

## AMPLIFIER ( BEATS / ECHO )

Sample description as provided by customer

Pile weight mass/unit area 510 g/m<sup>2</sup>

Construction Details Tufted Secondary Backing B2 Hard Backing

Style Loop Pile

The Samples Tested Were Modular Carpet Dimensions 500 mm X 500 mm

Order No. PO 6700573886

Pile Fibre Content 100% SOLUTION DYED NYLON

Colour Grey/Charcoal

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 the Building Code of Australia (BCA) and National Construction Code 2015 (NCC) specifications C1.10. Sample conditioning as specified in BS EN 13238.2010.

Sample Submitted Date Nov 2017

Test Date 15 Nov 2017

Total Thickness mm

### Assembly System: DIRECT STICK (Details Below).

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

Substrate: Non-Combustible - 6mm Fibre Reinforced Cement Board to simulate a Non-Combustible Flooring. The Holding Torque on Specimen Frame was 2Nm.

The standard requires two Initial Tests be conducted on samples mounted in both Length and Width directions. Two further samples are then tested in whichever direction has the lowest Critical Radiant Flux.

Initial Tests: Length Direction Critical Radiant Flux 4.8 kW/m<sup>2</sup>  
Width Direction Critical Radiant Flux 4.6 kW/m<sup>2</sup>

	Specimen Tests conducted in the Width Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m <sup>2</sup> )	4.6	4.6	4.8	4.7
Smoke Development Rate (%.min)	106	110	125	114

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

Mean Critical Radiant Flux **4.7** kW/m<sup>2</sup>

Mean Smoke Development Rate **114** %.min

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

AS.ISO 9239.1 Clause 9(o) 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.

All information required for compliance with the BCA and NCC is given on this test report page.

<p>ACCREDITED FOR <b>TECHNICAL COMPETENCE</b></p>	<p><b>M. B. Webb</b> Technical Manager</p>	
	<p>DATE: 15 Nov 2017</p>	
	<p>Performance &amp; Approvals Accreditation No. 15393</p>	
	<p>Accredited for compliance with ISO/IEC 17025.</p>	

**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	221	223	352	460	580	657	757	1228	1639	/								
2	210	212	262	339	454	507	778	1025	1428	/								
3	193	194	239	299	381	502	782	1063	1683									

**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: Length	410	1,652	42	115
Specimen Tests: Width				
1	430	1,732	37	106
2	430	1,851	41	110
3	412	1,752	38	125
Mean	424	1,778	39	114



ACCREDITED FOR  
**TECHNICAL  
COMPETENCE**

**M. B. Webb**  
Technical Manager

DATE: 15 Nov 2017

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

2004 04 09 11332 16 November 2017