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**Date**  
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## TEST REPORT 08-321

**Samples received :**

Textile floorcovering ref. "190 Brilliant Step"  
Received on 13/05/08

**Aim of the test :**

Determination of fire behaviour

**Test conditions :**

Standard: **EN ISO 9239-1 (2002)\***

Method: Before the test the samples are not cleaned with a spray-extraction machine. A floorcovering is put on (loose laid) an eternit plate (Eflex). 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.

*The test EN 11925-2 has not been performed because the carpet fulfils the requirements of EN 14041 page 8 section 4.1.4 table 2. The carpet has a total mass of  $\pm 700$  g/m<sup>2</sup> and a surface pile thickness of  $\pm 5.0$  mm.*

Number of tests: 3  
Conditioning samples:  $23 \pm 2$  °C and  $50 \pm 5$  % R.H.

The tests were performed in week 21/2008

The test results only apply to materials that correspond to the tested sample. Forgery will be legally prosecuted, just like partial reproduction without prior written permission. The tests that are marked ° are not accredited. Advices and interpretations are not covered by the accreditation.

The department of Textiles is Notified laboratory n°1611 for the European Products directive 89/106/EC.

**Classification according to EN 13501 –1 (2002)°**

Classification	EN ISO 11925-2 (ignition time = 15 s)	EN ISO 9239-1 (test period = 30 min)
B <sub>fl</sub>	F <sub>s</sub> ≤ 150 mm in 20 s	Critical flux ≥ 8.0 kW/m <sup>2</sup>
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 (2002)°**

Smoke development ≤ 750%.min	s1
Smoke development > 750%.min	s2

**OBTAINED RESULTS**

**a) Critical Flux :**

Sample	Burned length (mm)		
	after 10 min	after 20 min	after 30 min
length	220	225	225
width	255	265	265
width	210	215	215
width	290	300	300
<b>average (of width)</b>	<b>252</b>	<b>260</b>	<b>260</b>

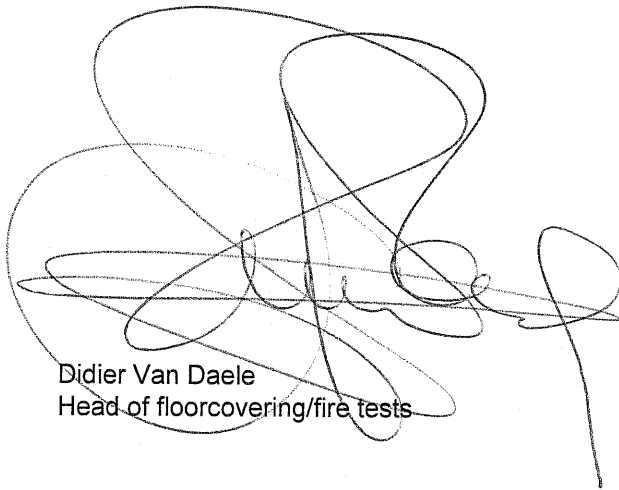
Sample	Burned length maximum (mm)	Extinction (s)	Critical Flux (kW/m <sup>2</sup> )
length	225	747	8.8
width	265	741	8.0
width	215	762	9.1
width	300	735	7.3
<b>average (of width)</b>	<b>260</b>	<b>-</b>	<b>8.1</b>

b) Smoke development:

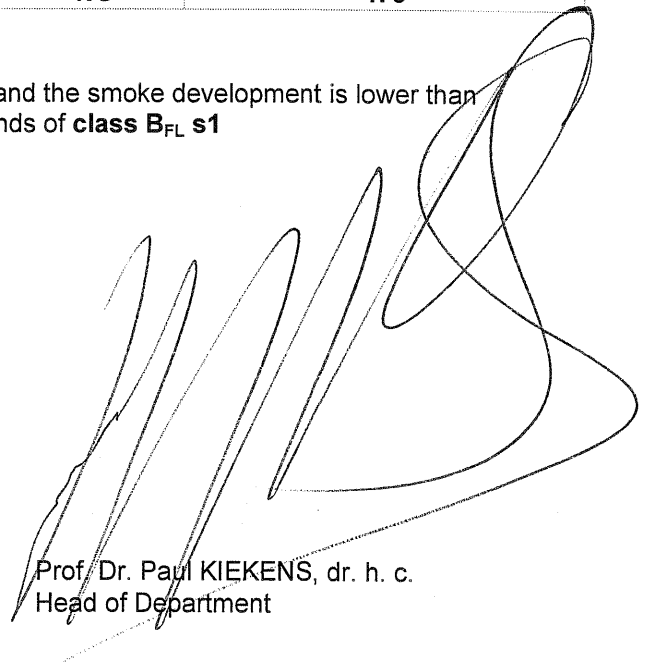
Sample	Smoke development (%min)			Smoke development (%min)
	after 10 min	after 20 min	after 30 min	Maximum
length	433	460	470	470
width	477	508	508	508
width	347	362	371	371
width	481	529	540	540
<b>average (of width)</b>	<b>435</b>	<b>466</b>	<b>473</b>	<b>473</b>

**CLASSIFICATION**

Since the radiation intensity is **higher** than  $8.0 \text{ kW/m}^2$  and the smoke development is lower than 750 %min, the quality "**190 Brilliant**" meets the demands of **class B<sub>FL</sub> s1** according to EN 13501-1°.



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