

CUSTOMER REFERENCE

ESSENCE

Sample description as provided by customer

Mass/unit area **500 g/m²**
Construction Details **Tufted** Secondary Backing **Modified Bitumen**
Style **Loop Pile**
The Samples Tested Were Modular Carpet

Order No. **GH**
Pile Fibre Content **100% NYLON**
Colour **Blue**
Pile Height **2.2 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.

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 **December 2012** Test Date **16 Jan 2013**

ASSEMBLY SYSTEM: DIRECT STICK FULLY ADHERED using MAPEI ECO TACK.

The floor covering was directly stuck to the substrate using **FULLY ADHERED using MAPEI ECO TACK 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 **8.8 kW/m²**
Specimen 1 Width Direction Critical Radiant Flux **8.8 kW/m²**
Full tests carried out in the **Length** Direction


SPECIMEN	Length #1	Length #2	Length #3	Mean
Critical Radiant Flux (kW/m ²)	8.8	8.8	8.8	8.8
Smoke Development Rate (%.min)	190	193	192	192

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 **8.8 kW/m²**

MEAN SMOKE DEVELOPMENT RATE **192 percent-minutes**


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



M. B. Webb
Technical Manager

DATE: 16 Jan 2013

Measurement Science &
Technology No. 15393
Accredited for compliance with ISO/IEC 17025.



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	168	170	240	313	371	/												
2	163	165	239	329	412	/												
3	160	162	220	261	347	/												

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: Width		220	733	50	175
Specimen Tests: Length					
1		220	728	56	190
2		220	720	58	193
3		220	722	51	192
Mean		220	723	55	192



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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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