m/s Quest Carpet Manufactures Pty Ltd
43-45 Mark Anthony Drive Dandenong South Vic 317
Att Ms Bridget Sunderland

LABORATORY TEST REPORT
P172038

MANTRA Action Bac

Sample description as provided by customer
Order No. **BS**
Pile weight mass/unit area **24** oz/yd² **816** g/m²
Pile Fibre Content **100% SOLUTION DYED NYLON**
Construction Details **Tufted** Secondary Backing **Synthetic**
Colour **Charcoal**
Style **Cut Pile Twist**
Pile Height **7** mm

PLEASE NOTE THE SECONDARY BACKING OF THE SAMPLE WAS ACTION BAC

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 **May 2017** Test Date **05 May 2017** Total Thickness mm

Assembly System: OVER UNDERLAY DUNLOP GOVERNMENT RED.

The UNDERLAY used was DUNLOP GOVERNMENT RED.

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 **1.3** kW/m²
Width Direction Critical Radiant Flux **1.2** kW/m²

	Specimen Tests conducted in the Width Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m²)	1.2	1.2	1.3	1.2
Smoke Development Rate (%.min)	401	425	409	412

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 1.2 kW/m²

Mean Smoke Development Rate 412 %.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.

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

M. B. Webb
Technical Manager

DATE: 05 May 2017

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

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