

Attn: MS Sue Schultz
m/s Beaulieu of Australia
64 Lahrs Rd, Ormeau Q/Ld 4208

LABORATORY TEST REPORT
P1793017A

CRITICS CHOICE

Sample description as provided by customer

Pile weight mass/unit area **26 oz/yd²**
Construction Details **Tufted Secondary Backing Synthetic**
Style **Cut Pile**

Order No. **Sue**
Pile Fibre Content **100% INVISTA Solution Dyed Nylon**
Colour **Smokey Beige**
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 **Jul 2017**

Test Date **June 2017**

Total Thickness **mm**

Assembly System: OVER UNDERLAY AIRSTEP BLACK RUBBER.

The UNDERLAY used was **AIRSTEP BLACK RUBBER.**

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

	Specimen Tests conducted in the Width Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m ²)	2.4	2.5	2.8	2.6
Smoke Development Rate (%.min)	342	352	392	362

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 2.6 kW/m²

Mean Smoke Development Rate 362 %.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.

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(v5-0, 11/03/2017)



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**TECHNICAL
COMPETENCE**

M. B. Webb
Technical Manager

DATE: June 2017

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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	213	219	283	342	383	449	714	1093	1826	2495	3015	3675	4210					
2	215	221	265	329	391	452	658	983	1648	2349	2853	3517	4058					
3	218	222	245	298	325	429	547	991	1350	1808	2384	2869						

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	358	3,751	56	358
Specimen Tests: Width				
1	610	4,206	51	342
2	597	3,651	49	352
3	560	2,871	57	392
Mean	589	3,576	52	362



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