

## ENGINEERED TIMBER

Sample description as provided by customer  
 15 mm Thick X 192 mm Wide X 1900 mm Long

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: OVER UNDERLAY Premium Acoustic

The UNDERLAY used was Premium Acoustic .

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 **2.9 kW/m<sup>2</sup>**  
 Width Direction Critical Radiant Flux **2.3 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> )	2.3	2.5	2.2	2.3
Smoke Development Rate (%.min)	43	18	100	54

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

**Mean Smoke Development Rate 54 %.min**

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

 ACCREDITED FOR <b>TECHNICAL          COMPETENCE</b>	<b>M. B. Webb</b> 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	143	145	297	370	455	546	690	793	912	1100	1302	1746	2459	/				
2	198	199	276	336	420	580	735	893	970	1180	1646	1856	/					
3	167	168	316	334	450	579	675	950	1120	1241	1526	/						

**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: <b>Length</b>	550	1,614	6	26
Specimen Tests: <b>Width</b>				
1	610	2,470	6	43
2	590	2,068	5	18
3	620	2,447	11	100
Mean	607	2,328	7	54




**M. B. Webb**  
Technical Manager

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