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**date**  
23/07/2018

## **TEST REPORT 18-0750-02**

**Translation of test report 18-0750-01 dated 13/07/2018**

### **Samples received :**

<b><u>Name</u></b>	<b><u>Date of receipt</u></b>
Flat needlepunched carpet with 100% polypropylene wear layer with impregnation based on latex SBR Commercial reference: <b>Expostyle</b> , colour: green Production date : 19/06/2018 OF1810720 mother bobbin: 180144368 daughter bobbin: 180144637	22/06/2018

### **Aim of the test :**

Determination of the fire behaviour

### **Test conditions :**

#### **Small flame test**

Standard: **ISO 11925-2 (2010 + AC 2011)\***

Method: The use surface of a vertically put specimen placed on a fibre cement board (loose laid) is ignited by a propane gas flame. Under condition of a surface flame attack with 15 s exposure time, there shall be no flame spread in excess of 150 mm vertically from the point of the test flame within 20 s from the time application. If the boundary line is not reached within 20 s, the sample meets the requirements for the class E<sub>fl</sub>.

Number of tests: 3 lengthwise and 3 crosswise

Conditioning 23 ± 2 °C and 50 ± 5 % R.H.

samples:

## Fire Behaviour

Standard: **EN ISO 9239-1 (2010)\***

Method: Before the test the samples are **not cleaned**.

A floorcovering is put on **(loose laid)** a fibre cement board (according to EN 13238) . During the test, the specimen is irradiated by a gas radiator at an angle of 30°. A small flame is used to ignite the specimen. The specimen is ignited during 10 minutes. In case of inflammable specimens, the test lasts until the flame is extinguished, but 30 minutes at the most. The criterion is the burned length, from which the critical radiant flux is deduced using a calibration curve.

Number of tests: 4

Conditioning 23 ± 2 °C and 50 ± 5 % R.H.

samples:

The tests were finished in week 28/2018

## **OBTAINED RESULTS**

### **Small flame test**

Ignition time : 15 s

#### **Lengthwise**

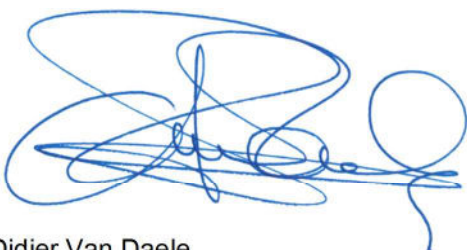
Sample	Burning time (s)	After glowing time (s)	Boundary line reached within 20 s
1	>60	-	no
2	16	-	no
3	>60	-	no

#### **Crosswise**

Sample	Burning time (s)	After glowing time (s)	Boundary line reached within 20 s
1	>60	-	no
2	54	-	no
3	>60	-	no

### **Fire behaviour**

Specimen number	1 Length	2 Width	3 Length	4 Length	Average Specimens 1,3,4
Flame spread after 10 min (mm)	0	0	0	0	
Flame spread after 20 min (mm)	0	0	0	0	
Flame spread after 30 min (mm)	0	0	0	0	
Flame spread at extinction (mm)	0	0	0	0	
Flame time	12min 0s	12min 0s	12min 0s	12min 0s	
Critical heat flux CHF at extinction (kW/m <sup>2</sup> )	11.1	11.1	11.1	11.1	≥11
Total smoke production at end of test (%.min)	13	8	8	8	9



Didier Van Daele  
Head of Floor covering and Fire Tests



Prof. Dr. Paul KIEKENS, dr. h. c.  
Director

## **ENCLOSURE TO REPORT 18-0750-02**

***Classification according to EN 13501 –1 (2007 + A1: 2009)\****

<b>Classification</b>	<b>EN ISO 11925-2 (ignition time = 15 s)</b>	<b>EN ISO 9239-1 (test period = 30 min)</b>	<b>CLASS</b>
B <sub>fl</sub>	F <sub>s</sub> ≤ 150 mm in 20 s	Critical flux ≥ 8.0 kW/m <sup>2</sup>	<b>X</b>
C <sub>fl</sub>	F <sub>s</sub> ≤ 150 mm in 20 s	Critical flux ≥ 4.5 kW/m <sup>2</sup>	
D <sub>fl</sub>	F <sub>s</sub> ≤ 150 mm in 20 s	Critical flux ≥ 3.0 kW/m <sup>2</sup>	
E <sub>fl</sub>	F <sub>s</sub> ≤ 150 mm in 20 s	No demand	
F <sub>fl</sub>	No demand	No demand	

