

CUSTOMER REFERENCE
FORCES COLLECTION NATURAL BARK

Sample description as provided by customer
TOTAL Weight 810 g/m² Pile Fibre Content **100% SOLUTION DYED NYLON**
Construction Details **Tufted** Secondary Backing **TILE CUSHION BACKED** Colour **Various**
Style **Multi Level Loop** Pile Height **2.5/6.0 mm**
The Samples Tested Were **Modular Carpet 500 mm X 500 mm**

TEST METHOD ISO 9239-1(2010 06-15) Determination of the Burning Behaviour using a radiant heat source As required by the New Zealand Building Code Clause C3.4 (b) (April 2012)

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 10 (o) of ISO 9239-1:2010.

Conditioning as specified in BS EN 13238.2001

Sample submitted Date **Oct 2016** Test Date **08 Nov 2016**

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 **4.8 kW/m²**
Specimen 1 Width Direction Critical Radiant Flux **3.3 kW/m²**
Full tests carried out in the **Width** Direction

SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m ²)	3.3	4.9	5.2	4.5

The value quoted below is as required by the New Zealand Building Code Clause C3.4 (b) (April 2012) "Minimum critical radiant flux when tested to ISO 9239-1:2010". Hence the Radiant Flux quoted is the value at Flame-Out/Extinguishment Not after a 30 minute burn as used in Europe.

MEAN CRITICAL RADIANT FLUX **4.5 kW/m²**

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

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	DATE: 08 Nov 2016 Performance & Approvals Testing No. 15393 Accredited for compliance with ISO/IEC 17025.	

PAGE 1 of 2

Clause 10 (o) of ISO 9239-1:2010

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	148	149	219	250	343	536	592	693	1079	1607	2304	/						
2	200	201	261	295	389	575	831	1154	1593	1793	2150	/						
3	163	164	228	302	428	682	1253	1893										


TESTS

BURNING CHARACTERISTICS

Specimen	Burn Length (mm) at Flame Out/ Extinguishment	Time To Burn Out (s)
Initial Test: Length	415	2,096
Specimen Tests: Width		
1	515	2,779
2	408	2,491
3	393	2,251
Mean	439	2,507



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M. B. Webb
Technical Manager

DATE: 08 Nov 2016

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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 10 (o) of ISO 9239-1:2010

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