

CUSTOMER REFERENCE

## 28oz EcoWorx

**Sample description as provided by customer**

Mass/unit area **28 oz/yd<sup>2</sup>**  
 Construction Details **Tufted** Secondary Backing **Synthetic**  
 Style **Loop Pile**  
**The Samples Tested Were Modular Carpet**

Order No. **KS**

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

Colour **Grey**

Pile Height / mm

**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 specification C1.10a of the Building Code of Australia.**

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 9 of AS/ISO 9239 Part 1.

Conditioning as specified in BS EN 13238.2001

Sample submitted Date **Oct 2012**

Test Date **08 Nov 2012**

### ASSEMBLY SYSTEM: DIRECT STICK SURETAC PSI.

The floor covering was directly stuck to the substrate using **SURETAC PSI** 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 **5.8 kW/m<sup>2</sup>**  
 Specimen 1 Width Direction Critical Radiant Flux **6.4 kW/m<sup>2</sup>**  
 Full tests carried out in the **Length** Direction


SPECIMEN	Length #1	Length #2	Length #3	Mean
Critical Radiant Flux (kW/m <sup>2</sup> )	<b>5.8</b>	<b>5.2</b>	<b>6.1</b>	<b>5.7</b>
Smoke Development Rate (%.min)	<b>200</b>	<b>149</b>	<b>195</b>	<b>181</b>

The values quoted below are as required by Specification C1.10a Fire Hazard Properties (Floors) of the Building Code of Australia. The Critical Radiant Flux quoted is the value at Flame-Out/Extinguishment (BCA General Provisions A1.1).

### MEAN CRITICAL RADIANT FLUX 5.7 kW/m<sup>2</sup>

### MEAN SMOKE DEVELOPMENT RATE 181 percent-minutes


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



**M. B. Webb**  
 Technical Manager

DATE: 08 Nov 2012

Measurement Science & Technology No. 15393  
**Accredited for compliance with ISO/IEC 17025.**



**PAGE 1 of 2**

This Page (1) has been designed to show the values required under Specification C1.10a Fire Hazard Properties (Floors) of the Building Code of Australia.


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	225	227	295	361	438	588	676	1195	/									
2	175	176	276	333	443	557	1081	2085	/									
3	242	242	286	329	460	528	1311	/										

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: <b>Width</b>		<b>330</b>	<b>1,358</b>	<b>31</b>	<b>179</b>
Specimen Tests: <b>Length</b>					
<b>1</b>		<b>360</b>	<b>1,258</b>	<b>35</b>	<b>200</b>
<b>2</b>		<b>390</b>	<b>2,685</b>	<b>29</b>	<b>149</b>
<b>3</b>		<b>345</b>	<b>1,737</b>	<b>34</b>	<b>195</b>
<b>Mean</b>		<b>365</b>	<b>1,893</b>	<b>33</b>	<b>181</b>



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**TECHNICAL  
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**M. B. Webb**  
Technical Manager

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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 Specification C1.10a Fire Hazard Properties (Floors) of the Building Code of Australia.  
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