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Bru/50
Dresden, 18 March 2022

Test Report no. 2522093

Client: DYAS.EU, a.s.
Veselská 384
687 24 Uherský Ostroh, CZ

Order: Testing of plywood regarding:
○ formaldehyde release according to test chamber method EN 717-1

Multifine Beech

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

The test report contains 3 pages. Any duplication, even in part, requires written permission of EPH. These test results are exclusively related to the tested material.

1 Assignment

The laboratory chemical testing of the EPH was instructed to determine the formaldehyde release of plywood according to test chamber method EN 717-1.

2 Sample material

Sample delivery EPH: 11/02/2022, airtight wrapped

Sample	Description	Size Test pieces (TP)	Thickness [mm]
1	Plywood Product type: Beech Plywood Product name: Multifine Beech Production date: 03/02/2022	2 TP 500 mm x 500 mm	15

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

Test conditions:

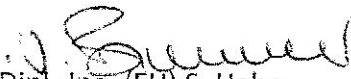
Sample 1			
Test pieces (TP):	2 TP à 200 x 280 [mm]	Temperature (T):	23°C ± 0.5 K
Test chamber:	KT-57 (0.225 m ³)	Air exchange ratio:	1.0 ± 0.05/ h
Test period:	14/02/2022 - 14/03/2022	Loading ratio:	1.0 ± 0.02 m ² /m ³
Start tests:	15/02/2022	Rel. air humidity (RH):	45 ± 3 %
Edge sealing:	ratio = 1.5	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 Evaluation¹

Sample	Formaldehyde release EN 717-1			*	German Prohibition of Chemical Ordinance ²	
	Unit	Measured value	measured value multiplied by factor 2		Quality fulfilled	
					Yes	No
1	ppm	0.04	0.08	IV (672 h)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	µg / m ³	47	94			

- * 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

¹Statements 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 \cong 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