

m/s JACOBSEN TREDSAFE Ltd PO BOX 83-174 EDMONTON AUCKLAND NEW ZEALAND

TEST REPORT No. 153707B

LABORATORY REF: P153707B

CUSTOMER REFERENCE

TREDSAFE DIAMONDTRED

Sample description as provided by customer SAFETY FLOORING AND STAIR FINISH

Order No. HS

TEST METHOD ISO 9239-1 (2010 06-15) DETERMINATION of the BURNING BEHAVIOUR USING A RADIANT **HEAT SOURCE**

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 10 (o) of ISO 9239-1:2010.

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.

The Holding Torque on Specimen Frame was 2Nm.

Initial Test Specimen 1 Length Direction Specimen 1 Width Direction

Critical Radiant Flux 10.4 kW/m² Critical Radiant Flux 10.4 kW/m²

Full tests carried out in the

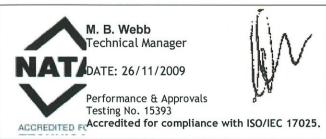
Length Direction

SPECIMEN	Length #1	Length #2	Length #3	Mean
Critical Radiant Flux (kW/m²)	10.4	10.4	10.0	10.3
Smoke Development Rate (%.min)	72	79	103	85

The value quoted below is as required by the New Zealand Building Code Clause C3.4 (b) (April 2012) "Minimum critical radiant flux when tested to ISO 9239-1:2010". Hence the Radiant Flux quoted is the value at Flame-Out/Extinguishment Not after a 30 minute burn as used in Europe.

MEAN CRITICAL RADIANT FLUX 10.3kW/m² MEAN SMOKE DEVELOPMENT RATE 85 percent-minutes

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



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Clause 10 (o) of ISO 9239-1:2010

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

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

THE INFORMATION PROVIDED ON THIS PAGE OF THE TEST REPORT IS FOR THE SPONSORS USE ONLY AND WILL MEET THE REQUIREMENTS OF THE STANDARD. IT IS NOT REQUIRED UNDER CLAUSE C1.10A OF THE BUILDING CODE OF AUSTRALIA

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

End of test run 100.8

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

TIME FOR EACH SPECIMEN TO REACH EACH MARKER IN SECONDS

	Specimen 3	Specimen 2	Specimen 1	mm
	149	166	166	50
	152	168	169	60
	187	214	214	110
	258	225	277	160
				210
No.	_			260
				310
				360
				410
A COLUMN	1			460
				510
				560
				610
				660
				710
				760
				810
				860

SMOKE PRODUCTION

		ASSESSED
Test	Maximum light attenuation (%)	Smoke Development Rate (% x min)
Initial Test Length	29	78
Length		
1	26	72
2	25	79
3	32	103
Mean	28	85

BURNING CHARACTERISTICS

Test	Burn Length at Flame Out(mm)	Time of Burn Out(s)	CHF at 1800(s)
Initial Test Length	160	754	0.0
Length			
1	160	775	0.0
2	160	742	0.0
ω	185	732	0.0
Mean	168	750	0.0



Heat and temperature measurement. NATA Reg. No. 15393

Authorised Signatory Date 26/11/2009 M B Webb

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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