



REACTION TO FIRE CLASSIFICATION REPORT  
N° 2021/127

According to EN 13501-1 (2018)

Notification by the French Government to the European Commission  
under n° NB 2401  
Regulation (UE) n° 305/2011

Sponsor : BEAULIEU FLOORING SOLUTIONS - REAL  
Groene Dreef 15a  
B 9770 KRUISSHOUTEM  
BELGIUM

Product name : EXPOTOP

Description : Polyvinyl chloride floor coverings  
(EN ISO 26986 family)  
(see detailed description in paragraph 2)

Date of issue : 30/06/2021

*The indicated classification does not prejudge the conformity of marketed materials with the samples submitted to the tests and under no circumstances, this document should not be considered as type approval or certification of the product in the sense of the L 115-27 article of the consumption's code of the law dated June 3<sup>rd</sup> 1994.*

*The reproduction of this classification report is only authorised in its integral form.  
It comprises 3 pages*

## 1. Introduction

This classification report defines the classification assigned to the above-mentioned product in accordance with the procedures given in the NF EN 13501-1 standard (2018).

## 2. Details of classified product

### 2.1. Product standard

NF EN 14041 (2005):“Resilient, textile and laminate floor coverings - Essential characteristics”.

### 2.2. Product description

Expanded (cushioned) polyvinyl chloride floor covering (EN ISO 26986 family).

Tested loose laid over a fibre-cement board classified A1<sub>f1</sub> or A2<sub>f1</sub> with a density (1800 ± 200) kg/m<sup>3</sup> and thickness (8 ± 2) mm.

Use surface : PVC

Backing type : PVC

Nominal mass per unit area : 1350 g/m<sup>2</sup>

Nominal total thickness : 2,40 mm

Nominal wear layer thickness : 0,20 mm

## 3. Test reports and tests results in support of this classification

### 3.1. Tests reports

Name of laboratory	Name of sponsor	Test report N°	Test method
C.R.E.T.	BEAULIEU FLOORING SOLUTIONS - REAL Groene Dreef 15a B 9770 KRUISSHOUTEM BELGIUM	RL 2021/402	NF EN ISO 9239-1

### 3.2. Tests results

Classes of reaction to fire for resilient floor coverings, classified without further testing.

Test method NF EN ISO 11925-2	The flooring « <b>EXPOTOP</b> » meets the requirements of table 3 of the standard NF EN 14041 (2005) and is classified E <sub>f1</sub> without further testing (CWFT)
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Test method	Product	Number of tests	Parameters	Results
				Continuous parameters : mean value
NF EN ISO 9239-1	EXPOTOP	3	Critical heat flux (kW/m <sup>2</sup> )	10,4
			Smoke (% X min)	66,9

#### 4. Classification and field of application

##### 4.1. Reference of classification

This classification has been carried out in accordance with EN 13501-1 (2018).

##### 4.2. Classification

Fire behaviour		Smoke production
B <sub>fl</sub>	-	s1

**Classification : B<sub>fl</sub> – s1**

##### 4.3. Field of application

This classification is valid for the following end use applications :

Loose laid and glued over a fibre-cement A1<sub>fl</sub> or A2<sub>fl</sub> class with a density  $\geq 1350$  kg/m<sup>3</sup>.

This classification is valid for the following product parameters :

- A nominal mass per unit area of : 1350 g/m<sup>2</sup>
- A nominal thickness of : 2,40 mm
- A nominal wear layer thickness of : 0,20 mm

#### 5. Limitations

This classification document does not represent type approval or certification of the product.

“The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 of AVCP and CE marking under the Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of constructions products.

The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.”

