

BRIGADE

Sample description as provided by customer
 Pile weight mass/unit area **28 oz/yd²**
 Construction Details **Tufted Secondary Backing Synthetic**
 Style **Loop Pile**

Order No. **Sue**
 Pile Fibre Content **100% SOLUTION DYED NYLON**
 Colour **Fawn Shades**
 Pile Height **5 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 **11/Nov 2017** 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 **3.5 kW/m²**
Width Direction Critical Radiant Flux **2.2 kW/m²**

	Specimen Tests conducted in the Width Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m ²)	2.2	2.9	3.5	2.9
Smoke Development Rate (%.min)	409	368	345	374

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/m²

Mean Smoke Development Rate 374 %.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: 11/11/2017

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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	180	181	222	254	280	325	357	399	476	580	961	1290	1936					
2	180	182	209	266	304	351	389	432	486	683	1233							
3	197	199	219	251	272	289	357	407	506	672								

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	490	1,102	82	364
Specimen Tests: Width				
1	620	2,309	83	409
2	540	1,616	80	368
3	490	2,386	78	345
Mean	550	2,104	80	374




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