At t Mr John Millard
m/s ICON CARPETS Pty Ltd,
255 York St, Subiaco 6008 Western Australia

TEST REPORT No. 114414

LABORATORY REF: P114414

CUSTOMER REFERENCE

ARMORY CARPET TILES

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

Mass/unit area / oz/yd² **550** g/m² Pile Fibre Content **100% SOLUTION DYED NYLON**

Construction Details **Tufted** Secondary Backing **Thermoplastic Fibreglass Reinforced** Colour **Charcoal/Grey**

Style **Multi Level Loop** Pile Height **4/5** mm

The samples TESTED WERE MODULAR CARPET

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 August 2015 Test Date 21 August 2015

ASSEMBLY SYSTEM: DIRECT STICK (Details Below).

The floor covering was directly stuck to the substrate using WATER BASED SURFACE CONTACT 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 **8.0** kW/m²
Specimen 1 Width Direction Critical Radiant Flux **7.9** kW/m²
Full tests carried out in the **Width** Direction

SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m²)	7.9	5.2	7.8	7.0
Smoke Development Rate (%.min)	287	447	234	323

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 7.0 kW/m²

MEAN SMOKE DEVELOPMENT RATE 323 percent-minutes

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

NATA ACCREDITED FOR TECHNICAL COMPETENCE

M. B. Webb
Technical Manager

DATE: 21/8/2015

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	165	166	206	243	334	468	/											
2	173	174	185	197	337	509	949	1093	2125	/								
3	191	193	214	260	381	584	/											

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**	**75**	**266**	**265**	**738**
Specimen Tests: **Width**				
1	80	287	275	826
2	73	447	415	2,226
3	71	234	305	867
Mean	75	323	332	1,306

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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.
2004 04 09 8956 9 January 2011

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