Head of Test  
David VANDIERDONCK



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



*End of the classification report*

Test laboratory for the fire behavior of building materials, Dipl.-Ing. (FH) Andreas Hoch  
Testing, supervising and certifying body, authorized by the building supervision authority

# TEST REPORT

## PZ-Hoch-200260

for the proof of Fire behaviour according to DIN 4102, part 1

Translation of the German test report – no guarantee for translation of technical terms

<b>company</b>	<b>Heytex Bramsche GmbH</b> Heywinkelstraße 1 D-49565 Bramsche
<b>description of samples</b>	polyester fabric, coated on one side with PU/AC colour: black / white
<b>name of the material</b>	„H7385 digitex decoflex night fever B1“
<b>sampling</b>	by the company itself
<b>content of request</b>	Proof of flammability to classify building materials to class B1 “schwerentflammbar” according to DIN 4102, part 1
<b>validity of test report</b>	28.02.2025
<b>result</b>	<b>The examined product meets the requirements of class B1 for “schwerentflammbare” (hardly flammable) building materials according to DIN 4102, part 1 (May 1998), suspended freely or with distance of &gt;40 mm to same or other plain materials.</b>

This test report includes 4 pages and 4 enclosures.

Remark: If the above mentioned building material is not used as product according to MBO § 2, Abs. 9, Ziffer1, there is no need for a general building supervisory test report.

This test report is not valid if the examined building material is used as product in the meaning of state building prescriptions (MBO § 17, Abs. 3).

This test report does not replace an eventually necessary proof of applicability concerning building supervisory or building laws in the meaning of state building prescriptions. This has to be verified by:

- “allgemeine bauaufsichtliche Zulassung” (general building inspectorate approval ) or by
- „allgemeines bauaufsichtliches Prüfzeugnis“ (general building inspectorate certificate) or by
- “Zustimmung im Einzelfall” (exceptional approval)

This test report can underlie building supervisory procedures

- for regular building products for the prescribed proofs of conformity
- for non-regular building products for the needed proofs of applicability.

This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.

### 1. Description of test material in condition as delivered

**PN 30968:** „H7385 digitex decoflex night fever B1“ colour: black / white  
polyester fabric, coated on one side with PU/AC  
side A: white / side B: black, coated side  
characteristic values determined by the test laboratory:  
area weight: about 280 g/m<sup>2</sup> thickness: about 0,41 mm

The testing laboratory is not provided with further details concerning composition of the tested building materials. Samples are deposited.

### 2. Preparation of samples

The samples were kept in climate chamber 23/50 until they reached constant weight.

### 3. Arrangement of samples mounting: freely suspended

#3353: flaming side B in warp direction  
#3397: flaming side A in warp direction  
#3398: flaming side A in weft direction

### 4. Date of test CW 12 in 2020

### 5. Results The test has been examined according to DIN 4102 (Mai 1998)

line no.	Measurement	Result with the tested specimen				Dim.
	Test number	#3353	#3397	#3398	---	
	flaming direction / side	warp / B	warp / A	weft / A	---	
1	<u>Number of specimen arrangement</u> acc. to. DIN 4102/T15, schedule 1	1	1	1	---	
2	<u>Maximum flame height above bottom</u> edge of the specimen	40	50	40		cm
3	Time <sup>1)</sup>	0:10	0:10	0:13	---	min:s
4	<u>Burn through / melting</u> Time <sup>1)</sup>	0:04	0:04	0:04	---	min:s
5	<u>Observations on the back side of the specimen</u> Flames / Glowing Time <sup>1)</sup>	./.	./.	./.	./.	min:s
6	Change of colour Time <sup>1)</sup>	./.	./.	./.	./.	min:s
7	<u>Falling of burning droplets</u> Start <sup>1)</sup>	X 0:22	X 0:15/0:25	X 0:20/0:44	./. ./.	min:s
8	<u>Extent</u> sporadic falling of burning droplets <sup>2)</sup>	X	X	X	./.	
9	continuous falling of burning droplets <sup>2)</sup>	---	---	---	./.	min:s
10	<u>Falling of burning droplets</u> Start <sup>1)</sup>	./.	./.	./.	./.	min:s
11	Extent sporadic falling of burning droplets <sup>2)</sup>	---	---	---	./.	
12	continuous falling of burning droplets <sup>2)</sup>	---	---	---	./.	
13	<u>After flame time at the bottom of the sieve (max.)</u>	0:04	0:04/0:02	0:03/0:03	./.	min:s

