



Att Mr John Millard
 m/s ICON CARPETS Pty Ltd,
 255 York St, Subiaco 6008 Western Australia

TEST REPORT No. 082505

LABORATORY REF: P082565

CUSTOMER REFERENCE

CHALLENGE CARPET TILES

Sample description as provided by customer

Mass/unit area oz/yd² 600/650 g/m²

Solution Dyed POLYPROPYLENE

Construction Details Tufted Secondary Backing PVC Fibreglass Reinforced

Style Multi Level Loop

Order No. JM

Pile Fibre Content 100% BCF

Colour Fawn

Pile Height 4/6 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 9/2/2008

Test Date 28/2/2008

ASSEMBLY SYSTEM DIRECT STICK details below.

The floor covering was directly stuck to the substrate using a WATER BASED SURFACE CONTACT 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 1.4 kW/m²
 Specimen 1 Width Direction Critical Radiant Flux 1.4 kW/m²
 Full tests carried out in the Width Direction


SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m ²)	1.4	1.3	1.5	1.4
Smoke Development Rate (%.min)	532	541	548	540

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 1.4 kW/m²

MEAN SMOKE DEVELOPMENT RATE 540 %.min

OBSERVATIONS The samples shrunk away from the heat source the ignited



Authorised Signatory M. B. Webb
 Date 28/2/2008

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 537.9
End of test run 539.7

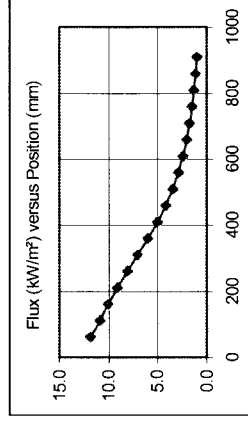
Chamber temperature
On calibration 96.6 °C
Start of test run 86.9
End of test run 90.4

Clause 7.2.2 AS/ISO 9239 The pyrometer should be $\pm 5^\circ$ of calibration temperature.
The Chamber temperature should be $\pm 10^\circ$ of calibration temperature
The Holding Tension on Specimen Frame was 2 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	164	227	244	299	332	382	413	619	640	852	1251	1592	1824	2231	3728	/	
2	175	184	229	259	286	351	394	488	643	781	949	1296	1639	1908	2398	3386		
3	179	187	239	267	302	344	397	534	619	774	978	1210	1616	1985	2333	/		

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	71	547	759	3,328	2.0				
Specimen Tests: Width									
1	79	532	760	3,731	2.0				
2	75	541	811	3,561	2.0				
3	79	548	740	2,740	2.1				
Mean	78	540	770	3,344	2.0				