

## HAMILTON ( George Low )

Sample description as provided by customer  
Pile weight mass/unit area **40 oz/yd<sup>2</sup> 1356 g/m<sup>2</sup>**  
Construction Details **Tufted Secondary Backing Jute**  
Style **Cut Pile**

Order No. **ST**  
Pile Fibre Content **100% NYLON**  
Colour **Charcoal**  
Pile Height **9 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 **May 2018** Test Date **10 May 2018** Total Thickness mm

### Assembly: **DOUBLE BOND (DOUBLE STICK) DUNLOP DURAFIT 7**

The underlay used was **DUNLOP DURAFIT 7** 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 **3.0 kW/m<sup>2</sup>**  
**Width** Direction Critical Radiant Flux **2.8 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> )	2.8	2.8	3.2	2.9
Smoke Development Rate (%.min)	673	598	593	621

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

**Mean Smoke Development Rate 621 %.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.**

 <b>NATA</b> <small>ACCREDITED FOR TECHNICAL COMPETENCE</small>	<b>M. B. Webb</b> Technical Manager	
	DATE: 10 May 2018	
	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	271	272	319	302	390	438	473	550	621	747	979	1230	1239	/				
2	146	147	215	263	288	326	363	407	442	574	790	968	/					
3	145	146	212	289	383	455	529	637	752	873	983							

**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>	<b>540</b>	<b>983</b>	<b>78</b>	<b>651</b>
Specimen Tests: <b>Width</b>				
1	560	1,241	79	673
2	560	1,097	81	598
3	520	1,198	80	593
<b>Mean</b>	<b>547</b>	<b>1,179</b>	<b>80</b>	<b>621</b>



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COMPETENCE**

**M. B. Webb**  
Technical Manager

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