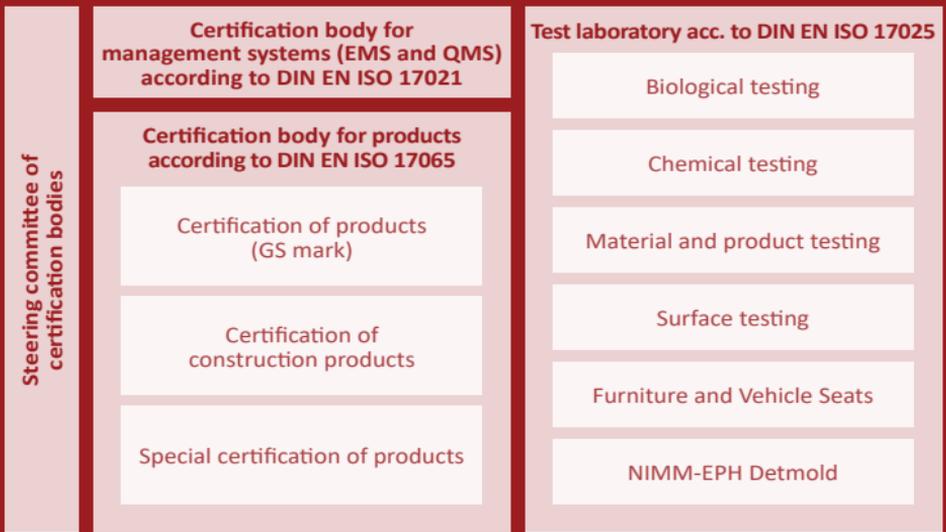




EPH[®]
SUCCESS BY QUALITY

Management EPH



Entwicklungs- und Prüflabor Holztechnologie GmbH (EPH) was founded on 30 September 1992 in Dresden and is a subsidiary of the Institut für Holztechnologie Dresden gemeinnützige GmbH (IHD).

The quality of the testing and certification services provided by EPH is guaranteed by accredited management systems according to DIN EN ISO/IEC 17021 (for quality, energy and environmental management systems), DIN EN ISO/IEC 17025 (for testing laboratories) and DIN EN ISO/IEC 17065 (for product certification bodies).

In addition to its headquarters in Dresden, EPH has a branch in Detmold (NIMM-EPH), which specialises in furniture testing. The branch is accredited by the Deutsche Akkreditierungsstelle GmbH according to DIN EN ISO/IEC 17025 for a variety of standards in furniture testing and is recognised by the ZLS as an authorised body for conducting GS type examinations.

Our services are offered worldwide within the framework of a global network. To this end, EPH works together with representatives and partner laboratories in Germany, Europe, Asia and America.





We focus on providing services, testing, translations and certifications for the wood-based and plastics processing industry and the skilled crafts sector. Our globally recognised test reports and certificates stand for the highest standards in product safety, quality, fitness for the intended use and health protection.

The EPH draws on the technological expertise of its parent company, the IHD. Our employees are competent, flexible and committed. They work actively in DIN, EN and ISO standards committees and contribute to the further development of standards in areas such as flooring, wood based materials and windows.

In addition, EPH markets testing devices such as VOC and formaldehyde testing chambers, which often result from IHD research projects. We also offer individual training programmes that combine theoretical knowledge and practical exercises, either on site or in our laboratories.

Visit us at www.eph-dresden.de to find out more about our extensive range of services. We are happy to be of service and look forward to a successful collaboration!

