Evaluation according to AgBB 2015

392-2015-00382001_D_EN

1. General Information

Testing laboratory	Eurofins Product Testing A/S
Responsible laboratory staff	Janne Rothmann Norup
Number of the test report	392-2015-00382001_D_EN
Client/Applicant	Forbo Flooring GmbH
Name of the product and material number	Flotex
Process number at DIBt	II 45-1.156.601-451/13
Approval no.	Z-156.601-578
Control type	Surveillance - long / New
Date of batch production	2015-11-11
Date of receipt of the sample	2015-11-19
Storage of the sample until testing	unopened at room temperature
Product Group	Textile floor coverings
Build	other
pile layer material	null
Backing	null

Description of the construction product:

Parameter	Manufacturer	Laboratory
General description of the product	Textile flooring	Textile flooring
Manufacturing method		
Type of fibre (chemical basis)		
Surface design	flocked	
Backing material		
Total thickness	4.3 mm	4.2 mm
Area weight	1815 g/m²	1800 g/m²
Additional information		

Comments

2. Test parameter

Date of the completion of the test specimen	2015-12-01
Preparation of the test specimen by	JUN
Used auxiliary materials	Frame JIS A 1901
Start of preconditioning	
Placing of the test specimen into the test chamber and start of testing	2015-12-01
Arrangement of the test specimen in the test chamber	In the middle
Covering of the edges? Ratio of covered edges to uncovered edges?	All edges covered
Use of the break-off criteria	No
Manufacturer/type of the test chamber	Eurofins
Material of the test chamber	Stainless steel
Volume of the test chamber [m³]	0.119
Area of the test specimen [m²]	0.048
Air exchange rate [1/h]	0.5
Area specific air flow rate [m/h]	1.240
Temperature [°C]	23.0
Relative humidity [%]	50.0
Comments on testing	

3. Evaluation for AgBB 2015

Parameter	Day 3					Day 7				Day 28			
			✓	→	✗			✓	→			✓	✗
	[µg/m³]	[mg/m³]	[mg/m³]	[mg/m³]	[mg/m³]	[µg/m³]	[mg/m³]	[mg/m³]	[mg/m³]	[µg/m³]	[mg/m³]	[mg/m³]	[mg/m³]
TVOC	92	**0.1**	0.3	10.0	>10.0	-	**-**	0.5	>0.5	116	**0.1**	1.0	>1.0
S SVOC	0	**0.00**	0.03	>0.03	-	-	**-**	0.05	>0.05	0	**0.0**	0.1	>0.1
R-Value *	0.074	**0.1**	0.5	>0.5	-	-	**-**	0.5	>0.5	0.038	**0**	1	>1
S VOC w/o LCI	7	**0.01**	0.05	>0.05	-	-	**-**	0.05	>0.05	0	**0.0**	0.1	>0.1
S Carcinogenic	0	**0.000**	0.001	0.01	>0.01	-	**-**	0.001	>0.001	0	**0.000**	0.001	>0.001
Total			✓				-					✓	
DIBt Parameter													
Formaldehyde	-	**-**	0.060	>0.060	-	-	**-**	0.060	>0.060	-	**-**	0.120	>0.120
Additional Information													
S VVOC	0	**0**	-	-	-	-	**-**	-	-	0	**0**	-	-

*) dimension less ✓ Pass → Continue ✗ Fail

4. Measurement

4.1. Day 3

Date of measurement: 2015-12-04
TVOC ISO 16000-6: µg/m³

CAS-No.	Compound name	Ret. Range	RT [min]	C [µg/m³]	Identifi-cation	C_tol [µg/m³]	Quantifi-cation	Comment	Ri	LCI Value
75-12-7	Formamide	VOC	2.77	7		7	II	quntified as toluene equivalent	-	-
108-95-2	Phenol	VOC	8.1	2	specific		I	C_tol < 1 µg/m3	0.000	10
104-76-7	2-Ethyl-1-hexanol	VOC	8.8	19	specific	14	I		0.063	300
1120-21-4	n-Undecane	VOC	9.76	4	specific	4	I		0.000	6000
112-40-3	n-Dodecane	VOC	10.96	2	specific	2	I		0.000	6000
	saturated aliphatic hydrocarbons higher than C9	VOC	8.8-12.1	66		66	II	quantified as toluene equivalent	0.011	6000

