

Whale Song (Beluga/Humpback/Narwhal/Orca)

Sample description as provided by customer

Order No.

Pile weight mass/unit area **17.5 oz/yd² 595 g/m²**

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

Construction Details **Tufted Secondary Backing Cushion Backing**

Colour **Multi**

Style **Loop Pile**

Pile Height mm

The Samples Tested Were Modular Carpet with Cushion Backing

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 **03 Oct 2017**

Total Thickness mm

Assembly System: **DIRECT STICK** (Details Below).

The floor covering was directly stuck to the substrate using **Water Based Surface Contact 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 **9.2 kW/m²**
Width Direction Critical Radiant Flux **3.3 kW/m²**

	Specimen Tests conducted in the Width Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m ²)	3.3	3.5	7.5	4.8
Smoke Development Rate (%.min)	327	369	219	305

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 4.8 kW/m²

Mean Smoke Development Rate 305 %.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: 03 Oct 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	210	211	311	326	368	377	473	520	763	1186	1480	/						
2	217	219	273	328	442	496	583	1028	1183	1601	/							
3	197	198	272	296	354	464	/											

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	220	726	66	215
Specimen Tests: Width				
1	520	1,650	82	327
2	500	2,216	68	369
3	290	749	69	219
Mean	437	1,538	73	305




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