Yours

Dr.-Ing. Rico Emmler
Managing Director

Our global network



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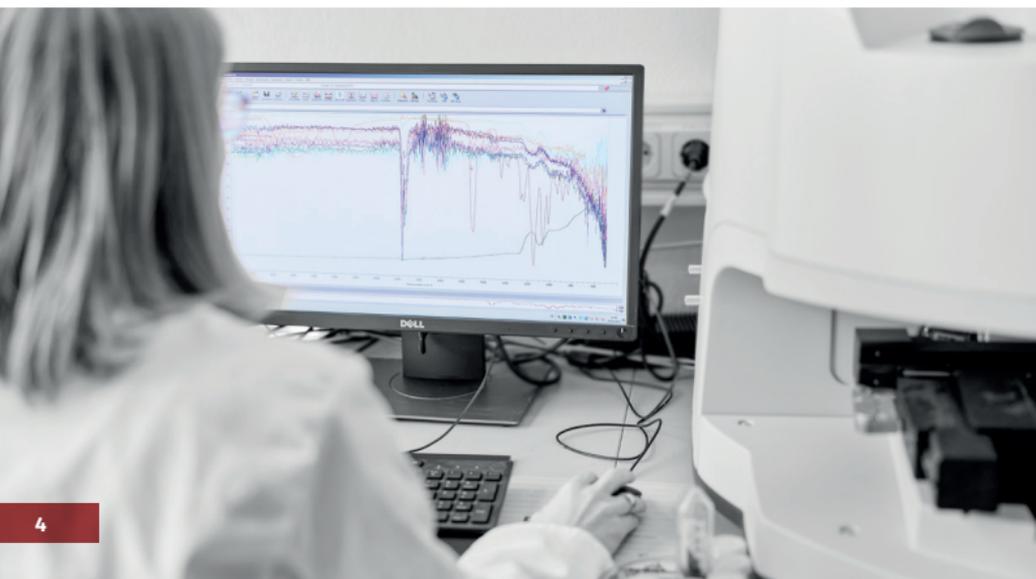
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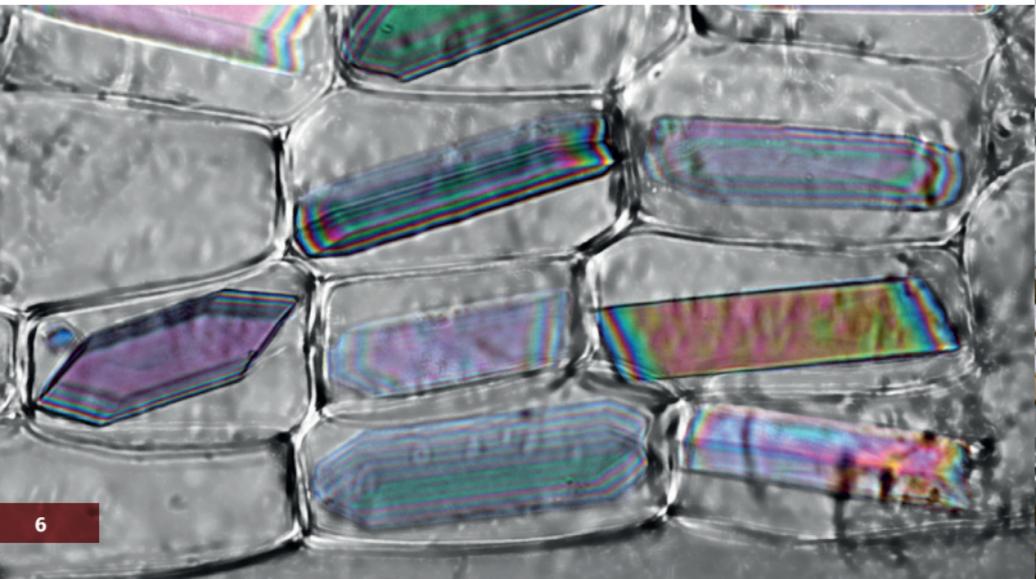
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BIOLOGICAL TESTING

- Efficacy of preservatives and other biocides
- Durability of wood and wood-based materials
- Resistance of materials against microorganisms
- Microbial load of material and air samples
- Diagnostics of microorganisms



Contact persons



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Wood preservation · Wood modification
(TMT) · Building biology · Insulating materials



