



AB 053

Test report

no. DBL-2025-1071-01-BLS of 31.03.2025

**Testing of formaldehyde emission according to
PN-EN 717-1:2006 standard from oak finger jointed edge
glued panel.**

SUBJECT

ORDER NUMBER

A/DBL/BLS/1071/2025

**NAME AND ADDRESS
OF ORDERING PARTIES**

Name Pol-Kres Edwood Sp. z o.o.

Address Łomaska 86 st, 21-500 Biała Podlaska

ORDERING PARTY

**IDENTIFICATION
OF TESTED SAMPLES**

Name Oak finger jointed edge glued panel

Sample no.

**DATE OF ACCEPTANCE
OF SAMPLES FOR TESTS**

18.03.2025

**DATE OF PERFORMANCE OF
TESTS**

20 – 31.03.2025

**LOCATION OF PERFORMANCE
OF TESTS**

Laboratory headquarters

ENTITIES CARRYING OUT TESTS

Justyna Dolska,
Beata Wojkiewicz,

M.Sc.Eng
M.Sc.Eng

TESTED OBJECT

	NAME AND SURNAME POSITION	DATE, SIGNATURE
Authorized by	Magdalena Czajka, PhD. Eng. Area Leader - Deputy Manager for Environmental Research	31.03.2025

Test results relate only to the samples. The test report may not be reproduced other than in its entirety without the written consent of the Laboratory Manager

1. TEST METHODS

Name of the test	Document	Method status (A/NA)*
Wood-based panels – Determination of formaldehyde release – Part 1: Formaldehyde emission by the chamber method.	PN-EN 717-1:2006	A

*A – accredited method; NA – non-accredited method

** standard withdrawn, standard withdrawn and replaced

2. EQUIPMENT OF THE TEST STANDS

Name	Type	Producer	ID No.
Glass chamber	1.0 m ³	ITEE Radom	F7/18
Analytical balance	A-5000	AXIS Sp. Z o.o.	F1/2
Air pump	GilAir Plus	Gilian	F6/22
Spectrophotometer	Aqua Mate Plus UV VIS	Thermo Fisher Scientific USA	F4/47
Water bath	PURA22	JULABO GmbH	F4/34

3. DESCRIPTION OF TEST SAMPLE

The object of the assessment was a sample described by the Customer as:

- Oak finger jointed edge glued panel,
- Producer: Pol-Kres Edwood Sp. z o. o., Łomaska 86 st, 21-500 Biała Podlaska.

The samples were taken by the customer and delivered to the laboratory of Łukasiewicz Research Network – Poznań Institute Of Technology on 18.03.2025.

4. TEST RESULTS

PROTOCOL No. 1/1071/2025/BLS
DETERMINATION OF FORMALDEHYDE RELEASE BY THE
CHAMBER METHOD- acc. to PN-EN 717-1:2006

Type of material/product				Oak finger jointed edge glued panel				
Test date				20 – 31.03.2025				
Sample identification : DBL-2025-1071-01-BLS				Chamber No. 23 capacity of 1.0 m³				
Time of sample exposure in the chamber [24 h]	Date of the test	Climatic conditions in the chamber		Test number	Chamber concentration of formaldehyde			
		Temperature	Relative humidity		[mg/m³]	[ppm]		
1	20.03.2025	(23±0.5) °C	(45±3)%	1	0.009	0.007		
				2	0.008	0.006		
2	21.03.2025			1	0.005	0.004		
				2	0.006	0.005		
5	24.03.2025			1	0.006	0.005		
				2	0.006	0.005		
6	25.03.2025			1	0.003	0.002		
				2	0.003	0.002		
7	26.03.2025			1	0.003	0.002		
				2	0.003	0.002		
8	27.03.2025			1	0.003	0.002		
				2	0.003	0.002		
9	28.03.2025			1	0.003	0.002		
				2	0.003	0.002		
12	31.03.2025			1	0.003	0.002		
				2	0.003	0.002		
Average equilibrium concentration of formaldehyde in the air of the chamber					0.003	0.002		
Confidence interval of the actual formaldehyde concentration with probability of 95%: (0.003 ± 0.000) mg/m³ (0.002 ± 0.000) ppm								
According to Commission Regulation (EU) 2023/1464 of 14 July 2023, the concentration of formaldehyde released from furniture and wood-based panels in the air must not exceed 0.062 mg/m³.								

5. ADDITIONAL INFORMATION

1. In the case of samples taken by the client, the Laboratory is not responsible for the identification and representativeness of the object, method and place of collection.
2. The expanded uncertainty was determined for coverage factor $k = 2$ and 95% confidence level. The measurement uncertainty does not take into account the uncertainty component associated with the sampling.

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