line no.	Measurement	Result with the tested specimen				Dim.
		#3353	#3397	#3398	---	
	Test number	#3353	#3397	#3398	---	
	flaming direction / side	warp / B	warp / A	weft / A	---	
14	<u>Impairment of the burner by dropping or falling material:</u> Time <sup>1)</sup>	./.	./.	./.	./.	min:s
15	<u>Premature end of test</u> Final occurrence of burning at the specimen <sup>1)</sup>	./.	./.	./.	./.	min:s
16	Time of eventually end of test <sup>1)</sup>	./.	./.	./.	./.	min:s
17	<u>After flame after end of test</u> Time <sup>1)</sup>	./.	./.	./.	./.	min:s
18	Number of specimen	./.	./.	./.	./.	
19	Front side of specimen <sup>2)</sup>	./.	./.	./.	./.	
20	Back side of specimen <sup>2)</sup>	./.	./.	./.	./.	
21	flame length	./.	./.	./.	./.	cm
22	<u>Afterglow after end of test</u> Time <sup>1)</sup>	./.	./.	./.	./.	min:s
23	Number of specimen	./.	./.	./.	./.	
24	<u>Place of appearance</u> Lower half of the specimen <sup>2)</sup>	./.	./.	./.	./.	
25	Upper half of the specimen <sup>2)</sup>	./.	./.	./.	./.	
26	Front side of specimen <sup>2)</sup>	./.	./.	./.	./.	
27	Back side of specimen <sup>2)</sup>	./.	./.	./.	./.	
28	<u>Density of smoke</u> ≤ 400 % * min	8	26	11	---	% * min
29	> 400 % * min <sup>4)</sup>	./.	./.	./.	./.	% * min
30	Diagram: incl. no.	1	2	3	---	
31	<u>Residual lengths: individual value <sup>3)</sup></u> Specimen 1	69	65	60	---	cm
	Specimen 2	61	54	60	---	cm
	Specimen 3	67	64	63	---	cm
	Specimen 4	68	63	66	---	cm
32	<u>Average value, individual test <sup>3)</sup></u>	66	62	62	---	
33	<u>Photo of specimen in enclosure no.</u>	1	2	3	---	
34	<u>Flue gas temperature</u>	115	113	114	---	°C
35	Maximum of average value Time <sup>1)</sup>	09:27	09:21	10:00	---	min:s
36	Diagram: incl. no.	1	2	3	---	
37	Remarks: - none -					

<sup>1)</sup> indication of times: from the begin of testing procedure <sup>2)</sup> checked off if applicable

<sup>3)</sup> indication of carrier/foam layer separated in case of fire-proofing agents

<sup>4)</sup> very strong development of smoke

## 6. Explanations concerning the testing procedure

There were no additional tests proceeded because of the residual length of more than 45 cm.

## 7. Summary of results and additional establishments to Fire Behaviour

line no.	measurement	Result with the tested specimen				dimension
	test-no.	#3353 warp / B	#3397 warp / A	#3398 weft / A	---	
1	residual length	66	62	62	---	cm
2	max. smoke temperature	115	113	114	---	°C
3	density of smoke - integral	8	26	11	---	%min
4	remarks: -none-					

According to DIN 4102, part 1, "schwerentflammbare" (hardly flammable) building materials must meet the requirements of class B2.

Pursuant to additional tests in the ignitability apparatus this can be determined (appendix 4).

## 8. Special remarks

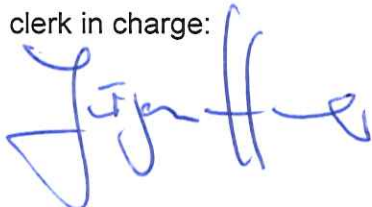
- This report is only valid for the material as described under paragraph 1. In combination with other materials or with additional coatings or grounds etc. the burning behaviour may differ.
- This test report is not valid for the exposure to outdoor climate conditions.
- This test report is not valid, as soon as the fabric is used as a building product in the sense of the "Landesbauordnungen" (state building requirements, MBO § 17, par. 3).
- This test report is no substitute for a General Building Inspectorate Certificate.
- This test report is granted without prejudice to the rights of third parties, in particular private proprietary rights.
- For legal interests only the German original version is relevant.
- In General Building Inspectorates procedures this test report can be based for
  - regular building materials for the required proof of accordance
  - for not regular building materials for the required proof of applicability

## 9. Validity

This test report is valid until the mentioned date on page 1. The test report becomes invalid in case the standards on which the tests are based are changed.

