m/s Armstrong Flooring Pty Ltd
29-39 Mills Road Braeside Victoria 3195 Australia
Attn: Mr Peter Byron Technical Manager

TEST REPORT No. 171896

LABORATORY REF: P171896

CUSTOMER REFERENCE

ARMALON NG ≤ 2.5 mm

Sample description as provided by customer
ARMALON NG ≤ 2.5 mm

Order No. **117795**

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 specification C1.10 of the Building Code of Australia.

The test values 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. Clause 9 of AS/ISO 9239 Part 1.

Conditioning as specified in BS EN 13238.2001

Sample submitted Date **Feb 2017** Test Date **18 Feb 2017**

ASSEMBLY SYSTEM: DIRECT STICK (Details Below).

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

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

Initial Test Specimen 1 Length Direction Critical Radiant Flux **11.4** kW/m²
Specimen 1 Width Direction Critical Radiant Flux **11.3** kW/m²
Full tests carried out in the **Width** Direction

SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m²)	11.3	11.9	11.3	11.5
Smoke Development Rate (%.min)	42	51	35	43

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

MEAN CRITICAL RADIANT FLUX 11.5 kW/m²

MEAN SMOKE DEVELOPMENT RATE 43 percent-minutes

OBSERVATIONS: **The samples shrunk away from the heat source, ignited and burnt an extremely short distance.**

NATA ACCREDITED FOR TECHNICAL COMPETENCE

M. B. Webb
Technical Manager

DATE: 18 Feb 2017

Performance & Approvals
Testing No. 15393
Accredited for compliance with ISO/IEC 17025.

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Clause 9 of AS/ISO 9239 Part 1

The values on Page 2 have no relevance to the Code.

1004 04 09

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	185	186																
2	183	184	/															
3	189	658	/															

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**	**91**	**742**	**18**	**41**
Specimen Tests: **Width**				
1	**95**	**744**	**18**	**42**
2	**63**	**745**	**19**	**51**
3	**95**	**757**	**17**	**35**
Mean	**84**	**749**	**18**	**43**

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

M. B. Webb
Technical Manager

DATE: 18 Feb 2017

Performance and Approvals Testing No. 15393
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The laboratory does not allow the use of this page of the report without the use of page 1.
This page alone has no validity under Clause 9 of AS/ISO 9239 Part 1
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