m/sThe Andrews Group
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TEST REPORT No. 125620

LABORATORY REF: P125620

CUSTOMER REFERENCE

BOLON WOVEN VINYL PROFILED Yarn Construction

Sample description as provided by customer
Bolon Vinyl Profiled Yarn Construction (Create,Missoni,Artisan Designs) Weight 3.0kg/m^2 2.8mm

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 C1.10a of the Building Code of Australia.*

Tested in accordance with the Carpet Institute Code of Practice for AS/ISO 9239 Testing Version 10 / 0805.

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 in use. Clause 9 of AS/ISO 9239 Part 1.

Conditioning as specified in BS EN 13238.2001
Sample submitted Date **May 2012** Test Date **13 Jun 2012**

ASSEMBLY SYSTEM: DIRECT STICK Mapei ECO 350 Acrylic.

The floor covering was directly stuck to the substrate using Mapei ECO 350 Acrylic 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 **6.2** kW/m²
Specimen 1 Width Direction Critical Radiant Flux **7.1** kW/m²
Full tests carried out in the **Length** Direction

SPECIMEN	Length #1	Length #2	Length #3	Mean
Critical Radiant Flux (kW/m²)	6.2	7.1	6.9	6.7
Smoke Development Rate (%.min)	191	203	220	205

The values quoted below are as required by Specification C1.10a 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 6.7 kW/m²

MEAN SMOKE DEVELOPMENT RATE 205 percent-minutes

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

NATA ACCREDITED FOR TECHNICAL COMPETENCE

M. B. Webb
Technical Manager

DATE: 13 Jun 2012

Measurement Science & Technology No. 15393
Accredited for compliance with ISO/IEC 17025.

PAGE 1 of 2

This Page (1) has been designed to show the values required under Specification C1.10a Fire Hazard Properties (Floors) of the Building Code of Australia.

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

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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	123	126	131	139	148	159	171	/										
2	136	138	149	168	195	225	/											
3	133	134	160	181	212	256	300	/										

TESTS **SMOKE PRODUCTION** **BURNING CHARACTERISTICS**

Specimen	Maximum Light Attenuation (%)	Smoke Development Rate (%.min)	Burn Length (mm) at Flame Out/ Extinguishment	Time To Burn Out (s)
Initial Test: **Width**	**72**	**200**	**300**	**721**
Specimen Tests: **Length**				
1	97	191	340	726
2	83	203	300	720
3	84	220	310	737
Mean	88	205	317	728

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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 specification C1.10a Fire Hazard Properties (Floors) of the Building Code of Australia.
2004 04 09 3384 15 June 2012

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