

BASE AFFECT TILES

Sample description as provided by customer

Order No. **APL 10 H**

Pile weight mass/unit area **18 oz/yd²**

Pile Fibre Content **100% SOLUTION DYED NYLON**

Construction Details **Tufted** Secondary Backing **TILE BACKING BITUMEN**

Colour **675**

Style **Loop Pile**

Pile Height **4 mm**

The Samples Tested Were **Modular Carpet with BITUMEN BACKING**

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 2017**

Test Date **April 2017**

Total Thickness **mm**

Assembly System: **DIRECT STICK** water Based Surface Contact.

The floor covering was directly stuck to the substrate using **water Based Surface Contact** adhesive.

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 **5.1 kW/m²**
Width Direction Critical Radiant Flux **4.9 kW/m²**

	Specimen Tests conducted in the Width Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m ²)	4.9	5.1	5.1	5.0
Smoke Development Rate (%.min)	515	518	520	518

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 5.0 kW/m²

Mean Smoke Development Rate 518 %.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.

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	DATE: April 2017	
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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	180	186	272	310	376	532	548	835	1243									
2	175	181	283	328	369	549	683	829										
3	195	203	279	299	352	477	510	672										

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	400	1,983	71	509
Specimen Tests: Width				
1	410	2,235	73	515
2	400	2,148	82	518
3	400	1,357	84	520
Mean	403	1,913	80	518



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