

NIGHTINGALE

Sample description as provided by customer
 Pile weight mass/unit area 40 oz/yd²
 Construction Details Tufted Secondary Backing Synthetic
 Style Textured Loop

Order No. KG
 Pile Fibre Content 100% WOOL
 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 Mar 2017 Test Date 20 Mar 2017 Total Thickness mm

Assembly System: OVER UNDERLAY DUNLOP EXCELLAY

The UNDERLAY used was DUNLOP EXCELLAY.

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 7.9 kW/m²
 Width Direction Critical Radiant Flux 7.9 kW/m²

	Specimen Tests conducted in the Length Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m ²)	7.9	7.8	7.8	7.8
Smoke Development Rate (%.min)	36	35	39	37

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 7.8 kW/m²

Mean Smoke Development Rate 37 %.min

Observations: The samples singed, ignited and burnt a 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: 20 Mar 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	126	127	130	159	162	224												
2	125	126	129	134	138	153	/											
3	126	127	130	135	142	150	/											

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: Width	271	751	15	35
Specimen Tests: Length				
1	272	762	18	36
2	280	758	16	35
3	280	740	16	39
Mean	277	753	17	37



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**TECHNICAL
COMPETENCE**



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