



**MPA** | Eberswalde

Materialprüfanstalt  
Brandenburg GmbH

Prüfung, Überwachung,  
Zertifizierung, Gutachten,  
Forschung und Entwicklung

# Test Report

**No. 31/24/5469/01**

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Geschäftsführer:  
Dr. Robby Wegner

HRB 10408 FF

**Client:** Keflico A/S  
Juelstrupparken 24  
9530 Stoevring  
Denmark

**Applied test procedure:** Determination of formaldehyde release of wood based material according to DIN EN 717-1:2005

**Date of order:** 06.05.2024

**Received:** 06.05.2024

**Test product:** lacquered plywood

**Sampling:** by DNV Business Assurance, Denmark

**Samples received:** 13.05.2024

**Persons in charge:** Dr. R. Wegner, M.Sc. J. Murr

**Period of testing:** 5-6/2024

The test report comprises 4 pages. It refers exclusively to the material submitted for testing and remains property of MPA until completion of full payment. The test material is being stored for 6 months. Publication of test reports is only permissible if published as a whole. Publication of excerpts require in every single case the revocable written consent of MPA.

Sparkasse Schwandorf  
Kto-Nr.: 100 164 862  
BLZ: 750 510 40  
IBAN: DE55 7505 1040 0100 1648 62  
BIC-/SWIFT: BYLADEM1SAD  
USt.-Id. DE814335485  
Finanzamt Eberswalde



Die Akkreditierung gilt nur für die in der Urkunde aufgeführten Verfahren.



