



Neuville, January 11th 2017

Our ref. : MW/DV
Study RL 2016/788

BALTA INDUSTRIES N.V
Wakkensteenweg 2
B 8710 SINT-BAAFS-VIJVE
BELGIUM

To the attention of Mr Geert Vanden Bossche

Dear Sir,

Please kindly find in the attached report the results of tests of reaction to fire radiant panel in accordance with the standard **ISO 9239-1 (2010)** made on your quality "**FALCON HBR**".

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_{fi}

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

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

Smoke density: s1 smoke $\leq 750 \% \text{ X min}$

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

The quality meets the classification **B_{fi}-s1**.

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

Regards,

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

TEST REPORT N° RL 2016/788

DELIVERY : 11/01/2017

MATERIAL RECEIVED : 23/12/2016

ORIGIN : BALTA INDUSTRIES N.V
Wakkensteenweg 2
B 8710 SINT-BAAFS-VIJVE
BELGIUM

NAME OF QUALITY : **FALCON HBR**

TESTS TYPE : Reaction to fire tests for floorings according to
Standard ISO 9239-1 (2010)
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** 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:

Structured needled pile carpet type B1 (EN 1307 family product).

INFORMATIONS GIVEN BY THE CUSTOMER :

Composition of use-surface : 100% polypropylene

Type of backing : latex finish

Total mass per unit area : 781 g/m²

Total thickness : 7,8 mm

Colouring : 905

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 at (23 ± 2)°C and (50 ± 5) % relative humidity.

Eventual deviations from the test method:

None

Date of test:

10/01/2017

Duration of the test:

The radiation is maintained for 30 minutes.

Standard used:

ISO 9239-1 (2010)

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)*	160	160	160	9,9	-	-	12 min 50 s	160	9,9
1 (T)*	170	170	170	9,7	-	-	12 min 30 s	170	9,7
2 (T)	190	190	190	9,3	-	-	12 min 30 s	190	9,3
3 (T)	220	220	220	8,8	-	-	12 min 40 s	220	8,8
Average (T)									9,3

(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 20 s	2 min 30 s	2 min 20 s	2 min 20 s
100	3 min 50 s	3 min 00 s	3 min 10 s	3 min 00 s
150	8 min 40 s	4 min 20 s	4 min 40 s	4 min 00 s
200				5 min 30 s
250				
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)*	6,6	11,1
1 (T)*	9,1	12,8
2 (T)	9,4	17,6
3 (T)	10,7	21,2
Average (T)	9,7	17,2

(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