



**FIRE
TECHNOLOGY
SERVICES**

Confidential Report

Our Ref: 27/03736B/11/15

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

**Fire Technology Services
A division of BTTG T & C Ltd
Wira House, West Park Ring Road,
Leeds, LS16 6QL**

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18 December 2015

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Client: Kvadrat A/S
Lundbergsvej 10
8400 Ebeltoft
Denmark

Job Title: **Fire Test on One Sample of Fabric**

Clients Order Ref: ---

Date of Receipt: 27 November 2015

Description of Sample: One sample of fabric, referenced: **Crystal Field, 38% New Wool, 53% Cotton, 9% Polyester.**

Work Requested: Fire Technology Services were requested to carry out a fire test on the sample supplied to BS 5852 Part 1 (Sources 0 & 1).





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**STATUTORY INSTRUMENT NO.1324 CONSUMER PROTECTION
THE FURNITURE AND FURNISHINGS (FIRE) (SAFETY) REGULATIONS 1988 SI 1988. No. 1324 (AS
AMENDED BY SI 1989 No. 2358, SI 1993 No. 207 & SI 2010 No. 2205)**

Date of Test: 18/12/2015

Conditioning

Immediately prior to testing the sample was placed in indoor ambient conditions for 72 hours and then conditioned in a standard atmosphere of 20 ±5°C temperature and 50 ± 20% relative humidity for at least 16 hours. The sponsor sampled the material and the specimens were cut from the sample received to the dimensions set out in the standard by FTS.

The sample was tested in a room of volume 25m³ and 21°C.

Procedure

The sample was tested in accordance with Schedule 4 Part I and Schedule 5 Part I of the above regulations.

The specimens were mounted over fillings of standard non-FR polyurethane foam of density about 22Kg/m³.

Tests were made in accordance with BS 5852 part 1 using ignition source 0 and 1

Requirements

Ignition Source 0	No progressive smouldering or flaming within one hour of the placement of the cigarette.
Ignition Source 1	All progressive smouldering and flaming to cease within 120s of removal of the burner tube.

In relation to progressive smouldering for ignition source 1, it has been clarified by the British Standards Institution Committee responsible for the development of BS 5852: Part 1:1979 (CCM/44) that it is necessary to observe test specimens for a period of 15 minutes from the removal of the gas flame in order to determine whether or not the specimen is smouldering progressively.





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Results

The following test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

During testing the following was noted:-

Ignition Source – Cigarette	Specimen 1	Specimen 2
Ignition Time (min)	---	---
Extinction Time (Smouldering) (min)	25	26
Time of Cover Split (min)	DNS	DNS
Melting (Yes or No)	No	No
Dripping (Yes or No)	No	No
Charring (Yes or No)	Yes	Yes
Progressive Smouldering (Yes or No)	No	No
Pass/Fail	Pass	Pass

Ignition Source - Match	Specimen 1	Specimen 2
Ignition Time (s)	8	8
Extinction Time of Flames after Removal of Burner (s)	2	3
Time of Cover Split (s)	DNS	DNS
Melting (Yes or No)	No	No
Dripping (Yes or No)	No	No
Charring (Yes or No)	Yes	Yes
Progressive Smouldering (Yes or No)	No	No
Pass/Fail	Pass	Pass

DNS Material did not split



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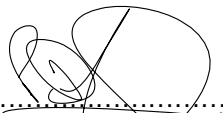
Conclusion

The sample meets the flammability requirements of Schedule 4, Part 1, "The Cigarette Test" of the Furniture and Furnishings (Fire) (Safety) Regulation 1988 (as amended) S.I. No. 1324.

The sample meets the flammability requirements of Schedule 5, Part 1, "The Match Test" of the Furniture and Furnishings (Fire) (Safety) Regulation 1988 (as amended) S.I. No. 1324.

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 (Mrs), Fire Technician

Countersigned by:.....  P Doherty, Operational Head

Enquiries concerning this report should be addressed to Customer Services.





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Uncertainty Budget - Annex

The overall uncertainty budget for BS 5852:Part 1:1979 is as follows:-

Measurements: $\pm 2\text{mm}$
Timings: ± 2 seconds.

