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BS 476: Part 7: 1997 on Celotex RS5000

Prepared for:
Celotex Ltd
Lady Lane Industrial Estate
Hadleigh
Suffolk
IP7 6BA

14th July 2014

Additional test report number
275719A

UKAS TESTING
0578

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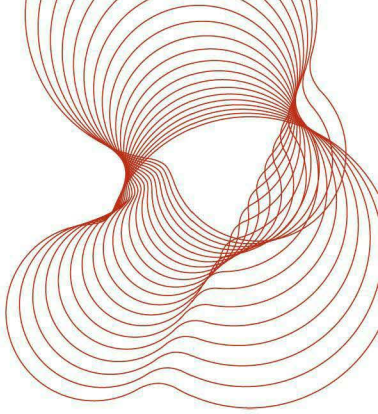

1 Objective

To test and classify the sample described in Section 2 to the surface spread of flame characteristics, as shown by the surface spread of flame test and criteria of British Standard 476: Part 7 : 1997[1].

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	Celotex Ltd Lady Lane Industrial Estate Hadleigh Suffolk IP7 6BA
Manufacturer of sample	As above
Sample name/reference	Celotex RS5000
Sample description (as provided by test sponsor/manufacturer)	Foam type and density: HP400E (Formulation Specification 28-038), nominal density 32.0kg/m^3. Facing: Stucco Silver Foil Facer (Raw Material Specification 38-172).
Description of sample (as received)	Foil faced rigid foam
Mean sample weight per unit area (kg/m^2)	1.84
Sample thickness (mm)	50
Sample receipt date	9th November 2011
Test face	One face
Test format	The specimens were tested with 12mm calcium silicate boards behind.
Date of test	21st November 2011

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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 seconds if applicable.

Table 1

Specimen	Flame spread distance at 1.5 minutes (mm)	Flame spread distance at 10 minutes (mm)	Time to reach maximum flame spread distance (minutes:seconds)
1	60	60	0:50
2	50	50	0:20
3	50	50	0:15
4	70	70	0:35
6	50	50	0:20
7	60	60	0:30

Table 2

Specimen	Time to reach each reference point (mm) in minutes:seconds													
	75	**165**	190	**215**	240	**265**	290	375	**455**	500	525	600	675	**710**
1														
2														
3														
4														
6														
7														

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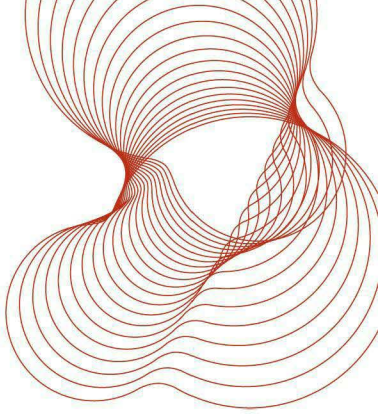

4.2 Observations.

Specimen	Observations
1	Flaming ceased 1minute:05seconds
2	Flaming ceased 1minute:03seconds
3	Flaming ceased 1minute:10seconds
4	Flaming ceased 1minute:04seconds
6	Flaming ceased 1minute:03seconds
7	Flaming ceased 1minute:07seconds

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 across them as shown in Table 3.

Table 3

Classification	Spread of flame at 1.5min		Final spread of flame	
	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 of Class 3			

6 Conclusion

The results of this test show that the above sample as described in this report, when tested and classified in accordance with BS 476: Part 7 : 1997, achieved Class 1.

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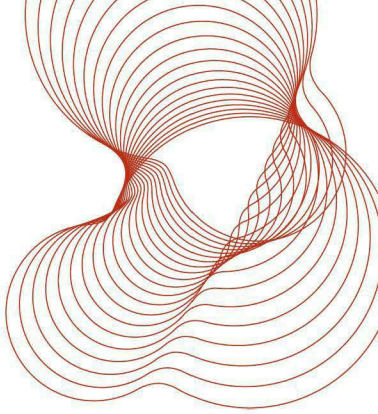

7 Validity

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.

This report is additional to that issued as 275719 dated 22nd November 2011. A change to the product name was made at the request of the manufacturer. The manufacturer has declared that no change to the product was made The original report remains valid and is not replaced by this additional report. The product has not been retested nor does this reissue constitute a technical review of the product.

8 Reference

1 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 Standard 476 : Part 7 : 1997. British Standards Institution, London, 1997.

==========REPORT ENDS==========

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