

CUSTOMER REFERENCE  
**DIRECTOR'S OFFICE**

**Sample description as provided by customer**

Mass/unit area **26 oz/yd<sup>2</sup> / g/m<sup>2</sup>** Pile Fibre Content **100% RESISTAIN® SOLUTION DYED NYLON**  
Construction Details **Tufted** Secondary Backing **Synthetic** Colour **Oatmeal**  
Style **Multi Level Loop** Pile Height **3/5 mm**

Order No. **18136**

Colour **Oatmeal**

Pile Height **3/5 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 **July 2011**

Test Date **28/7/2011**

## 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.**

Sample Cleaned as Specified in ISO 11379.1997. The Holding Torque on Specimen Frame was 2Nm.

Initial Test Specimen 1 Length Direction Critical Radiant Flux **5.9 kW/m<sup>2</sup>**  
Specimen 1 Width Direction Critical Radiant Flux **6.6 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>5.9</b>	<b>5.2</b>	<b>7.1</b>	<b>6.1</b>
Smoke Development Rate (%.min)	<b>43</b>	<b>15</b>	<b>41</b>	<b>33</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 **33 percent-minutes**

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

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	DATE: 28/7/2011	
	Measurement Science & Technology No. 15393	
	<b>This document is issued in accordance with NATA's accreditation requirements.</b>	

**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	208	209	314	407	512	818	1173	/										
2	245	246	371	466	623	1075	1473	2045	/									
3	213	213	305	423	470	627	/											

**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>Width</b>	12	41	325	1,645
Specimen Tests: <b>Length</b>				
1	20	43	355	2,076
2	7	15	390	2,656
3	16	41	300	1,185
Mean	14	33	348	1,972



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**M. B. Webb**  
Technical Manager

DATE: 28/7/2011

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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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