



Confidential Report

Our Ref: 27/04900/01/19



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Notified Body
for PPE Directive,
Construction Products Regulation
& Marine Equipment Directive
I.D. No. 0338 & 0339



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Date: 12 February 2019
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Client: Camira Fabrics Ltd
The Watermill
Wheatley Park
Mirfield
West Yorkshire
WF14 8HE

Job Title: Fire Test on One Sample of Material

Client's Order No: 83A02585

Date of Receipt: 31 January 2019

Description of Sample(s): One sample of material;
Quality: Cara
Supplier: 410914 (1302)
Call No: Glass (HEJ004)

Work Requested: We were asked to make the following test(s):
BS 476 Part 7:1987

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

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



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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: 11/02/2019

Conditioning

The composite samples were 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 materials and the specimens were cut from the samples received to the dimensions set out in the standard by FTS. The specimens were tested fully adhered to a 12mm calcium silicate board, using Murabond PVA adhesive.

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)								Flame spread 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	60
--	--	--	--	--	--	--	--	60	60	60
--	--	--	--	--	--	--	--	60	60	60
--	--	--	--	--	--	--	--	60	60	60
--	--	--	--	--	--	--	--	60	60	60
--	--	--	--	--	--	--	--	60	60	60



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Classification

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

Uncertainty of measurement has not been taken into account when presenting the test result. The relevant uncertainty value is included as an annex which forms an integral part of the report.

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

Countersigned by:.....*P Doherty*..... P Doherty, Executive Manager

Enquiries concerning this report should be addressed to Customer Services..



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Uncertainty Budget - Annex

The overall uncertainty budgets for BS 476-7:1987 are as follows:-

BS 476-7:1987

Overall: $\pm 20\%$



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