***Additional classification smoke development according to EN 13501-1 (2007 + A1:2009)\****

		<b>CLASS</b>
Smoke development ≤ 750%.min	s1	<b>X</b>
Smoke development > 750%.min	s2	

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**date**  
13/07/2018

## **TEST REPORT 18-0749-02**

**Translation of test report 18-0749-01 dated 13/07/2018**

### **Samples received :**

<b><u>Name</u></b>	<b><u>Date of receipt</u></b>
Ribbed needlepunched carpet with 100% polypropylene wear layer with impregnation based on latex SBR Commercial reference: <b>Expoline TAI</b> , colour: green Production date : 20/06/2018 OF1811729 mother bobbin: 180136196 daughter bobbin: 180146240	22/06/2018

### **Aim of the test :**

Determination of the fire behaviour

### **Test conditions :**

#### **Small flame test**

Standard: **ISO 11925-2 (2010 + AC 2011)\***

Method: The use surface of a vertically put specimen placed on a fibre cement board (loose laid) is ignited by a propane gas flame. Under condition of a surface flame attack with 15 s exposure time, there shall be no flame spread in excess of 150 mm vertically from the point of the test flame within 20 s from the time application. If the boundary line is not reached within 20 s, the sample meets the requirements for the class E<sub>fl</sub>.

Number of tests: 3 lengthwise and 3 crosswise

Conditioning: 23 ± 2 °C and 50 ± 5 % R.H.

samples:

## Fire Behaviour

Standard:

**EN ISO 9239-1 (2010)\***

Method:

Before the test the samples are **not cleaned**.

A floorcovering is put on **(loose laid)** a fibre cement board (according to EN 13238) . During the test, the specimen is irradiated by a gas radiator at an angle of 30°. A small flame is used to ignite the specimen. The specimen is ignited during 10 minutes. In case of inflammable specimens, the test lasts until the flame is extinguished, but 30 minutes at the most. The criterion is the burned length, from which the critical radiant flux is deduced using a calibration curve.

Number of tests: 4

Conditioning 23 ± 2 °C and 50 ± 5 % R.H.

samples:

The tests were finished in week 28/2018.

## OBTAINED RESULTS

### Small flame test

Ignition time : 15 s

#### Lengthwise

Sample	Burning time (s)	After glowing time (s)	Boundary line reached within 20 s
1	15	-	no
2	15	-	no
3	23	-	no

#### Crosswise

Sample	Burning time (s)	After glowing time (s)	Boundary line reached within 20 s
1	>60	-	no
2	>60	-	no
3	30	-	no

## Fire behaviour

Specimen number	1 Length	2 Width	3 Length	4 Length	Average Specimens 1,3,4
Flame spread after 10 min (mm)	50	0	0	0	
Flame spread after 20 min (mm)	50	0	0	0	
Flame spread after 30 min (mm)	50	0	0	0	
Flame spread at extinction (mm)	50	0	0	0	
Flame time	12min 0s	12min 0s	12min 0s	12min 0s	
Critical heat flux CHF at extinction (kW/m <sup>2</sup> )	11.0	11.1	11.1	11.1	≥11
Total smoke production at end of test (%.min)	22	14	12	7	13




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Head of Floor covering and Fire Tests

Prof. Dr. Paul KIEKENS, dr. h. c.  
Director

## **ENCLOSURE TO REPORT 18-0749-02**

***Classification according to EN 13501 –1 (2007 + A1: 2009)\****

<b>Classification</b>	<b>EN ISO 11925-2 (ignition time = 15 s)</b>	<b>EN ISO 9239-1 (test period = 30 min)</b>	<b>CLASS</b>
B <sub>fl</sub>	Fs ≤ 150 mm in 20 s	Critical flux ≥ 8.0 kW/m <sup>2</sup>	<b>X</b>
C <sub>fl</sub>	Fs ≤ 150 mm in 20 s	Critical flux ≥ 4.5 kW/m <sup>2</sup>	
D <sub>fl</sub>	Fs ≤ 150 mm in 20 s	Critical flux ≥ 3.0 kW/m <sup>2</sup>	
E <sub>fl</sub>	Fs ≤ 150 mm in 20 s	No demand	
F <sub>fl</sub>	No demand	No demand	

***Additional classification smoke development according to EN 13501-1 (2007 + A1:2009)\****

		<b>CLASS</b>
Smoke development ≤ 750%.min	s1	<b>X</b>
Smoke development > 750%.min	s2	