

CUSTOMER REFERENCE

## TREDSAFE DIAMONDRED

Sample description as provided by customer

Order No. HS

SAFETY FLOORING AND STAIR FINISH. Product Weight Tested 4.5kg/sqm

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.*

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 Oct /2009

Test Date 26/11/2009

### ASSEMBLY SYSTEM DIRECT STICK details below.

TREDSAFE Was stuck to the substrate using SELF ADHESIVE BACKING

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 10.4 kW/m<sup>2</sup>  
Specimen 1 Width Direction Critical Radiant Flux 10.4 kW/m<sup>2</sup>  
Full test carried out in the Length direction



SPECIMEN	L 1	L 2	L 3	Mean
Critical Radiant Flux kW/m <sup>2</sup>	10.4	10.4	10.0	10.3
Smoke Development Rate Percentage-Minutes	72	79	103	85

The values quoted below are as required by Specification C1.10a Fire Hazard Properties (Floors) of the Building Code of Australia.

### MEAN CRITICAL RADIANT FLUX 10.3kW/m<sup>2</sup>

### MEAN SMOKE DEVELOPMENT RATE 85 percentage-minutes

OBSERVATIONS The samples burnt a very short distance, and Flame Extinguishment occurred very rapidly after the pilot light was removed

	Authorised Signatory M. B. Webb Date 26/11/2009
	
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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 577.3  
During test run 577.8

**Chamber temperature**  
On calibration 99.2 °C  
Start of test run 100.2  
During test run 100.8

Clause 7.2.2 AS/ISO 9239 The pyrometer should be  $\pm 5^\circ$  of calibration temperature.  
The Chamber temperature should be  $\pm 10^\circ$  of calibration temperature  
The Holding Tension on Specimen Frame was 2 Nm

**TIME FOR EACH SPECIMEN TO REACH EACH MARKER IN SECONDS**

FLUX CALIBRATION: FLX080001

Specimen	50	60	110	160	210	260	310	360	410	460	510	560	610	660	710	760	810	860
1	166	169	214	277	/													
2	166	168	214	225	/													
3	149	152	187	258	/													

**TESTS**

Specimen	SMOKE PRODUCTION				BURNING CHARACTERISTICS				Critical Heat Flux at 30min (kW/m <sup>2</sup> )*
	Maximum Light Attenuation (%)	Smoke Development Rate (%.min)	Burn Length (mm) at Flame Out/ Extinguishment	Time To Burn Out (s)					
Initial Test: Width	29	78	160	754					*
Specimen Tests: Length									
1	26	72	160	775	(n/a)*				
2	25	79	160	742	(n/a)*				
3	32	103	185	732	(n/a)*				
Mean	28	85	168	750					*



ACCREDITED FOR TECHNICAL COMPETENCE

M. B. Webb  
Technical Manager

DATE: 26/11/2009

Measurement Science & Technology No. 15393  
This document is issued in accordance with NATA's accreditation requirements.

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

\* Critical Heat Flux at 30min has no relevance under the Building Code of Australia which demands Heat Flux measurement at Flame Out/Extinguishment (BCA General Provisions A1.1).  
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