

m/s Beaulieu of Australia Attn: MS Sue Schultz
64 Lahrs Rd, Ormeau Q/Ld 4208

TEST REPORT No. 125524

LABORATORY REF: P125524

CUSTOMER REFERENCE

LIBERATION

Sample description as provided by customer

Mass/unit area **24 oz/yd²**

Construction Details **Tufted** Secondary Backing **Synthetic**

Style **Level Loop**

Order No. **AR**

Pile Fibre Content **100% RESISTAIN SOLUTION DYED NYLON**

Colour **Dynasty**

Pile Height **4 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 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 **Feb 20012**

Test Date **7/June/ 2012**

ASSEMBLY SYSTEM: OVER UNDERLAY AIRSTEP STEPSMART

The UNDERLAY used was **AIRSTEP STEPSMART**.

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 **2.0kW/m²**
Specimen 1 Width Direction Critical Radiant Flux **1.8 kW/m²**
Full tests carried out in the **Width** Direction

| SPECIMEN | Width #1 | Width #2 | Width #3 | Mean |
|--|------------|------------|------------|------------|
| Critical Radiant Flux (kW/m ²) | 1.8 | 2.0 | 1.8 | 1.9 |
| Smoke Development Rate (%.min) | 239 | 264 | 259 | 254 |

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 1.9 kW/m²

MEAN SMOKE DEVELOPMENT RATE 254 percent-minutes

OBSERVATIONS: The samples shrunk away from the heat source, ignited and burnt.



M. B. Webb
Technical Manager

DATE: 7/June/2012

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Measurement Science &
Technology No. 15393
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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 | 169 | 171 | 189 | 241 | 261 | 288 | 309 | 339 | 386 | 448 | 599 | 843 | 1156 | 1408 | / | | | |
| 2 | 195 | 196 | 221 | 239 | 253 | 299 | 313 | 352 | 391 | 612 | 729 | 1025 | 1764 | | / | | | |
| 3 | 171 | 172 | 199 | 235 | 277 | 302 | 342 | 374 | 402 | 549 | 701 | 993 | 1253 | 1594 | | / | | |

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: Length | 82 | 251 | 659 | 2,094 |
| Specimen Tests: Width | | | | |
| 1 | 79 | 239 | 695 | 1,548 |
| 2 | 75 | 264 | 658 | 2,099 |
| 3 | 74 | 259 | 697 | 1,759 |
| Mean | 76 | 254 | 683 | 1,802 |



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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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