

## SILKEN TONE

Sample description as provided by customer  
 Pile weight mass/unit area 1220 g/m<sup>2</sup>  
 Construction Details Tufted Secondary Backing Jute  
 Style Cut Pile

Order No. 44039  
 Pile Fibre Content 100% BCF NYLON  
 Colour Grey  
 Pile Height 8.0 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 Oct 2017 Test Date 27 Oct 2017 Total Thickness mm

### Assembly System: OVER UNDERLAY DUNLOP GOVERNMENT RED

The UNDERLAY used was DUNLOP GOVERNMENT RED.

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/m<sup>2</sup>  
 Width Direction Critical Radiant Flux 3.3 kW/m<sup>2</sup>

	Specimen Tests conducted in the Width Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m <sup>2</sup> )	3.3	3.1	3.3	3.2
Smoke Development Rate (%.min)	259	298	266	274

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

**Mean Smoke Development Rate 274 %.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.



**M. B. Webb**  
 Technical Manager

DATE: 27 Oct 2017

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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	172	173	205	231	259	295	329	418	580	926	1633	/						
2	162	163	185	196	214	259	342	423	587	856	1232	/						
3	172	173	201	228	265	305	369	483	619	905	1399							

**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	1,583	65	273
Specimen Tests: Width				
1	520	1,769	66	259
2	530	1,983	59	298
3	520	1,805	61	266
Mean	523	1,852	62	274




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