

## GH HYBRID 5.8 mm /0.3 mm Wear Layer

Sample description as provided by customer

Order No. APL 1A

GH Hybrid 5.8 mm / 0.3 mm Wear Layer Dimensions 1220 mm x 180 mm x 5.8 mm Thickness

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 **Feb 2018**

Test Date **17 Feb 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/m<sup>2</sup>**  
**Width** Direction Critical Radiant Flux **10.5 kW/m<sup>2</sup>**

	Specimen Tests conducted in the <b>Length</b> Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m <sup>2</sup> )	10.5	10.9	10.5	10.6
Smoke Development Rate (%.min)	86	98	92	92

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

**Mean Smoke Development Rate 92 %.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.

 ACCREDITED FOR <b>TECHNICAL</b> COMPETENCE	<b>M. B. Webb</b> Technical Manager	
	DATE: 17 Feb 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	161	162	495	/														
2	186	187	305	/														
3	183	184	482															

**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	145	952	16	85
Specimen Tests: Length				
1	145	1,132	17	86
2	120	732	18	98
3	145	798	15	92
Mean	137	887	17	92




**M. B. Webb**  
Technical Manager

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