

## TEST REPORT N° RL 2015/317-1

DELIVERY : 12/06/2015

MATERIAL RECEIVED : 27/05/2015

ORIGIN : BFS EUROPE N.V  
Ingelmunstersteenweg, 162  
B 8780 OOSTROZEBEKE  
BELGIUM

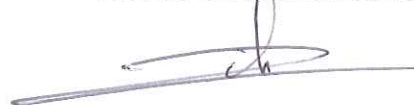
NAME OF QUALITY : XTINGUISH

TESTS TYPE : Orientation 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**



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It contains **3** page(s) and **0** annex(s).

The results which have been obtained by means of the sample specified above, may not be generalised without justification of the representativeness of the samples.

**ORIGIN OF THE SAMPLE TO CONSIDER:**

Sample taken from the applicant of the test

**PRODUCT DESCRIPTION DETERMINED BY THE LABORATORY:**

Tufted cut pile carpet (EN 1307 family product).

**INFORMATION GIVEN BY THE CUSTOMER :**

Composition of use-surface : 100% polyethylene  
Type of primary backing : woven polypropylene  
Type of backing : Compound XTGSH  
Total mass per unit area : 2450 g/m<sup>2</sup>  
Total thickness : 29 mm

Colouring : Green

Flame retardant : yes

**Description of test specimens :**

\*Substrate : Fibre cement board  
Density (1800 ± 200) kg /m<sup>3</sup>  
Dimensions 105 cm x 23 cm  
Thickness (8 ± 2) mm

Installation : loose laid

Cleaning : none

**Conditioning :**

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

**Eventual deviations from the test method :**

None

**Date of test :**

11/06/2015

**Duration of the test :**

The radiation is maintained for 30 minutes.

**RESULTS :****1) HEAT FLUX**

Specimen	Flame front distance (mm)			Heat flux (kW/m <sup>2</sup> )			Duration of flaming (min/s)	Maximum flame front distance (mm)	Critical Heat flux CHF (kW/m <sup>2</sup> )
	10 min	20 min	30 min	HF 10	HF 20	HF 30			
1 (L)*	140	140	140	10,1	-	-	15 min 10 s	140	10,1
1 (T)*	180	220	220	9,5	-	-	17 min 30 s	220	8,8
2 (T)	150	170	170	10,0	9,7	-	22 min 30 s	170	9,7
3 (T)	140	140	140	10,1	-	-	12 min 00 s	140	10,1
Average (T)									<b>9,5</b>

(L)\* → Longitudinally direction

(T)\* → Transversally direction

**Observations :** none

Distance burnt (mm)	Time for each specimen to burn in minutes (min) and seconds (s)			
	1 (Longitudinally)	1 (Transversally)	2 (Transversally)	3 (Transversally)
50	2 min 40 s	2 min 30 s	2 min 20 s	2 min 10 s
100	4 min 10 s	3 min 30 s	3 min 10 s	3 min 10 s
150		7 min 20 s	8 min 50 s	
200		11 min 10 s		
250				
300				
350				
400				
450				
500				

**2) SMOKE DENSITY**

<b>Specimen</b>	<b>Maximum light attenuation (%)</b>	<b>Smoke development (% X min)</b>
<b>1 (L)*</b>	5,0	39,3
<b>1 (T)*</b>	6,8	48,1
<b>2 (T)</b>	4,8	26,8
<b>3 (T)</b>	2,6	22,6
<b>Average (T)</b>	<b>4,7</b>	<b>32,5</b>

**(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\*\*\*