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

LABORATORY TEST REPORT
**P178191A**

# TUSCAN SUN

**Sample description as provided by customer** Order No. **28238**
Pile weight mass/unit area **30** oz/yd² Pile Fibre Content **100% RESISTAIN SOLUTION DYED NYLON**
Construction Details **Tufted** Secondary Backing **Synthetic** Colour **Shell**
Style **Cut Pile** 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 the Building Code of Australia (BCA) and National Construction Code 2015 (NCC) specifications C1.10. Sample conditioning as specified in BS EN 13238.2010.**

Sample Submitted Date **Jul 2017** Test Date **July 2017** Total Thickness mm

## Assembly System: OVER UNDERLAY AIRSTEP BLACK RUBBER.

**The UNDERLAY used was AIRSTEP BLACK RUBBER.**

**Substrate: Non-Combustible -** 6mm Fibre Reinforced Cement Board to simulate a Non-Combustible Flooring.
The Holding Torque on Specimen Frame was 2Nm.

The standard requires two Initial Tests be conducted on samples mounted in both Length and Width directions. Two further samples are then tested in whichever direction has the lowest Critical Radiant Flux.

Initial Tests: **Length** Direction Critical Radiant Flux **2.4** kW/m²
**Width** Direction Critical Radiant Flux **2.4** kW/m²

| | Specimen Tests conducted in the Length Direction | | | |
|---|---|---|---|---|
| | Specimen #1 | Specimen #2 | Specimen #3 | Mean |
| Critical Radiant Flux (kW/m²) | 2.4 | 2.4 | 2.1 | 2.3 |
| Smoke Development Rate (%.min) | 254 | 266 | 271 | 264 |

*The values quoted below are as required by BCA and NCC Specification C1.10 Fire Hazard Properties (Floors). The Critical Radiant Flux quoted is the value at Flame-Out/Extinguishment (BCA General Provisions A1.1).*

## Mean Critical Radiant Flux 2.3 kW/m²

## Mean Smoke Development Rate 264 %.min

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

**AS.ISO 9239.1 Clause 9(o)** 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.
**All information required for compliance with the BCA and NCC is given on this test report page.**

**M. B. Webb**
Technical Manager

DATE: 31/7/2017

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



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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. This page is Not Required and has No Validity under Specification C1.10 Fire Hazard Properties (Floors) of the BCA and NCC 2015.
*The laboratory does not allow the use of this page of the report without the use of page 1.*



## 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 | 170 | 171 | 229 | 241 | 293 | 334 | 359 | 448 | 483 | 605 | 990 | 1624 | | | | | | |
| 2 | 183 | 184 | 239 | 248 | 301 | 347 | 551 | 628 | 793 | 885 | 1246 | 1894 | | | | | | |
| 3 | 199 | 200 | 235 | 294 | 382 | 453 | 539 | 674 | 865 | 939 | 1299 | 1652 | 1943 | | | | | |

**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: **Width** | **603** | **1,985** | **58** | **267** |
| Specimen Tests: **Length** | | | | |
| **1** | **605** | **1,877** | **59** | **254** |
| **2** | **607** | **2,136** | **57** | **266** |
| **3** | **647** | **2,296** | **58** | **271** |
| **Mean** | **620** | **2,103** | **58** | **264** |

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

**M. B. Webb**
Technical Manager

DATE: 31/7/2017

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2004 04 09 31 July 2017

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