4.2. Day 28

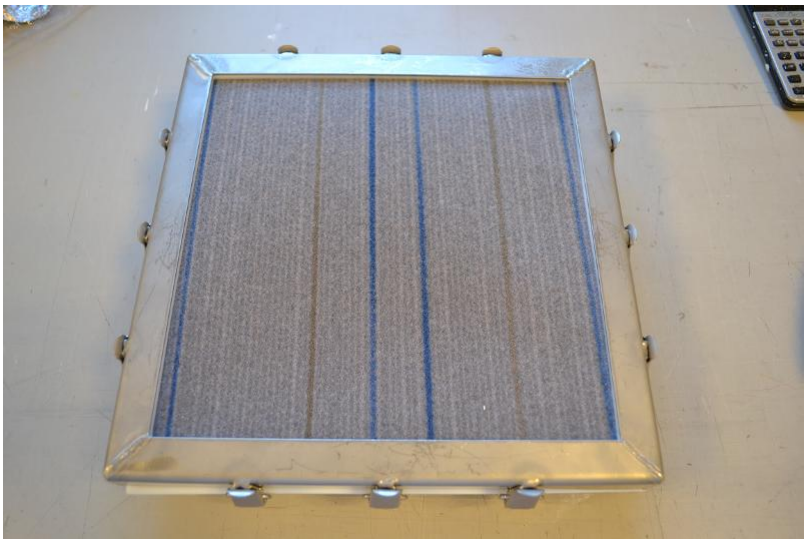
Date of measurement: 2015-12-29
TVOC ISO 16000-6: µg/m³

CAS-No.	Compound name	Ret. Range	RT [min]	C [µg/m³]	Identifi-cation	C_tol [µg/m³]	Quantifi-cation	Comment	Ri	LCI Value
78-93-3	Ethylmethylketone	VOC	5.83	4	specific	2	I		0.000	5000
108-95-2	Phenol	VOC	8.1	2	specific	1	I		0.000	10
104-76-7	2-Ethyl-1-hexanol	VOC	8.77	6	specific	4	I		0.020	300
541-02-6	Decamethylcyclopentasiloxane	VOC	10.39	1	specific	2	I		0.000	1500
	saturated aliphatic hydrocarbons higher than C9	VOC	9.4-14	110		110	II	quantified as toluene equivalent	0.018	6000

CAS-No.	Compound name	Ret. Range	RT [min]	C [µg/m³]	Identifi-cation	C_tol [µg/m³]	Quantifi-cation	Comment	Ri	LCI Value
50-00-0	Formaldehyde	IC	-(no RT)-		DNPH		I	C < 3 µg/m3	0.000	100 (VVOC)

5. Images

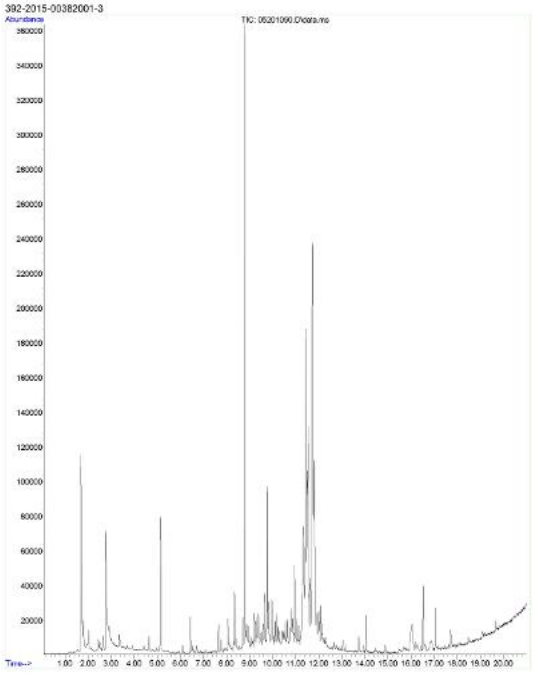
5.1. Specimen image



5.2. Product image

6. Chromatograms

6.1. Day 3



6.2. Day 28