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FLAMMABILITY TEST REPORT

Report No.: LEHTX00593683R retype of report no.: LEHTX00538407 **Date Received:** 29/06/10 **Date Tested:** 05/07/10 **Date Issued:** 05/07/10 **Retype Date**: 22/08/11

Company Name & Address: CAMIRA FABRICS LTD
MELTHAM MILLS
MEELTHAM
WEST YORKSHIRE
HD9 4AY

Contact Name: LOUISE WILSON

Sample Details

Order no.:	33865
Description:	Hemp
Supplier:	Camira
End Use:	Chairs
Style Number:	HWPO0F400
Colour(s) :	Various
Quoted Fibre composition:	Wool / Hemp
Fabric type:	Woven
Sample description:	Orange coloured woven fabric

Test Method	Pre Treatment	Requirement	Result
BS 5852: 2006 Clause 11 (Upholstery Composite) Ignition source 5 (Crib 5)	None	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 RX36100 foam with an approximate density 35 kg/m^3 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.

STEVEN OWEN	~~CAROLE SPOWART~~	~~ANDREW WHITE~~	~~SIMON CHEE~~
(Chemical Technologist)	~~(Flammability Technician)~~	~~(Quality Manager)~~	~~(Analytical Lab Manager)~~

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

Foam specification
Supplier / grade: Carpenter / RX36100 (As requested by the customer)
Size: 450 x 450 x 75mm (back) & 450 x 300 x 75mm (seat)
Density / Hardness: 35-37kg/m^3 / 95-115N

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 ºC to 30 ºC 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**	
Criterion of ignition				
Smouldering Criteria				
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	
Flaming Failure				
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	
Final Examination				
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	3 Minutes 42 Seconds		4 Minutes 53 Seconds	
Time to extinction of glowing after crib ignition	7 Minutes 56 Seconds		8 Minutes 49 Seconds	
Time to extinction of smoke after crib ignition	8 Minutes 11 Seconds		8 Minutes 57 Seconds	
Maximum extent of damage to back (mm) Length / Width	400	96	400	89
Maximum extent of damage to base (mm) Length / Width	64	114	55	126
Test Result	**Pass**		**Pass**	
Ignitability performance index: "Clause 11 NI/5"				