



Neuville, March 05th 2021

Our ref. : MW/DV
Study RL 2021/122 (1-2)

modulyss
Zevensterrestraat 21
B 9240 ZELE
BELGIUM

To the attention of Mrs Veert DEHAEMERS

Madam,

Please kindly find in the attached reports the results of tests of reaction to fire radiant panel in accordance with **EN ISO 9239-1** and the small flame in accordance with **EN ISO 11925-2** made on your quality “**E-FORCE SQR comfortBack (R872)**”.

Compared to the classification criteria of the EN 13501-1 September 2007 + A1 (2013) 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: s1 smoke $\leq 750 \% \text{ X min}$

: s2 products that do not meet the criteria for class 1

and,

- $F_s \leq 150 \text{ mm in } 20 \text{ s}$: 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 2021/122-1

DELIVERY : 05/03/2021

MATERIAL RECEIVED : 12/02/2021

ORIGIN : modulyss
Zevensterrestraat 21
B 9240 ZELE
BELGIUM

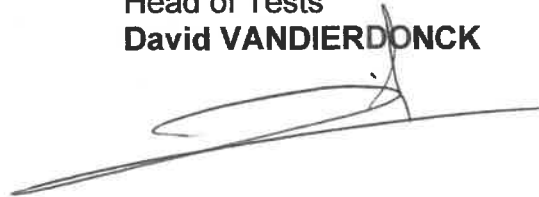
NAME OF QUALITY : **E-FORCE SQR comfortBack (R872)**

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.

This test report may only be copied or reproduced integrally.

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

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

INFORMATIONS GIVEN BY THE CUSTOMER :

Composition of use-surface : 100% polyamide
Type of primary backing : non-woven polyester
Type of backing : bitumen + needled fleece synthetic
Total mass per unit area : 4900 g/m²
Total thickness : 11,7 mm
Total pile thickness: 6,7 mm
Colouring : Blue – black

Flame retardant : yes

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:

02/03/2021

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)*	250	250	250	8,2	-	-	17 min 30 s	250	8,2
1 (T)*	250	250	250	8,2	-	-	16 min 20 s	250	8,2
2 (T)	250	250	250	8,2	-	-	16 min 20 s	250	8,2
3 (T)	250	250	250	8,2	-	-	14 min 30 s	250	8,2
Average (T)									8,2

(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.

Distance burnt (mm)	Time for each specimen to burn in minutes (min) and seconds (s)			
	1 (Longitudinally)	1 (Transversally)	2 (Transversally)	3 (Transversally)
50	3 min 40 s	3 min 20 s	4 min 00 s	3 min 50 s
100	5 min 30 s	5 min 00 s	5 min 00 s	4 min 50 s
150	6 min 20 s	6 min 00 s	6 min 10 s	6 min 20 s
200	6 min 40 s	7 min 30 s	7 min 10 s	8 min 00 s
250	7 min 40 s	8 min 50 s	8 min 30 s	9 min 10 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)*	19,6	96,2
1 (T)*	36,8	154,7
2 (T)	42,2	121,8
3 (T)	37,4	124,3
Average (T)	38,8	133,6

(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

TEST REPORT N° RL 2021/122-2

DELIVERY : 05/03/2021

MATERIAL RECEIVED : 12/02/2021

ORIGIN : modulyss
Zevensterrestraat 21
B 9240 ZELE
BELGIUM

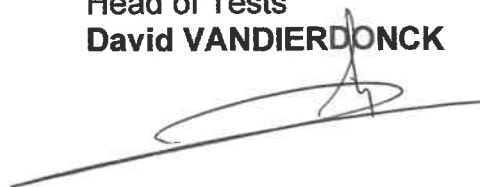
NAME OF QUALITY : **E-FORCE SQR comfortBack (R872)**

TESTS TYPE : Reaction to fire tests – Ignitability of building products
subjected to direct impingement of flame according
to NF EN ISO 11925-2 (February 2013)
Part 2: single-flame source test

The Technical Director
Marc WELCOMME



Head of Tests
David VANDIERDONCK



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ORIGIN OF THE SAMPLE TO CONSIDER:

Sample provided by the applicant of the test.

PRODUCT DESCRIPTION DETERMINED BY THE LABORATORY:

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

INFORMATIONS GIVEN BY THE CUSTOMER :

Composition of use-surface : 100% polyamide
Type of primary backing : non-woven polyester
Type of backing : bitumen + needled fleece synthetic
Total mass per unit area : 4900 g/m²
Total thickness : 11,7 mm
Total pile thickness: 6,7 mm
Colouring : Blue – black

Flame retardant : yes

Description of test specimens:

*Substrate : fibres-cement board
Density (1800 ± 200) kg /m³
Dimensions 25 cm x 9 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:

02/03/2021

Time application of flame :

15 secondes

Position of application of the flame :

Surface

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

RESULTS

Specimen	L1	L2	L3	T1	T2	T3
Ignition of specimen	no	no	no	no	no	no
Tip of flame reaches 150 mm (F _S)	≤ 150	≤ 150	≤ 150	≤ 150	≤ 150	≤ 150
Ignition of filter paper	no	no	no	no	no	no

L : Longitudinally direction

T : Transversally direction

Observation: none

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