

CUSTOMER REFERENCE  
**LINCOLN**

**Sample description as provided by customer**

Mass/unit area **22 oz/yd<sup>2</sup>**  
 Construction Details **Tufted** Secondary Backing **Synthetic Tile ENVIRO BAC™**  
 Style CUT and LOOP PILE

Order No. **APL 8A**  
 Pile Fibre Content **100% NYLON**  
 Colour **Char Grey**  
 Pile Height **4 mm**

**The Samples Tested Were Modular CarpetThe Secondary Backing was ENVIRO BAC™**

**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.**

*Tested in accordance with the Carpet Institute Code of Practice for AS/ISO 9239 Testing Version 10 / 0805.*

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 in use. Clause 9 of AS/ISO 9239 Part 1.

Conditioning as specified in BS EN 13238.2001

Sample submitted Date **July 2012**

Test Date **10 Aug 2012**

## ASSEMBLY SYSTEM: DIRECT STICK

The floor covering was directly stuck to the substrate using **GHM G3 444** 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 **8.5 kW/m<sup>2</sup>**  
 Specimen 1 Width Direction Critical Radiant Flux **8.5 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>8.5</b>	<b>8.1</b>	<b>8.8</b>	<b>8.5</b>
Smoke Development Rate (%.min)	<b>180</b>	<b>231</b>	<b>154</b>	<b>188</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 8.5 kW/m<sup>2</sup>**

**MEAN SMOKE DEVELOPMENT RATE 188 percent-minutes**


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



**M. B. Webb**  
 Technical Manager

DATE: 10 Aug 2012

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



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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	236	238	319	401	540	/												
2	214	216	305	384	494	/												
3	227	229	309	404	508	/												

Specimen	SMOKE PRODUCTION		BURNING CHARACTERISTICS	
	Maximum Light Attenuation (%)	Smoke Development Rate (%.min)	Burn Length (mm) at Flame Out/ Extinguishment	Time To Burn Out (s)
Initial Test: <b>Width</b>	43	157	230	729
Specimen Tests: <b>Length</b>				
1	45	180	230	746
2	51	231	250	782
3	39	154	220	732
Mean	45	188	233	753



ACCREDITED FOR  
**TECHNICAL  
COMPETENCE**



**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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