

Formaldehyde emission 0.225 m³ chamber test

Method EN 717-1:2004, "Wood-based panels – Determination of formaldehyde release –

Part 1: Formaldehyde emission by the chamber method"

Chamber Size 0.225 m³

Temp. 23 ± 0.5 °C

R.H. $45 \pm 3\%$

Air Exchange Rate 1/h
Loading Factor 1 m²/m³

Size of test specimens Four pieces 0.280 x 0.200 x 0.013 m. In accordance with EN 14342:2005, the

emission was measured only from the face. The pieces were put together back to

back two and two. Total exposed area: 0.225 m²

Edge Sealing All edges were sealed

Tongue-and-Groove joint 1.12 m

Sample

Type and identification 3 layer parquet (13 mm) with lacquered surface.

Core layer: Spruce, pine. Top layer: Oak.

Internal reference

Producer AB Gustaf Kährs, Nybro

Date of arrival April 5, 2013

Glue/hardener system 1271/2551, 100:10 Glue spread 155 g/m²

Pressing information 94 °C, 100 sec, 1.4 MPa Test period May 15-28, 2013

Test Result

Steady-state emission value 0.01 mg formaldehyde / m³ air. See note 1.

Test duration 333 hours

NOTES

In order to determine the steady state concentration 2 analyses in the beginning and end of a period of 14 days have been made. As
the 2 measurements all were <0.01 mg/m³, the test was stopped and, as stated in EN 717-1, the result given as 0.01 mg/m³. No curve
has been drawn.

The measurement uncertainty is 15 % (including a coverage factor of 2).
 The evaluation of the uncertainty is based on the principles given in The Guide to the Expression of Uncertainty in Measurement, 1993 (GUM) and has been made according to SP Rapport 2000:17 (see report 02 AA 032-rev 1).

3. According to EN 14342:2005 (Wood flooring) and EN 13986:2002 (Wood based panels), the requirement for formaldehyde class E1 is ≤ 0.124 mg/m³.

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Customer: Thomas Witten

Company: AB Gustaf Kährs, Box 805 382 28 Nybro

Distribution: Niclas Berg
Primary data: Formaldehyd 376

Samples: Unused samples are stored for one month after the date of report if nothing else is agreed.

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Responsible

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