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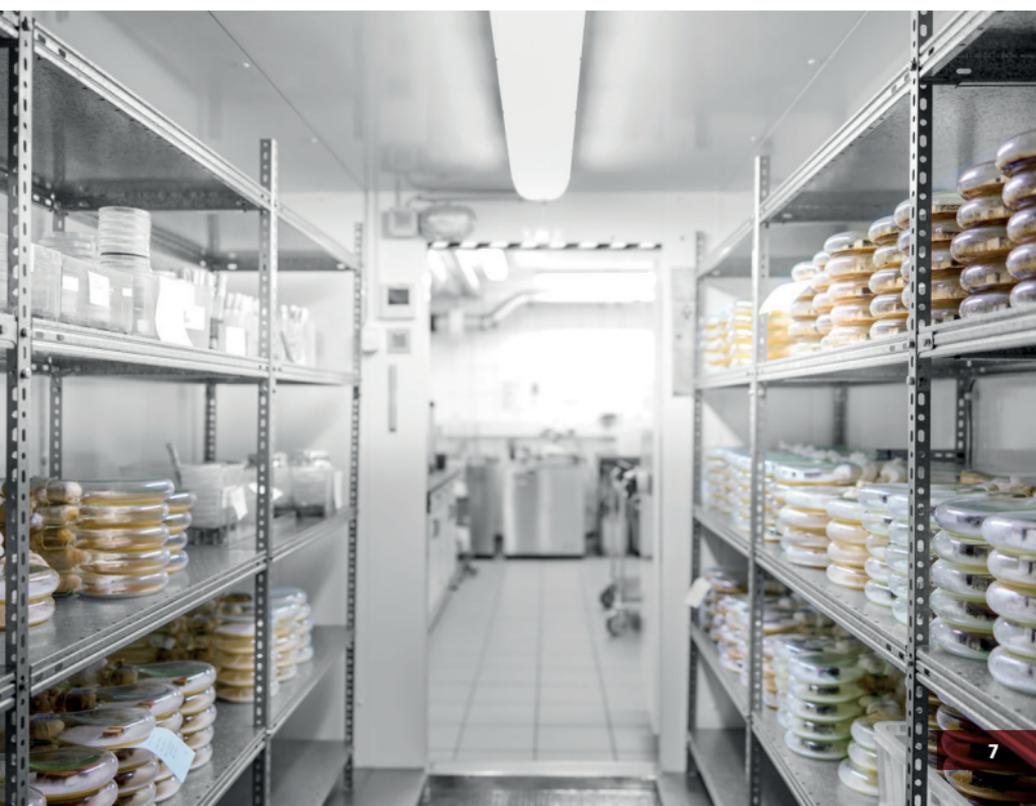
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DNA diagnostics · DNA chip technology



Prof.
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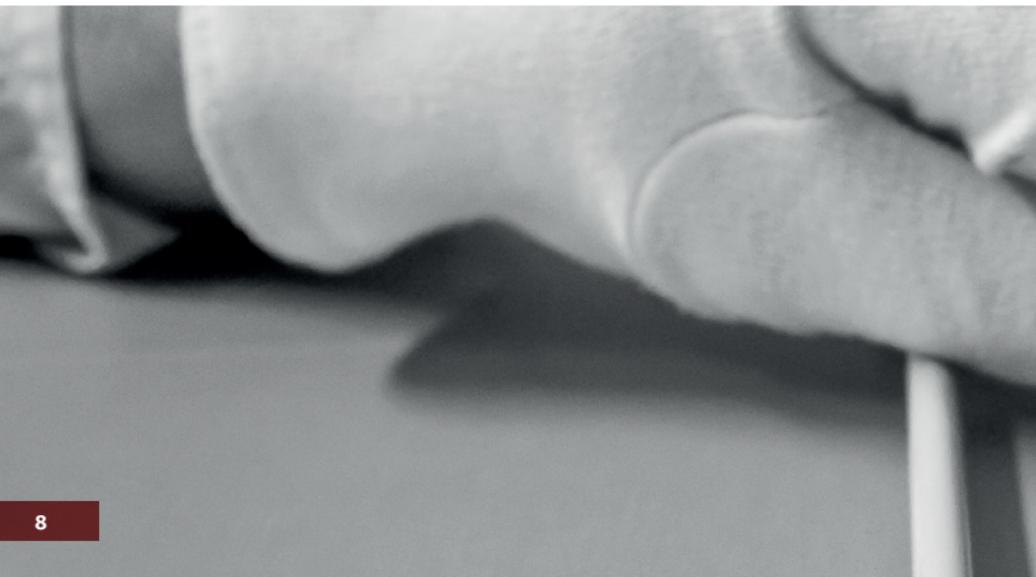
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Wood preservation · Microscopy/
Identification of fungi





CHEMICAL TESTING

- Formaldehyde testing
- Determination of volatile organic compounds (VVOC, VOC, SVOC)
- Determination of ingredients contained in products (heavy metals, plasticisers)
- Characterisation of bonding agents and adhesive analytics
- Analysis of wood preservatives



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Analytics



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VOC content determination · Heavy metals

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Bonding agent characterisation ·
Adhesive analytics



