

## S 201

**Sample description as provided by customer**  
 Pile weight mass/unit area **1150 g/m<sup>2</sup>**  
 Construction Details **Tufted Secondary Backing Synthetic**  
 Style **Cut Pile**

Order No. **LC**  
 Pile Fibre Content **Stainproof SDX SOFT (SDN )**  
 Colour **Grey**  
 Pile Height **10.5 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 **Feb 2018**

Test Date **03 Mar 2018**

Total Thickness **11.5 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 **1.7 kW/m<sup>2</sup>**  
**Width** Direction Critical Radiant Flux **1.5 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> )	1.5	1.6	1.7	1.6
Smoke Development Rate (%.min)	323	319	339	327

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

**Mean Smoke Development Rate 327 %.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.**

 <small>ACCREDITED FOR</small> <b>TECHNICAL</b> <small>COMPETENCE</small>	<b>M. B. Webb</b> Technical Manager	
	DATE: 03 Mar 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	182	183	242	278	311	347	358	382	431	529	692	973	1239	1982	2382			
2	162	163	248	256	299	340	372	408	432	513	778	1001	1558	2026	/			
3	172	173	239	258	302	358	402	455	539	649	781	1029	1752	2215				

**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	690	2,183	70	302
Specimen Tests: Width				
1	730	2,680	71	323
2	708	2,578	73	319
3	690	2,415	74	339
Mean	709	2,558	73	327



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