



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

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Your Ref:
Order No:

2 December 2009
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Client: Kvadrat A/S
Lundbergsvej 10
8400 Ebeltøft
Denmark

Job Title: **Fire Test**

Material Received: 25 November 2009

Description of Sample: One sample of fabric, referenced: **Clouds in Divina/Divina Melange, 100% new wool (black/white).**

Brief: Fire Technology Services were requested to carry out a fire test on the sample supplied to BS 476 Part 7 (Indicative).

Uncertainty: An estimation of uncertainty of measurement has not been taken into account when making a judgement to any pass/fail criteria.

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

Date of Test: 2/12/09

Conditioning

The sample was conditioned to constant mass at a temperature of $23 \pm 2^\circ\text{C}$ and a relative humidity of $50 \pm 10\%$ 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 specimen was cut from the sample to the dimensions set out in the standard by the sponser. The specimen was tested stapled onto Airspace boards

Only one specimen was tested. It should be noted that the above standard requires a minimum of six specimens to be tested.

The following were recorded:-

- a) the time at which the flame 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 1.5min 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.



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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.

<u>Time for flame spread to reach (s)</u> <u>(mm)</u>					<u>Flame spread</u> <u>at 1.5 min</u> <u>(mm)</u>	<u>Maximum</u> <u>flame spread</u> <u>(mm)</u>	<u>Time to reach</u> <u>maximum flame</u> <u>spread (s)</u>
165	215	265	455	710	240	625	600ME
45	79	99	360	--			

ME Manually extinguished

The results indicate that the sample met the performance requirements of Class 3 indicative.

Observations

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Comments

Only one specimen was tested. No guarantee can be given as to the outcome of definitive testing. This report does not have the status of a full UKAS Accredited Test Certificate, therefore, it cannot be substituted or used as such.

The information contained on page no's 1/3 of this certificate is hereby certified to be a correct statement of the tests and investigations carried out by FTS on the materials referred to.

Signed.....*B Chambers*.....Date.....02 December 2009.....

B Chambers
 Fire Technician

Reported By.....*[Signature]*.....Date.....02 December 2009.....

P Doherty
 Operational Head

