m/s Beaulieu of Australia
64 Lahrs Rd,Ormeau Q/Ld 4208
Attn: MS Sue Schultz

TEST REPORT No. 171935

LABORATORY REF: P171935

CUSTOMER REFERENCE

TORNADO

Sample description as provided by customer Order No. **PO 27577**
Pile weight mass/unit area **22** oz/yd² Pile Fibre Content **100% RESISTAIN SOLUTION DYED NYLON**
Construction Details **Tufted** Secondary Backing **Synthetic** Colour **Various**
Style **Loop Pile** 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 specification C1.10 of the Building Code of Australia.

The test values 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. Clause 9 of AS/ISO 9239 Part 1.

Conditioning as specified in BS EN 13238.2001
Sample submitted Date **Mar 2017** Test Date **15 Mar 2017**

ASSEMBLY SYSTEM: DIRECT STICK (Details Below).

The floor covering was directly stuck to the substrate using Roberts 95 adhesive.

Substrate: Non-Combustible
Substrate – 6mm Fibre Reinforced Cement Board to simulate a Non-Combustible Flooring.
The Holding Torque on Specimen Frame was 2Nm.

Initial Test Specimen 1 Length Direction Critical Radiant Flux **6.8** kW/m²
Specimen 1 Width Direction Critical Radiant Flux **6.8** kW/m²
Full tests carried out in the **Length** Direction

SPECIMEN	Length #1	Length #2	Length #3	Mean
Critical Radiant Flux (kW/m²)	6.8	6.4	5.9	6.4
Smoke Development Rate (%.min)	28	31	19	26

The values quoted below are as required by Specification C1.10 Fire Hazard Properties (Floors) of the Building Code of Australia. The Critical Radiant Flux quoted is the value at Flame-Out/Extinguishment (BCA General Provisions A1.1).

MEAN CRITICAL RADIANT FLUX 6.4 kW/m²

MEAN SMOKE DEVELOPMENT RATE 26 percent-minutes

OBSERVATIONS: **The samples shrunk away from the heat source, ignited and burnt a short distance.**

NATA ACCREDITED FOR TECHNICAL COMPETENCE

M. B. Webb
Technical Manager

DATE: 15 Mar 2017

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

PAGE 1 of 2

Clause 9 of AS/ISO 9239 Part 1

The values on Page 2 have no relevance to the Code.

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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	249	250	380	457	583	807	1164	/										
2	190	191	279	336	500	694	1142	/										
3	213	214	264	345	546	865	1367	1756	/									

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**	**1,938**	**2**	**22**
Specimen Tests: **Length**				
1	**320**	**1,443**	**2**	**28**
2	**340**	**1,372**	**3**	**31**
3	**360**	**1,832**	**2**	**19**
Mean	**340**	**1,549**	**2**	**26**

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

M. B. Webb
Technical Manager

DATE: 15 Mar 2017

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The laboratory does not allow the use of this page of the report without the use of page 1.
This page alone has no validity under Clause 9 of AS/ISO 9239 Part 1
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