

CUSTOMER REFERENCE

## HL 910

Sample description as provided by customer

Mass/unit area **910 g/m<sup>2</sup>**  
 Construction Details **Tufted** Secondary Backing **Synthetic Acoustic Backing**  
 Style **Cut Pile**

Order No. **JM**  
 Pile Fibre Content **100% NYLON**  
 Colour **Charcoal/White**  
 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.**

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 **October 2011** Test Date **17 Nov 2011**

### ASSEMBLY SYSTEM: DIRECT STICK (Details Below).

The floor covering was directly stuck to the substrate using **ROBERTS 95** 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 **6.9 kW/m<sup>2</sup>**  
 Specimen 1 Width Direction Critical Radiant Flux **6.2 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>6.2</b>	<b>5.4</b>	<b>6.7</b>	<b>6.1</b>
Smoke Development Rate (%.min)	<b>116</b>	<b>143</b>	<b>159</b>	<b>139</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 6.1 kW/m<sup>2</sup>

## MEAN SMOKE DEVELOPMENT RATE 139 percent-minutes


OBSERVATIONS: **The samples singed, ignited and burnt a relatively short distance.**



**M. B. Webb**  
 Technical Manager

DATE: 17 Nov 2011

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	240	241	397	447	505	742	1008	/										
2	230	231	314	380	516	681	1015	1363	/									
3	256	257	367	479	596	730	1205	/										

**TESTS**

**SMOKE PRODUCTION**


**BURNING CHARACTERISTICS**

Specimen	Maximum Light Attenuation (%)	Smoke Development Rate (%.min)	Burn Length (mm) at Flame Out/ Extinguishment	Time To Burn Out (s)
Initial Test: <b>Length</b>	27	105	310	1,157
Specimen Tests: <b>Width</b>				
1	29	116	340	1,642
2	30	143	380	1,828
3	33	159	320	1,419
Mean	31	139	347	1,630



**NATA**

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**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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