

CUSTOMER REFERENCE

## EMPIRE

Sample description as provided by customer

Pile weight mass/unit area 1140 g/m<sup>2</sup>

Construction Details Tufted Secondary Backing ACTION FLEECE

Style Cut Pile

The Samples Secondary Backing was ACTION FLEECE

Order No. V

Pile Fibre Content 100% SOLUTION DYED NYLON

Colour Grey

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 Jun 2016

Test Date 23 Jun 2016

### ASSEMBLY SYSTEM: DIRECT STICK (Details Below).

The floor covering was directly stuck to the substrate using Roberts 95 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 6.5 kW/m<sup>2</sup>  
 Specimen 1 Width Direction Critical Radiant Flux 5.4 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> )	5.4	6.9	7.1	6.5
Smoke Development Rate (%.min)	108	99	141	116

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 6.5 kW/m<sup>2</sup>

### MEAN SMOKE DEVELOPMENT RATE 116 percent-minutes


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



**M. B. Webb**  
 Technical Manager

DATE: 23 Jun 2016

Performance & Approvals  
 Testing No. 15393  
 Accredited for compliance with ISO/IEC 17025.



PAGE 1 of 2

Clause 9 of AS/ISO 9239 Part 1

The values on Page 2 have no relevance to the Code.

1004 04 09

**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	352	354	454	709	953	1297	1582	1803	/									
2	297	299	358	506	759	1062												
3	314	316	402	514	742	946												

**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: <b>Length</b>	327	1,238	15	129
Specimen Tests: <b>Width</b>				
1	380	1,966	13	108
2	308	1,283	12	99
3	297	1,153	18	141
<b>Mean</b>	328	1,467	14	116



ACCREDITED FOR  
**TECHNICAL  
COMPETENCE**

**M. B. Webb**  
Technical Manager

DATE: 23 Jun 2016

Performance and Approvals  
Testing No. 15393  
Accredited for compliance  
with ISO/IEC 17025.

*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

2004 04 09 9520 23 June 2016