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TEST REPORT 10-592

Extension

Samples received :

Tiles "Allura FLEX"
Received on 22/07/2010

Aim of the test :

Determination of the fire behaviour

Test conditions :

Fire Behaviour

Standard: **EN ISO 9239-1 (2002)***
Method: Before the test the samples are **not cleaned** with a spray-extraction machine.
A floorcovering is glued to a fibre cement board by the customer. 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:

Classification according to EN 13501 –1 (2002)°

Classification	EN ISO 11925-2 (ignition time = 15 s)	EN ISO 9239-1 (test period = 30 min)
B _{fl}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 8.0 kW/m ²
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 (2002)°

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

The tests were performed in week 30/2010.

OBTAINED RESULTS

a) Radiation intensity :

Sample	Burned length (mm)		
	after 10 min	after 20 min	after 30 min
width	250	255	255
length	255	260	260
length	255	265	265
length	260	265	265
average (of length)	257	263	263

Sample	Burned length maximum (mm)	Extinction (s)	Radiation intensity (kW/m ²)
width	255	762	8.2
length	260	741	8.1
length	265	747	8.0
length	265	750	8.0
average (of length)	263		8.0

b) Smoke development:

Sample	Smoke development (%min)			Smoke development (%min)
	after 10 min	after 20 min	after 30 min	Maximum
width	441	481	481	481
length	444	511	511	511
length	474	561	608	608
length	465	545	550	550
average (of length)	461	539	556	556

CLASSIFICATION

Since the radiation intensity is **higher** than 8 kW/m^2 and the smoke development is **smaller** than 750 %min, the tile **Allura FLEX** meets the demands of **class B_{fl}s1** according to EN 13501-1°

This classification only applies to materials that correspond to the tested sample.

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