Fladungen, 18.03.2020

clerk in charge:



(Dipl.-Ing. (FH) Jürgen Hammer)



Head of the test laboratory:



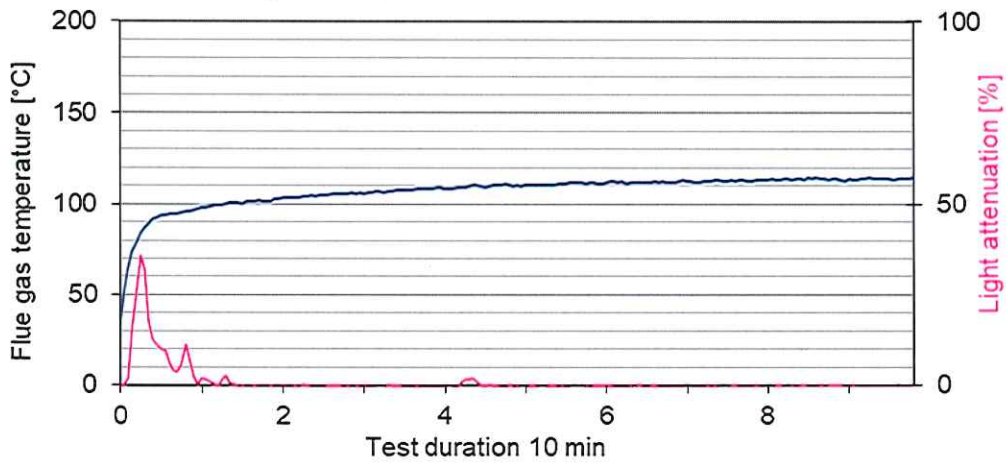
(Dipl.-Ing.(FH) Andreas Hoch)

**„Brandschacht“-test #3353**



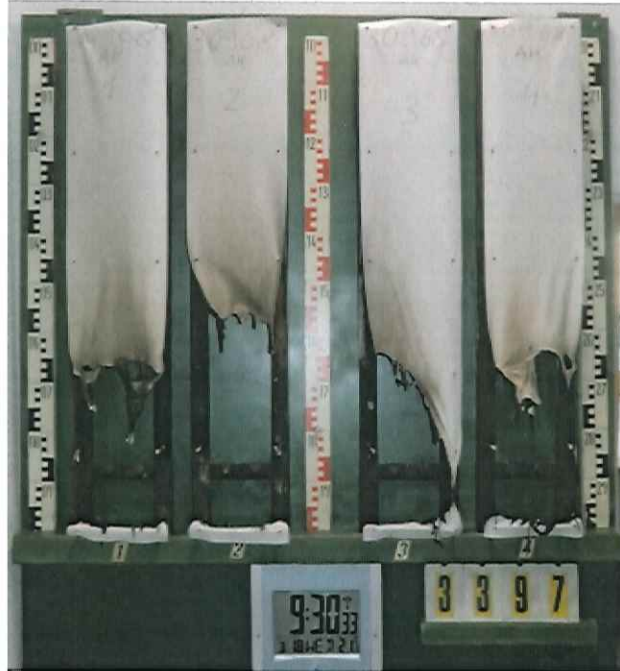
**measurement**

**#3353, PN30968: HEYTEX, "H7385 digitex decoflex...", B+K**  
 Max. flue temperature: 115°C, Smoke density integral: 8%min  
 Residual length: 66 cm



