

LANGHORNE HUT

Sample description as provided by customer
 Pile weight mass/unit area 30 oz/yd²
 Construction Details **Tufted** Secondary Backing **Synthetic**
 Style **Multi Level Loop**

Order No. **KG**
 Pile Fibre Content **100% SOLUTION DYED NYLON**
 Colour **Cream/Grey**
 Pile Height mm

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 **Jan 2018** Test Date **16 Jan 2018** Total Thickness mm

Assembly System: **DOUBLE BOND (DOUBLE STICK) AIRSTEP SENSI SLAB**

The underlay used was **AIRSTEP SENSI SLAB** it was adhered to the substrate using **ROBERTS 656** adhesive. The floor covering was adhered to the underlay using **ROBERTS 95** 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 **3.0 kW/m²**
Width Direction Critical Radiant Flux **2.6 kW/m²**

	Specimen Tests conducted in the Width Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m ²)	2.6	2.4	2.2	2.4
Smoke Development Rate (%.min)	451	404	429	428

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 2.4 kW/m²

Mean Smoke Development Rate 428 %.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.

M. B. Webb
 Technical Manager

DATE: 16 Jan 2018

Performance & Approvals
 Accreditation No. 15393
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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	185	186	254	304	345	378	420	492	677	1028	1388	1956	/					
2	180	181	239	291	333	365	388	423	694	843	1247	1974	/					
3	182	183	244	279	331	368	413	497	640	909	1380	1973	2783	/				

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	545	2,008	68	413
Specimen Tests: Width				
1	580	2,668	70	451
2	600	2,956	74	404
3	620	2,870	69	429
Mean	600	2,831	71	428



ACCREDITED FOR
**TECHNICAL
COMPETENCE**

M. B. Webb
Technical Manager

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