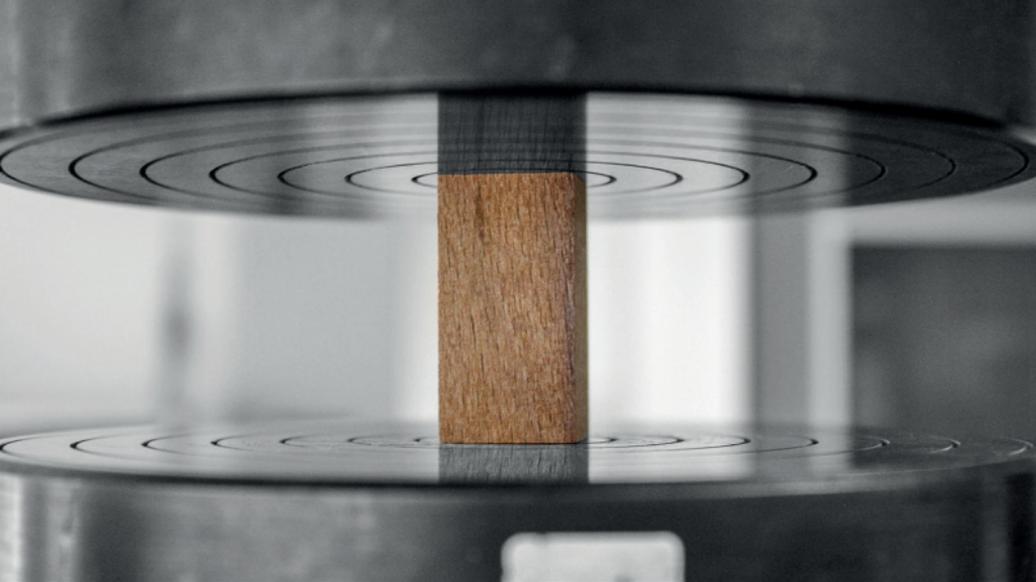
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Analysis of wood preservatives

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Emission testing



MATERIAL-/PRODUCT TESTING

- Mechanical physical, static and dynamic tests
- Usability testing of windows/doors/façades
- Physical tests (acoustic, thermal and moisture protection)
- Adhesive and bonding testing



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Material testing · Adhesives

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Windows · Burglary resistance



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Façade elements

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Thermal insulation



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Acoustic · Underlay materials

Dipl.-Ing. (FH)

