



**FIRE
TECHNOLOGY
SERVICES**

Confidential Report

Our Ref: 27/03686G/10/15

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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Kvadrat A/S

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Client: Kvadrat A/S
Lundbergsvej 10
8400 Ebeltoft
Denmark

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

Clients Order Ref: ---

Date of Receipt: 08 October 2015

Description of Sample: One sample of material, referenced: **Reflex by Raf Simons, 87% new wool, 8% viscose, 5% nylon.**

Work Requested: Fire Technology Services were requested to carry out a fire test on the sample supplied to BS 5852 Part 1:1979 (Sources 0 & 1).





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**STATUTORY INSTRUMENT NO.1324 CONSUMER PROTECTION
THE FURNITURE AND FURNISHINGS (FIRE) (SAFETY) REGULATIONS 1988
(SI No 2358 Amendment 1989)**

Date of Test: 06/11/2015

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 23°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:-

	Source 0		Source 1	
Time of ignition(s)	---	---	8	10
Time of Flame Extinction(s)	31	34	1	1
Time of Smoke Extinction(s)	---	---	---	---
Time of cover split(s)	DNO	DNO	DNO	DNO
Melting (Yes or No)	No	No	No	No
Dripping (Yes or No)	No	No	No	No
Charring (Yes or No)	Yes	Yes	Yes	Yes
Other Phenomena				
Pass / Fail	Pass	Pass	Pass	Pass

DNO Did not observe time of event





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Comments

The specimens were tested after a water soaking procedure specified in BS 5651:1978, except for:

After 30 minutes, the specimen was removed, rinsed in water using a liquor ratio of 1:20 for 2 minutes, and then dried by hanging the fabric until it has dripped dry and then placing back into conditioning as stated above.

The results indicate that the above sample met the performance requirements.

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:..... *A. Shute* A Shute, Fire Technician

Countersigned by:..... *M. NUNNEY* P Doherty, Operational Head

PP M. NUNNEY

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.





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Uncertainty Budget - Annex

The overall uncertainty budget IMO FTP Code 2010:Part 8 is as follows:-

Measurements: $\pm 1\text{mm}$
Timings: $\pm 2\text{ seconds}$

