

## FLAMMABILITY TEST REPORT

**Report Ref:** 293631/04    **Date Received :** 22/11/04    **Date Tested:** 24/11/04    **Date Issued:** 24/11/04

**Company Name & Address:** HILDEN GROUP  
 GROUP Q/C AND TESTING DEPT.  
 WOODNOOK MILL  
 MOUNT STREET  
 ACCRINGTON  
 LANCs.  
 BB5 0PP

**Contact Name:** MIKE LEEMING / PETER SMITH

**Fabric Details**

Order no.: Not stated  
 Style no.: Stamford  
 Quality: 12060  
 Batch no.: WIP 47384 / LOT 300837  
 Colour(s) : Black / white stripe  
 Supplier: Not stated  
 Retailer: Not stated  
 Buying division: Not stated  
 End use: Mattress ticking  
 Fibre composition: Not stated  
 Fabric type: Woven  
 Sample description: 1 piece of black / white coloured woven stripe fabric with a flame retardant finish

Test Method	Pre Treatment	Result
BS EN 597-1:1995 (Smouldering Cigarette)	None	<b>Complies</b>
BS EN 597-2: 1995 (Match Flame Equivalent)	None	<b>Complies</b>
BS 6807: 1996 Section 2 (Ignition source 5)	None	<b>Complies</b>
BS 7177: 1996 Medium Hazard	None	<b>Complies</b>

**Please note:** The ticking fabric was tested as a composite over a combustion modified foam block (CMHR 35) at the request of the customer. The results of this test are only intended to provide an indication to the flammability performance of the fabric. To gain full compliance with this standard the test specimen should be representative of the components and make-up of the finished mattress, mattress pad or upholstered bed base.

..... KRISTIAN LEE (Flammability Technician)	..... <del>STEVEN LINDLEY</del> (Flammability Technician)	..... SIMON CHEE (Area Leader)	..... ANDREW WHITE (Quality Manager)
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### Test Specification

Test method BS EN 597-1: 1995, BS EN 597-2: 1995 and BS 6807: 1996 Section 2 (Ignition source 5) as required by BS 7177: 1996 Medium Hazard

Criterion of ignition: BS EN 597-1: 1995: Calibrated Senior Service cigarette.  
BS EN 597-2: 1995: Butane Gas flowing at 45±2ml/min @ 25°C for 15±1 seconds  
BS 6807: 1996 Source 5: Pine wood crib size 5

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### Filling Specification (as requested by the customer)

Filling type: Polyurethane foam  
Supplier / grade: Vitafoam / CMHR 35 (As requested by the customer)  
Size: 450 x 450 x 75mm  
Density / Hardness: 35 kg/m<sup>3</sup> / 90-120

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### Pre-treatment / Durability procedure

None

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### Conditioning

Prior to testing: At least 16 hours in an atmosphere having a temperature of 23±2°C and a relative humidity of 50±5%

At time of testing: Temperature between 15°C & 30°C. Relative humidity between 15% & 80%

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## FLAMMABILITY TEST REPORT

**Test Results**

**BS EN 597-1: 1995 Smouldering cigarette**

Test Number	1		2	
<b>Criterion of ignition</b>				
<b>Smouldering Criteria</b>				
Unsafe escalating combustion	No		No	
Test assembly consumed	No		No	
Smoulders through thickness	No		No	
Smoulders more than 1 hour	No		No	
More than 50mm from source	No		No	
<b>Flaming criteria</b>				
Occurrence of flames	No		No	
<b>Comments</b>				
Flaming ceased	-	-	-	-
Smoke ceased	12 Minutes	10 Seconds	12 Minutes	5 Seconds
Glow ceased	12 Minutes	15 Seconds	12 Minutes	10 Seconds
Extent of damage	Length 63mm	Width 10mm	Length 63mm	Width 12mm
<b>Result (Ignition/Non Ignition)</b>	<b>Non Ignition</b>		<b>Non Ignition</b>	
<i>The above test results relate only to the ignitability of the combination of the materials under the particular conditions of test: they are not intended as a means of assessing the full potential fire hazard of the mattress, mattress pad or upholstered bed base in use.</i>				