Ute Bogatzki

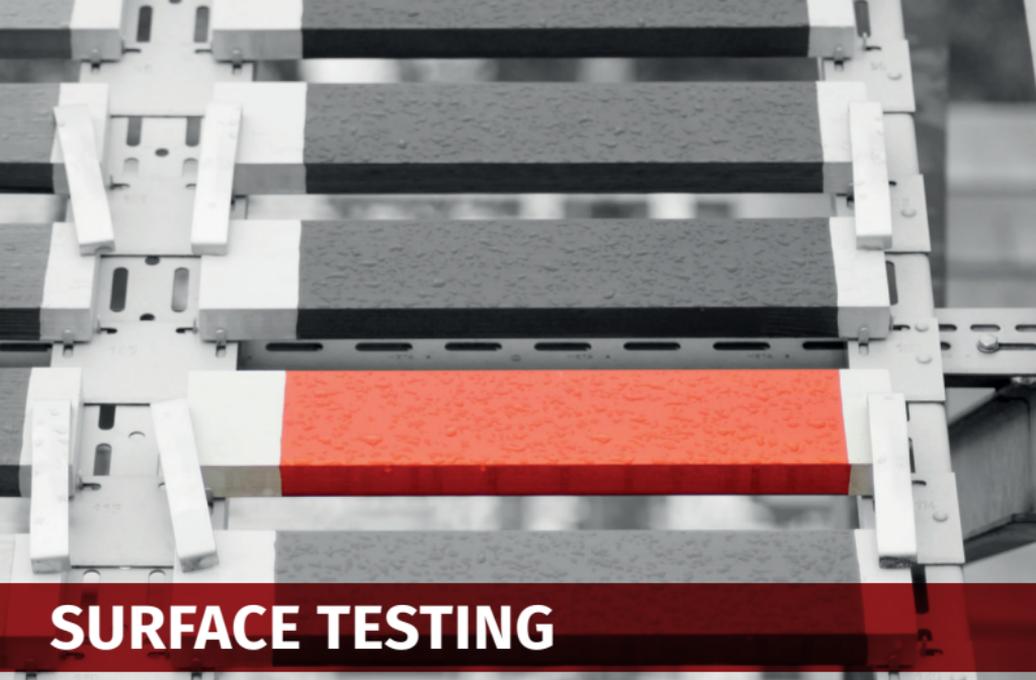


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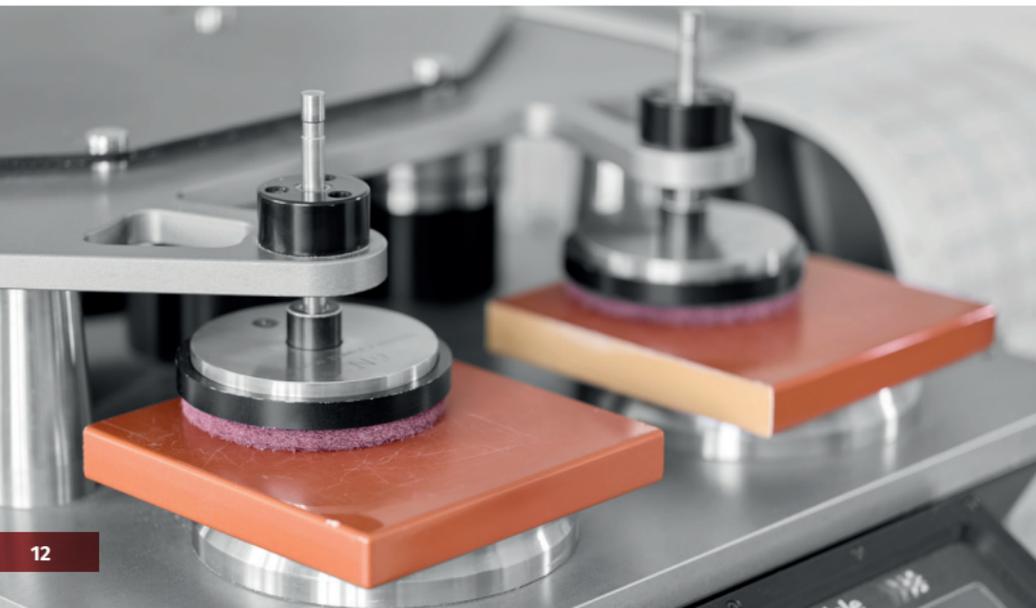
Thermal conductivity





SURFACE TESTING

- Surface durability
- Dimensional stability of floorings
- Surface properties of lacquers and wall paints
- Environmental simulation
- Electrostatic behaviour
- Reaction to fire



Contact persons



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Flooring · Fire testing



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Surface durability · Flooring



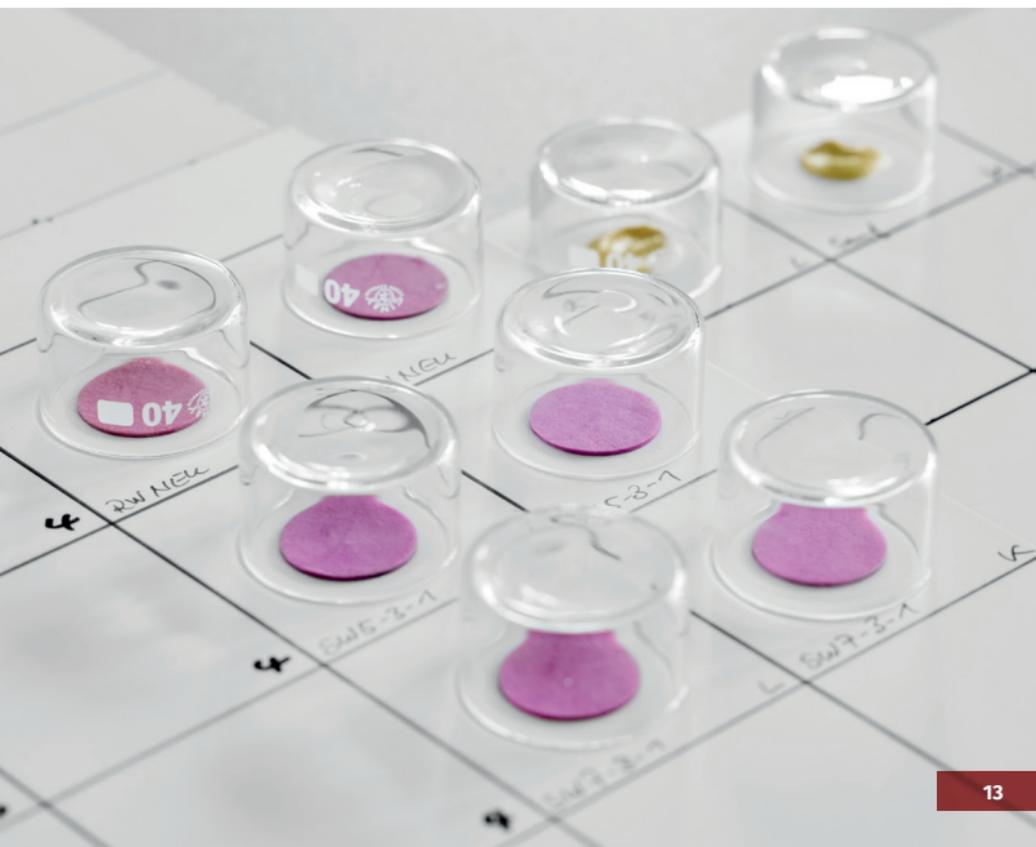
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Properties of lacquers and coatings ·
Environmental simulation



