

CUSTOMER REFERENCE

## 49oz PET Fibre Collection

**Sample description as provided by customer**

Mass/unit area **49 oz/yd<sup>2</sup>**

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

Style **Loop Pile**

**The Samples Tested Were Modular Carpet with EcoWorx Backing**

Order No. **PO05401**

Pile Fibre Content **100% PET FIBRE**

Colour **Charcoal**

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 C3.4 (b) (April 2012)**

The test values 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. Clause 10 ( o ) of ISO 9239-1:2010.

Conditioning as specified in BS EN 13238.2001

Sample submitted Date **Nov 2013**

Test Date **24 Nov 2013**

### ASSEMBLY SYSTEM: DIRECT STICK Suretac Adhesive

The floor covering was directly stuck to the substrate using **Suretac Adhesive** adhesive.

**Substrate: Non-Combustible**

**Substrate - 6mm Fibre Reinforced Cement Board to simulate a Non-Combustible Flooring.**

The Holding Torque on Specimen Frame was 2Nm.

Initial Test Specimen 1 Length Direction Critical Radiant Flux **5.0 kW/m<sup>2</sup>**  
Specimen 1 Width Direction Critical Radiant Flux **4.9 kW/m<sup>2</sup>**  
Full tests carried out in the **Width** Direction

SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m <sup>2</sup> )	<b>4.9</b>	<b>4.7</b>	<b>4.6</b>	<b>4.7</b>

The value quoted below is as required by the New Zealand Building Code Clause C3.4 (b) (April 2012) "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 **4.7 kW/m<sup>2</sup>**

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



**M. B. Webb**  
Technical Manager

DATE: 24 Nov 2013

Performance & Approvals  
Testing No. 15393  
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Clause 10 ( o ) of ISO 9239-1:2010

The values on Page 2 have no relevance to the Code.

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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	228	229	297	412	684	929	1171	1573	/									
2	230	230	344	452	945	1201	1587	1890	2492	/								
3	232	234	309	443	1028	1383	1798	2059	2259									

**TESTS**

**BURNING CHARACTERISTICS**

Specimen	Burn Length (mm) at Flame Out/ Extinguishment	Time To Burn Out (s)
Initial Test: <b>Length</b>	<b>402</b>	<b>2,395</b>
Specimen Tests: <b>Width</b>		
1	405	1,988
2	420	3,404
3	424	2,990
<b>Mean</b>	<b>416</b>	<b>2,794</b>



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*The laboratory does not allow the use of this page of the report without the use of page 1.*

This page alone has no validity under Clause 10 ( o ) of ISO 9239-1:2010

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