

CUSTOMER REFERENCE  
**DESSO AIRMASTER**

Sample description as provided by customer

Pile Mass/unit area **625 g/m<sup>2</sup>**

Order No. **RK**  
Pile Fibre Content **100% SOLUTION DYED NYLON**

Construction Details **Tufted** Secondary Backing **Modified Bitumen**

Colour **Various**

Style **Structured Loop Pile**

Pile Height **2.4 mm**

The Samples Tested Were **Modular Carpet**

TEST METHOD ISO 9239-1(2010 06-15) Determination of the Burning Behaviour using a radiant heat source As required by the New Zealand Building Code Clause C3.4 (b) (April 2012)

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 10 ( o ) of ISO 9239-1:2010.

Conditioning as specified in BS EN 13238.2001

Sample submitted Date **Apr 2016**

Test Date **12/4/2016**

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

The floor covering was directly stuck to the substrate and fully adhered using **Tarkett Carpet Tile** 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> |

The value quoted below is as required by the New Zealand Building Code Clause C3.4 (b) (April 2012) "Minimum critical radiant flux when tested to ISO 9239-1:2010". Hence the Radiant Flux quoted is the value at Flame-Out/Extinguishment Not after a 30 minute burn as used in Europe.

## MEAN CRITICAL RADIANT FLUX 10.4 kW/m<sup>2</sup>

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

|  |   |   |
|--|---|---|
| <br>ACCREDITED FOR<br><b>TECHNICAL<br/>COMPETENCE</b> | <b>M. B. Webb</b><br>Technical Manager        |  |
|  | DATE: 12/4/2016                               |   |
|  | Performance & Approvals<br>Testing No. 15393  |   |
|  | Accredited for compliance with ISO/IEC 17025. |   |

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Clause 10 ( o ) of ISO 9239-1:2010

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**

**BURNING CHARACTERISTICS**

| Specimen                      | Burn Length (mm) at Flame Out/ Extinguishment | Time To Burn Out (s) |
|-------------------------------|---|----------------------|
| Initial Test: <b>Width</b>    | 120   | 770                  |
| Specimen Tests: <b>Length</b> |   |                      |
| 1                             | 120   | 725                  |
| 2                             | 95  | 741                  |
| 3                             | 180   | 739                  |
| <b>Mean</b>                   | 132   | 735                  |

**M. B. Webb**  
 Technical Manager

DATE: 12/4/2016

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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 10 ( o ) of ISO 9239-1:2010  
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