



**FIRE  
TECHNOLOGY  
SERVICES**

## **Confidential Report**

**Our Ref: 27/03103/04/14**

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

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# FIRE TECHNOLOGY SERVICES

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9 April 2014

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Client: Holdsworth Fabrics Ltd  
Meltham Mills  
Meltham  
West Yorkshire  
HD9 4AY

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

Clients Order Ref: 5307

Date of Receipt: 1 April 2014

Description of Sample: One sample of fabric, referenced: **Blazer Lite, Colour Oat, Colour Code HLTH86, Run/Roll 2084120701**.

Work Requested: Fire Technology Services were requested to carry out a fire test on the sample supplied to BS 476: (stuck down).





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**Holdsworth Fabrics Ltd**

**FIRE TESTS ACCORDING TO BS 476-6:1989+A1:2009**

**Fire tests on building materials and structures. Method of test for fire propagation for products**

**Date of Test: 07/04/14**

**Test Method**

The test was carried out in accordance with BS 476-6:1989+A1:2009.

Prior to testing the sample the calibration of the equipment was determined to ensure compliance with the test limits set out in the standard.

The sponsor sampled the material and the specimens were cut from the sample received to the dimensions set out in the standard by the sponsor. The specimens were tested adhered onto 12mm calcium silicate board. using Murabond Heavy Adhesive.

Temperatures of the flue gases were measured to the nearest degree centigrade at the time intervals and periods set out below, taking zero time as the moment of ignition of the gas supply. The temperature was measured by means of two thermocouples with their measuring junctions located in the cowl of the apparatus as required by the standard.

The relevant temperature-time intervals were observed for each individual specimen and the calibration board according to the ranges 0 to 3 minutes every 30 seconds, 4 to 10 minutes every 1 minute and 12 to 20 minutes every 2 minutes to give 3 time periods.

**Calculation of Results**

At each time interval the temperature of the calibration board was subtracted from that of the individual specimen temperature, this was then divided by ten multiplied by the time interval.

The sum of each individual value in each time period was then calculated to give an index of performance,  $s$ , for each specimen.

The fire propagation index of the product is calculated from the average of the individual  $s$  values for the total number of specimens in each time period.

$$\text{Total } I = i_1 + i_2 + i_3$$

A definitive classification is based on a sample of at least three specimens.





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## Holdsworth Fabrics Ltd

### Requirements

A Class 0 is the highest National product performance classification for lining materials. To meet Class 0 a material has to meet the requirements laid down in the UK Building Regulations 2000, Approved Document B, Appendix A that states that a composite material is either:

- composed throughout of materials of limited combustibility; or
- a class 1 material which has a propagation index ( $I$ ) of not more than 12 and a sub index ( $i_1$ ) of not more than 6 when tested to BS 476 Part 6.

### Results

Number of specimens tested	Sub-index $i_1$	Sub-index $i_2$	Sub-index $i_3$	Total Fire propagation index $I$
3	4.6	5.7	1.2	11.5

### Comments

In our opinion:-

- 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.
- The results indicate that the sample met the requirements of Class 0 of the UK Building Regulations 2000, Approved Document B, Appendix A.
- It should be noted that to meet the BS 476 Part 6 requirements the above material has also to meet Class 1 at BS 476 Part 7.

An estimation of uncertainty of measurement has not been taken into account when making a judgement to any pass/fail criteria.

Reported by:..... R Ryan, Fire Technician

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

Enquiries concerning this report should be addressed to Customer Services.

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