

25oz FR SDN

Sample description as provided by customer
 Pile weight mass/unit area 25 oz/yd²
 Construction Details Tufted Secondary Backing Synthetic
 Style Loop Pile

Order No. JG
 Pile Fibre Content 100% SOLUTION DYED NYLON
 Colour Various
 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 Apr 2017 Test Date April 2017 Total Thickness mm

Assembly System: OVER UNDERLAY AIRSTEP STEPLIGHT

The UNDERLAY used was AIRSTEP STEPLIGHT.

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 3.3 kW/m²
 Width Direction Critical Radiant Flux 2.8 kW/m²

	Specimen Tests conducted in the Width Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m ²)	2.8	2.5	3.3	2.9
Smoke Development Rate (%.min)	164	184	175	174

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 174 %.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: April 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	228	230	287	379	497	723	995	1089	1354	1787	1940							
2	199	200	323	381	451	493	757	854	985	1123	1562	2132						
3	210	212	309	382	502	698	894	1109	1389	1869								

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	545	2,096	39	171
Specimen Tests: Width				
1	550	2,693	39	164
2	580	2,287	37	184
3	500	2,192	35	175
Mean	543	2,391	37	174




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24 April 2017