

SS Floor Co., Ltd
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WUJIN
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P.R OF CHINA

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Date
2/07/14

TEST REPORT 14-517

Samples received:

PVC Floor 5.0 mm
Received on 10/06/2014

Aim of the test:

Determination of fire behavior

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) to a fibre cement board. 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 floorcovering fulfills the requirements of EN 14041 section 4.1.4 table 3. The floorcovering has a total mass of 9700 g/m² and a total thickness of 5.0 mm as declared by the customer.

Number of tests:

4

Measurement

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

uncertainty:

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

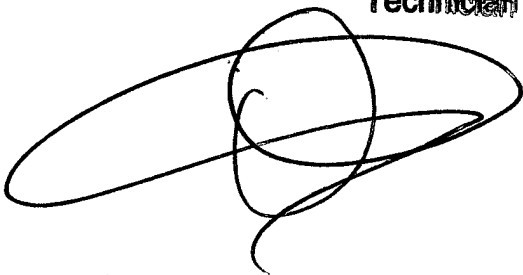
The tests were performed in week 25/2014

OBTAINED RESULTS

Fire Behaviour

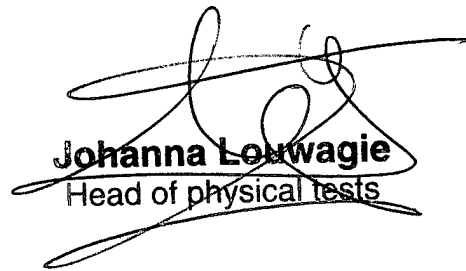
Specimen number	1 Length	2 Width	3 Length	4 Length	Average Specimens 1,3,4
Flame spread after 10 min (mm)	120	110	120	125	
Flame spread after 20 min (mm)	125	120	120	125	
Flame spread after 30 min (mm)	125	120	120	125	
Flame spread at extinction (mm)	125	120	120	125	
Flame time	12min 30s	12min 15s	12min 33s	12min 57s	
Heat flux at 30min (kW/m ²)	10.5	10.6	10.6	10.5	10.5
Total smoke production at end of test (%.min)	392	371	352	248	330

Ka Chi Liu
Technician



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Head of physical tests



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

ENCLOSURE TO REPORT 14-517

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 _{fl}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 8.0 kW/m ²	X
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	
F _{fl}	No demand	No demand	

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

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