

Attn: Joe  
 m/s Transtage Dancefloor  
 14b/ 8 Gladstone Rd, Castle Hill Sydney NSW 2154

LABORATORY TEST REPORT  
**P182764**

## 3mm StudioPro Dance Vinyl

Sample description as provided by customer  
 Vinyl 3mm Thickness

Order No. Ref Joe

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 **May 2018** Test Date **12 May 2018** Total Thickness mm

### Assembly System: DIRECT STICK Vinyl.

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 **7.5 kW/m<sup>2</sup>**  
 Width Direction Critical Radiant Flux **7.1 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> )	7.1	7.5	3.7	6.1
Smoke Development Rate (%.min)	162	138	212	171

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 6.1 kW/m<sup>2</sup>**

**Mean Smoke Development Rate 171 %.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.



**M. B. Webb**  
 Technical Manager

DATE: 12 May 2018

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**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	133	134	136	138	141	144	169	/										
2	129	130	134	137	142	155	/											
3	126	127	130	132	135	141	158	171	600	842	/							

**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	290	734	79	161
Specimen Tests: Width				
1	310	734	83	162
2	290	746	79	138
3	490	1,035	96	212
Mean	363	838	86	171



ACCREDITED FOR  
**TECHNICAL  
COMPETENCE**



**M. B. Webb**  
Technical Manager

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