

CUSTOMER REFERENCE  
**OPTIMIZE**

Sample description as provided by customer

Mass/unit area **15 oz/yd<sup>2</sup>**

Construction Details **Tufted** Secondary Backing **Tile PVC Backing**

Style **Loop Pile**

**The Samples Tested Were Modular Carpet WITH PVC BACKING**

Order No. **CT 1301**

Pile Fibre Content **100% SOLUTION DYED NYLON**

Colour **Fawn Shades**

Pile Height / 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 C1.10 of the Building Code of Australia.**

The test values 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. Clause 9 of AS/ISO 9239 Part 1.

Conditioning as specified in BS EN 13238.2001

Sample submitted Date **Oct 2013**

Test Date **21 Nov 2013**

**ASSEMBLY SYSTEM: DIRECT STICK Water Based Surface Contact Adhesive**

The floor covering was directly stuck to the substrate using **Water Based Surface Contact Adhesive**.

Substrate: **Non-Combustible**

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

The Holding Torque on Specimen Frame was **2Nm**.

Initial Test Specimen 1 Length Direction Critical Radiant Flux **9.0 kW/m<sup>2</sup>**  
Specimen 1 Width Direction Critical Radiant Flux **5.0 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> )	<b>5.0</b>	<b>9.0</b>	<b>5.3</b>	<b>6.4</b>
Smoke Development Rate (%.min)	<b>305</b>	<b>119</b>	<b>261</b>	<b>228</b>

The values quoted below are as required by Specification C1.10 Fire Hazard Properties (Floors) of the Building Code of Australia. The Critical Radiant Flux quoted is the value at Flame-Out/Extinguishment (BCA General Provisions A1.1).


**MEAN CRITICAL RADIANT FLUX 6.4 kW/m<sup>2</sup>**

**MEAN SMOKE DEVELOPMENT RATE 228 percent-minutes**

OBSERVATIONS: **The samples shrunk away from the heat source ignited and burnt a short distance**



**M. B. Webb**  
Technical Manager  
DATE: 21 Nov 2013  
Performance & Approvals  
Testing No. 15393  
Accredited for compliance with ISO/IEC 17025.



PAGE 1 of 2

Clause 9 of AS/ISO 9239 Part 1


The values on Page 2 have no relevance to the Code.

1004 04 09


**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	219	220	363	459	635	845	928	1317	/									
2	226	227	288	395	804	/												
3	309	311	367	428	872	1078	1331	1693	/									

Specimen	BURNING CHARACTERISTICS		SMOKE PRODUCTION	
	Burn Length (mm) at Flame Out/ Extinguishment	Time To Burn Out (s)	Maximum Light Attenuation (%)	Smoke Development Rate (%.min)
Initial Test: <b>Length</b>	210	803	38	145
Specimen Tests: <b>Width</b>				
1	400	1,946	34	305
2	210	872	35	119
3	385	2,511	36	261
<b>Mean</b>	332	1,776	35	228



ACCREDITED FOR  
**TECHNICAL  
COMPETENCE**



**M. B. Webb**  
Technical Manager

DATE: 21 Nov 2013

Performance and Approvals  
 Testing No. 15393  
 Accredited for compliance  
 with ISO/IEC 17025.

*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 Clause 9 of AS/ISO 9239 Part 1  
 2004 04 09 13315 18 November 2013