

Attn: MS Kate Szmal
m/s shaw contract group australia
3A 650 Church St Richmond VIC 3121

LABORATORY TEST REPORT
P182671NZ

16oz ECOLOGIX

Sample description as provided by customer
Pile weight mass/unit area 16 oz/yd²
Construction Details **Tufted** Secondary Backing Tile Ecologix
Style **Multi Level Loop**
The Samples Tested Were Modular Carpet Dimensions 24 inches x 24 Inches

Order No. **PO 32571**
Pile Fibre Content **100% NYLON**
Colour **Charcoal / Grey**
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 **Jan 2018**

Test Date **09 Feb 2018**

Total Thickness **7.3** mm

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

The floor covering was directly stuck to the substrate using **Shaw Suretac Psi** 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 **5.1** kW/m²
Width Direction Critical Radiant Flux **8.9** kW/m²

Specimen Tests conducted in the Length Direction				
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m ²)	5.1	8.9	9.2	7.7

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 **7.7** kW/m²

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

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(v5-0, 11/03/2017)



M. B. Webb
Technical Manager

DATE: 09 Feb 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	210	211	257	326	382	517	682	1017	/									
2	191	192	223	303	344	/												
3	162	162	231	294	354	/												

TESTS

BURNING CHARACTERISTICS

Specimen	Burn Length (mm) at Flame Out/ Extinguishment	Time To Burn Out (s)
Initial Test: Width	230	894
Specimen Tests: Length		
1	400	1,823
2	230	828
3	220	832
Mean	283	1,161




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