

# 1221 grams/m<sup>2</sup> Colorstrand® SD Nylon Textured Cut & Loop

Sample description as provided by customer Order No. CW  
 Pile weight mass/unit area 1221 g/m<sup>2</sup> Pile Fibre Content 100% Colorstrand® SOLUTION DYED NYLON  
 Construction Details Tufted Secondary Backing Unibond Plus Colour Gold  
 Style Textured Cut & Loop 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 **31 Mar 2017** Total Thickness mm

## Assembly System: DIRECT STICK (Details Below).

The floor covering was directly stuck to the substrate using **Roberts 95** 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 **5.8 kW/m<sup>2</sup>**  
**Width** Direction Critical Radiant Flux **5.3 kW/m<sup>2</sup>**

	Specimen Tests conducted in the <b>Width</b> Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m <sup>2</sup> )	5.3	5.7	9.9	7.0
Smoke Development Rate (%.min)	197	192	99	163

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 7.0 kW/m<sup>2</sup>**

**Mean Smoke Development Rate 163 %.min**

Observations: **The samples shrunk away from the heat source, 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.

 <small>ACCREDITED FOR TECHNICAL COMPETENCE</small>	<b>M. B. Webb</b> Technical Manager	
	DATE: 31 Mar 2017	
	Performance & Approvals Accreditation No. 15393 Accredited for compliance with ISO/IEC 17025.	

**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	204	206	351	482	728	959	1104	1556	/									
2	228	230	322	486	574	776	1134	1537	/									
3	227	223	336	487	/													

**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	366	1,483	29	183
Specimen Tests: Width				
1	390	2,082	32	197
2	370	1,837	30	192
3	180	796	27	99
Mean	313	1,572	30	163



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Technical Manager

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