Fax regu de : 01989750768 15-01-07 10:43 Pg:



FIRE TECHNOLOGY SERVICES

Wira House West Park Ring Road Leeds, LS16 6QL England

Tel: +44 (0)113 259 1999 Fax: +44 (0)113 278 0306 Web:http://www.bttg.co.uk Email:CSLeeds@bttg.co.uk

Our Ref:

27/00816/11:06

10 January 2007 Page 1 of 5

Your Ref: Order No:

Client:

Mermet UK

Dick de Leeuw Co

Ryeford Hall Ryeford

Ross-on-Wye

HR9 7PU

Job Title:

Fire test

Material Received:

29 November 2006

Description of Sample:

One sample of Material, referenced: Acoustis, col. 0202

(White).

Brief:

Fire Technology Services were requested to carry out a

fire test on the sample supplied to BS 476..

UKAS Accreditation:

Our Laboratories are UKAS accredited. However, it should be noted that tests marked * are not UKAS accredited in this report. They are not included in the UKAS Accreditation Schodule for our laboratory, either due to the work not conforming fully to the standard (e.g. reduced number of specimens) or to it

being outside the scope of our accreditation, or subcontracted.

Testing Atmosphere:

Unless otherwise specified the sample has been conditioned and tested, where appropriate, in the standard atmosphere for conditioning and testing textiles

(BS EN ISO 139:2005) of 65 ± 4% r.h. and 20 ± 2°C.



Fax reçu de : 01989750768

15-01-07 10:44

Pg: 4



FIRE TECHNOLOGY SERVICES

Date: 10 January 2007 Our Ref: 27/00816/11/06

Your Ref: Order No: Page 2 of 5

Mermet UK

FIRE TESTS ACCORDING TO BS 476:PART 7:1987 (AS AMENDED) (Method for classification of the surface spread of flame of products)

Date of Test: 21/12/2006

Conditioning

The sample was conditioned to constant mass at a temperature of $23\pm2^{\circ}$ C and a relative humidity of $50\pm10\%$ and maintained in this condition until required for testing

Procedure

The test was carried out in accordance with BS 476: Part 7: 1987. The sponsor sampled the material and the specimens were cut from the sample to the dimensions set out in the standard by FTS. The specimens were tested stapled onto air spaced 12mm calcium silicate board

The following were recorded:-

- a) the time at which the fame front crosses each vertical reference line;
- b) the maximum extent of flame spread during the first 1.5 min from the start of the test;
- c) the maximum extent of flame spread during the whole test i.e. 10 min or less (if applicable)
- d) the time (and distance) at which maximum flame spread is reached.

The flame spread at 1.5mm and the final flame spread results were compared with the standard class limits and a classification was assigned.

Requirements

The class limits for flamespread, detailed in BS 476:Part 7: are set out below.

	Flame spread at 1.5 min (mm)	Final flame spread (mm)		
Class 1	165 (+25)	165 (+25)		
Class 2	215 (+25)	455 (+45)		
Class 3 265 (+25)		710 (+75)		
Class 4	Exceeding Class 3 limits.			

A definitive classification is based on a sample of six specimens and the figure in brackets gives the tolerance by which only one specimen in six may exceed the class limit assigned.





Fax reçu de : 01989750768

FIRE TECHNOLOGY SERVICES Date: 10 January 2007 Our Ref: 27/00816/11/06

Your Ref: Order No: Page 3 of 5

Mermet UK

Results

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

Time for flame spread to reach (s) (mm)				grafice green de une de Madelland	Flame spread at 1.5 min (mm)	Maximum flame spread (mm)	Time to reach maximum flame
165	215	265	455	710	(11111)	(11111)	spread (s)
					60	60	60
			-		60	60	60
					60	60	60
					60	60	60
					60	60	60
					60	60	60

The results indicate that the sample met the performance requirements of Class 1.

Observations

FIRE TESTS ACCORDING TO BS 476:PART 6:1989

Fire tests on building materials and structures. Method of test for fire propagation for products

Date of Test: 10/01/2007

Test Method

The test was carried out in accordance with BS 476: Part 6: 1989.

Prior to testing the sample the calibration of the equipment was determined to ensure compliance with the test limits set out in the standard.



15-01-07 10:44 Pg: 6



Fax regu de : 01989750768

FIRE TECHNOLOGY SERVICES Date:

10 January 2007

Our Ref:

27/00816/11/06

Your Ref: Order No: Page 4 of 5

Mermet UK

The sponsor sampled the material and the specimens were cut from the sample received to the dimensions set out in the standard by AMS Ltd. The specimens were tested stapled onto air spaced 12mm calcium silicate board

Temperatures of the flue gases were measured to the nearest degree centigrade at the time intervals and periods set out below, taking zero time as the moment of ignition of the gas supply. The temperature was measured by means of two thermocouples with their measuring junctions located in the cowl of the apparatus as required by the standard.

The relevant temperature-time intervals were observed for each individual specimen and the calibration board according to the ranges 0 to 3 minutes every 30 seconds, 4 to 10 minutes every 1 minute and 12 to 20 minutes every 2 minutes to give 3 time periods.

Calculation of Results

At each time interval the temperature of the calibration board was subtracted from that of the individual specimen temperature, this was then divided by ten multiplied by the time interval.

The sum of each individual value in each time period was then calculated to give an index of performance, s, for each specimen.

The fire propagation index of the product is calculated from the average of the individual s values for the total number of specimens in each time period.

Total 1 = i1 + i2 + i3

A definitive classification is based on a sample of at least three specimens.

Requirements

A Class 0 is the highest National product performance classification for lining materials. To meet Class 0 a material has to meet the requirements laid down in the UK Building Regulations 1991 Approved Document B (Amendments 2002) appendix A paragraph13 that states that a composite material is either:

- a) composed throughout of materials of limited combustibility; or
- b) a class 1 material which has a propagation index (I) of not more than 12 and a sub index (ii) of not more than 6 when tested to BS 476 Part 6.





FIRE TECHNOLOGY SERVICES

Date:

10 January 2007

Our Ref:

27/00816/11/06

Your Ref: Order No: Page 5 of 5

Mermet UK

Results

Number of specimens tested	Sub-index ii	Sub-index i ₂	Sub-index	Total Fire propagation index
3	4.23	1.82	0.37	6.42

Comments

In our opinion:-

- 1) The test results relate only to the behaviour of the test specimens of the product under the particular conditions of test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.
- 2) The results indicate that the sample met the requirements of Class 0 of the UK Building Regulations 1991 Approved Document B (Amendments 2002) appendix A paragraph 13

The information contained on page no's 1/5 of this certificate is hereby certified to be a correct statement of the tests and investigations carried out by the FTS on the materials referred

Signed.....

Mr B. Chambers

Fire Technician

Reported By ... Mr P. Doherty

Operational Head

...Date 11110.7

