

## SHIFT/CODE COMFI BAK

Sample description as provided by customer

Pile weight mass/unit area **646 g/m<sup>2</sup>**

Construction Details **Tufted Secondary Backing COMFI BAK**

Style **Multi Level Loop**

The Samples Tested Were **Modular Carpet With COMFI BAK**

Order No. **PO109836**

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 **18 Oct 2017**

Total Thickness **9.5 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 **9.3 kW/m<sup>2</sup>**  
**Width** Direction Critical Radiant Flux **9.2 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> )	9.2	8.9	8.9	9.0
Smoke Development Rate (%.min)	275	295	263	278

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

**Mean Smoke Development Rate 278 %.min**

Observations: **The samples shrunk away from the heat source, ignited and burnt a very 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.

<p>ACCREDITED FOR  <b>TECHNICAL          COMPETENCE</b></p>	<p><b>M. B. Webb</b>          Technical Manager</p>	
	<p>DATE: 18 Oct 2017</p>	
	<p>Performance &amp; Approvals          Accreditation No. 15393          Accredited for compliance with ISO/IEC 17025.</p>	

**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	221	222	284	334	426	/												
2	180	181	257	313	368	/												
3	208	210	258	293	367	/												

**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	210	721	66	251
Specimen Tests: Width				
1	220	723	67	275
2	230	732	73	295
3	230	741	64	263
Mean	227	732	68	278



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