

# LUNAR LANDING

**Sample description as provided by customer**

Pile weight mass/unit area **22 oz/yd<sup>2</sup>**  
 Construction Details **Tufted Secondary Backing Synthetic**  
 Style **Loop Pile**

Order No. **Sue**  
 Pile Fibre Content **100% RESISTAIN SOLUTION DYED NYLON**  
 Colour **Tasman**  
 Pile Height **4.5 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 **2/7/2009** Test Date **14/7/2009** Total Thickness **mm**

## Assembly System: OVER UNDERLAY AIRSTEP FIRECHECK 11.

The UNDERLAY used was **AIRSTEP FIRECHECK 11**.

**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/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	2.2	2.3	2.3
Smoke Development Rate (%.min)	472	421	469	454

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

**Mean Smoke Development Rate 454 %.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.**

 <small>ACCREDITED FOR TECHNICAL COMPETENCE</small>	<b>M. B. Webb</b> Technical Manager	
	DATE: 14/7/2009	
	Performance & Approvals Accreditation No. 15393	
	Accredited for compliance with ISO/IEC 17025.	

**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	150	154	183	198	215	233	254	283	320	507	692	1043	1621					
2	143	146	175	206	235	259	291	338	399	572	619	987	1291					
3	146	149	174	206	220	242	278	298	353	545	739	1239	1638					

**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	608	1,709	83	419
Specimen Tests: Width				
1	620	1,748	86	472
2	631	1,957	82	421
3	618	1,670	83	469
Mean	623	1,792	84	454




**M. B. Webb**  
Technical Manager

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