Robert Lippmann

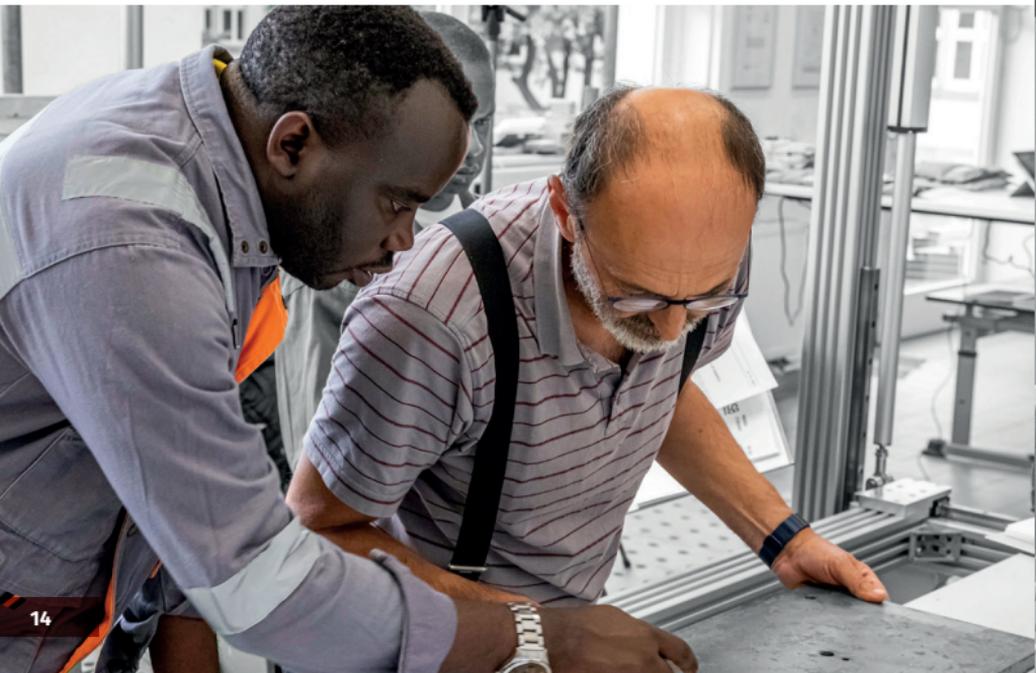
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Dimensional stability of flooring ·
Electrostatics





FURNITURE AND VEHICLE SEATS

- Mechanical tests of furniture and vehicle seats
- Durability and comfort of foam materials, upholstery, mattresses and seats
- Type testing
- Development-supporting GS



Contact persons



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Furniture testing





NIMM-EPH DETMOLD

- Furniture testing
- Conduction of GS type examination
- CARB/EPA/GS/CE audits



Contact person



The NIMM-EPH, based at the Felix-Fechenbach-Berufskolleg Detmold's Technical College for Wood Technology, has more than 20 years of experience as a furniture and materials testing laboratory. Thanks to the close cooperation with the EPH laboratories for surfaces, biological and chemical testing, as well as material and product testing, customers and partners have access to a wide range of tests and certifications, coordinated by NIMM-EPH.

The expertise of the testing laboratory, located in the heart of the furniture industry and surrounded by numerous well-known suppliers, is confirmed by its accreditation by the DAkkS according to DIN EN ISO/IEC 17025 and its designation by the ZLS as a GS testing laboratory.