vom DIBt anerkannte  
PÜZ-Stelle BRA02

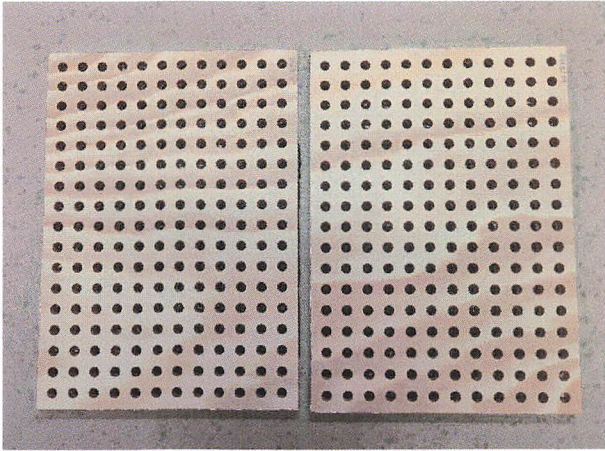


EC notified 0763



CARB notified TPC 18

## **1. Test product**

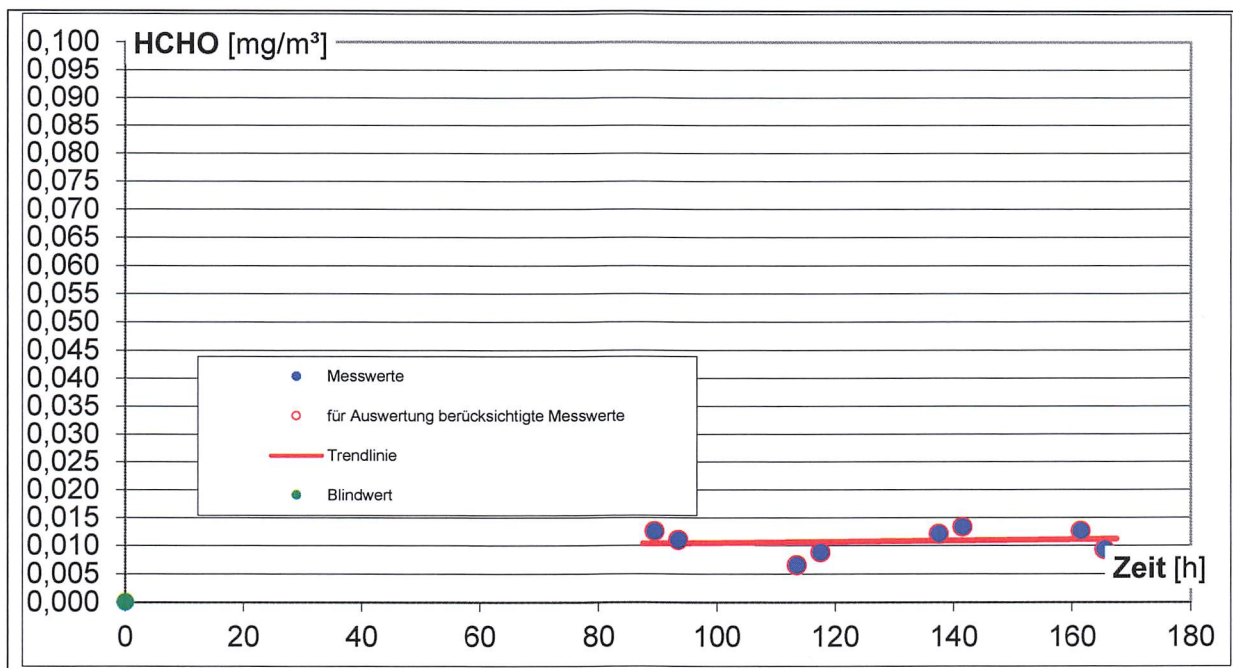
Product	lacquered plywood, „Basic“, „Sono“, „Echo“
Sample size	Basic: 0,5 m x 0,5 m x 12 mm Sono: 0,5 m x 0,5 m x 12 mm Echo: 0,5 m x 0,5 m x 12 mm
Product code	-
Manufacturing date	06.05.2024, Batch no.: 1878
Result of FPC	- mg/m <sup>2</sup> h (EN ISO 12460-3 gas analysis method)
Packaging	Wrapped in plastic foil
Storage conditions	Room temperature
Image	 The image shows two rectangular samples of perforated plywood placed side-by-side on a dark surface. Each sample is a light-colored wood with a regular grid of small, dark circular holes. The samples are oriented vertically and appear to be the same size and type.

## **2. Test procedure and results**

Specimen dimension	two specimens (200 mm x 280 mm); covering the edge area using aluminium tape (168 mm edge of each specimen without covering acc. to DIN EN 717-1)
Date of preparation of test specimen	24.05.2024 (cutting)
Chamber volume (material)	0,225 m <sup>3</sup> (stainless steel / glass)
Area of test specimen	0,224 m <sup>2</sup> (excluding uncovered edges)
Loading ratio	1,0 m <sup>2</sup> /m <sup>3</sup>
Temperature	23 °C (± 0,5 °C)
Relative humidity	45 % (± 3 %)
Air exchange rate	1,0 AC/h (± 0,05 AC/h)
Formaldehyde background concentration in air in chamber	< 0,005 ppm
Period of testing	07.06.- 14.06.2024 (placing of test specimen - final sampling)
Air sampling	approx. 120 L; 2 L/min
Formaldehyde analysis	photometry by acetyl/acetone method
Quantification limit (LOQ)	0,010 mg/m <sup>3</sup> (0,008 ppm)

Test material	Formaldehyde steady state concentration (test duration)	Formaldehyde emission class E1 (requirement acc. to EN 13986)
plywood 12 mm	0,011 mg/m <sup>3</sup> (163 h)*	≤ 0,124 mg/m <sup>3</sup>

\* mean value last test day; 0,009 ppm



Test material	Calculated formaldehyde concentration acc. to ChemVerbotsV*	Formaldehyde steady state concentration (requirement acc. to ChemVerbotsV)
plywood 12 mm	0,018 ppm	≤ 0,1 ppm

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

The tested product **complies** with the formaldehyde emission requirement of German Chemikalien-Verbotsverordnung for wood based materials (enforcement date: 01.01.2020).

NOTE: The test results refer exclusively to the material delivered for testing.

**MPA Eberswalde**  
**Materialprüfanstalt Brandenburg GmbH**  
 - Holz und Holzschutz -

*[Signature]*

Dr. Robby Wegner  
 (Head of Institute)

Eberswalde, 19.06.2024



*[Signature]*

M.Sc. J. Murr  
 (Person in charge)