Confidential Report

Our Ref: 27/05298/03/20

ilac-MRA

UKAS TESTING

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

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

Date: 30 March 2020

Our Ref: 27/05298/03/20
Your Ref:

Client: Gabriel A/S
Hjulmagerve 55
DK-900 Aalborg
Denmark

Job Title: Fire Test on One Sample of Fabric

Client's Order No: 0011463256

Date of Receipt: 03 March 2020

Description of Sample(s): One sample of fabric, reference: Crisp 04031 L.Grey.
Composition: 93% wool/7% polyamide

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

BS 476 Part 7 (adhered)

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 476-7:1987 (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: 27/03/2020

Conditioning

The sample was conditioned to constant mass at a temperature of 23±2°C and a relative humidity of 50±10%.

Procedure

The test was carried out in accordance with BS 476-7:1987. The sample was were supplied by the sponsor of the test. The sample was tested adhered to a 12mm calcium silicate board using a 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) (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			
35	103	--	--	--	--	--	--	170	170	100
33	67	--	--	--	--	--	--	190	200	101
35	--	--	--	--	--	--	--	90	90	90
--	--	--	--	--	--	--	--	70	70	75
27	45	164	210	--	--	--	--	190	270	240
45	75	--	--	--	--	--	--	165	165	90

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Classification

The results indicate the sample meets the performance requirements of Class 2.

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:……23 Marsden…… 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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