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Bru/50
Dresden, 11 March 2022

Test Report no. 2522133/1

Client: Centexbel
Technologiepark 70
B - 9052 Gent-Zwijnaarde
Belgium

Order: Testing of floor covering regarding:

- formaldehyde release based on test chamber method EN 717-1

T2202114

Contractor: Entwicklungs- und Prüflabor Holztechnologie GmbH (EPH)
Laboratory Chemical Testing
Zellescher Weg 24
01217 Dresden

Engineer in charge: Dipl.-Ing. (FH) S. Hahn

Dipl.-Ing. Martina Broege
Head of Laboratory Chemical Testing

1 Assignment

The laboratory chemical testing of the EPH was instructed to determine the formaldehyde release of floor covering based on test chamber method EN 717-1.

2 Sample material

Sample delivery EPH: 01/03/2022, airtight wrapped

Sample	Description	Size Test pieces (TP)	Thickness [mm]
1	Floor covering (PVC Floors) T2202114	20 TP 915 mm x 152 mm	1.8

The test material was used up respectively is stored for 3 months.

3 Test chamber method EN 717-1

Method: EN 717-1:2005-01; Wood-based panels - Determination of formaldehyde release - Part 1: Formaldehyde emission by the chamber method

The determination of the formaldehyde release was carried out according to the chamber method EN 717-1:2005 (Testing "back to back") under following test conditions:

Sample 1			
Test pieces (TP):	4 TP à 200 x 280 [mm]	Temperature (T):	23°C ± 0.5 K
Test chamber:	KT-61 (0.225 m³)	Air exchange ratio:	1.0 ± 0.05/ h
Test period:	02/03/2022 - 08/03/2022	Loading ratio:	1.0 ± 0.02 m²/m³
Start tests:	03/03/2022	Rel. air humidity (RH):	45 ± 3 %
Edge sealing:	Full	Parameter recording:	T; RH

Limit of Detection (LOD) of test method: *0.008 ppm HCHO*

4 Test results test chamber method EN 717-1 and Evaluation[1]

Sample	**Formaldehyde release** EN 717-1			*	German Prohibition of Chemical Ordinance[2] **Quality fulfilled**	
	Unit	Measured value	measured value multiplied by factor 2		Yes	No
1	ppm	< LOD	< LOD	I (144 h)	☒	☐
	µg / m³	< LOD	< LOD			

* Cancellation criteria EN 717-1:
- I lower detection limit over a testing time of 4 days
- II linear regression function from the test results of 4 consecutive days does not increase by more than 2 µg/m³
- III the decline of the calculated concentration curve is equal or lower than 5% over the testing time of 4 days (within 28 days)
- IV completely regression curve (max. 28 days)

Dipl.-Ing. (FH) S. Hahn
Engineer in charge

[1] Statements on conformity assessment/classification were made on the basis of the measurement results obtained. Measurement uncertainties are not included in the assessment (ILAC G8 03/2009 " Guidelines on the Reporting of Compliance with Specification" Section 2.7).

[2] German Chemical Prohibition Ordinance appendix 1 of §3 dated 2017-01-20 in connection with *"Bekanntmachung analytischer Verfahren"* published on 26 November 2018, BAnz AT 26.11.2018 B2
- Formaldehyde limit value acc. to German Prohibition of Chemical Ordinance 0.1 ppm (124 µg/m³)
- Test results according to DIN EN 717-1 are multiplied by the factor 2
- according to UBA correspond to 0,1 ppm ≙ 124 µg/m³; https://www.umweltbundesamt.de/themen/wirtschaft-konsum/produkte/bauprodukte/studien-zur-messung-bewertung-von-schadstoffen/formaldehydemissionen-pruefbedingungen-fuer, Status 2019-06-12