

## TWEED

**Sample description as provided by customer**  
 Pile weight mass/unit area **20 g/m<sup>2</sup>**  
 Construction Details **Tufted Secondary Backing Tile**  
 Style **Multi Level Loop**  
 The Samples Tested Were **Modular Carpet**

Order No. **PS**  
 Pile Fibre Content **100% SOLUTION DYED NYLON**  
 Colour **Charcoal/Grey**  
 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 **Sep 2017** Test Date **19 Oct 2017** Total Thickness **mm**

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

The floor covering was directly stuck to the substrate using **Water Based Surface Contract** 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 **6.2 kW/m<sup>2</sup>**  
**Width** Direction Critical Radiant Flux **6.8 kW/m<sup>2</sup>**

	Specimen Tests conducted in the <b>Length</b> Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m <sup>2</sup> )	6.2	5.9	5.8	6.0
Smoke Development Rate (%.min)	243	254	249	249

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

**Mean Smoke Development Rate 249 %.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: 19 Oct 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	244	245	347	433	575	895	1186	/										
2	211	212	283	394	616	1141	1392	1648	/									
3	248	249	301	452	598	735	1185	1656	/									

**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	320	1,614	36	243
Specimen Tests: Length				
1	350	1,810	41	243
2	360	1,651	39	254
3	365	1,662	40	249
Mean	358	1,708	40	249



ACCREDITED FOR  
**TECHNICAL  
COMPETENCE**



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