



# LABORATORY

## No.03/2777Z

(Please quote this number in all correspondence)

CLIENT:  
Cavalier Bremworth Limited  
P O Box 97 040  
Papatoetoe  
AUCKLAND

SAMPLE RECEIVED FROM:  
Cavalier Bremworth Limited

Date: 05/01/04

SAMPLE DESCRIPTION:  
One carpet :-  
550 -Loop pile 100% wool

Attn: A M Bergman

Client Order No.:3356

Client Reference:

1/2

### BS EN ISO 9239-1:2002(E) REACTION TO FIRE TESTS FOR FLOORINGS. ( AS ISO 9239.1 – 2003 )

#### Part 1. Determination of the burning behaviour using a radiant heat source.

These test results relate only to the behaviour of the product under the particular conditions of the test, and they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

**Conditioning (EN 13238) :** Constant weight @ 50±5 %RH, 23±2°C.

#### Test Conditions :

Test date: 12/02/04

Pilot flames from line burner.

Substrate:- 4.5mm cement board.

Assembly System:- Direct stuck using Flor-cryl (acrylic vinyl and carpet adhesive.)

Sampling :- Test samples cut from sample as supplied.

**Results:** After cleaning in accordance with ISO 11379 Laboratory Cleaning Procedure - using spray extraction.

Warp direction, initial test – Critical Heat Flux (CHF) = 7.8kW/m<sup>2</sup>.

Weft direction, initial test – Critical Heat Flux (CHF) = 7.0 kW/m<sup>2</sup>.

Weft direction	CHF (At flame out)	Test Duration (At flame out)	Heat flux kW/m <sup>2</sup> at		
			10 min	20 min	30 min
Specimen 1 =	7.0 kW/m <sup>2</sup>	6 minutes			
Specimen 2 =	7.2 kW/m <sup>2</sup>	4 minutes			
Specimen 3 =	6.2 kW/m <sup>2</sup>	4 minutes			

$$\bar{x} = 6.8 \text{ kW/m}^2$$

Observations: Singed and ignited

L A Greer, Testing Manager  
Signatory

17/07/2006

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**BS EN ISO 9239-1:2002(E) REACTION TO FIRE TESTS FOR FLOORINGS.**  
( AS ISO 9239.1 – 2003 )**Appendix A Smoke Measurement**

Specimen	Direction of test	maximum %	% x min.
Initial Test	Warp	13.2	11
1	Weft	14.6	20
2	Weft	19.9	31
3	Weft	20.1	14
Average of 3 samples (1 to 3)			
		18.2	22

L A Greer, Testing Manager  
Signatory

17/07/2006