

test report no.  
**9997/209/2020**

date  
Czarna Woda, 14.10.2020

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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, 08.10. ÷ 14.10.2020

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

### 1. Information from customer

Board type:	Plywood HWPW-VC	Production date:	30.09.2020
thickness	12 mm	Sampling:	01.10.2020
Other information:	Range of thickness:	4-30 mm	

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

**2. Sample identification**  
no. 20695

### 3. Sample delivery

Date of sample delivery: 08.10.2020

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 m<sup>3</sup>;
- temperature: (23 ± 0,5)°C;
- relative humidity: (45 ± 3)%;
- loading ratio: (1,0 ± 0,02) m<sup>2</sup>/m<sup>3</sup>;
- 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<sub>HCHO</sub>/m<sup>3</sup>
- ratio of the length of open narrow planes (unsealed) *U* to surface *A* is *U/A* = 1,5 m/m<sup>2</sup>
- formaldehyde concentration was determined photometrically according to the acetylacetone method.

#### 5. Results of measurements

date	exposure time [h]	HCHO concentration in chamber [mg/m <sup>3</sup> ]	date	exposure time [h]	HCHO concentration in chamber [mg/m <sup>3</sup> ]
09-10-2020	16	0,006	13-10-2020	112	0,005
	21	0,007		117	0,006
12-10-2020	88	0,007	14-10-2020	136	0,005
	93	0,007		141	0,004

#### 6. Emission in steady state

Value of emission in steady state: **0,004 mg/m<sup>3</sup>**  
0,003 ppm (141 h)

#### 7. Statement of conformity

specification or standard	German Chemikalien-Verbotsverordnung for wood based materials (enforcement dated: 01.01.2020)	IKEA Specification IOS-MAT-0181-3, dated: 2020-07-06
requirement	0,1 ppm	0,05 ppm
result	0,006 ppm**	0,003 ppm
fulfillment of requirements*	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

\*decision rule: simple acceptance (according to ILAC-G8:09/2019, 4.2.1)

\*\* concentration of EN 717-1 test was multiplied by factor 2

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

End of the report