

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 Critical Radiant Flux 10.4 kW/m²
 Specimen 1 Width Direction 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/m ²)	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



M. B. Webb
 Technical Manager
 DATE: 26/11/2009
 Performance & Approvals
 Testing No. 15393
 Accredited for compliance with ISO/IEC 17025.



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

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

1004 04 09

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

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

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

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

SMOKE PRODUCTION

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
3	185	732	0.0
Mean	168	750	0.0

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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.

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ACCREDITED FOR
 TECHNICAL
 COMPETENCE

NATA Reg. No. 15393
 Heat and temperature measurement.

Authorised Signatory
M B Webb
 Date 26/11/2009