

Forbo Flooring B.V.
De heer Koert Brocke
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NEDERLAND

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Date
30/01/12

TEST REPORT 11-1096

Samples received :

Marmoleum Fresco 2.5mm Batch nr. 30369, adhesive Eurocol 614, substrate Chipboard
Received on 9/12/2011

Aim of the test :

Determination of fire behaviour

Test conditions :

Standard: **EN ISO 9239-1 (2002)***

Method: Before the test the samples are not cleaned with a spray-extraction machine.
A floorcovering has been glued on wood 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.
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 2900 g/m² and a surface pile thickness of 2.5 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.

The test results only apply to materials that correspond to the tested sample. Forgery will be legally prosecuted, just like partial reproduction without prior written permission. Tests that are marked *are accredited, those marked ° are not accredited. Advices and interpretations are not covered by the accreditation.

The department of Textiles is Notified laboratory n°1611 for the European Products directive 89/106/EC.

The tests were performed in week 50/2011

OBTAINED RESULTS

a) Critical Flux :

Sample	Burned length (mm)		
	after 10 min	after 20 min	after 30 min
Width	280	330	330
Length	280	345	345
Length	290	350	370
Length	270	345	385
average (of length)	280	347	367

Sample	Burned length maximum (mm)	Extinction (s)	Critical Flux (kW/m ²)
Width	330	1383	6.8
Length	345	1161	6.4
Length	370	1770	5.9
Length	385	>1800	5.6
average (of length)	367	-	6.0

b) Smoke development:

Sample	Smoke development (%min)			Smoke development (%min)
	after 10 min	after 20 min	after 30 min	Maximum
Width	219	301	308	308
Length	213	292	292	292
Length	212	291	312	312
Length	223	316	357	357
average (of length)	216	300	320	320

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Head of Department

ENCLOSURE TO REPORT 11-1096

Classification according to EN 13501 –1 (2002)°

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/m ²	
C _{fl}	Fs ≤ 150 mm in 20 s	Critical flux ≥ 4.5 kW/m ²	X
D _{fl}	Fs ≤ 150 mm in 20 s	Critical flux ≥ 3.0 kW/m ²	
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 (2002)°

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