



Landscape Solutions B.V.
To the attention of Emiel Arts
Muziekplein 67
5402 CS – Uden
Nederland

contact
Didier Van Daele

e-mail
didier.vandaele@UGent.be

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ORIENTATING TEST REPORT 13-180A

Extension

Samples received :

Royal Grass Silk 35 – Seda
Infill sand 5 kg/m²
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:

1

Measurement
uncertainty:

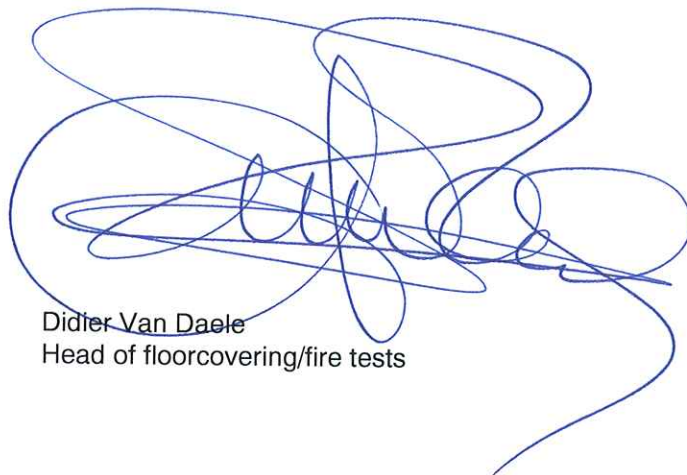
The relative reproducibility for 3 repetitions is 15.6% for the flux, 84.5% for the smoke development.

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

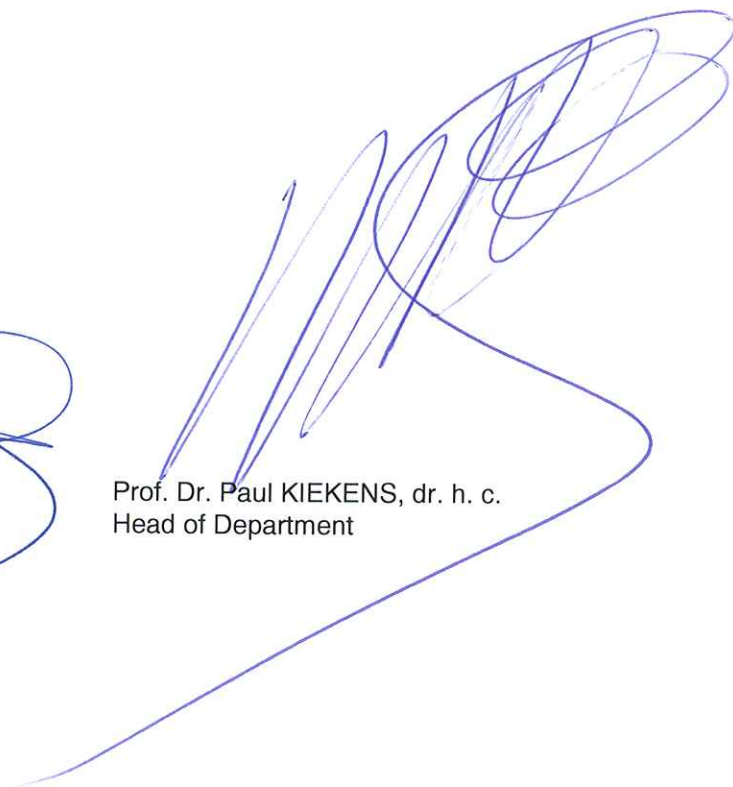
The tests were performed in week 12/2013

OBTAINED RESULTS

Specimen number	1 Length
Flame spread after 10 min (mm)	400
Flame spread after 20 min (mm)	550
Flame spread after 30 min (mm)	630
Flame spread at extinction (mm)	630
Flame time	30min 0s
Heat flux at 30min (kW/m ²)	2.4
Total smoke production at end of test (%.min)	548



Didier Van Daele
Head of floorcovering/fire tests



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

ENCLOSURE TO REPORT 13-180A

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)	PROBABLE CLASS
B _{fl}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 8.0 kW/m ²	
C _{fl}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 4.5 kW/m ²	
D _{fl}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 3.0 kW/m ²	
E _{fl}	F _s ≤ 150 mm in 20 s	No demand	X
F _{fl}	No demand	No demand	

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

		PROBABLE CLASS
Smoke development ≤ 750%.min	s1	X
Smoke development > 750%.min	s2	