

CUSTOMER REFERENCE  
**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. **PO 27577**

Pile Fibre Content **100% RESISTAIN SOLUTION DYED NYLON**

Colour **Various**

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 specification C1.10 of the Building Code of Australia.**

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. Clause 9 of AS/ISO 9239 Part 1.

Conditioning as specified in BS EN 13238.2001

Sample submitted Date **Mar 2017**

Test Date **09 Mar 2017**

## ASSEMBLY SYSTEM: DOUBLE BOND (DOUBLE STICK)

**DUNLOP DB5**

The underlay used was **DUNLOP DB5** it was adhered to the substrate using **656** adhesive. The floor covering was adhered to the underlay using **95** adhesive.

Substrate: Non-Combustible

Substrate - 6mm Fibre Reinforced Cement Board to simulate a Non-Combustible Flooring.

The Holding Torque on Specimen Frame was 2Nm.

Initial Test Specimen 1 Length Direction Critical Radiant Flux **3.4 kW/m<sup>2</sup>**  
Specimen 1 Width Direction Critical Radiant Flux **3.1 kW/m<sup>2</sup>**  
Full tests carried out in the **Width** Direction

SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m <sup>2</sup> )	<b>3.1</b>	<b>3.1</b>	<b>3.2</b>	<b>3.1</b>
Smoke Development Rate (%.min)	<b>160</b>	<b>212</b>	<b>185</b>	<b>186</b>

The values quoted below are as required by Specification C1.10 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 **3.1 kW/m<sup>2</sup>**

### MEAN SMOKE DEVELOPMENT RATE **186 percent-minutes**

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



**M. B. Webb**  
Technical Manager

DATE: 09 Mar 2017

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Clause 9 of AS/ISO 9239 Part 1

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	164	165	225	257	321	365	496	619	1099	1658	2258	/						
2	212	213	297	308	318	349	382	548	773	1075	1500	/						
3	218	219	236	291	324	372	473	551	943	1503	1853							

**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: <b>Length</b>	509	2,419	33	179
Specimen Tests: <b>Width</b>				
1	530	2,512	34	160
2	530	2,050	31	212
3	524	1,953	34	185
<b>Mean</b>	528	2,172	33	186



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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 Clause 9 of AS/ISO 9239 Part 1  
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