



Sue Schultz
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TEST REPORT No. 093246

LABORATORY REF: P093246

CUSTOMER REFERENCE

TORNADO

Sample description as provided by customer

Mass/unit area **22 oz/yd²** g/m² Pile Fibre Content **100% RESISTAIN SOLUTION DYED NYLON**

Construction Details **Tufted** Secondary Backing **Synthetic**

Style **LOOP**

Order No. **14442**

Colour **B/Pool**

Pile Height **4.5 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 C1.10a of the Building Code of Australia.

Tested in accordance with the Carpet Institute Code of Practice for AS/ISO 9239 Testing Version 10 / 0805.

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. Clause 9 of AS/ISO 9239 Part 1

Conditioning as specified in BS EN 13238.2001

Sample submitted Date **22/3/2009**

Test Date **4/4/2009**

ASSEMBLY SYSTEM OVER UNDERLAY details below.

The UNDERLAY used was BRIDGESTONE STANDARD BLACK RUBBER

Substrate : Non-combustible

Substrate - 6mm Fibre Reinforced Cement Board to simulate a Non-Combustible Flooring.

Sample Cleaned as Specified in ISO 11379.1997

Initial Test Specimen 1 Length Direction Critical Radiant Flux **1.2 kW/m²**
 Specimen 1 Width Direction Critical Radiant Flux **1.1 kW/m²**
 Full tests carried out in the **Width Direction**

SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m ²)	1.1	1.2	1.2	1.2
Smoke Development Rate (%.min)	306	459	359	375

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

MEAN CRITICAL RADIANT FLUX 1.2 kW/m²

MEAN SMOKE DEVELOPMENT RATE 375 %.min

OBSERVATIONS The samples shrunk away from the heat source then ignited



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COMPETENCE**

Authorised Signatory **M. B. Webb**
 Technical Manager *[Signature]*
 DATE *4/4/2009*
 Measurement Science and
 Technology No. 15393

PAGE 1 of 2

Page 2 only shows the time required in seconds for the flame front to reach each time marker, the total test time and the CHF value at 30 minutes (if applicable).

The laboratory allows the use of this page of the report without the use of page 2.

1003 05 07

Pyrometer temperature
 On calibration 576.6 °C
 Start of test run 577.3
 During test run 577.8

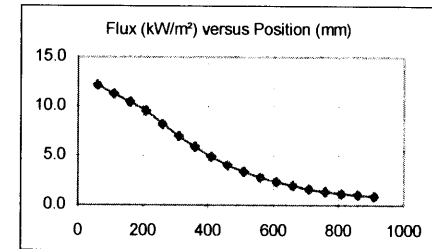
Chamber temperature
 On calibration 99.2 °C
 Start of test run 101.3
 During test run 101.8

Clause 7.2.2 AS/ISO 9239 The pyrometer should be ± 5° of calibration temperature.
 The Chamber temperature should be ±10° of calibration temperature
 The Holding Tension on Specimen Frame was 2 Nm

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	142	148	158	169	188	216	260	285	306	415	754	1069	1484	1548	2038	2499	2980	
2	130	134	151	173	194	199	211	227	262	273	311	327	462	704	1301	1592	2057	
3	143	147	156	182	201	225	257	279	312	393	729	983	1253	1497	1739	2266	2591	

FLUX CALIBRATION: FLX08001



TESTS

SMOKE PRODUCTION

BURNING CHARACTERISTICS

Specimen	Maximum Light Attenuation (%)	Smoke Development Rate (%.min)	Burn Length at Flame Out (mm)	Time To Burn Out (s)	Critical Heat Flux at 30min (kW/m²)
Initial Test: Length	82	328	809	3,005	1.8
Specimen Tests: Width					
1	84	306	830	3,274	1.9
2	88	459	820	2,353	1.3
3	85	359	814	2,751	1.8
Mean	86	375	821	2,793	1.7



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Measurement Science and
 Technology No. 15393

Authorised Signatory
M B Webb
 Date 4/4/2009