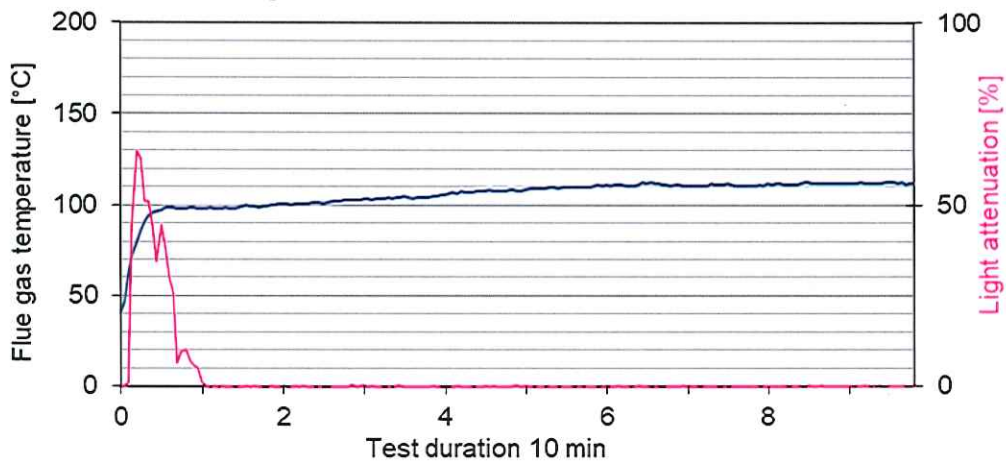


**„Brandschacht“-test #3397**

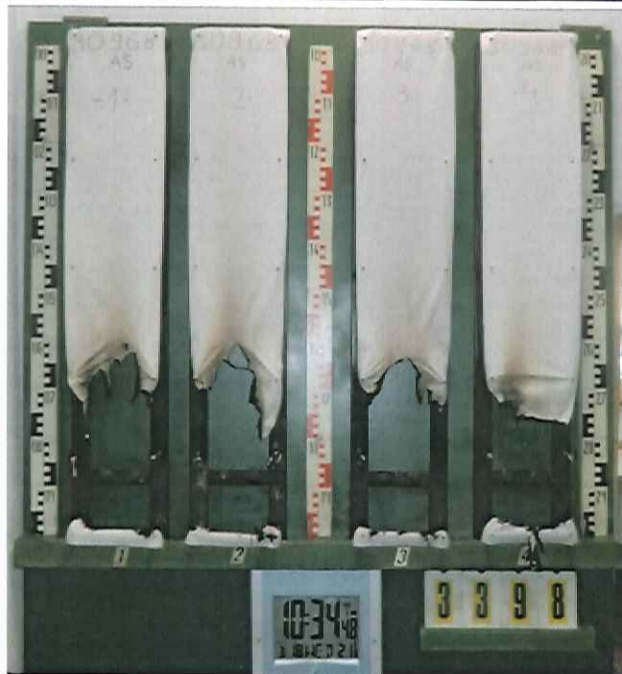


**measurement**

#3397, PN30968: HEYTEX, "H7385 digitex decoflex...", A+K  
Max. flue temperature: 113°C, Smoke density integral: 26%min  
Residual length: 62 cm

