

GROVE PLANK

Sample description as provided by customer

Pile weight mass/unit area **850 g/m²**

Construction Details **Tufted Secondary Backing Synthetic Tile**

Style **Multi Level Loop**

The Samples Tested Were Modular Carpet Dimensions **1000 mm X 250 mm**

Order No. **PO109550**

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

Colour **Charcoal /Grey**

Pile Height **4mm 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 **Aug 2017**

Test Date **19 Aug 2017**

Total Thickness **mm**

Assembly System: DIRECT STICK (Details Below).

The floor covering was directly stuck to the substrate using **Water Based Surface Contract** 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 **5.2 kW/m²**
Width Direction Critical Radiant Flux **4.9 kW/m²**

	Specimen Tests conducted in the Width Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m ²)	4.9	5.3	5.1	5.1
Smoke Development Rate (%.min)	235	233	259	242

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 5.1 kW/m²

Mean Smoke Development Rate 242 %.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.



M. B. Webb
 Technical Manager

DATE: 19 Aug 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	199	201	283	356	501	683	1045	1753	2509	/								
2	316	318	385	463	631	1262	1305	1493	/									
3	283	285	337	459	691	1064	1283	1592										

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	393	2,283	35	255
Specimen Tests: Width				
1	410	2,585	39	235
2	390	2,498	37	233
3	400	1,893	38	259
Mean	400	2,325	38	242




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