

BRIGADE

Sample description as provided by customer

Pile weight mass/unit area **28 oz/yd²**

Construction Details **Tufted Secondary Backing Synthetic**

Style **Loop Pile**

Order No. **AR**

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

Colour **DARK LEATHER**

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 **Mar 2018**

Test Date **01 Apr 2018**

Total Thickness **7.0 mm**

Assembly: **DOUBLE BOND (DOUBLE STICK) DUNLOP TECHNICS 5**

The underlay used was **DUNLOP TECHNICS 5** it was adhered to the substrate using **ROBERTS 656** adhesive. The floor covering was adhered to the underlay using **ROBERTS 95** 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 **2.3 kW/m²**
Width Direction Critical Radiant Flux **2.2 kW/m²**

	Specimen Tests conducted in the Width Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m ²)	2.2	2.5	2.2	2.3
Smoke Development Rate (%.min)	416	406	399	407

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 2.3 kW/m²

Mean Smoke Development Rate 407 %.min

Observations: **The samples shrunk away from the heat source, ignited and burnt.**

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.

 <small>ACCREDITED FOR TECHNICAL COMPETENCE</small>	M. B. Webb Technical Manager	
	DATE: 01 Apr 2018	
	Performance & Approvals Accreditation No. 15393	
	Accredited for compliance with ISO/IEC 17025.	

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	204	204	260	304	351	376	412	499	634	967	1224	1586	2204			0	0	
2	165	165	277	292	310	348	408	447	603	938	1203	2450				/		
3	168	170	283	349	382	443	489	539	661	894	1317	1842	2397					

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	600	2,295	76	375
Specimen Tests: Width				
1	610	2,309	78	416
2	590	2,718	80	406
3	610	2,425	81	399
Mean	603	2,484	80	407




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Technical Manager

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