

**FLAMMABILITY TEST REPORT**

**Report No.:** LEHTX00539705    **Date Received:** 07/07/10    **Date Tested:** 13/07/10    **Date Issued:** 13/07/10

**Company Name & Address:** FLAMENTEK LIMITED  
FIRE PREVENTION CONSULTANTS  
FOX FARMHOUSE  
SHADINGFIELD  
BECCLES  
SUFFOLK  
NR34 8DD

**Contact Name:** DONNA BARBER

**Sample Details**

Sample quality / Colour: Steelcut Trio  
Job reference number: KV0051.10  
End Use: Non-domestic Upholstery  
Supplier: Kvadrat A/S  
Quoted fibre composition: 90% New Wool, 10% Nylon  
Customers sample description: Woven fabric treated with Duraflam® flame retardant formulation by Fabric Flare Limited  
Sample description: Brown coloured fabric with a flame retardant coating

| Test Method  | Pre Treatment                                | Requirement  | Result      |
|--|--|--|-------------|
| BS 5852:2006<br>Clause 11 (upholstery composite)<br>Ignition source 5  | Watersoaked as<br>Annex E of<br>BS 5852:2006 | As BS 5852:2006<br>Clause 11 (upholstery composite)<br>Ignition source 5 | NI/5 (PASS) |
| <b>Note:</b> The customer requested that the test be carried out over CMHR foam with an approximate density 35 kg/m <sup>3</sup> |  |  |             |



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(Chemical Technologist)

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## FLAMMABILITY TEST REPORT

### Filling Specification

Filling type: Polyurethane foam  
Supplier / grade: Carpenter / RX36100 (As requested by the customer)  
Size: Source 5: 450 x 450 x 75mm (back) & 450 x 300 x 75mm (seat)  
Density / Hardness: 35-37kg/m<sup>3</sup> / 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 °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";*

| Pass / Fail Criteria   | Initial test         | Repeat test          |
|--|----------------------|----------------------|
| <b>Progressive smouldering failure</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 48 Seconds | 4 Minutes 23 Seconds |
| Time to extinction of glowing after crib ignition  | 8 Minutes 26 Seconds | 8 Minutes 17 Seconds |
| Time to extinction of smoke after crib ignition  | 8 Minutes 37 Seconds | 8 Minutes 24 Seconds |
| Maximum extent of damage to back (mm) Length / Width   | 400 / 63             | 400 / 72             |
| Maximum extent of damage to base (mm) Length / Width   | 59 / 71              | 63 / 78              |
| <b>Test Result</b>   | <b>NI/5 (PASS)</b>   |                      |
| <b>Ignitability performance index: "Clause 11 NI/5"</b>  |                      |                      |