m/s Beaulieu of Australia
64 Lahrs Rd, Ormeau Q/ld 4208

TEST REPORT No. 082937A

LABORATORY REF: P082937A

CUSTOMER REFERENCE

TERABYTE

Sample description as provided by customer Order No. **13773**

Mass/unit area **28** oz/yd² g/m² Pile Fibre Content **100% RESISTSTAIN SOLUTION DYED NYLON**

Construction Details **Tufted** Secondary Backing **Synthetic** Colour **Terrazzo**

Style **LOOP** Pile Height **5.0** 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 **21/10/2008** Test Date **8/11/2008**

ASSEMBLY SYSTEM OVER UNDERLAY details below.

The UNDERLAY used was BRIDGESTONE PRIME.

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 **1.7** kW/m²
Specimen 1 Width Direction Critical Radiant Flux **1.6** kW/m²
Full tests carried out in the **Width** Direction

SPECIMEN -	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m²)	1.6	1.9	1.7	1.7
Smoke Development Rate (%.min)	484	487	492	488

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 1.7 kW/m²

MEAN SMOKE DEVELOPMENT RATE 488 %.min

OBSERVATIONS **The samples shrunk away from the heat source then ignited**

NATA ACCREDITED FOR TECHNICAL COMPETENCE

Authorised Signatory **M. B. Webb**

Technical Manager

DATE

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.

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Pyrometer temperature
On calibration 576.6°C
Start of test run 577.4
During test run 577.9

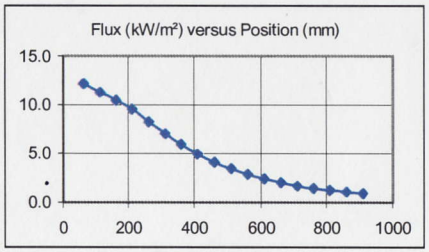
Chamber temperature
On calibration 99.2°C
Start of test run 100.6
During test run 100.2

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	189	196	241	296	304	372	401	563	630	754	1048	1669	1977	2432	3159	/		
2	193	202	239	305	332	384	452	574	657	869	1184	1594	2169	2561				
3	176	183	259	307	329	345	396	458	602	942	1220	1787	2478	3397	/			

FLUX CALIBRATION: FLX08001



TESTS

Specimen	SMOKE PRODUCTION: Maximum Light Attenuation (%)	SMOKE PRODUCTION: Smoke Development Rate (%.min)	BURNING CHARACTERISTICS: Burn Length at Flame Out (mm)	BURNING CHARACTERISTICS: Time To Burn Out (s)	BURNING CHARACTERISTICS: Critical Heat Flux at 30min (kW/m²)
Initial Test: **Length**	**78**	**473**	**702**	3,499	2.5
Specimen Tests: **Width**					
1	80	484	720	3,630	2.4
2	81	487	673	3,593	2.5
3	76	492	700	3,705	2.7
Mean	79	488	698	3,643	2.5

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Technology No. 15393

Authorised Signatory
M B Webb
Date **8/11/2008**

PAGE 2 of 2
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 specification C1.10a Fire Hazard Properties (Floors) of the Building Code of Australia.

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