

## TIMBERLINE / TRANSLATIONS

Sample description as provided by customer  
2.00 mm Thick SHEET VINYL

Order No. 119439

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 the Building Code of Australia (BCA) and National Construction Code 2015 (NCC) specifications C1.10. Sample conditioning as specified in BS EN 13238.2010.

Sample Submitted Date Aug 2017

Test Date 08 Sep 2017

Total Thickness mm

### Assembly System: DIRECT STICK (Details Below).

The floor covering was directly stuck to the substrate using Vinyl adhesive.

**Substrate: Non-Combustible** - 6mm Fibre Reinforced Cement Board to simulate a Non-Combustible Flooring. The Holding Torque on Specimen Frame was 2Nm.

The standard requires two Initial Tests be conducted on samples mounted in both Length and Width directions. Two further samples are then tested in whichever direction has the lowest Critical Radiant Flux.

Initial Tests: Length Direction Critical Radiant Flux **8.9 kW/m<sup>2</sup>**  
Width Direction Critical Radiant Flux **8.4 kW/m<sup>2</sup>**

	Specimen Tests conducted in the Width Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m <sup>2</sup> )	8.4	8.9	7.8	8.4
Smoke Development Rate (%.min)	176	168	208	184

The values quoted below are as required by BCA and NCC Specification C1.10 Fire Hazard Properties (Floors). The Critical Radiant Flux quoted is the value at Flame-Out/Extinguishment (BCA General Provisions A1.1).



**Mean Critical Radiant Flux 8.4 kW/m<sup>2</sup>**

**Mean Smoke Development Rate 184 %.min**

Observations: The samples shrunk away from the heat source, ignited and burnt a short distance.

AS.ISO 9239.1 Clause 9(o) 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.

All information required for compliance with the BCA and NCC is given on this test report page.

 <small>ACCREDITED FOR TECHNICAL COMPETENCE</small>	<b>M. B. Webb</b> Technical Manager	
	DATE: 08 Sep 2017	
	Performance & Approvals Accreditation No. 15393	
	Accredited for compliance with ISO/IEC 17025.	

**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	179	180	225	270	298	/												
2	157	158	206	216	264	/												
3	166	167	194	237	288	329	/											

**TESTS**

**BURNING CHARACTERISTICS**

**SMOKE PRODUCTION**

Specimen	Burn Length (mm) at Flame Out/ Extinguishment	Time To Burn Out (s)	Maximum Light Attenuation (%)	Smoke Development Rate (%.min)
Initial Test: Length	230	735	75	183
Specimen Tests: Width				
1	250	744	78	176
2	230	747	77	168
3	280	753	79	208
Mean	253	748	78	184




**M. B. Webb**  
Technical Manager

DATE: 08 Sep 2017

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