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date
07/06/2022

TEST REPORT 22-0420-01

Samples received

<u>Name</u>	<u>Date of receipt</u>
SPC FLOORING 3.0 mm	18/05/2022

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 (loose laid) on a fibre cement board (according to EN 13238) 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_{fl}.

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 22/2022

OBTAINED RESULTS

Small flame test

Lengthwise

Specimen	Burning time (min:s)	After glowing time (min:s)	150 mm reached within 20 s
1	00:15	-	No
2	00:15	-	No
3	00:15	-	No

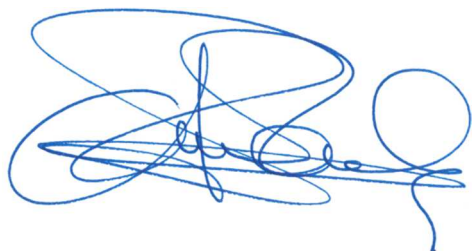
Crosswise

Specimen	Burning time (min:s)	After glowing time (min:s)	150 mm reached within 20 s
1	00:15	-	No
2	00:15	-	No
3	00:15	-	No

Fire behaviour

Specimen	Lengthwise	Crosswise	Crosswise	Crosswise	Average of specimens
Test Date					Crosswise
Flame spread after 10 min (mm)	40	50	40	40	
Flame spread after 20 min (mm)	40	50	40	40	
Flame spread after 30 min (mm)	40	50	40	40	
Flame spread after extinction (mm)	40	50	40	40	
Flame time	12min 00s	12min 00s	12min 00s	12min 00s	
Critical heat flux CHF at extinction (kW/m ²)	>11	>11	>11	>11	>11
Total smoke production at end of test (%.min)	19	12	13	15	13

Note: heat flux values are rounded to the nearest 0.2 (kW/m²) as specified in ISO 9239-1



Didier Van Daele
Head of Floor covering and Fire Tests

ENCLOSURE TO REPORT 22-0420-01

Classification according to EN 13501 –1

Warning: As such, this statement cannot be used for CE labelling purposes, because an additional classification report according to EN 13501-1 is required.

Classification	EN ISO 11925-2	EN ISO 9239-1	CLASS
	(ignition time = 15 s)	(test period = 30 min)	
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

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