

Whale Song (Beluga/Humpback/Narwhal/Orca)

Sample description as provided by customer

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

Construction Details Tufted Secondary Backing Cushion Backing

Style Loop Pile

The Samples Tested Were Modular Carpet with Cushion Backing

Order No.

Pile Fibre Content 100% SOLUTION DYED NYLON

Colour Multi

Pile Height mm

TEST METHOD: ISO 9239-1(2010 06-15) Determination of the Burning Behaviour Using a Radiant Heat Source. As required by the New Zealand Building Code Clause C2.1 (January 2017). 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

The value quoted below is as required by the New Zealand Building Code Clause C2.1 (January 2017) "Minimum critical radiant flux when tested to ISO 9239-1:2010". Hence the Radiant Flux quoted is the value at Flame-Out/Extinguishment Not after a 30 minute burn as used in Europe.

Mean Critical Radiant Flux **4.8** kW/m²

Observations: The samples shrunk away from the heat source, ignited and burnt a relatively short distance.

ISO 9239-1:2010 Clause 10(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 BCNZ 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

Specimen	Burn Length (mm) at Flame Out/ Extinguishment	Time To Burn Out (s)
Initial Test: Length	220	726
Specimen Tests: Width		
1	520	1,650
2	500	2,216
3	290	749
Mean	437	1,538




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