

S 101

Sample description as provided by customer

Pile weight mass/unit area **800 g/m²** Pile Fibre Content **100% Stainproof SDX Soft SOLUTION DYED NYLON**
 Construction Details **Tufted** Secondary Backing **Synthetic** Colour **Grey**
 Style Cut Pile Pile Height **mm**

Order No.

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 **Mar 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 **1.4 kW/m²**
 Width Direction Critical Radiant Flux **1.3 kW/m²**

	Specimen Tests conducted in the (none) Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m ²)	1.3	1.2	1.2	1.2
Smoke Development Rate (%.min)	221	228	279	243

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 1.2 kW/m²

Mean Smoke Development Rate 243 %.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.



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	172	174	181	229	255	293	339	442	502	591	642	793	882	1029	1482	1845		
2	166	167	176	212	235	263	282	304	324	369	436	741	1058	1423	1878	2417	2928	
3	165	167	196	207	221	235	272	278	317	364	367	441	626	1056	1478	1878	2254	

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	750	1,853	73	208
Specimen Tests: Width				
1	780	2,193	72	221
2	815	2,996	73	228
3	810	2,263	80	279
Mean	802	2,484	75	243



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**TECHNICAL
COMPETENCE**

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Technical Manager

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