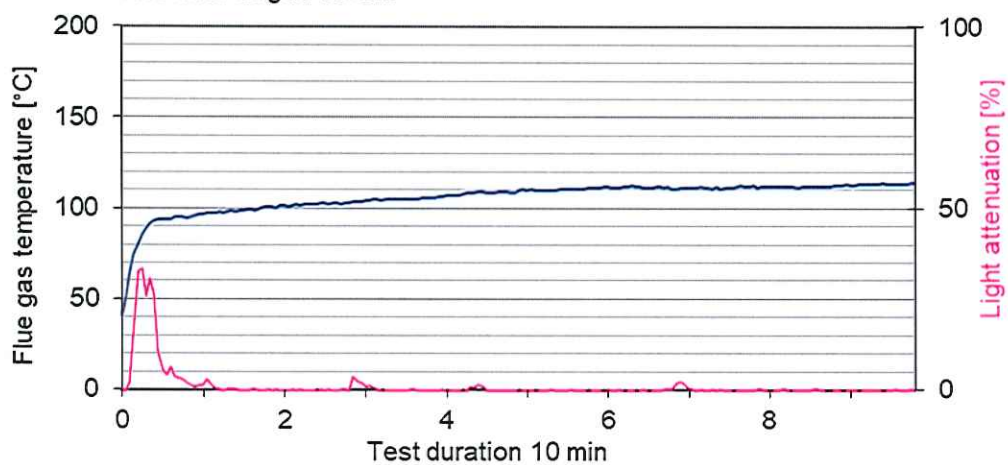


**„Brandschacht“-test #3398**



**measurement**

**#3398, PN30968: HEYTEX, "H7385 digitex decoflex...", A+S**  
Max. flue temperature: 114°C, Smoke density integral: 11%min  
Residual length: 62 cm



**Test for normal flammability  
 classifying B2 according to DIN 4102**

1. Description of test material in condition as delivered look at page 2
2. Preparation of samples  
 Out of the material there have been cut samples for the ignitability apparatus.  
 The samples were kept in a climate 23/50 until they reached constant weight.
3. Arrangement of samples -freely suspended-  
 Flaming in warp and weft direction / Flaming side A and side B
4. Date of test CW 12 in 2020
5. Results

PN 30968: flaming side A in weft	surface-test						edge-test						Dim
	1	2	3	4	5	6	1	2	3	4	5	6	
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
ignition <sup>1)</sup>	3	3	3	3	3	--	1	--	--	--	--	--	s
reaching the mark of measurement <sup>1)2)</sup>	./.	./.	./.	./.	./.	--	./.	--	--	--	--	--	S
max. flame height	10	10	11	11	12	--	11	--	--	--	--	--	cm
time	15	15	15	12	15	--	12	--	--	--	--	--	
self cessation of the flames end of afterflame <sup>1)</sup>	16	15	15	14	16	--	15	--	--	--	--	--	s
end of glowing <sup>1)</sup>	./.	./.	./.	./.	./.	--	./.	--	--	--	--	--	s
flames were extinguished after <sup>1)</sup>	./.	./.	./.	./.	./.	--	./.	--	--	--	--	--	s
smoke development (visual)	heavy						heavy						
dropping of burning material during 20 s <sup>1)</sup>	./.	./.	./.	./.	./.	--	./.	--	--	--	--	--	s
Appearance after test: burned out till max. height 10 cm x width 4 cm													

PN 30968: additional tests	edge-test						surface-test						Dim
	1	2	3	4	5	6	1	2	3	4	5	6	
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
ignition <sup>1)</sup>	1	1	1	--	--	--	3	3	3	--	--	--	s
reaching the mark of measurement <sup>1)2)</sup>	./.	./.	./.	--	--	--	./.	./.	./.	--	--	--	s
max. flame height	12	10	11	--	--	--	11	10	11	--	--	--	cm
time	12	12	12	--	--	--	15	12	12	--	--	--	
self cessation of the flames end of afterflame <sup>1)</sup>	15	15	17	--	--	--	19	15	16	--	--	--	s
end of glowing <sup>1)</sup>	./.	./.	./.	--	--	--	./.	./.	./.	--	--	--	s
flames were extinguished after <sup>1)</sup>	./.	./.	./.	--	--	--	./.	./.	./.	--	--	--	s
smoke development (visual)	heavy						heavy						
dropping of burning material during 20 s <sup>1)</sup>	./.	./.	./.	--	--	--	./.	./.	./.	--	--	--	s
Appearance after test: burned out till max. height 10 cm x width 4 cm													

<sup>1)</sup> time mentioned from the beginning of the test <sup>2)</sup> during 20 Sec -/- no appearance -- no information

6. Remarks and explanations to the testing procedure - none -
7. Opinion concerning the dropping of burning material  
 The test for normal flammability shows no burning dripping material.