In addition to its testing activities, NIMM-EPH Detmold is the starting point for production facility audits, whether as part of GS certification, CE surveillance or CARB/ IKEA surveillance with regard to formaldehyde emissions. In a compound with the training programme of the vocational college, engineering students can take a practical course in 'Furniture and Materials Testing' at NIMM-EPH.

B. Sc.

Konstantin Stofast

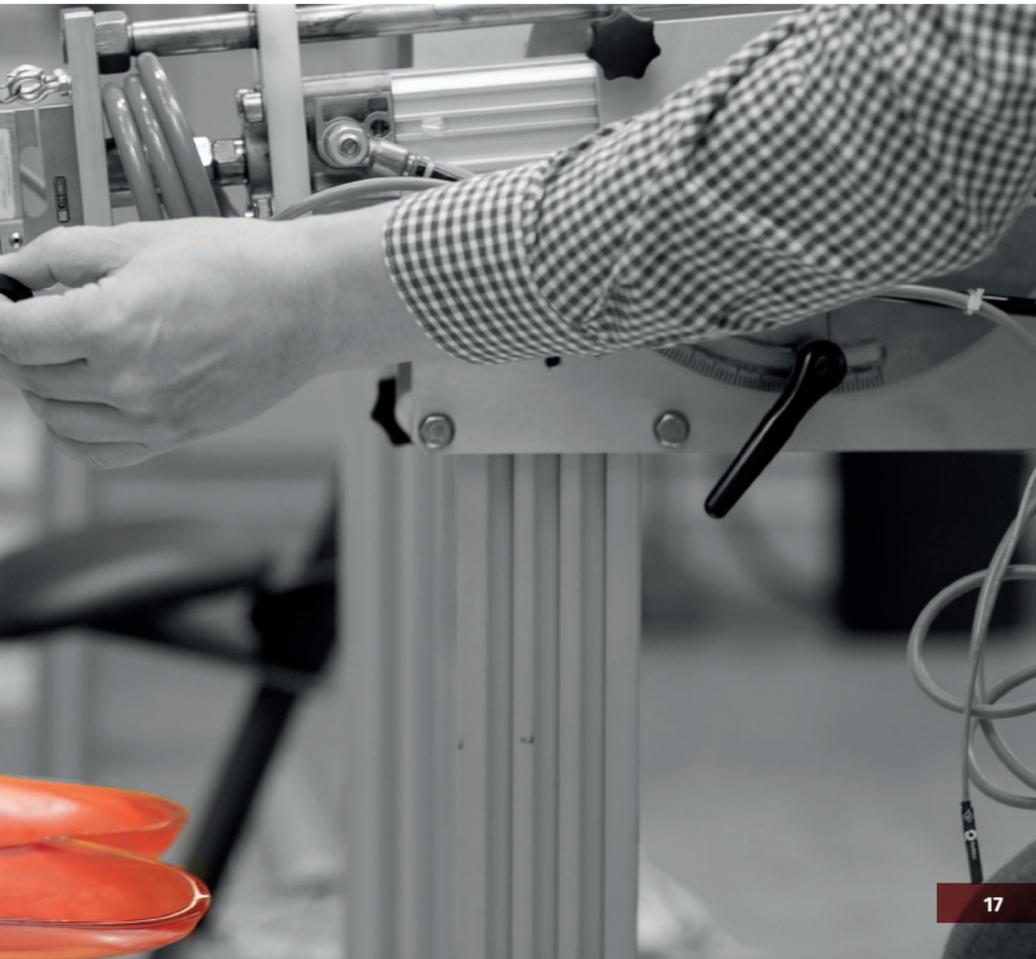
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Furniture testing





DEVELOPMENT, DISTRIBUTION AND SERVICING OF TESTING DEVICES

- Test chamber systems for the determination of formaldehyde and VOC emissions from wood composites, construction products and furniture
 - System PK-ES (stainless steel) 100 l/125 l/1.0 m³
 - System PK-GS (glass) 100 l/225 l
 - System GA-4M-nt (master)
 - System GA-ES 120 (stainless steel)
- Gas analyser for the determination of formaldehyde emissions



Contact person

The determination of formaldehyde and VOC emissions from wood composites, construction products and furniture has been one of the EPH's core competencies for many years.

As an accredited testing laboratory for emission tests, the EPH not only offers technical expertise but also technical equipment in the form of emission test chambers and gas analysis systems.

