

## DERWENT VALLEY

Sample description as provided by customer  
 Pile weight mass/unit area 30 oz/yd<sup>2</sup>  
 Construction Details **Tufted** Secondary Backing **Synthetic**  
 Style **Loop Pile**

Order No. **KG**  
 Pile Fibre Content **100% SOLUTION DYED NYLON**  
 Colour **Lt Fawn**  
 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 **Nov 2017** Test Date Total Thickness mm

### Assembly System: **DOUBLE BOND (DOUBLE STICK) AIRSTEP SENSI SLAB**

The underlay used was **AIRSTEP SENSI SLAB** 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 **2.2 kW/m<sup>2</sup>**  
**Width** Direction Critical Radiant Flux **2.2 kW/m<sup>2</sup>**

	Specimen Tests conducted in the <b>Length</b> Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m <sup>2</sup> )	2.2	2.3	2.2	2.2
Smoke Development Rate (%.min)	320	455	308	361

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

**Mean Smoke Development Rate **361** %.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.**

 ACCREDITED FOR <b>TECHNICAL          COMPETENCE</b>	<b>M. B. Webb</b> Technical Manager	
	DATE:	
	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	214	215	342	358	372	415	458	626	828	1363	1553	2019		/				
2	256	258	292	314	339	402	482	547	768	955	1235	1540		/				
3	253	255	281	356	408	531	596	644	852	1191	1547	2182						

**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: Width	605	2,481	71	401
Specimen Tests: Length				
1	605	2,583	66	320
2	595	2,164	75	455
3	608	2,473	74	308
Mean	603	2,407	72	361



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