

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

LABORATORY TEST REPORT  
**P182678NZ**

## 36oz EcoWorx

Sample description as provided by customer

Pile weight mass/unit area **36 oz/yd<sup>2</sup>**

Construction Details **Tufted** Secondary Backing **EcoWorx**

Style **Cut Pile**

The Samples Tested Were **Modular Carpet 24 inches x 24 inches**

Order No. **PO32571**

Pile Fibre Content **100% NYLON**

Colour **Olive**

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 **Feb 2018**

Test Date **11 Feb 2018**

Total Thickness **8 mm**

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

The floor covering was directly stuck to the substrate using **LokDot** 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 **9.4 kW/m<sup>2</sup>**  
**Width** Direction Critical Radiant Flux **6.4 kW/m<sup>2</sup>**

Specimen Tests conducted in the <b>Width</b> Direction				
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m <sup>2</sup> )	<b>6.4</b>	<b>5.5</b>	<b>6.4</b>	<b>6.1</b>

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 **6.1** kW/m<sup>2</sup>

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: 11 Feb 2018

Performance & Approvals  
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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	173	175	265	332	464	510	611	/										
2	182	183	308	357	392	526	609	949	/									
3	198	200	274	362	453	499	590	/										

**TESTS**

**BURNING CHARACTERISTICS**

Specimen	Burn Length (mm) at Flame Out/ Extinguishment	Time To Burn Out (s)
Initial Test: <b>Length</b>	210	779
Specimen Tests: <b>Width</b>		
1	340	1,087
2	382	1,127
3	340	1,217
Mean	354	1,144




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