**BS EN 597-2 Match flame equivalent**

Test Number	1		2	
<b>Criterion of ignition</b>				
<b>Smouldering Criteria</b>				
Unsafe escalating combustion	No		No	
Test assembly consumed	No		No	
Smoulders through thickness	No		No	
Smoulders more than 1 hour	No		No	
More than 50mm from source	No		No	
<b>Flaming criteria</b>				
Test assembly consumed	No		No	
Unsafe escalating combustion	No		No	
Burning through thickness or to the extremities	No		No	
Flaming for more than 120 seconds	No		No	
<b>Comments</b>				
Flaming ceased	0 Minutes	0 Seconds	0 Minutes	0 Seconds
Smoke ceased	0 Minutes	0 Seconds	0 Minutes	0 Seconds
Glow ceased	0 Minutes	0 Seconds	0 Minutes	0 Seconds
Extent of damage	Length 19mm	Width 15mm	Length 18mm	Width 16mm
<b>Result (Ignition/Non Ignition)</b>	<b>Non Ignition</b>		<b>Non Ignition</b>	
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## FLAMMABILITY TEST REPORT

**Test Results**

**Ignition source 5 placed at position 5T (on top of the specimen)**

Test Number	1		2	
<b>Criterion of ignition</b>				
<b>Smouldering Criteria</b>				
Unsafe escalating combustion	No		No	
Test assembly consumed	No		No	
Smoulders through thickness	No		No	
Smoulders more than 1 hour	No		No	
More than 100mm from source	No		No	
<b>Flaming criteria</b>				
Test assembly consumed	No		No	
Burning through thickness or to the extremities	No		No	
Flaming for more than 10 minutes	No		No	
Flaming debris causing isolated floor fire	No		No	
<b>Comments</b>				
Flaming ceased	3 Minutes	15 Seconds	3 Minutes	17 Seconds
Crib glowing ceased	7 Minutes	31 Seconds	7 Minutes	30 Seconds
<b>Result (Ignition/Non Ignition)</b>	<b>Non Ignition</b>		<b>Non Ignition</b>	

**Ignition source 5 placed at position 5B (below the specimen)**

Test Number	1		2	
<b>Criterion of ignition</b>				
<b>Smouldering Criteria</b>				
Unsafe escalating combustion	No		No	
Test assembly consumed	No		No	
Smoulders through thickness	No		No	
Smoulders more than 1 hour	No		No	
More than 100mm from source	No		No	
<b>Flaming criteria</b>				
Test assembly consumed	No		No	
Burning through thickness or to the extremities	No		No	
Flaming for more than 10 minutes	No		No	
Flaming debris causing isolated floor fire	No		No	
<b>Comments</b>				
Flaming ceased	3 Minutes	37 Seconds	3 Minutes	49 Seconds
Crib glowing ceased	6 Minutes	15 Seconds	6 Minutes	31 Second
<b>Result (Ignition/Non Ignition)</b>	<b>Non Ignition</b>		<b>Non Ignition</b>	

*The above test results relate only to the ignitability of the combination of the materials under the particular conditions of test: they are not intended as a means of assessing the full potential fire hazard of the mattress, mattress pad or upholstered bed base in use.*

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### Conclusions

When tested with the modifications as detailed on page 1 of this test report the sample meets the requirements of BS EN 597-1:1995 (Smouldering cigarette) **PASS.**

When tested with the modifications as detailed on page 1 of this test report the sample meets the requirements of BS EN 597-2:1995 (Match Equivalent). **PASS.**

When tested with the modifications as detailed on page 1 of this test report the sample meets the requirements of BS 6807: 1996 Section 2 Ignition source 5 at both position 5T (on top of the specimen) and position 5B (below the specimen). **PASS.**

When tested with the modifications as detailed on page 1 of this test report the sample meets the requirements of BS 7177: 1996 Medium Hazard. **PASS.**



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