

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. **24427**
 Pile Fibre Content **100% SOLUTION DYED NYLON**
 Colour **Fawn/Grey**
 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 **Sep 2017** Test Date **27 June 2015** Total Thickness **mm**

Assembly System: OVER UNDERLAY DUNLOP EXCELLAY

The UNDERLAY used was **DUNLOP EXCELLAY**.

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 **2.4 kW/m²**
Width Direction Critical Radiant Flux **2.4 kW/m²**

	Specimen Tests conducted in the Length Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m ²)	2.4	2.3	2.2	2.3
Smoke Development Rate (%.min)	196	229	197	207

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 207 %.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.



M. B. Webb
 Technical Manager

DATE: 27 June 2015

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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	226	228	284	297	310	334	361	394	423	688	1147	1655						
2	207	209	233	253	322	344	405	516	590	997	1399	1997	2626					
3	218	220	248	285	349	369	428	539	603	841	1495	1853	2249					

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: Width	605	2,206	71	203
Specimen Tests: Length				
1	605	1,923	74	196
2	620	2,851	64	229
3	626	2,593	63	197
Mean	617	2,456	67	207




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