

04/23-F10

## Proof of quality

- EPH-Quality label "Qualität geprüft" (Quality tested) on test certificates



Small test chambers for determining formaldehyde emissions acc. to ASTM D 6007 and VOC emissions e.g. acc. to EN 16516

## Equipment and expertise

The laboratory Chemical Testing is accredited acc. to the criteria of EN ISO 17025. It is equipped with high-performance devices for testing and analysis.

Our equipment comprises 102 test chambers, including one 6 m<sup>3</sup> test chamber, eight 1 m<sup>3</sup> test chambers and smaller test chambers, two micro chamber modules, one 23 m<sup>3</sup> test chamber and one 36 m<sup>3</sup> test chamber.

Quantitative and qualitative determination of emissions or contents of chemicals is carried out using modern analytical equipment (GC with MSD, FID, ECD, WLD, Headspace-GC; HPLC; GPC; ion chromatography) as well as analytical systems for formaldehyde and ammonia. In addition, various spectroscopic techniques (UV-VIS, fluorescence, IR, NIR, RAMAN) are on hand.

## Contact persons

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Formaldehyde testing

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# Chemical Testing



Formaldehyde · Phthalates  
VOC · Odour · Heavy metals  
Wood preservatives · PAH · Ammonia

## Chemical testing

The scope of services offered by the Laboratory Area comprises chemical-analytical investigations, testing and the evaluation of coated products and feedstock of wood and wood-based materials as well as other materials, such as solid and liquid coating products, adhesives and bonding agents. Test methods on the basis of national and international standards as well as institute-internal test procedures applying state-of-the-art testing and analytical technology are available for that purpose.

**As an accredited, impartial laboratory we support you to furnish proof of quality.**



Formaldehyde analyser

## Testing of wood based materials and liquid coatings

- EN 717-1 to 3  
Determination of formaldehyde release, Part 1: chamber method, Part 2: gas analysis method, Part 3: flask method
- EN 120/ISO 12460-5  
Determination of formaldehyde content, extraction method (perforator method)
- EN 71-3  
Migration of heavy metals
- ISO 17895  
Paints and varnishes - Determination of the volatile organic compound content of low-VOC emulsion paints (in-can VOC)
- ISO 11890 part 1 and 2  
Determination of volatile organic compound content (VOC-content)
- ISO 12460-3 and 4  
Determination of formaldehyde release, Part 3: gas analysis, Part 4: desiccator method
- ISO 16702:  
Diisocyanate (Workplace air quality - Determination of total organic isocyanate groups in air)
- ASTM 1333, 6007  
Standard test method for determining formaldehyde concentrations in air and emission rates from wood products
- JIS A 1460  
Building boards, Determination of formaldehyde emission - desiccator method
- ZEK 01.4-08; GS-Spezifikation AfPS GS 2019:01 PAK  
Testing and Evaluation of polycyclic aromatic hydrocarbons (PAH) in the course of GS-mark certification
- VdL-Guideline 03  
Determination of formaldehyde concentration in water-thinnable dispersion paints and related products
- DE-UZ 102  
Low-emission wall paints
- DE-UZ 12 a  
Low-pollutant varnishes
- DE-UZ 76  
Low-emission composite wood panels

## Testing of furniture and building products

- ISO 16000-9 and 10  
Determination of emission of volatile organic compounds (VOC), Part 9: Emission test chamber method, Part 10: FLEC-emission test cell
- ISO 16000-3 and 6  
Indoor air, Part 3: Determination of formaldehyde and other carbonyl compounds, Part 6: Determination of volatile organic compounds in indoor and chamber air
- ISO 16000-28 Indoor air  
Determination of odour emissions from building products using test chambers
- EN 16516: 2020  
Construction products - Assessment of release of dangerous substances - Determination of emissions into indoor air
- DE-UZ 38/DE-UZ 176  
Low emission products from wood and wood based materials
- DE-UZ 113  
Low-emission floor-covering adhesives and other covering materials
- DE-UZ 156  
Low-emission flooring underlays
- RAL-GZ 430/RAL-RG 437  
General quality and test determinations for furniture/ Emission label
- AgBB-Scheme  
Examination for the health evaluation of building products for interiors
- M1  
Finnish emission classification for construction products
- CPSC-CH-C1001-09.3 (04/2010)  
Standard operating procedure for determination of phthalates
- CEN/TR 14823: 2003  
Durability of wood and wood products - quantitative determination of pentachlorophenole in wood - gas chromatographic method
- IHD-W-489 Determination of Melamine in wood-based products applying extraction and HPLC analysis