

CUSTOMER REFERENCE

## LIGHT SPEED

Sample description as provided by customer

Mass/unit area **22 oz/yd<sup>2</sup>**  
 Construction Details **Tufted** Secondary Backing **Tile Bitumen Backing**  
 Style **Loop Pile**  
 THE SAMPLES TESTED WERE MODULAR CARPET

Order No. **MC**  
 Pile Fibre Content **100% NYLON**  
 Colour **Various**  
 Pile Height **3 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 **Sep 2014**

Test Date **12 September 2014**

### ASSEMBLY SYSTEM: DIRECT STICK (Details Below).

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 **9.5 kW/m<sup>2</sup>**  
 Specimen 1 Width Direction Critical Radiant Flux **8.5 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>8.5</b>	<b>8.1</b>	<b>7.5</b>	<b>8.0</b>
Smoke Development Rate (%.min)	<b>253</b>	<b>292</b>	<b>239</b>	<b>261</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 8.0 kW/m<sup>2</sup>

## MEAN SMOKE DEVELOPMENT RATE 261 percent-minutes


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



**M. B. Webb**  
 Technical Manager

DATE: 12/9/2014

Performance & Approvals  
 Testing No. 15393  
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Clause 9 of AS/ISO 9239 Part 1


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

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**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	157	159	228	413	537	/												
2	220	221	328	391	488	579	/											
3	185	186	228	383	456	605	/											

TESTS	BURNING CHARACTERISTICS		SMOKE PRODUCTION		
	Specimen	Burn Length (mm) at Flame Out/ Extinguishment	Time To Burn Out (s)	Maximum Light Attenuation (%)	Smoke Development Rate (%.min)
Initial Test: <b>Length</b>		190	945	41	171
Specimen Tests: <b>Width</b>					
1		240	1,860	61	253
2		260	965	72	292
3		290	775	63	239
Mean		263	1,200	65	261



ACCREDITED FOR  
**TECHNICAL  
COMPETENCE**



**M. B. Webb**  
Technical Manager

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*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

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