

Attn: Mr Ken Grace
 m/s EC. GROUP
 4-9 Delaine Ave Edwardstowm S A 5069

LABORATORY TEST REPORT
P182698

BOURKESGATE

Sample description as provided by customer
 Pile weight mass/unit area 30 oz/yd²
 Construction Details Tufted Secondary Backing Synthetic
 Style High and Low Loop

Order No. KG
 Pile Fibre Content 100% SOLUTION DYED NYLON
 Colour 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 Mar 2018 Test Date 08 Mar 2018 Total Thickness mm

Assembly: DIRECT STICK (Details Below).

The floor covering was directly stuck to the substrate 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 4.6 kW/m²
 Width Direction Critical Radiant Flux 3.4 kW/m²

	Specimen Tests conducted in the Width Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m ²)	3.4	4.4	4.7	4.2
Smoke Development Rate (%.min)	233	91	159	161

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 4.2 kW/m²

Mean Smoke Development Rate 161 %.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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M. B. Webb
 Technical Manager

DATE: 08 Mar 2018

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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	246	247	295	327	391	428	483	535	582	607	1024	/						
2	267	268	314	430	612	717	926	1200	1551	/								
3	249	250	302	382	459	628	817	1012	1385									

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		430	1,520	54	139			
Specimen Tests: Width								
1		510	1,355	65	233			
2		440	2,037	26	91			
3		420	1,562	49	159			
Mean		457	1,651	47	161			



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**TECHNICAL
COMPETENCE**

M. B. Webb
Technical Manager



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