

BRE Global Test Report

BS 476-7: 1997 Surface spread of flame test on Treatex Classic Colour – Heather Haze

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1 Objective

To classify the surface spread of flame characteristics of the sample described in Section 2 using the test method and criteria specified in British Standard 476: Part 7: 1997¹.

2 Sample

2.1 Traceability

The test samples were supplied by the test sponsor. BRE Global were not involved in the sample selection process and therefore cannot comment upon the relationship between samples supplied for test and the product supplied to market.

2.2 Description of sample and test format

Unless otherwise stated all measurements are nominal.

Test Sponsor	Treatex Ltd
Manufacturer of sample	Information not supplied
Sample name/reference	Treatex Classic Colour
Sample description (as provided by test sponsor/manufacturer)	Treatex classic colour wood finish. Colour has been described as Heather Haze. The product was brush applied to the surface of unspecified timber substrate board, to a thickness of 60 μ . The weight per unit area of the product was stated as 60g/m ² . No further description was given.
Description of sample (as received)	Painted 20mm hardwood timber panel. Paint was brown in colour and applied only to the test face.
Mean sample weight per unit area (kg/m ²)	11.60
Sample thickness (mm)	20.67
Sample receipt date	15 May 2017
Test face	Painted face
Test format	The specimens were tested with 12mm calcium silicate boards behind.
Date of test	09 June 2017 (specimen 1) and 22 June 2017 (Specimens 2 – 6)



3 Conditioning

The specimens were conditioned as required by the standard.

4 Results

4.1 Flame spread data

Table 1 shows the observed spread of flame for each specimen at 1.5 minutes, 10 minutes and time to reach maximum flame spread distance.

Table 2 shows the time it takes to reach each reference point in minutes and seconds if applicable.

Table 1

Specimen E10004	Flame spread distance at 1.5 minutes (mm)	Flame spread distance at 10 minutes (mm)	Time to reach maximum flame spread distance (minutes : seconds)
E10004-1	250	650	10:00
E10004-2	250	650	10:00
E10004-3	230	590	10:00
E10004-4	265	690	10:00
E10004-5	265	600	9:56
E10004-6	250	610	10:00

Table 2

Specimen E10004	Time to reach each reference point (mm) in minutes : seconds													
	75	165	190	215	240	265	290	375	455	500	525	600	675	710
E10004-1	0:22	0:57	1:07	1:18	1:27	1:45	1:58	2:52	4:36	5:29	6:06	8:04	-	-
E10004-2	0:18	0:55	1:03	1:08	1:24	1:40	1:56	3:38	5:18	6:33	7:26	8:47	-	-
E10004-3	0:21	0:58	1:13	1:26	1:32	1:58	2:10	3:29	5:44	6:36	7:38	8:18	-	-
E10004-4	0:21	0:47	0:57	1:04	1:15	1:28	1:45	2:51	3:54	5:42	7:27	-	-	-
E10004-5	0:17	0:44	0:52	1:03	1:11	1:27	1:46	2:33	3:43	5:40	6:44	9:56	-	-
E10004-6	0:22	0:50	0:57	1:06	1:18	1:41	1:45	2:56	4:47	5:50	6:24	8:11	-	-



4.2 Observations

Specimen	Observations
E10004-1	Flaming strongly at termination of test
E10004-2	Flaming strongly at termination of test
E10004-3	Flaming strongly at termination of test
E10004-4	Flaming strongly at termination of test
E10004-5	Flaming strongly at termination of test
E10004-6	Flaming strongly at termination of test

5 Classification

Exposed surfaces of materials used as linings for walls and ceilings are classified in Section 11 of the standard according to the rate and distance of spread of flame as shown in Table 3.

Table 3

Classification	Spread of flame at 1.5min		Final spread of flame	
	Limit	Limit for one specimen in sample	Limit	Limit for one specimen in sample
	mm	mm	mm	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 of Class 3			

6 Conclusion

The results show that the sample described in Section 2 of this report, when tested and classified in accordance with BS 476: Part 7: 1997, achieved **Class 3**.



7 Validity

The test results relate only to behaviour of the test specimens of the product under the particular conditions of test, they are not intended to be the sole criteria for assessing the potential fire hazard of the product in use.

The specification and interpretation of fire test methods are the subject of ongoing development and refinement. Changes in associated legislation may also occur. For these reasons it is recommended that the relevance of test reports over 5 years old should be considered by the user. The laboratory that issued the report will be able to offer, on behalf of the legal owner, a review of the procedures adopted for a particular test to ensure that they are consistent with current practices, and if required may endorse the test report.

8 Reference

- 1 British Standard 476: Part 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, London 2014.



9 Test Images

Images of tests 2 to 6.

Image A shows flame spread at 1 minute 30 seconds.

Image B shows flame spread at 10 minutes

A – Test 2 (E10004-2)



B - Test 2 (E10004-2)



A – Test 3 (E10004-3)



B - Test 3 (E10004-3)





A – Test 4 (E10004-4)



B - Test 4 (E10004-4)



A – Test 5 (E10004-5)



B - Test 5 (E10004-5)



A – Test 6 (E10004-6)



B - Test 6 (E10004-6)

