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TEST REPORT No. 0070999

LABORATORY REF: P070999

CUSTOMER REFERENCE

**TECH 2500**

Sample description as provided by customer

Mass/unit area **20** oz/yd<sup>2</sup> g/m<sup>2</sup> Pile Fibre Content **100% DYCLON POLYPROPYLENE**

Construction Details **Tufted** Secondary Backing **Jute**

Style **LEVEL LOOP**

Order No. **10175**

Colour **Tan**

Pile Height **3 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.**

*Tested in accordance with the Carpet Institute Code of Practice for AS/ISO 9239 Testing Version 10 / 0805.*

The test results 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 **7/12/2007**

Test Date **11/1/2007**

## **ASSEMBLY SYSTEM DIRECT STICK** details below.

The floor covering was directly stuck to the substrate using ROBERTS 95 SF adhesive.

Substrate : Non-combustible

Substrate – 6mm Fibre Reinforced Cement Board to simulate a Non-Combustible Flooring.

Sample Cleaned as Specified in ISO 11379.1997

Initial Test Specimen 1 Length Direction Critical Radiant Flux 2.4 kW/m<sup>2</sup>  
Specimen 1 Width Direction Critical Radiant Flux 2.4 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> ) | 2.4       | 2.5       | 2.2       | 2.4  |
| Smoke Development Rate (%.min)             | 169       | 88        | 182       | 146  |

*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.*


**MEAN CRITICAL RADIANT FLUX 2.4 kW/m<sup>2</sup>**

**MEAN SMOKE DEVELOPMENT RATE 146 %.min**

**OBSERVATIONS** The samples melted away from the heat source then Ignited



Authorised Signatory **M. B. Webb**  
Date **11/1/2007**



NATA Reg. No. 15393  
Heat and temperature measurement.

ACCREDITED FOR  
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### **PAGE 1 of 2**

Page 2 only shows the time required in seconds for the flame front to reach each time marker, the total test time and the CHF value at 30 minutes (if applicable).

*The laboratory allows the use of this page of the report without the use of page 2.*

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THE INFORMATION PROVIDED ON THIS PAGE OF THE TEST REPORT IS FOR THE SPONSORS USE ONLY AND WILL MEET THE REQUIREMENTS OF THE STANDARD. IT IS NOT REQUIRED UNDER CLAUSE C1.10A OF THE BUILDING CODE OF AUSTRALIA

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Pyrometer temperature  
On calibration 528.7°C  
Start of test run 530.5  
End of test run 532.0

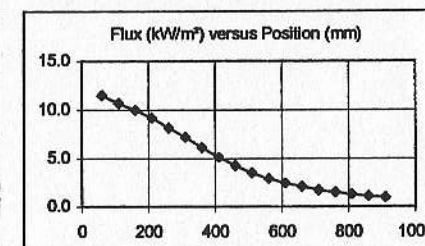
Chamber temperature  
On calibration 91.1°C  
Start of test run 96.0  
End of test run 97.3/

Clause 7.2.2 AS/ISO 9239 The pyrometer should be  $\pm 5^\circ$  of calibration temperature.  
The Chamber temperature should be  $\pm 10^\circ$  of calibration temperature  
The Holding Tension on Specimen Frame was 1 Nm

## 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        | 169 | 50  | 248 | 371 | 449 | 579 | 694 | 794 | 842 | 1083 | 1159 | 1493 | 1986 | 0   |     |     |     |     |
| 2        | 0   | 175 | 231 | 386 | 490 | 554 | 662 | 729 | 867 | 1081 | 1233 | 1451 | 0    |     |     |     |     |     |
| 3        | 0   | 186 | 293 | 396 | 442 | 585 | 672 | 821 | 987 | 1133 | 1448 | 1859 | 2202 | 0   |     |     |     |     |

## FLUX CALIBRATION: FLX06003



## TESTS

### SMOKE PRODUCTION

### BURNING CHARACTERISTICS

| Specimen               | Maximum Light Attenuation (%) | Smoke Development Rate (%.min) | Burn Length at Flame Out (mm) | Time To Burn Out (s) | Critical Heat Flux at 30min (kW/m²) |
|------------------------|-------------------------------|--------------------------------|-------------------------------|----------------------|-------------------------------------|
| Initial Test: Width    | 31                            | 154                            | 615                           | 2,299                | 2.8                                 |
| Specimen Tests: Length |                               |                                |                               |                      |                                     |
| 1                      | 19                            | 169                            | 620                           | 2,674                | 2.7                                 |
| 2                      | 18                            | 88                             | 608                           | 2,265                | 2.7                                 |
| 3                      | 30                            | 182                            | 640                           | 2,842                | 2.6                                 |
| Mean                   | 22                            | 146                            | 623                           | 2,594                | 2.7                                 |



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NATA Reg. No. 15393  
Heat and temperature measurement.

Authorised Signatory  
M B Webb  
Date 11/1/207

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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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