

## FLAMMABILITY TEST REPORT

Report No.: LEHTX00476814      Date Received: 25/02/09      Date Tested: 03/03/09      Date Issued: 03/03/09

**Company Name & Address:** BUTE FABRICS LTD  
4 BARONE ROAD  
ROTHESAY  
ISLE OF BUTE  
PA20 0DP

**Contact Name:** SUZANNE MCGROARTY

**Sample Details**

Order No.: 2849 / 133652  
Customers description: Woven fabric  
Style no.: CF 731  
Quality: Selkirk  
Batch no.: 21005 / 03  
Supplier: Bute  
End Use: Upholstery  
Colour(s) : Red  
Quoted fibre composition: 85% Pure new wool / 15% Nylon  
Fabric type: Woven  
Sample description: Red coloured woven fabric

Test Method	Pre Treatment	Requirement	Result
BS 5852: 2006 Clause 11 (Upholstery Composite) Ignition source 5 (Crib 5)	Watersoaked as Annex E of BS 5852:2006	BS 5852: 2006 Clause 11 (Upholstery Composite) Ignition source 5 (Crib 5)	NI/5 (PASS)
The upholstery composite tested meets the performance requirements for resistance to ignition as detailed in the Medium Hazard (Crib 5 only) category of Table 1 in Clause 4 of BS 7176: 2007.			

**Note:** The customer requested that CMHR foam with an approximate density 35 kg/m<sup>3</sup> be used as the filling material

**Sampling and frequency of testing**

Each upholstery composite shall be tested in accordance with the relevant tests identified in Table 1 for the appropriate hazard category every 2 500 units produced or once per month. Retesting shall be carried out where there is any major basic alteration to a furniture specification (e.g. of fibre content, construction, flame-retardant finish or mass per unit area of fabric, density or type of filling or change of materials manufacturer). Changes in the colour (where the fabric was flame-retardant finished in the same batch) of the product or minor changes in the pattern or construction, e.g. of the order of 2 picks/cm, shall not be deemed sufficient reason to necessitate retesting.



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STEVEN OWEN  
(Chemical Technologist)

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CAROLE SPOWART  
(Flammability Technician)

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ANDREW WHITE  
(Quality Manager)

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SIMON CHEE  
(Analytical Lab Manager)

## FLAMMABILITY TEST REPORT

### Test Specification

Test method: BS 5852:2006 Clause 11 (upholstery composite) Ignition source 5

### Foam specification

Supplier / grade: Vitafoam / CMHR 35 (As requested by the customer)  
Size: 450 x 450 x 75mm (back) & 450 x 300 x 75mm (seat)  
Density / Hardness: 33-36kg/m<sup>3</sup> / 90-120

### Conditioning

Prior to testing: At least 72 hours in ambient indoor conditions, then at least 24 hours in an atmosphere having a temperature of 23 ± 2°C and a relative humidity of 50 ± 5%

At time of testing: Temperature of 10 °C to 30 °C and a relative humidity of 15 % to 80 %

### Test Results

*"The following test results relate only to the ignitability of the combination of upholstery composites (BS 5852: 2006, Clause 11) under the particular conditions of test stated; they are not intended as a means of assessing the full potential fire hazard of the materials or products in use";*

Test number / position	1		2	
<b>Criterion of ignition</b>				
<b>Smouldering Criteria</b>				
Externally detectable amounts of smoke, heat or glowing 60 minutes after crib ignition	No		No	
Escalating smouldering behaviour rendered the test unsafe to continue and required forcible extinction	No		No	
Smouldering essentially consumed the test specimen within the duration of the test / Smouldering reached the extremities of the test specimen (Other than the top of the vertical part of the test specimen) within the duration of the test	No		No	
<b>Flaming failure</b>				
The test specimen continued to flame for more than 10 minutes after the ignition of the crib	No		No	
Escalating combustion behaviour rendered the test unsafe to continue and required forcible extinction	No		No	
Flaming essentially consumed the test specimen within the duration of the test	No		No	
Flaming reached the extremities of the test specimen (Other than the top of the vertical part of the test specimen) within the duration of the test	No		No	
Debris from the test specimen caused an isolated floor fire that continued to flame for more than 10 minutes after the ignition of the crib	No		No	
<b>Final examination</b>				
Progressive smouldering was observed when the sample was dismantled	No		No	
Evidence of charring within the filling (other than discolouration) more than 100mm in any direction, apart from upwards, from the nearest part of the original position of the ignition source	No		No	
Time to extinction of flames after crib ignition	4 minutes 9 seconds		7 minutes 9 seconds	
Time to extinction of glowing after crib ignition	7 minutes 21 seconds		Due to the position of the crib within the test specimen it was not possible to see when glowing ceased	
Time to extinction of smoke after crib ignition	7 minutes 30 seconds		Due to the amount of smoke in the test enclosure it was not possible to see when smoking ceased	
Maximum extent of damage to back (mm) Length / Width	400	116	400	129
Maximum extent of damage to base (mm) Length / Width	72	103	66	100
<b>Test Result</b>	<b>PASS</b>		<b>PASS</b>	
<b>Ignitability performance index: "Clause 11 NI/5"</b>				