

Attn: MS Bridget Sunderland  
**m/s Quest Carpet Manufactures Pty Ltd**  
 43-45 Mark Anthony Drive Dandenong South Vic 3175

LABORATORY TEST REPORT  
**P172338**

# PLUTO

Sample description as provided by customer  
 Pile weight mass/unit area **60 oz/yd<sup>2</sup> 2040 g/m<sup>2</sup>**  
 Construction Details Tufted Secondary Backing Jute  
 Style Cut Pile

Order No. BS  
 Pile Fibre Content **100% SOLUTION DYED NYLON**  
 Colour **Dark Grey**  
 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 **Aug 2017** Test Date **06 Sep 2017** Total Thickness mm

## Assembly System: OVER UNDERLAY DUNLOP SUPERGREEN.

The UNDERLAY used was **DUNLOP SUPERGREEN.**

**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 **2.8 kW/m<sup>2</sup>**  
**Width** Direction Critical Radiant Flux **2.3 kW/m<sup>2</sup>**

	Specimen Tests conducted in the <b>Width</b> Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m <sup>2</sup> )	2.3	2.8	2.2	2.4
Smoke Development Rate (%.min)	347	354	369	357

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 2.4 kW/m<sup>2</sup>**

**Mean Smoke Development Rate 357 %.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.**

Page 1 of 2 (v5-0, 11/03/2017)



**M. B. Webb**  
 Technical Manager

DATE: 06 Sep 2017

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

