

Landscape Solutions B.V.  
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**Date**  
25/03/13

## TEST REPORT 13-180B

Extension

### Samples received :

Royal Grass Silk 35 – Seda  
Infill sand 10 kg/m<sup>2</sup>  
Received on 15/03/2013

### Aim of the test :

Determination of fire behaviour

### Test conditions :

#### Fire Behaviour

Standard:

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

Method:

Before the test the samples are **not cleaned** with a spray-extraction machine.

A floorcovering is **put on** (loose laid) a fibre cement board (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.

Number of tests:

3

Measurement  
uncertainty:

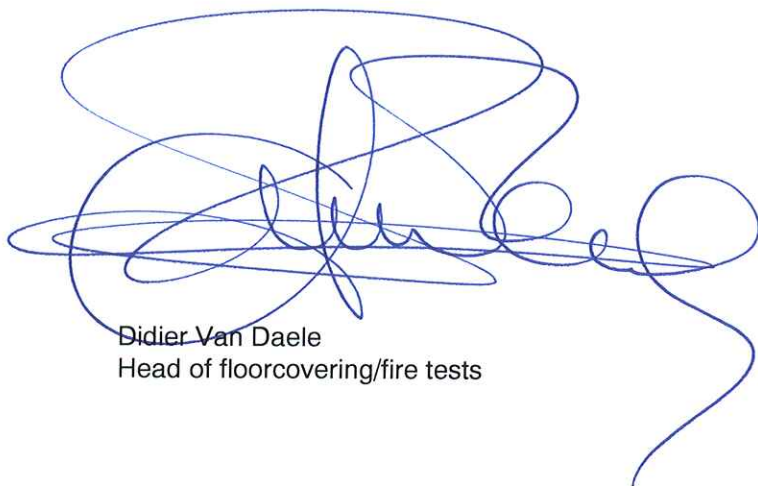
The relative reproducibility for 3 repetitions is 15.6% for the flux, 84.5% for the smoke development.

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

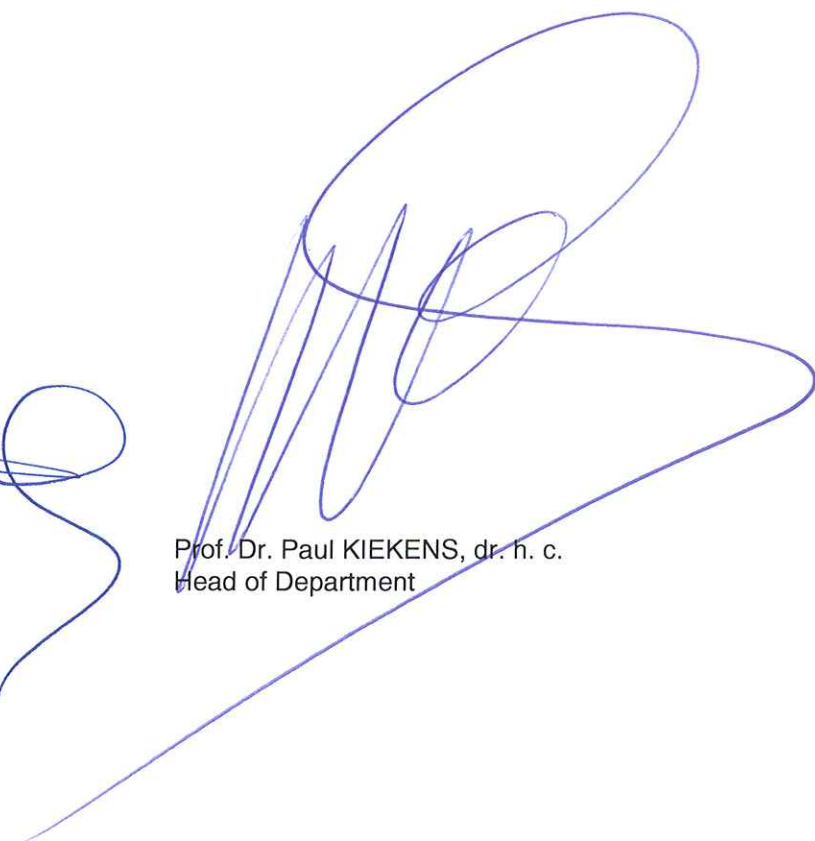
The tests were performed in week 12/2013

**OBTAINED RESULTS**

Specimen number	1 Length	2 Length	3 Length	Average
Flame spread after 10 min (mm)	305	250	270	
Flame spread after 20 min (mm)	390	390	395	
Flame spread after 30 min (mm)	445	440	435	
Flame spread at extinction (mm)	445	440	435	
Flame time	30min 0s	30min 0s	30min 0s	
Heat flux at 30min (kW/m <sup>2</sup> )	4.7	4.7	4.8	4.7
Total smoke production at end of test (%.min)	236	181	179	199



Didier Van Daele  
Head of floorcovering/fire tests



Prof. Dr. Paul KIEKENS, dr. h. c.  
Head of Department

## ENCLOSURE TO REPORT 13-180B

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

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

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

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