

CUSTOMER REFERENCE

NEUTRON

Sample description as provided by customer

Order No. **APL 2C**

Mass/unit area oz/yd² **730** g/m² Pile Fibre Content **100% STRATRON SDNYLON**

Construction Details **Tufted** Secondary Backing **Bitumen**

Colour **Black/Grey**

Style **Loop**

Pile Height **4 mm**

The samples tested were **MODULAR CARPET**

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 **21/2/2007**

Test Date **7/3/2006**

ASSEMBLY SYSTEM DIRECT STICK details below.

The floor covering was directly stuck to the substrate using a WATER BASED PRESSURE SENSITIVE 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 **7.1 kW/m²**
Specimen 1 Width Direction Critical Radiant Flux **6.8 kW/m²**
Full tests carried out in the **Width** Direction

SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m ²)	6.8	7.8	7.9	7.5
Smoke Development Rate (%.min)	483	355	408	415

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 7.5 kW/m²

MEAN SMOKE DEVELOPMENT RATE 415 %.min

OBSERVATIONS **The samples melted away from the heat source then ignited**

 ACCREDITED FOR TECHNICAL COMPETENCE	Authorised Signatory M. B. Webb Date 8/3/2007	
	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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TEST REPORT No. 23686.33
LABORATORY REF: P071059/3

THE INFORMATION PROVIDED ON THIS PAGE OF THE TEST REPORT IS FOR THE SPONSORS USE ONLY AND WILL MEET THE REQUIREMENTS OF THE STANDARD. IT IS NOT REQUIRED UNDER CLAUSE C1.10A OF THE BUILDING CODE OF AUSTRALIA

Pyrometer temperature
 On calibration 535.9 °C
 Start of test run 534.2
 End of test run 535.1

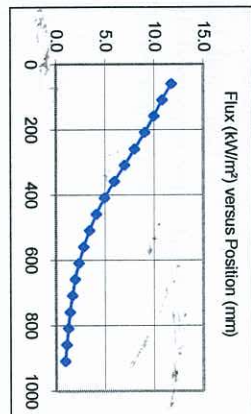
Chamber temperature
 On calibration 96.6 °C
 Start of test run 95.2
 End of test run 95.4

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	170	178	293	379	521	607	741	/											
2	169	173	320	396	512	887	/												
3	193	211	325	429	512	927	/												

FLUX CALIBRATION: FLX07001



TESTS

Specimen	Initial Test: Length	Specimen Tests: Width	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)			
1			73	434	307	1,235	-0.0			
2			71	483	320	1,244	(n/a)			
3			66	355	270	1,100	(n/a)			
Mean			66	408	265	1,096	(n/a)			
			68	415	285	1,147				

PAGE 2 of 2


The laboratory does not allow the use of this page of the report without the use of page 1.
 This page alone has no validity under specification C1.10a Fire Hazard Properties (Floors) of the Building Code of Australia.

2001 01 06 7943

APL Australia Pty Ltd
 5 Carinish Rd, Oakleigh South
 Victoria 3167 Australia

Telephone: 03 9543 1618
 Facsimile: 03 9562 1818
 Mobile: 0411 039 088

Email: apl@aplaustralia.com.au
 Web: www.aplaustralia.com.au
 ABN 69 468 849 319



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 COMPETENCE

NATA Reg. No. 15393
 Heat and temperature measurement.
 Authorised Signatory
M B Webb
 Date 8/3/2007

