

CUSTOMER REFERENCE

## CROSSFIRE

Sample description as provided by customer

Mass/unit area **630 g/m<sup>2</sup>**  
Construction Details **Tufted** Secondary Backing Modified Bitumen  
Style **Loop Pile**  
The Samples Tested Were **Modular Carpet with Modified Bitumen**

Order No. **PS**  
Pile Fibre Content **100% SOLUTION DYED NYLON**  
Colour **Charcoal/Grey**  
Pile Height **2.5-5.5 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 C1.10 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 **Jul 2014**

Test Date **11 Jul 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 **8.6 kW/m<sup>2</sup>**  
Specimen 1 Width Direction Critical Radiant Flux **8.8 kW/m<sup>2</sup>**  
Full tests carried out in the **Length** Direction



SPECIMEN	Length #1	Length #2	Length #3	Mean
Critical Radiant Flux (kW/m <sup>2</sup> )	<b>8.6</b>	<b>5.8</b>	<b>6.0</b>	<b>6.8</b>
Smoke Development Rate (%.min)	<b>235</b>	<b>331</b>	<b>349</b>	<b>305</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 **6.8 kW/m<sup>2</sup>**

### MEAN SMOKE DEVELOPMENT RATE **305 percent-minutes**

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

 ACCREDITED FOR <b>TECHNICAL COMPETENCE</b>	<b>M. B. Webb</b> Technical Manager	
	DATE: 11/7/2014	
	Performance & Approvals Testing No. 15393	
	Accredited for compliance with ISO/IEC 17025.	

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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	253	255	414	566	686	/												
2	284	285	317	378	488	583	877	1014	/									
3	232	232	298	360	530	628	889	/										

**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>Width</b>	220	817	48	179
Specimen Tests: <b>Length</b>				
1	230	914	44	235
2	360	1,110	53	331
3	350	1,105	59	349
<b>Mean</b>	313	1,043	52	305



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COMPETENCE**

**M. B. Webb**  
Technical Manager

DATE: 11 Jul 2014

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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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