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date
30/11/2017

TEST REPORT 17-1360-01

Samples received :

Name	Date of receipt
COREtec® SOLIDCORE: RCB SPC (co-extrusion rigid core, ABA) : <ul style="list-style-type: none"> · 0.5 mm wear layer · 1 mm LVT top layer (including print film) · 1.50 mm rigid core (density 2000) · 1 mm LVT bottom layer · 1 mm cork underlayment Density: 2000 kg/m ³	16/11/2017

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 on a fibre cement board (loose laid) 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: 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.

Number of tests: 4

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

samples:

The tests were finished in week 48/2017

OBTAINED RESULTS

Small flame test

Ignition time : 15 s

Lengthwise

Sample	Burning time (s)	After glowing time (s)	Boundary line reached within 20 s
1	15	-	no
2	15	-	no
3	15	-	no

Crosswise

Sample	Burning time (s)	After glowing time (s)	Boundary line reached within 20 s
1	15	-	no
2	15	-	no
3	15	-	no

Fire behaviour

Specimen number	1 Length	2 Width	3 Width	4 Width	Average Specimens 2,3,4
Flame spread after 10 min (mm)	90	100	110	100	
Flame spread after 20 min (mm)	90	100	110	100	
Flame spread after 30 min (mm)	90	100	110	100	
Flame spread at extinction (mm)	90	100	110	100	
Flame time	12min 45s	12min 6s	12min 45s	12min 36s	
Heat flux at 30min (kW/m ²)	10.8	10.6	10.5	10.6	≥11
Total smoke production at end of test (%.min)	260	311	282	304	299



Didier Van Daele
Head of Fire Tests and Floorcoverings

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Director

ENCLOSURE TO REPORT 17-1360-01

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