

COLOBEAT 746g/m² Duracolor Tile on NXT

Sample description as provided by customer Order No. CL
 Pile weight mass/unit area 22 oz/yd² 746 g/m² Pile Fibre Content 100% Duracolor Premium Nylon
 Construction Details Tufted Secondary Backing Tile EcoFLEX NXT Colour
 Style Pile Height mm
 The Samples Tested Were Modular Carpet Dimensions 24" x 24"

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 Dec 2017 Test Date 08 Dec 2017 Total Thickness mm

Assembly System: DIRECT STICK (Details Below).

The floor covering was directly stuck to the substrate using Water based Surface Contact adhesive.

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 6.7 kW/m²
 Width Direction Critical Radiant Flux 6.4 kW/m²

	Specimen Tests conducted in the Width Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m ²)	6.4	6.8	6.7	6.6
Smoke Development Rate (%.min)	92	96	91	93

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 6.6 kW/m²

Mean Smoke Development Rate 93 %.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: 08 Dec 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	230	231	340	438	468	959	1290	/										
2	229	230	284	369	421	523	889	/										
3	241	242	293	371	502	916	1281											

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	330		28	79
Specimen Tests: Width				
1	340	1,620	31	92
2	320	2,344	32	96
3	330	1,593	30	91
Mean	330	1,852	31	93




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