

HAMILTON (George Low)

Sample description as provided by customer
Pile weight mass/unit area **40 oz/yd² 1356 g/m²**
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 TECHNICS 5.**

The underlay used was **DUNLOP TECHNICS 5** 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 **3.4 kW/m²**
Width Direction Critical Radiant Flux **2.8 kW/m²**

	Specimen Tests conducted in the Width Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m ²)	2.8	3.4	2.9	3.0
Smoke Development Rate (%.min)	502	456	471	476

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 3.0 kW/m²

Mean Smoke Development Rate 476 %.min

Observations: **The samples singed, 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 TECHNICAL COMPETENCE</p>	<p>M. B. Webb Technical Manager</p>	
	<p>DATE: 10 May 2018</p>	
	<p>Performance & Approvals Accreditation No. 15393</p>	
	<p>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	292	293	323	386	431	440	520	365	709	931	1114	1633	/					
2	242	243	282	376	469	472	528	594	719	1020	1231	/						
3		229	319	384	414	498	541	644	745	938	1082	/						

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	510	1,463	66	396
Specimen Tests: Width				
1	560	1,637	69	502
2	510	1,236	63	456
3	550	1,246	68	471
Mean	540	1,373	67	476



ACCREDITED FOR
**TECHNICAL
 COMPETENCE**



M. B. Webb
 Technical Manager

DATE: 10 May 2018

Performance and Approvals
 Accreditation No. 15393
 Accredited for compliance
 with ISO/IEC 17025.

2004 04 09 19407 10 May 2018