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Date
16/04/13

TEST REPORT 13-241

Samples received :

Be Smart
Received on 04/04/2013

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.

The test EN 11925-2 has not been performed because the floorcovering fulfills the requirements of EN 14041 page 8 section 4.1.4 table 2. The floorcovering has a total mass of 3.15 kg/m² and a pile thickness of 3.7 mm as declared 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.

The tests were performed in week 15/2013

OBTAINED RESULTS

Specimen number	1 Length	2 Width	3 Width	4 Width	Average Specimens 2,3,4
Flame spread after 10 min (mm)	375	400	320	370	
Flame spread after 20 min (mm)	400	425	320	410	
Flame spread after 30 min (mm)	400	425	320	410	
Flame spread at extinction (mm)	400	425	320	410	
Flame time	13min 15s	13min 51s	12min 9s	14min 27s	
Critical heat flux CHF at extinction (kW/m ²)	5.4	4.9	6.9	5.2	5.6
Total smoke production at end of test (%.min)	407	437	366	482	428

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ENCLOSURE TO REPORT 13-241

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	
C _{fi}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 4.5 kW/m ²	X
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	