Confidential Report

Our Ref: 27/05680/08/21

Wira House, West Park Ring Road, Leeds, LS16 6QL, UK.
Telephone: +44 (0) 113 259 1999
Email: info@bttg.co.uk
: www.bttg.co.uk

Date: 23 August 2021

Our Ref: 27/05680/08/21
Your Ref: ---

Client: **Gabriel A/S**

Hjulmagerve 55
DK-900 Aalborg
Denmark

Job Title: Fire Test on One Sample of Fabric

Clients Order Ref: 0011551683

Date of Receipt: 12 August 2021

Description of Sample: One sample of fabric, referenced; Connect 2 Light Violet.

Work Requested: We were asked to make the following test(s):

BS 476: Part 7

* subcontracted test, UKAS accredited
** subcontracted test, EN ISO/IEC 17025 accredited
*** not UKAS accredited

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Note: This report relates only to the samples submitted and as described in the report.

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FIRE TESTS ACCORDING TO BS 476-7:1987 (Including Amendments)
Fire tests on building materials and structures. Method of test to determine the classification of the surface spread of flame of products

Date of Test: 23/08/2021

Conditioning

The sample was conditioned to constant mass at a temperature of 23±2°C and a relative humidity of 50±10% and maintained in this condition until required for testing.

Mounting Method

Each specimen was tested fully adhered to a 12mm calcium silicate board, using PVA adhesive.

Procedure

The test was carried out in accordance with BS 476-7:1987.

The irradiance measured at the 75mm point obtained during calibration is 30.5kW/m^2, BS 476:Part 7 specifies an irradiance of 32.5 ±0.5kW/m^2. Although the irradiance at the first point is slightly lower than the specified limit, the remaining points at 225mm, 375mm, 525mm,675mm and 825mm were all within the specified limits.

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.

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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.

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)								Flame spread at 1.5 min (mm)	Maximum flame spread (mm)	Time to reach maximum flame spread (s)
75	165	215	265	455	710	785	825			
--	--	--	--	--	--	--	--	60	60	61
--	--	--	--	--	--	--	--	60	60	61
53	--	--	--	--	--	--	--	120	150	110
--	--	--	--	--	--	--	--	60	60	60
--	--	--	--	--	--	--	--	60	60	60
50	110	--	--	--	--	--	--	100	180	120

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Classification

The results indicate the sample meets the performance requirements of Class 1.

An estimation of uncertainty of measurement has been taken into account when making a judgment to any pass/fail criteria. Under our Policy we have used a non-binary decision rule.

See our Decision rules Policy (http://www.bttg.co.uk/decision-rules-policy) for further information.

Reported by:…… B Marsden (Mrs), Senior Fire Technician

Countersigned by:…….. P Doherty Manager

Enquiries concerning this report should be addressed to Customer Services.

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Uncertainty Budget - Annex

The overall uncertainty budget for BS 476-7:1987 is as follows:-

Overall: ±20%

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