

CUSTOMER REFERENCE

LEES DURACOLOUR PREMIUM NYLON LOOP 21 oz

Sample description as provided by customer

Mass/unit area **21 oz/yd²**

Construction Details **Tufted** Secondary Backing **EcoFlex NXT**

Style

The Samples Tested Were Modular Carpet With EcoFlex NXT backing

Order No. **MH**

Pile Fibre Content **100% NYLON**

Colour **Fawn Shades**

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 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 **Dec 2013**

Test Date **21 Dec 2013**

ASSEMBLY SYSTEM: DIRECT STICK (Details Below).

The floor covering was directly stuck to the substrate using **Water Based Surface Contact** 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 **8.8 kW/m²**
Specimen 1 Width Direction Critical Radiant Flux **4.7 kW/m²**
Full tests carried out in the **Width** Direction

SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m ²)	4.7	9.0	5.4	6.4
Smoke Development Rate (%.min)	291	189	268	249

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 **6.4 kW/m²**

MEAN SMOKE DEVELOPMENT RATE **249 percent-minutes**

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

	M. B. Webb Technical Manager	
	DATE: 21 Dec 2013	
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PAGE 1 of 2

Clause 9 of AS/ISO 9239 Part 1

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	235	237	305	348	504	591	735	1312	1896	/								
2	230	232	278	331	393	/												
3	199	201	316	375	436	591	717	1299	/									

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	220	727	46	194
Specimen Tests: Width				
1	420	2,000	53	291
2	210	728	56	189
3	380	1,577	50	268
Mean	337	1,435	53	249



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**TECHNICAL
COMPETENCE**



M. B. Webb
Technical Manager

DATE: 21 Dec 2013

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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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