

DATUM 474g/m Colorstrand SDN Tile on ICT

Sample description as provided by customer

Pile weight mass/unit area **474 g/m²**
 Construction Details **Tufted Secondary Backing Tile EcoFLEX ICT**
 Style

Order No. **CL**
 Pile Fibre Content **100% COLORSTRAND SDN**
 Colour
 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 **Dec 2017** Test Date **07 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 **5.5 kW/m²**
Width Direction Critical Radiant Flux **5.1 kW/m²**

	Specimen Tests conducted in the Width Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m ²)	5.1	5.1	4.9	5.0
Smoke Development Rate (%.min)	216	249	231	232

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 5.0 kW/m²

Mean Smoke Development Rate 232 %.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: 07 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	174	175	244	260	328	515	560	750	/									
2	212	214	257	350	396	545	582	809	/									
3	241	243	271	302	371	427	538	595	1058	/								

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	380	1,142	66	209
Specimen Tests: Width				
1	400	1,346	64	216
2	400	1,205	63	249
3	410	1,063	64	231
Mean	403	1,205	64	232

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Technical Manager

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