

CUSTOMER REFERENCE
CRYSTAL PALACE

Sample description as provided by customer

Order No. **PO 25381**

Mass/unit area **80 oz/yd²**

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

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

Colour **Cream**

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 **Jan 2016**

Test Date **23 Mar 2016**

ASSEMBLY SYSTEM: OVER UNDERLAY (Details Below).

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 **2.7 kW/m²**
Specimen 1 Width Direction Critical Radiant Flux **2.4 kW/m²**
Full tests carried out in the **Width** Direction


SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m ²)	2.4	2.7	2.8	2.6
Smoke Development Rate (%.min)	385	454	399	413

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 2.6 kW/m²

MEAN SMOKE DEVELOPMENT RATE 413 percent-minutes


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



M. B. Webb
Technical Manager

DATE: 23 Mar 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	328	300	476	503	584	624	734	924	1193	1450	1847	2394	/					
2	313	315	426	475	583	661	740	888	1023	1400	1921	3602	/					
3	328	329	491	527	602	684	803	1026	1596	2059	2951							

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		579	2,481	50	412
Specimen Tests: Width					
1		600	2,579	51	385
2		560	3,615	49	454
3		557	3,493	51	399
Mean		572	3,229	50	413



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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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