

CUSTOMER REFERENCE  
**ROYAL PLUSH 50oz**

**Sample description as provided by customer**

Mass/unit area **50 oz/yd<sup>2</sup> 0 g/m<sup>2</sup>** Pile Fibre Content **100% RESISTAIN SOLUTION DYED NYLON**  
Construction Details **Tufted** Secondary Backing **Synthetic**  
Style **CUT PILE**

Order No. **18034**  
Colour **Liquid Silver**  
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 **14/6/2011** Test Date **6/7/2011**

**ASSEMBLY SYSTEM: OVER UNDERLAY** (Details Below).

The UNDERLAY used was **AIRSTEP GOLD**.

**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 **4.1 kW/m<sup>2</sup>**  
Specimen 1 Width Direction Critical Radiant Flux **4.0 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>4.0</b>	<b>3.5</b>	<b>4.0</b>	<b>3.8</b>
Smoke Development Rate (%.min)	<b>362</b>	<b>339</b>	<b>359</b>	<b>353</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 3.8 kW/m<sup>2</sup>**

**MEAN SMOKE DEVELOPMENT RATE 353 percent-minutes**

OBSERVATIONS **The samples shrunk away from the heat source, ignited then burnt.**



**M. B. Webb**  
Technical Manager

DATE: 6/7/2011

Measurement Science & Technology No. 15393  
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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	216	217	286	336	381	421	477	527	633	1047	/							
2	228	229	276	335	373	420	459	512	602	1115	/							
3	223	225	283	338	401	429	462	518	609	1110								

**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>	68	369	455	1,259
Specimen Tests: <b>Width</b>				
1	61	362	460	1,131
2	61	339	500	1,862
3	59	359	461	1,924
Mean	60	351	474	1,639



ACCREDITED FOR  
**TECHNICAL  
 COMPETENCE**

**M. B. Webb**  
 Technical Manager

DATE: 6/7/2011

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 & Technology No. 15393

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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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