Mr Damien Ryan,Technical Manager
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13 Wurundjeri Drive Epping Vic 3076

LABORATORY TEST REPORT
P172421

SHIFT/CODE THERMO BAK

Sample description as provided by customer Order No. **PO109836**
Pile weight mass/unit area **646** g/m² Pile Fibre Content **100% SOLUTION DYED NYLON**
Construction Details **Tufted** Secondary Backing **COMFI BAK** Colour **Charcoal /Grey**
Style **Multi Level Loop** Pile Height mm
The Samples Tested Were Modular Carpet With THERMO BAK

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 **7.0** 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 **5.2** 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/m²)	5.1	9.2	5.1	6.5
Smoke Development Rate (%.min)	190	108	147	148

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 6.5 kW/m²

Mean Smoke Development Rate 148 %.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.

M. B. Webb
Technical Manager

DATE: 19 Oct 2017

Performance & Approvals
Accreditation No. 15393
Accredited for compliance with ISO/IEC 17025.

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The information provided on this page of the test report is for the Sponsors Use Only and will meet the requirements of the standard. This page is Not Required and has No Validity under Specification C1.10 Fire Hazard Properties (Floors) of the BCA and NCC 2015.
The laboratory does not allow the use of this page of the report without the use of page 1.

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	263	264	340	402	523	959	1120	1582	/									
2	206	207	298	406	556	/												
3	263	264	397	488	564	1043	1133	1558	/									

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**	**395**	**1,793**	**41**	**186**
Specimen Tests: **Width**				
1	400	1,985	42	190
2	220	776	33	108
3	400	2,065	31	147
Mean	340	1,609	35	148

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

M. B. Webb
Technical Manager

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