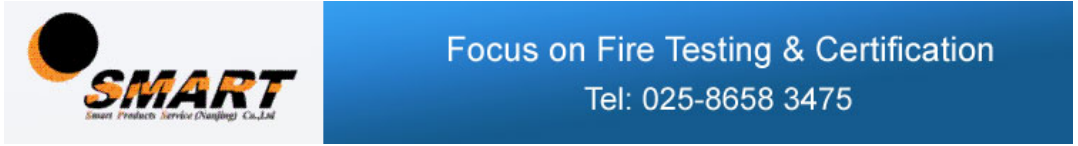


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Home > British > BS 476-7:1997 Classification of spread of flame

## BS 476-7:1997 Classification of spread of flame

**Fire standard**

[Railway](#) [Marine](#) [Bus](#) [Building](#)

- ▶ [BS 6853:1999 British...](#)
- ▶ [NF F 16-101:1988/NF...](#)
- ▶ [DIN 5510-2:2009-05 G...](#)
- ▶ [NFPA 130:2010 The Un...](#)
- ▶ [EN 45545-2:2013 EU S...](#)
- ▶ [BS 6853:1999 Cable t...](#)
- ▶ [UNFER prE10.02.977.3...](#)
- ▶ [GB 8624:2006](#)
- ▶ [NF F 16-101 Cable te...](#)
- ▶ [DIN 5510-2:2009-5 Ca...](#)
- ▶ [NFPA 130:2010 Cable ...](#)
- ▶ [EN 45545-2:2010 Cabl...](#)
- ▶ [GB/T 12528-2008 Cabl...](#)

**Test method** [More>>](#)

- ▶ [BS 476-6:1989+A1:2009 fire...](#)
- ▶ [BS 476-7:1997 Classificati...](#)
- ▶ [BS 476-20:1987 fire resist...](#)
- ▶ [BS ISO 4589-2:2006-06](#)
- ▶ [NF P 92-501: M classificat...](#)
- ▶ [NF P 92-503: M classificat...](#)
- ▶ [NF P 92-504: Speed of spre...](#)
- ▶ [ASTM E 662: Smoke density...](#)
- ▶ [ASTM E 648 Flooring test](#)
- ▶ [ASTM E 162: surface flamma...](#)

### BS 476-7:1997 Classification of spread of flame

Fire tests on building materials and structures-Part 7 method of test to determine the classification of the surface spread of flame of products.

The specimen is mounted in a water-cooled holder and is exposed to a radiant panel over a ten minute test duration. In addition, a pilot flame is applied to the bottom corner of the specimen during the first minute of test. The time required for the flame front to reach reference marks on the specimen is noted, together with the extent of flame spread at one minute thirty seconds test duration and at the end of the test. Observations are also made of the burning behaviour.

Materials are classified according to test performance as shown in the table below. Class 1 is the best classification that can be achieved during this test alone and Class 4 is the worst classification that can be achieved on this test. Class 4 materials are considered high risk.

#### Evaluate BS 476-7 classification of spread of flame

Classification of spread of flame				
Classification	Spread of flame at 1.5 min		Final spread of flame (10 min)	
	Limit (mm)	Limit for one specimen in sample (mm)	Limit (mm)	Limit for one specimen in sample (mm)
Class 1	165	165+25	165	165+25
Class 2	215	215+25	455	455+45
Class 3	265	265+25	710	710+75
Class 4	Exceeding the limits for class 3			

#### BS 476 reference standard

- BS 476 Fire tests on building materials and structures.
- BS 476-3:2004 external fire exposure roof test
- BS 476-4:1970 Non-combustibility test for materials
- BS 476-5:1979 Method of test of ignitability
- BS476-6:1989 Method of test for propagation for materials
- BS 476-7:1997 Surface spread of flame test for material
- BS 476-11:1982 Method for assessing the heat emission from building materials
- BS 476-12:1991 Ignitability of products by direct flame impingement
- BS 476-15:1992 Method for measuring heat release of products-cone calorimeter
- BS 476-20:1987 Method for determination of the fire resistance of elements of construction (general principles)
- BS 476-21:1987 Methods for determination of the fire resistance of loadbearing elements of construction
- BS 476-22:1987 Methods for determination of the fire resistance of non-loadbearing elements of construction

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Previous: BS 476-6:1989+A1:2009 fire propagation

Next: BS 476-20:1987 fire resistance