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

TEST REPORT No. 171952

LABORATORY REF: P171952

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 **14 Mar 2017**

ASSEMBLY SYSTEM: OVER UNDERLAY DUNLOP GOVERNMENT RED.

The UNDERLAY used was DUNLOP GOVERNMENT RED.

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 **3.3** kW/m²
Specimen 1 Width Direction Critical Radiant Flux **2.6** kW/m²
Full tests carried out in the **Width** Direction

SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m²)	2.6	3.4	2.8	2.9
Smoke Development Rate (%.min)	144	118	115	126

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 2.9 kW/m²

MEAN SMOKE DEVELOPMENT RATE 126 percent-minutes

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

NATA ACCREDITED FOR TECHNICAL COMPETENCE

M. B. Webb
Technical Manager

DATE: 14 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	160	161	164	174	234	274	314	362	386	464	611	1266	/					
2	126	127	129	131	142	223	286	353	667	1158	1288	/						
3	128	129	131	135	163	237	322	386	514	743	896	1133	/					

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**	515	1.236	37	129
Specimen Tests: **Width**				
1	580	1,571	38	144
2	510	1,383	32	118
3	560	1,281	37	115
Mean	550	1,412	36	126

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

M. B. Webb
Technical Manager

DATE: 14 Mar 2017

Performance and Approvals Testing No. 15393
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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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