS 476 Pt 11, BS 476 Pt 7, BS 476 Pt 6 & BS 476 Pt 7, EN 13501-1	2 (No label issued)	Annual surveillance test	NA

35. Composite Panel (Cladding to External Wall) ⁽¹²⁾ ⁽¹⁶⁾	1. BS 476 Pt 4, BS 476 Pt 11, BS 476 Pt 7, BS 476 Pt 6 & BS 476 Pt 7, EN 13501-1 (applicable to the core material of composite construction) or NFPA 285	2 (No label issued)	1. Annual surveillance test 2. Annual surveillance test (finger printing).	NA NA
36. UPVC Window Frame Material ⁽¹³⁾	1. ASTM D635	2 (No label issued)	Annual surveillance test	NA
37. Door Closer / other hardware ⁽¹⁴⁾	1. SS 332 : Clause 5	1A (Mark printed on hardware)	Annual surveillance test	Annually
38. Household Shelter Door	1. FSSD's requirements	1A (Labels issued)	Once every 3 years for cyclic test. Annually for water tightness test, dimension check, CED coating test & rubber gasket test	Annually or by trigger (every 200 labels)
39. Storey Shelter Door	1. FSSD's requirements	1A (Labels issued)	Once every 3 years for cyclic test. Annually for water tightness test, dimension check, CED coating test & rubber gasket test	Annually or by trigger (every 200 labels)

Note :

1. 'DOC' stands for 'Declaration Of Compliance'.
2. ASTM E119 and NFPA 251 are not acceptable for load-bearing elements.
3. Clause 3.3.7 of Fire Code shall be complied with.
4. The insulation criterion shall be min. 30 minutes.
5. Class "0" surface spread of flame.
6. Insulation criteria of ducting system shall have both internal and external rating.
7. Use permitted in sprinkler protected buildings only.
8. Requirements apply to upholstered seats and plastic seats, either in fixed position or retractable type.
9. Weathering tests shall include: a) Heating test b) Washing test c) Sulphur dioxide test d) Humidity test e) Natural weathering test (for external use) f) The requirements stipulated in clause 3.15.1 of the Fire Code
10. Materials containing plastics shall not be allowed.
11. Note 11 is left as blank.
12. External wall shall have fire-resistance test rating not less than 1 hour.
13. Installation of UPVC window frame shall conform to the FSSD's Guidelines.
14. Door closers used in fire-rated door are separately listed under PLS Class 1A
15. Insulating lining shall achieve Class "1" flame spread rating.
16. Fire classification of construction products & building elements between Euroclass & UK class:

Euroclass (EN 13501-1)	UK class (BS Standard)
A1	Non-Combustible (BS 476 Pt 4)
A2 (or better)	Limited Combustibility (BS 476 Pt 11)
B (or better)	Class '0' (BS 476 Pt 6 & BS 476 Pt 7)
C (or better)	Class '1' & '2' (BS 476 Pt 7)
D (or better)	Class '3' (BS 476 Pt 7)
E (or better)	Class '3' (BS 476 Pt 7)
F (or better)	Class '4' (BS 476 Pt 7)