

CUSTOMER REFERENCE
HL 1400

Sample description as provided by customer

Mass/unit area **1400 g/m²** Pile Fibre Content **80% WOOL 20% POLYAMIDE**
Construction Details **Tufted** Secondary Backing **Synthetic Acoustic Backing** Colour **Cream/White**
Style **PATTERNED CUT PILE** Pile Height **6.0 mm**

Order No. **BS**

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 **17/10/2011**

ASSEMBLY SYSTEM: DIRECT STICK (Details Below).

The floor covering was directly stuck to the substrate using **HOLDFAST 1906** 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 **10.5 kW/m²**
Specimen 1 Width Direction Critical Radiant Flux **9.0 kW/m²**
Full tests carried out in the **Width** Direction


SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m ²)	9.0	9.2	10.0	9.4
Smoke Development Rate (%.min)	14	14	17	15

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 9.4 kW/m²

MEAN SMOKE DEVELOPMENT RATE 15 percent-minutes


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



M. B. Webb
Technical Manager

DATE: 17/10/2011

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	129	130	157	169	175	/												
2	161	132	139	170	/													
3	125	126	138	165	/													

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: Length		10	10	130	757
Specimen Tests: Width					
1		17	14	210	724
2		14	14	200	724
3		13	17	160	721
Mean		15	15	190	723



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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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