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Centre de Recherches et d'Etudes Techniques du Tapis

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TEST REPORT N° RL 2019/139-1

DELIVERY : 18/03/2019

MATERIAL RECEIVED : 27/02/2019

ORIGIN : BELGOTEX FLOORS
20 Chesterfield Road Willowton
Pietermaritzburg 3201
SOUTH AFRICA

NAME OF QUALITY : **Heavy Commercial SDN Tufted loop Pile Bitumen Tile – SCP**

TESTS TYPE : Reaction to fire tests for floorings according to NF EN ISO 9239-1 (February 2013)
Part 1: Determination of the burning behaviour using a radiant heat source

The Technical Director
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Head of Tests
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Accreditation of Testing Section COFRAC certify the competence of laboratories only for the tests covered by the accreditation.

This test report is only valid as a certificate for the characteristics of the sample which was submitted to the tests and does not prejudge the characteristics of similar products. As a consequence, it is not a product certificate in the sense of Article L 115-27 of the Consumption Code and of the Law dating from June 3rd 1994.

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It contains **4** page(s) and **0** annex(s).

ORIGIN OF THE SAMPLE TO CONSIDER:

Sample provided by the applicant of the test.

PRODUCT DESCRIPTION DETERMINED BY THE LABORATORY:

Tufted structured loop pile carpet tile of 500 mm x 500 mm (EN 1307 family product).

INFORMATIONS GIVEN BY THE CUSTOMER :

Composition of use-surface : 100% polyamide
Type of primary backing : woven polyester
Type of backing : Bitumen
Total mass per unit area : 5596 g/m²
Total thickness : 6,0 mm
Total pile thickness: 2,0 mm
Colouring : Grey – black

Flame retardant : no

Description of test specimens:

***Substrate : fibres-cement board**
Density (1800 ± 200) kg /m³
Dimensions 105 cm x 23 cm
Thickness (8 ± 2) mm

Installation : loose laid
Cleaning : none

Conditioning :

At least 14 days (23 ± 2)°C and (50 ± 5) % relative humidity.

Eventual deviations from the test method:

None

Date of test:

14/03/2019

Duration of the test:

The radiation is maintained for 30 minutes.

C.R.E. T is notified by the French Government to the European Commission under n°NB 2401.

RESULTS :

1) HEAT FLUX

Specimen	Flame front distance (mm)			Heat flux (kW/m²)			Duration of flaming (min/s)	Maximum flame front distance (mm)	Critical Heat flux CHF (kW/m²)
	10 min	20 min	30 min	HF 10	HF 20	HF 30			
1 (L)*	250	250	250	8,3	-	-	19 min 40 s	250	8,3
1 (T)*	170	250	250	9,7	8,3	-	26 min 20 s	250	8,3
2 (L)	160	240	250	9,9	8,5	8,3	30 min 00 s	250	8,3
3 (L)	210	250	250	9,0	-	-	18 min 50 s	250	8,3
Average (L)									**8,3**

(L)* → Longitudinally direction
(T)* → Transversally direction

Observations :

Specimen is mounted in such a way at least one joint is situated 250 mm from the zero point in the both directions.

	Time for each specimen to burn in minutes (min) and seconds (s)			
Distance burnt (mm)	1 (Longitudinally)	1 (Transversally)	2 (Longitudinally)	3 (Longitudinally)
50	3 min 10 s	3 min 50 s	4 min 00 s	3 min 10 s
100	4 min 50 s	6 min 30 s	7 min 00 s	4 min 40 s
150	5 min 30 s	8 min 30 s	9 min 10 s	6 min 30 s
200	6 min 40 s	12 min 30 s	13 min 50 s	9 min 20 s
250	7 min 20 s	19 min 20 s	21 min 20 s	18 min 50 s
300				
350				
400				
450				
500				
550				
600				
650				
700				
750				
800				
850				
900				
950				
1000				

2) SMOKE DENSITY

Specimen	Maximum light attenuation (%)	Smoke development (% X min)
1 (L)*	24,0	122,7
1 (T)*	17,2	96,3
2 (L)	17,6	73,6
3 (L)	25,1	107,2
Average (L)	**22,2**	**101,2**

(L)* → Longitudinally direction
(T)* → Transversally direction

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.

End of report