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TEST REPORT 12-201

Samples received :

Podium
Received on 16/03/2012

Aim of the test :

Determination of fire behaviour

Test conditions :

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 (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. *The test EN 11925-2 has not been performed because the carpet fulfils the requirements of EN 14041 page 8 section 4.1.4 table 2. The carpet has a total mass of 760 g/m² and a pile thickness of 2.6 mm as obtained by the customer.*
Number of tests:	4
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.

BELAC ISO/IEC17025 055-test

The tests were performed in week 13/2012

OBTAINED RESULTS

a) Critical Flux :

Sample	Burned length (mm)		
	after 10 min	after 20 min	after 30 min
Width	140	140	140
Length	240	240	240
Length	130	130	130
Length	160	160	160
average (of length)	**177**	**177**	**177**

Sample	Burned length maximum (mm)	Extinction (s)	Critical Flux (kW/m^2)
Width	140	732	10.3
Length	240	1002	8.6
Length	130	756	10.4
Length	160	732	10.0
average (of length)	**177**	**-**	**9.7**

b) Smoke development:

Sample	Smoke development (%min)			Smoke development (%min)
	after 10 min	after 20 min	after 30 min	Maximum
Width	2	3	3	3
Length	2	2	2	2
Length	7	10	10	10
Length	5	6	6	6
average (of length)	**5**	**6**	**6**	**6**

Didier Van Daele
Head of floorcovering/fire tests

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

ENCLOSURE TO REPORT 12-201

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}	Fs ≤ 150 mm in 20 s	Critical flux ≥ 8.0 kW/m²	**X**
C_{fl}	Fs ≤ 150 mm in 20 s	Critical flux ≥ 4.5 kW/m²	
D_{fl}	Fs ≤ 150 mm in 20 s	Critical flux ≥ 3.0 kW/m²	
E_{fl}	Fs ≤ 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	