

LUXURY VINYL PLANK

Sample description as provided by customer
 5 mm Thick x 184 mm Wide x 1219 mm

Order No. YQ

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 **Apr 2018** Test Date **26 Apr 2018** Total Thickness mm

Assembly: LOOSE LAID (Details Below).

Floor covering loose laid over the substrate without underlay or adhesive. Clause 5.3 of AS.ISO 9239 ALLOWS THIS TO REPRESENT AN ADHESIVE ONLY SYSTEM.

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 **10.5 kW/m²**
Width Direction Critical Radiant Flux **10.6 kW/m²**

	Specimen Tests conducted in the Length Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m ²)	10.5	10.3	10.1	10.3
Smoke Development Rate (%.min)	108	131	132	124

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 10.3 kW/m²

Mean Smoke Development Rate 124 %.min

Observations: The samples shrunk away from the heat source, ignited and burnt a very 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: 26 Apr 2018	
	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	156	157	220	/														
2	196	197	236	392	/													
3	173	174	220	374	/													

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: Width	140	898	34	122
Specimen Tests: Length				
1	150	847	34	108
2	160	899	37	131
3	170	815	33	132
Mean	160	854	35	124



ACCREDITED FOR
**TECHNICAL
COMPETENCE**

M. B. Webb
Technical Manager

DATE: 26 Apr 2018

Performance and Approvals
Accreditation No. 15393
Accredited for compliance
with ISO/IEC 17025.

2004 04 09 2495 26 April 2018