



Neuville, June 13th 2024

Our ref. : MW/DV
Study RL 2024/377

BLOQ
De Blokmat 29
8281 JH GENEMUIDEN
NETHERLANDS

To the attention of Mr Harmen BEKENDAM

Dear Sir,

Please kindly find in the attached reports the results of tests of reaction to fire radiant panel in accordance with **EN ISO 9239-1** made on your quality "**Assembly Relax – Unity – Relax – Sensity Relax**".

Compared to the classification criteria of the EN 13501-1 (2018) are:

Critical heat flux : $\geq 3,0 \text{ kW/m}^2$: class D_{fl}

Critical heat flux : $\geq 4,5 \text{ kW/m}^2$: class C_{fl}

Critical heat flux : $\geq 8,0 \text{ kW/m}^2$: class B_{fl}

Smoke density: $s_1 \text{ smoke} \leq 750 \% \text{ X min}$

: s_2 products that do not meet the criteria for class 1

and,

- $F_s \leq 150 \text{ mm}$ in 20 s : class E_{fl}

The quality meets the classification **B_{fl}-s1** tested loose laid over a fibres-cement board.

The test report must be sent to your Notified Body (produced by system 1) to validate the classification.

Regards,

For the SARL C.R.E.T
The Technical Director,
Marc WELCOMME

TEST REPORT N° RL 2024/377

DELIVERY : 13/06/2024

MATERIAL RECEIVED : 17/05/2024

ORIGIN : BLOQ
De Blokmat 29
8281 JH GENEMUIDEN
NETHERLANDS

NAME OF QUALITY : **Assembly Relax – Unity Relax – Sensity Relax**

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 prejudice 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.

This test report may only be copied or reproduced integrally.

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 by an italic font.

ORIGIN OF THE SAMPLE TO CONSIDER:

Sample provided by the applicant of the test.

INFORMATIONS GIVEN BY THE CUSTOMER :

Tufted loop pile structured carpet tile of 50 cm x 50 cm (EN 1307 family product).

Composition of use-surface : *100% polyamide*
Type of primary backing : *non-woven polyester*
Type of backing : *PU foam (Relax)*
Total mass per unit area : *3800 g/m²*
Total thickness : *9,5 mm*
Total pile thickness: *2,4 mm*
Colouring : Red – Black – Beige

Flame retardant : yes

Description of test specimens:

Substrate : *fibres-cement*
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 at (23 ± 2)°C and (50 ± 5) % relative humidity.

Eventual deviations from the test method:

None

Date of test:

04/06/2024

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)*	110	180	250	≥ 11	9,7	8,5	30 min 00 s	250	8,5
1 (T)*	130	250	250	10,4	8,5	-	27 min 10 s	250	8,5
2 (T)	130	180	180	10,4	-	-	18 min 30 s	180	9,7
3 (T)	110	150	150	≥ 11	-	-	16 min 10 s	150	10,1
Average (T)									9,4

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

Observation :

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

Distance burnt (mm)	Time for each specimen to burn in minutes (min) and seconds (s)			
	1 (L)*	1 (T)*	2 (T)	3 (T)
50	3 min 00 s	3 min 10 s	3 min 10 s	3 min 20 s
100	7 min 20 s	6 min 00 s	8 min 00 s	8 min 30 s
150	17 min 30 s	10 min 50 s	11 min 20 s	11 min 30 s
200	23 min 10 s	16 min 30 s		
250	27 min 30 s	18 min 00 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)*	17,2	85,0
1 (T)*	34,3	168,7
2 (T)	35,0	148,6
3 (T)	27,2	129,6
Average (T)	32,2	149,0

(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