

## HIGH TECH

**Sample description as provided by customer**

Pile weight mass/unit area **20 oz/yd<sup>2</sup>**  
Construction Details **Tufted Secondary Backing Synthetic**  
Style **Loop Pile**

Order No. **Sue**  
Pile Fibre Content **100% RESISTIAN 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 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 **Apr 2017** Test Date **April 2017** Total Thickness **mm**

### Assembly System: OVER UNDERLAY AIRSTEP STEPSMART.

The UNDERLAY used was **AIRSTEP STEPSMART**.

**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 **4.9 kW/m<sup>2</sup>**  
**Width** Direction Critical Radiant Flux **4.3 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> )	4.3	4.7	4.5	4.5
Smoke Development Rate (%.min)	157	152	122	144

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

**Mean Smoke Development Rate 144 %.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.**

<p>ACCREDITED FOR <b>TECHNICAL</b> COMPETENCE</p>	<p><b>M. B. Webb</b> Technical Manager</p>	
	<p>DATE: April 2017</p>	
	<p>Performance &amp; Approvals Accreditation No. 15393 Accredited for compliance with ISO/IEC 17025.</p>	

**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	127	128	144	180	212	246	287	457	913									
2	130	132	148	161	217	279	353	465	995									
3	140	141	151	171	203	291	481	587	649									

**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	410	1,099	30	160
Specimen Tests: Width				
1	440	1,358	33	157
2	420	1,239	32	152
3	430	932	29	122
Mean	430	1,176	31	144



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