

TEST REPORT N° RL 2021/738

DELIVERY : 15/11/2021

MATERIAL RECEIVED : 27/10/2021

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

NAME OF QUALITY : **AQUA (Solution Dyed Nylon Tufted Broadloom)**

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
Marc WELCOMME

Head of Tests
David VANDIERDONCK

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 pages and 0 annex.

The laboratory cannot be held responsible for the information provided by the customer, this information is identified in this report.

ORIGIN OF THE SAMPLE TO CONSIDER:

Sample provided by the applicant of the test.

PRODUCT DESCRIPTION DETERMINED BY THE LABORATORY:

Tufted cut/loop pile carpet (EN 1307 family product).

INFORMATIONS GIVEN BY THE CUSTOMER :

Composition of use-surface : 100% polyamide
Type of primary backing : woven polypropylene
Type of backing : woven polypropylene + synthetic needled fleece
Total mass per unit area : 1887 g/m²
Total thickness : 8,7 mm
Total pile thickness: 5,0 mm
Colouring : Brown

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:

15/11/2021

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/m ²)			Duration of flaming (min/s)	Maximum flame front distance (mm)	Critical Heat flux CHF (kW/m ²)
	10 min	20 min	30 min	HF 10	HF 20	HF 30			
1 (L)*	210	330	360	9,1	6,5	5,9	30 min 00 s	360	5,9
1 (T)*	280	300	300	7,6	-	-	14 min 00 s	300	7,2
2 (L)	250	290	290	8,2	-	-	17 min 00 s	290	7,4
3 (L)	270	340	340	7,8	-	-	19 min 10 s	340	6,3
Average (L)									6,5

(L)* → Longitudinally direction

(T)* → Transversally direction

Observation : None

Distance burnt (mm)	Time for each specimen to burn in minutes (min) and seconds (s)			
	1 (L)*	1 (T)*	2 (L)	3 (L)
50	3 min 10 s	2 min 40 s	2 min 50 s	2 min 40 s
100	4 min 20 s	3 min 40 s	4 min 20 s	3 min 50 s
150	5 min 40 s	5 min 00 s	5 min 40 s	5 min 20 s
200	9 min 20 s	5 min 50 s	7 min 00 s	6 min 40 s
250	14 min 50 s	6 min 40 s	9 min 50 s	7 min 50 s
300	18 min 20 s	13 min 30 s		14 min 20 s
350	22 min 00 s			
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)*	9,4	95,2
1 (T)*	18,8	83,2
2 (L)	15,7	69,6
3 (L)	14,0	89,1
Average (L)	13,0	84,6

(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