REPORT

Issued by an Accredited Testing Laboratory

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2026-08-25	O100785-1373703	1 (2)

FramTre Industri AB
Brattsbacka 11
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Formaldehyde emission EN 16516

(2 appendices)

Test object

A sample of lacquered wood paneling for indoor use.

Product name:	**White lacquered pine panel**
Size of sample:	10 pieces à 500 mm
Manufacturing date:	2026-06-16
Package:	Plastic wrapping
Date of arrival:	2026-06-29
Place of testing:	Chemistry and Applied Mechanics, Brinellgatan 4, Borås

Assignment

Emission measurement of formaldehyde in order to comply with *Regulation (EU) 2023/1464* amending *Annex XVII to REACH Regulation ((EC) No 1907/2006)* as regards formaldehyde and formaldehyde releasers (*entry 77 of REACH, Annex XVII*). The test was performed according to EN 16516:2017/A1:2020 (Construction products: Assessment of release of dangerous substances – Determination of emissions of into indoor air) after 28 days.

Method

The test was started on July 3 by unpacking the sample.
The panels were jointed together and two specimens of 495 x 265 mm were cut out from the sample. The specimens were placed back-to-back and the cut edges and part of the surface were sealed with aluminium tape leaving an exposed surface area of 0.250 m^2. The specimen was conditioned outside the testing chamber in a separate conditioning container (with air velocity of approx. 0.2 m/s) in a room with controlled climate conditions of 23 ± 2 ºC and 50 ± 5 % RH. The specimen was then placed in the test chamber, three days before the emission test.

Test conditions in the chamber:

Chamber volume:	0.250 m^3
Temperature:	23 ± 1 ºC
Relative Humidity:	50 ± 3 % RH
Air exchange rate:	1.0 h^{-1}
Air velocity at specimen surface:	0.1 – 0.3 m/s
Area of sample:	0.250 m^2
Area specific air flow rate:	1.0 m^3/m^2h

Confidentiality level
C2 - Internal
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The sampling of formaldehyde was carried out on July 31, 2026 with DNPH samplers. Sampled volumes were 31 litres. The determination was performed according to ISO 16000-3:2022, which means analysis on a liquid chromatograph with absorbance detector. Measurement uncertainty is estimated to 36 % (rel). Quantification limit is estimated to 0.06 µg/DNPH sampler. The analyses were performed on August 7, 2026.

Results

The results relate only to the items tested.
The presented results are the determined steady-state concentration (mg/m^3) in the emission chamber:

Sample	Formaldehyde (mg/m^3)		Formaldehyde mean value (mg/m^3)
White lacquered pine panel	0.002	0.003	**0.002**

Table 1

The formaldehyde concentration in the empty chamber (background-level) was 0.003 mg/m^3 which is subtracted.

Evaluation of the test results

Decision rule:
When stating conformity to requirement documents, the average value of the measured result is compared to the requirement level. The uncertainty is not taken into consideration unless it is a demand to the applicable requirement document. Procedure ”Simple acceptance” for handling the measurement uncertainty is applied according to document ILAC-G8:09/2019, ”Guard band 0”, shared risk <50 % probability for false acceptance.

According to *entry 77 of REACH, Annex XVII* the concentration of formaldehyde released from furniture and wood-based articles must not exceed 0.062 mg/m^3 when tested under the reference conditions in the emission chamber.

The result in Table 1 (0.002 mg/m^3) show that the tested sample have emission below the limit of 0.062 mg/m^3.

Conclusion

The test results show that the tested sample complies with the *Regulation (EU) 2023/1464* amending *Annex XVII to REACH Regulation ((EC) No 1907/2006)* as regards formaldehyde and formaldehyde releasers (*entry 77 of REACH, Annex XVII*).

RISE Research Institutes of Sweden AB
Chemistry and Applied Mechanics - Chemical Product Safety

Performed by

Ulrika Johansson

Examined by

Fredrik Solhage

Appendices

1. Photo of test specimen
2. Sampling report

Appendix 1

Photo of test specimen

Appendix 2

Sampling Report

Sampler (Name, Company, contact info): FramTre Industri AB Brattsbacka 11 914 94 Nyåker +46730409928 or 0930 51097 Viktoria.nilsson@Framtre.se	**Manufacturer of the product** (Company, address): FramTre Industri AB Brattsbacka 11 914 94 Nyåker
Name of product: White lacquered pine panel	**Type of product:** Wood paneling indoors with White lacquer
Manufacturing Date: 2025-06-16	**Batch No:**
Date of sampling: 2026-06-24	**Amount/size of material sampled:** 10 psc x0,5m **Packing material:** Bubble wrap and plastic
Sample is taken from: Production line ☐ Stock / Storage X Miscellaneous ☐ -where, specify:	**How was the product stored before sampling?** Dry and dark
If a sub-sample was collected from a larger material amount, describe how the sub-sample was taken: We cut off the panel	
Observations and remarks:	
Confirmation I hereby confirm that the sample was selected, taken and packed in accordance with the instructions.	
Date: 2026-06-24	**Signature:** Viktoria Knutsson Nilsson

Verification

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Document

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Main document
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Signatories

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