

CUSTOMER REFERENCE  
**AIRMASTER**

**Sample description as provided by customer**

Mass/unit area **625 g/m<sup>2</sup>** Pile Fibre Content **100% SOLUTION DYED NYLON**  
Construction Details **Tufted** Secondary Backing **Tile Modified Bitumen** Colour **Red**  
Style **Structured Loop Pile** Pile Height **2.4 mm**

Order No. **K A-S**

**THE SAMPLES TESTED WERE MODULAR CARPET**

**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 **2/10/2011** Test Date **8/10/2011**

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

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 **10.6 kW/m<sup>2</sup>**  
Specimen 1 Width Direction Critical Radiant Flux **10.6 kW/m<sup>2</sup>**  
Full tests carried out in the **Length** Direction


| SPECIMEN                                   | Length #1   | Length #2   | Length #3  | Mean        |
|--|-------------|-------------|------------|-------------|
| Critical Radiant Flux (kW/m <sup>2</sup> ) | <b>10.6</b> | <b>11.1</b> | <b>9.6</b> | <b>10.4</b> |
| Smoke Development Rate (%.min)             | <b>18</b>   | <b>15</b>   | <b>20</b>  | <b>18</b>   |

*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 10.4 kW/m<sup>2</sup>**

**MEAN SMOKE DEVELOPMENT RATE 18 percent-minutes**


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



**M. B. Webb**  
Technical Manager

DATE: 8/10/2011

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        | 253 | 254 | 424 | /   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2        | 260 | 260 | /   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3        | 296 | 297 | 297 | 482 | /   |     |     |     |     |     |     |     |     |     |     |     |     |     |

| 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: <b>Width</b>    |                  | 4                             | 23                             | 120   | 770                  |
| Specimen Tests: <b>Length</b> |                  |                               |                                |   |                      |
| 1                             |                  | 5                             | 18                             | 120   | 725                  |
| 2                             |                  | 5                             | 15                             | 95  | 741                  |
| 3                             |                  | 4                             | 20                             | 180   | 739                  |
| Mean                          |                  | 5                             | 18                             | 132   | 735                  |



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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 specification C1.10a Fire Hazard Properties (Floors) of the Building Code of Australia.  
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