m/s DUNLOP FLOORING
86 BERKSHIRE Rd,NORTH SUNSHINE VIC 3020

LABORATORY TEST REPORT
P182757

LUNAR LANDING

Sample description as provided by customer Order No. **AR**
Pile weight mass/unit area **22** oz/yd² Pile Fibre Content **100% RESTAIN SOLUTION DYED NYLON**
Construction Details **Tufted** Secondary Backing **Synthetic** Colour **Charcoal/Grey**
Style **Loop 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 **Mar 2018** Test Date **02 Apr 2018** Total Thickness mm

Assembly: DOUBLE BOND (DOUBLE STICK) DUNLOP TECHNICS 5

The underlay used was DUNLOP TECHNICS 5 it was adhered to the substrate using ROBERTS 656 adhesive. The floor covering was adhered to the underlay using ROBERTS 95 adhesive.

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 **2.1** kW/m²

	Specimen Tests conducted in the Width Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m²)	2.1	2.6	2.5	2.4
Smoke Development Rate (%.min)	374	382	368	375

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/m²

Mean Smoke Development Rate 375 %.min

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

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: 02 Apr 2018

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	191	192	240	269	295	320	362	478	649	1034	1427	1795	2559	/				
2	207	209	251	273	279	317	346	426	576	910	1475	2069	/					
3	208	210	253	287	329	352	402	513	648	1020	1529	2493						

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: **Length**	**590**	**2,109**	**76**	**382**
Specimen Tests: **Width**				
1	630	2,708	75	374
2	580	2,245	76	382
3	585	2,135	75	368
Mean	598	2,363	75	375

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

M. B. Webb
Technical Manager

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2004 04 09 17149 2 April 2018

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