



Test report

no. DBL-2026-5118-01-BLS of 17.06.2026

**Testing of formaldehyde emission according to
PN-EN 717-1:2006 standard from 16.0 mm thickness MDF
produced by LLC "KOROSTENS'KIY MDF PLANT"**

SUBJECT

ORDER NUMBER

PZ/A/DBL/5118/2026



AB 053

**NAME AND ADDRESS
OF ORDERING PARTIES**

ORDERING PARTY

Name LLC „Korostens'kiy MDF plant”
Address Ukraine, Zythomyr region, Korosten ,Serhiia
Kemskoho, str. 11-b, 11504

**IDENTIFICATION
OF TESTED SAMPLES**

TESTED OBJECT

Name MDF, thick 16.0 mm

Sample no.

**DATE OF ACCEPTANCE
OF SAMPLES FOR TESTS**

12.03.2026

**DATE OF PERFORMANCE OF
TESTS**

27.05 – 12.06.2026

**LOCATION OF PERFORMANCE
OF TESTS**

Laboratory headquarters

ENTITIES CARRYING OUT TESTS

Justyna Dolska, M.Sc.Eng

	NAME AND SURNAME POSITION	DATE, SIGNATURE
Authorized by	Magdalena Czajka, PhD. Eng. Area Leader - Deputy Manager for Environmental Research	17.06.2026

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** standard withdrawn, standard withdrawn and replaced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	0.225 m ³	ITEE Radom	F6/14
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 of MDF. The sample was described by the Customer as:

- MDF, thickness: 16.0 mm (from thickness range 12.0 – 38.0 mm);
- Date of production: 26.02.2026;
- Sample sizes: 200x280mm (2 pieces);
- Producer: LLC „Korostens'kiy MDF plant” Serhiia Kemsokho Street 11-B
11501 Korosten Ukraina.

Samples were taken at the producer's on 27.02.2026 in the presence of L. Kyrylenko, representing LLC „Korostens'kiy MDF plant” and auditor from PIT Certification Sp. z o. o.: W. Miłowska.

The samples were taken by the customer and delivered to the laboratory of Łukasiewicz Research Network - Poznań Institute of Technology on 12.03.2026.

4. TEST RESULTS

PROTOCOL No. 1/5118/2026/BLS
DETERMINATION OF FORMALDEHYDE RELEASE BY THE
CHAMBER METHOD- acc. to PN-EN 717-1:2006

Type of material/product				MDF, thickness: 16.0 mm				
Test date				27.05 – 12.06.2026				
Sample identification:DBL-2026-5118-01-BLS				Chamber No. 15 capacity of 0.225 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	28.05.2026	(23±0.5) °C	(45±3)%	1	0.066	0.053		
	2			0.064	0.052			
2	29.05.2026			1	0.064	0.052		
				2	0.064	0.052		
5	01.06.2026			1	0.058	0.047		
				2	0.058	0.047		
6	02.06.2026			1	0.058	0.047		
				2	0.059	0.047		
7	03.06.2026			1	0.055	0.044		
				2	0.051	0.041		
12	08.06.2026			1	0.039	0.031		
				2	0.038	0.030		
13	09.06.2026			1	0.038	0.031		
				2	0.037	0.029		
14	10.06.2026			1	0.037	0.029		
				2	0.037	0.030		
15	11.06.2026			1	0.038	0.030		
				2	0.037	0.030		
16	12.06.2026			1	0.038	0.030		
				2	0.037	0.030		
Average equilibrium concentration of formaldehyde in the air of the chamber					0.037	0.030		
Confidence interval of the actual formaldehyde concentration with probability of 95%: (0.037 ± 0.001) mg/m³ (0.030 ± 0.001) ppm								
The requirement for formaldehyde emission acc. to EN 717-1 standard within IOS-MAT 0181 v 6 2025-11-27 „Formaldehyde requirements of wood-based materials comprised in REACH” from MDF is 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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