

Determination of formaldehyde emission according to the European chamber method



Method	EN 717-1 (Oct 2004) – For wood-based panels – Determination of formaldehyde release – Part 1: Formaldehyde emission by the chamber method. prEN 14342 (Dec 2001) – For wood flooring prEN 14080 (Aug 2002) – For timber structures – glued laminated timber (SOP-KEMI-053 and SOP-KEMI-054)
Chamber material	Stainless Steel
Chamber volume	12 m ³ , 1 m ³ or 0.225 m ³
Loading factor	1 m ² /m ³ for wood-based panels and flooring 0.3 m ² /m ³ for timber structures
Sample area	Two pieces with a total area of 0.225 m ² for panels (2 pieces 0.2 x 0.28 m open backside) and flooring (4 pieces 0.2 x 0.28 put back to back).
Sealing	The edges are partly sealed (1.5 m open edge/m ²) for wood-based panels. All edges are sealed for flooring and only the front side is open. The cut ends are sealed for timber structures.
Conditioning	No
Test duration	2-4 weeks
Temperature	23 ± 0.5°C
Humidity	45 ± 3 %
Air exchanges	1.0 ± 0.05/h
Air velocity	0.1 – 0.3 m/s
Results	Steady state emission in mg/m ³ rounded to the next 0.01 mg/m ³ . Steady state is reached when the decline of the formaldehyde concentration is ≤ 5 % over a testing time of 4 days.
Determination limit	0.01 mg/m ³

