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TEST REPORT No. 0070996

LABORATORY REF: P070996

CUSTOMER REFERENCE

## PLAYGROUND

Sample description as provided by customer

Mass/Unit area 28 oz/yd<sup>2</sup> g/m<sup>2</sup> Pile Fibre Content 100% SOLUTION DYED DYCLON

Construction Details Tufted Secondary Backing Synthetic

Style L LEVEL LOOP

Order No. 10213

Colour Blue

Pile Height 4.5 mm

**TEST METHOD AS/ISO 9239.1 2003 Reaction To Fire Tests For Floorings Part 1 Determination of the Burning Behaviour Using a Radiant Heat Source. As required by specification C1.10a of the Building Code of Australia.**

*Tested in accordance with the Carpet Institute Code of Practice for AS/ISO 9239 Testing Version 10 / 0805.*

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test, they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use. Clause 9 of AS/ISO 9239 Part 1

Conditioning as specified in BS EN 13238.2001

Sample submitted Date December 2006

Test Date 16/1/2007

## ASSEMBLY SYSTEM DIRECT STICK details below.

The floor covering was directly stuck to the substrate using ROBERTS 95 SF adhesive.

Substrate : Non-combustible

Substrate - 6mm Fibre Reinforced Cement Board to simulate a Non-Combustible Flooring.

Sample Cleaned as Specified in ISO 11379.1997

Initial Test Specimen 1 Length Direction Critical Radiant Flux 2.4 kW/m<sup>2</sup>  
Specimen 1 Width Direction Critical Radiant Flux 2.3 kW/m<sup>2</sup>  
Full tests carried out in the Width Direction


SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m <sup>2</sup> )	2.3	2.1	2.1	2.2
Smoke Development Rate (%.min)	327	409	325	354

*The values quoted below are as required by Specification C1.10a Fire Hazard Properties (Floors) of the Building Code of Australia. The Critical Radiant Flux quoted is the value at Flame-Out.*

### MEAN CRITICAL RADIANT FLUX 2.2 kW/m<sup>2</sup>

### MEAN SMOKE DEVELOPMENT RATE 354 %.min

OBSERVATIONS The sample melted away from the heat source then ignited

 <b>NATA</b> ACCREDITED FOR TECHNICAL COMPETENCE	Authorised Signatory M. B. Webb Date 16/1/2007
	NATA Reg. No. 15393 Heat and temperature measurement.

PAGE 1 of 2

Page 2 only shows the time required in seconds for the flame front to reach each time marker, the total test time and the CHF value at 30 minutes (if applicable).

*The laboratory allows the use of this page of the report without the use of page 2.*

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**Pyrometer temperature**  
 On calibration 535.9 °C  
 Start of test run 535.8  
 End of test run 533.7

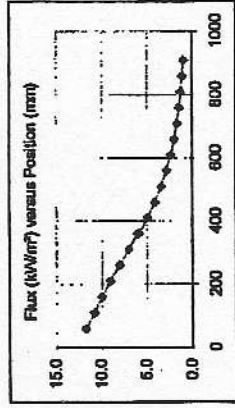
**Chamber temperature**  
 On calibration 96.6 °C  
 Start of test run 97.0  
 End of test run 97.6

**Clause 7.2.2 AS/ISO 9239** The pyrometer should be ± 5° of calibration temperature.  
 The Chamber temperature should be ± 10° of calibration temperature  
 The Holding Tension on Specimen Frame was 1 Nm

**TIME FOR EACH SPECIMEN TO REACH EACH MARKER IN SECONDS**

Specimen	50	60	110	160	210	260	310	360	410	460	510	560	610	660	710	760	810	860
1	158	201	359	403	483	500	576	655	882	1017	1381	1381	1970					
2	159	235	395	400	430	510	567	693	963	999	1207	1368	2109					
3	169	207	280	389	429	564	630	691	834	939	1123	1324	2347					

**FLUX CALIBRATION: FLX07001**



**TESTS**

	SMOKE PRODUCTION				BURNING CHARACTERISTICS			
	Maximum Light Attenuation (%)	Smoke Development Rate (%.min)	Burn Length at Flame Out (mm)	Time To Burn Out (s)	Critical Heat Flux at 30min (kW/m²)			
Initial Test: Length	43	387	615	2,790	2.4			
Specimen Tests: Width								
1	41	327	620	2,771	2.4			
2	47	409	635	2,911	2.5			
3	37	325	635	3,038	2.6			
Mean	42	354	630	2,907	2.5			



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**TECHNICAL  
 COMPETENCE**

NATA Reg. No. 15393

Heat and temperature measurement.

Authorised Signatory

**M B Webb**

Date 16/1/2007