ms MJS Underlays Pty Ltd,
32 Business St Yatala QLD 4207
Att Mr Kerry Krebs

**TEST REPORT No. 114843**

**LABORATORY REF: P114843**

CUSTOMER REFERENCE

# MJS CL5160 5mm 160 Density /TUFTMASTER LUMINARY 48

**Sample description as provided by customer** Order No. **KK**

Mass/unit area **48** oz/yd² **1627** g/m² Pile Fibre Content **100% WOOL**

Construction Details **Tufted** Secondary Backing **Jute** Colour **Dark Grey**

Style **LEVEL LOOP HEATHER** Pile Height **4.8** 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 **March 2011** Test Date **13/4/2011**

## ASSEMBLY SYSTEM: DOUBLE BOND (DOUBLE STICK) (Details Below).

**The underlay used was MJS CL5160 5mm 160 DENSITY it was adhered to the substrate using MaxBond ENVIRO 2010 adhesive. The floor covering was adhered to the underlay using MaxBond ENVIRO 2010 adhesive.**

**Substrate : Non-combustible**
**Substrate - 6mm Fibre Reinforced Cement Board to simulate a Non-Combustible Flooring.**
Sample Cleaned as Specified in ISO 11379.1997. The Holding Torque on Specimen Frame was 2Nm.

Initial Test Specimen 1 Length Direction Critical Radiant Flux **10.6** kW/m²
Specimen 1 Width Direction Critical Radiant Flux **10.7** kW/m²
Full tests carried out in the **Length** Direction

| SPECIMEN | Length #1 | Length #2 | Length #3 | Mean |
|---|---|---|---|---|
| Critical Radiant Flux (kW/m²) | 10.6 | 10.8 | 10.8 | 10.7 |
| Smoke Development Rate (%.min) | 37 | 50 | 51 | 46 |

*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 10.7 kW/m²

## MEAN SMOKE DEVELOPMENT RATE 46 percent-minutes

OBSERVATIONS **The samples singed, ignited and burnt a very short distance**

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**M. B. Webb**
Technical Manager

DATE: 13/4/2011

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** | 144 | 145 | 174 | / | | | | | | | | | | | | | | |
| **2** | 139 | 141 | 160 | / | | | | | | | | | | | | | | |
| **3** | 135 | 136 | 470 | / | | | | | | | | | | | | | | |

**TESTS**

| Specimen | SMOKE PRODUCTION: Maximum Light Attenuation (%) | SMOKE PRODUCTION: Smoke Development Rate (%.min) | BURNING CHARACTERISTICS: Burn Length (mm) at Flame Out/ Extinguishment | BURNING CHARACTERISTICS: Time To Burn Out (s) |
|---|---|---|---|---|
| Initial Test: **Width** | **16** | **51** | **115** | **882** |
| Specimen Tests: **Length** | | | | |
| **1** | 10 | 37 | 125 | 823 |
| **2** | 12 | 50 | 112 | 750 |
| **3** | 17 | 51 | 112 | 635 |
| **Mean** | 13 | 46 | 116 | 736 |

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Technical Manager

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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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