

CUSTOMER REFERENCE
IMPERIAL GARDENS

Sample description as provided by customer

Order No. **PO 25821**

Mass/unit area **70 oz/yd²**

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

Construction Details **Tufted** Secondary Backing **Synthetic**

Colour **Mink**

Style **Cut Pile**

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 C1.10 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 **Feb 2016**

Test Date **05 Apr 2016**

ASSEMBLY SYSTEM: OVER UNDERLAY AIRSTEP STEPSMART.

The UNDERLAY used was **AIRSTEP STEPSMART**.

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 **3.2 kW/m²**
Specimen 1 Width Direction Critical Radiant Flux **2.7 kW/m²**
Full tests carried out in the **Width** Direction


SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m ²)	2.7	3.3	2.6	2.9
Smoke Development Rate (%.min)	235	269	492	332

The values quoted below are as required by Specification C1.10 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 2.9 kW/m²

MEAN SMOKE DEVELOPMENT RATE 332 percent-minutes


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



M. B. Webb
Technical Manager

DATE: 05 Apr 2016

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Clause 9 of AS/ISO 9239 Part 1

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	288	290	378	482	537	586	649	799	1101	1680	2393	3121	/					
2	270	271	433	513	547	598	725	897	1106	1664	/							
3	239	241	319	459	496	542	624	654	761	930	1215	1918	/					

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: Length	515	2,846	50	248
Specimen Tests: Width				
1	560	3,181	51	235
2	500	2,404	46	269
3	570	2,413	61	492
Mean	543	2,666	53	332



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COMPETENCE**



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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 Clause 9 of AS/ISO 9239 Part 1
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