

test report no.
8862/286/2019

date
Czarna Woda, 28.10.2019

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**OŚRODEK BADAWCZO-ROZWOJOWY
PRZEMYSŁU PŁYT DREWNOPOCHODNYCH sp. z o.o.**

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Research & Development Centre of Wood-Based Panels
Testing Laboratory
Laboratory for Testing Products



AB 244



TEST REPORT

Subject: Formaldehyde emission

Test method:
PN-EN 717-1:2006

Customer:
GROUP DELTA INVESTMENTS LLC.
119435 Moscow, Rossolimo st. 17,
Bld. 3, floor 2, office V

Basis of testing:
AGREEMENT No 15/2019 from 14.10.2019

Date and location of testing:
Laboratorium Badania Wyrobów OBRPPD, 23.10 ÷ 28.10.2019

Tests results presented in Table 1, refer only to the examined samples.
The test report cannot be copied in parts but only in entirety.
The test material was used up.

1. Information from customer

Producer:	GROUP DELTA INVESTMENTS LLC. 606640, Russia, Nizhniy Novgorod region, Semenovskiy district, poselok Sukhobezvodnoye, Schkolmaya str. 61
Type of the board:	Birch phenolic plywood WBP 4-24 mm thickness
Thickness:	6,5 mm
Batch no.:	01OTV
Material name:	Betula pendula
Date of production:	September 15, 2019
Date and place of sampling:	September 17, 2019

2. Sample identification
nr 19743



3. Sample delivery

Delivered by: courier

Date of sample delivery: 20.09.2019

Service during the period between delivery to the laboratory and the start of the testing:

- samples were kept wrapped in PE foil until the beginning of the test

4. Test method (conditions and analytic method)

The formaldehyde emission testing was performed according to:

- PN-EN 717-1:2006 Wood-based panels – Determination of formaldehyde release – Part 1: Formaldehyde emission by the chamber method.

Testing conditions:

- chamber volume: 0,225 m³;
- temperature: (23 ± 0,5)°C;
- relative humidity: (45 ± 3)%;
- loading ratio: (1,0 ± 0,02) m²/m³;
- air exchange rate: (1,0 ± 0,05)/h;
- air velocity at the surface of the specimen: (0,1 to 0,3) m/s
- formaldehyde concentration in make-up air to test chamber: ≤ 0,006 mg_{HCHO}/m³
- ratio of the length of open narrow planes (unsealed) *U* to surface *A* is $U/A = 1,5$ m/m²
- formaldehyde concentration was determined photometrically according to the acetylacetone method.

5. Results of measurements

date	exposure time [h]	HCHO concentration in chamber [mg/m ³]	date	exposure time [h]	HCHO concentration in chamber [mg/m ³]
24.10.2019	17	0,014	26.10.2019	65	0,011
	20	0,013		68	0,010
25.10.2019	41	0,011	28.10.2019	113	0,010
	44	0,012		116	0,011

6. Emission in steady state

Value of emission in steady state: **0,011 mg/m³** (116 h)
0,009 ppm

Test results meet requirements in IKEA Specification IOS-MAT-0181-1, dated: 2019-05-29.

Mirosława Mrozek

Authorized
OB - RPPD spółka z o.o.
Kierownik
Laboratorium Badawczego
Mrozek
mgr inż. Mirosława Mrozek

End of the report