

S 301

Sample description as provided by customer
 Pile weight mass/unit area **1650 g/m²**
 Construction Details **Tufted Secondary Backing Synthetic**
 Style Cut Pile

Order No. **LC**
 Pile Fibre Content **Stainproof SDX SOFT (SDN)**
 Colour **Grey**
 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 **Feb 2018** Test Date **03 Mar 2018** Total Thickness **mm**

Assembly: 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 **2.7 kW/m²**
Width Direction Critical Radiant Flux **2.3 kW/m²**

	Specimen Tests conducted in the Width Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m ²)	2.3	2.3	2.6	2.4
Smoke Development Rate (%.min)	448	394	390	411

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 2.4 kW/m²

Mean Smoke Development Rate 411 %.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: 03 Mar 2018

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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	270	271	321	367	397	423	456	499	555	683	988	1450	/					
2	220	221	300	361	407	429	449	491	507	569	873	1238	2092	/				
3	223	224	302	359	421	469	561	629	726	887	1025	1657						

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	570	2,241	72	354
Specimen Tests: Width				
1	602	2,451	71	448
2	610	2,394	75	394
3	580	2,253	74	390
Mean	597	2,366	73	411



ACCREDITED FOR
**TECHNICAL
COMPETENCE**

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Technical Manager

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