BS 476: Part 3: 2004 test on Thatch treated with Thatchsayf

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Test report number 232104

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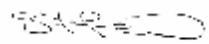

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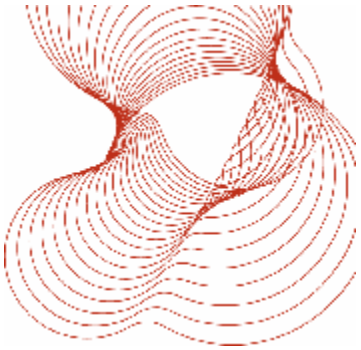

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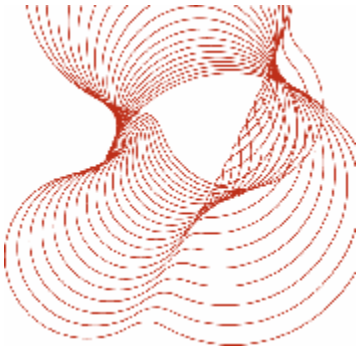

1 Objective

To classify the sample specified in Section 2 according to its capacity to resist penetration by fire and its spread of flame characteristics, as shown by the external fire exposure roof test and criteria of BS 476: Part 3: 2004[1].

2 Sample

The test samples were supplied by the client. BRE 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.

Unless otherwise stated all measurements are nominal.

Test Sponsor	Thatching Advisory Services Ltd
Constructor of test sample	Thatching Advisory Services Ltd
Sample name/reference	Thatch treated with Thatchsayf
Sample description (as provided by test sponsor/manufacturer)	Samples of thatch treated with a fire retardant spray called Thatchsayf produced by Micon Coatings in South Africa.
Description of sample (as received)	Thatch, 300mm deep, mounted on 50mm x 25mm timber battens on a frame of 140mm x 50mm timber
Sample receipt date	30 August 2006
Test face	Thatch surface
Test format	The samples were tested in the sloping position
Date of test	3 October 2006

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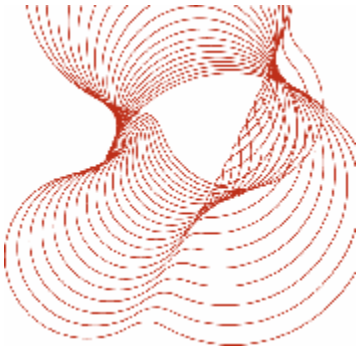
3 Conditioning

The specimens were conditioned as required by the standard.



4 Results

4.1 Preliminary ignition test

Specimen reference	Flame spread mm	Flame duration min:s	Penetration min:s
3	0	0:00	None

4.2 Spread of flame test

Specimen reference	Flame spread mm	Flame duration min:s	Comments
4	None	Out on removal of test flame	_ _ _
7	None	5:25	Horizontal spread of 100mm, no downward spread
5	None	Out on removal of test flame	_ _ _

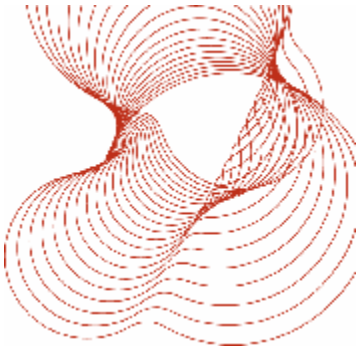
The mean flame spread was 0mm

4.3 Penetration test

Specimen reference	Penetration min	Observations
6	32	Flaming continued on removal of test flame
1	33	Flaming continued on removal of test flame
2	37	Flaming continued on removal of test flame

The mean time to penetration was 34 minutes

4.4 No dripping of material occurred from the underside of any specimen tested, nor was any mechanical failure, or development of holes, observed.



5 Designation of Specimens

5.1 The designation of specimens subject to conditions of external fire shall be according to both the time of penetration and the distance of spread of flame along their external surface.

5.2 Each category designation shall consist of two letters, e.g. AA, AC, BB, these being determined as follows:

First letters:

A. Those specimens which have not been penetrated within 1 hour.

B. Those specimens which are penetrated in not less than ½ hour.

C. Those specimens which are penetrated in less than ½ hour.

D. Those specimens which are penetrated in the preliminary flame ignition test.

Second letters:

A. Those specimens on which there is no spread of flame.

B. Those specimens on which there is not more than 533mm spread of flame.

C. Those specimens on which there is more than 533mm spread of flame.

D. Those specimens which continue to burn for 5 minutes after the withdrawal of the test flame or spread more than 381mm across the region of burning in the preliminary test.

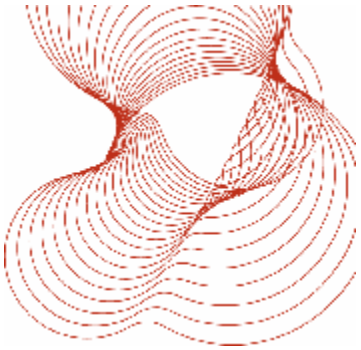
5.3 Attention shall be drawn to dripping from the underside of the specimen, any mechanical failures, and any development of holes, by adding a suffix 'X' to the designation to denote that one or more of these took place during the test.

5.4 When it is required to indicate test results obtained on the sample by designation, the following method shall be used:

The designation letter for penetration shall be given followed by that for spread of flame and preceded by the letters EXT.F. or EXT.S. according to whether the flat or inclined test has been made and when necessary the suffix 'X' shall be added. Thus, for example:

EXT.F.AA; EXT.F.ACX;

EXT.S.BA; EXT.S.CCX.



6 Conclusions

A sample as described in this report, when tested in accordance with BS 476 : Part 3 : 2004, achieved the designation of EXT.S.BA.

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.

7 Reference

1 Fire tests on building materials and structures. Part 3. Classification and method of test for external fire exposure to roofs. British Standard 476 : Part 3 : 2004. British Standards Institution, London, 2004.

report ends