FIRE
TECHNOLOGY
SERVICES

Confidential Report

Our Ref: 27/03813/02/16

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

Tel No: +44 (0)113 2591999

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BTTG Testing & Certification Ltd.
Wira House
West Park Ring Road
Leeds, LS16 6QL
England

Tel: +44 (0)113 259 1999
Web:http://www.bttg.co.uk
Email:CSLeeds@bttg.co.uk

4 March 2016

Our Ref: 27/03813/02/16
Your Ref:

Client:	Kvadrat A/S Lundbergsvej 10 8400 Ebeltoft Denmark
Job Title:	**Fire Test on One Sample of Fabric**
Clients Order Ref:	---
Date of Receipt:	22 February 2016
Description of Sample:	One sample of fabric, referenced: **Stick Tree, 95% New Wool, 5% Nylon (Embroidery 100% Polyester)**.
Work Requested:	Fire Technology Services were requested to carry out a fire test on the sample supplied to BS 5852 Part 1.

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Kvadrat A/S

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: 04/03/2016

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 25m^3 and 20°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/m^3.

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 within120s 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)	24	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	9
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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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:…… 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:	±2mm
Timings:	±2 seconds.