The chamber systems can be used for all established tests/requirements, e.g. REACH formaldehyde regulation, EN 16516 or EN ISO 12460-2.

The systems are characterised above all by their simple operability, stability of the parameters and equipment that can be adapted to customer requirements at an attractive price. They are used, among other things, in the wood-based materials, binder and furniture-making industries and in testing institutes.

We would be happy to validate your exposure/analysis system by means of corresponding comparative tests and to train your laboratory personnel.

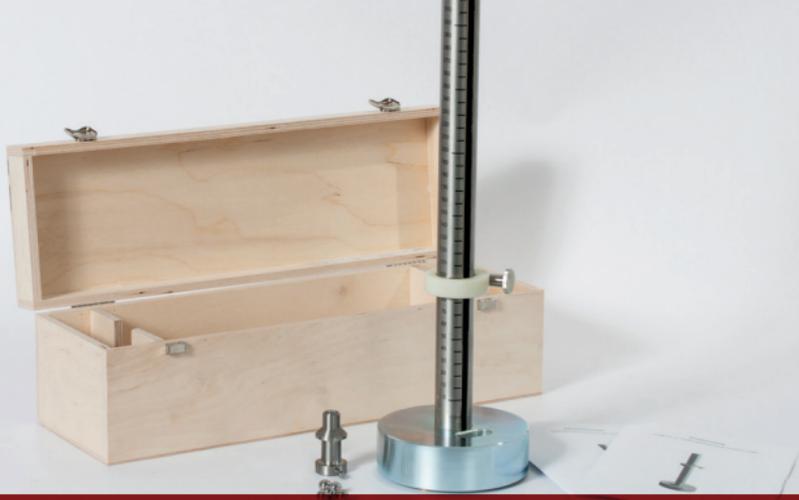
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SURFACE TESTING DEVICE FOR FLOORS

- Impact-strength test unit, small ball for testing laminate flooring according to EN 17368



Contact persons



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Impact testers

The test units offered are based on research into test methods conducted by the IHD or on the EPH's many years of practical testing experience.

The impact-strength test unit 'Kleine Kugel' (small ball) for testing the resistance to impact of laminate flooring in accordance with EN 17368 was developed in an IHD/



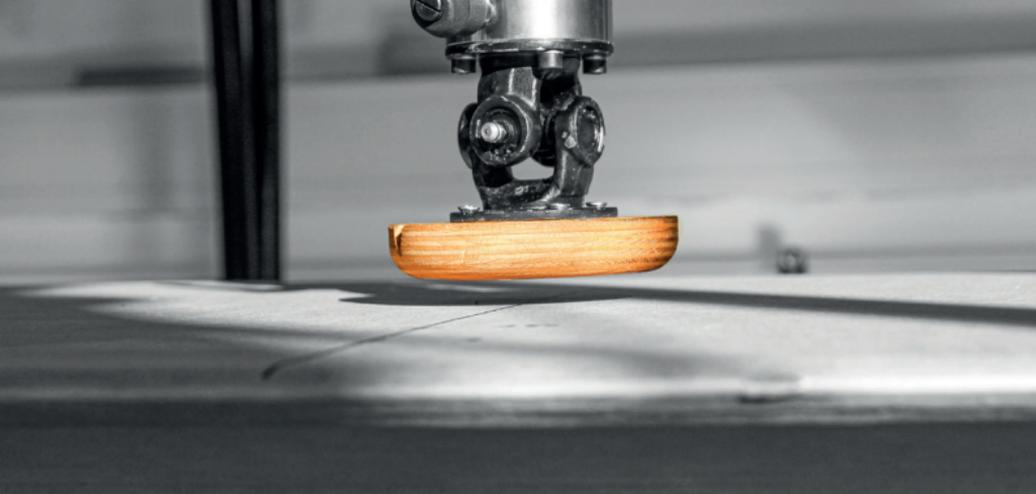
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Impact testers · Surface resistance

EPLF research project. It fulfils the requirements of the ISO 24335 standard.

The device for resistance to cold liquids according to IHD-W-477 was developed by the IHD in the EUROPARQUET research project for testing non-film-forming coatings on wooden floors.





CERTIFICATION OF PRODUCTS (GS)

- Type examination
- Initial inspection of the production site
- Certification and regular inspection of the production site



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Consumers consider fitness for the intended use, safety and the absence of health risks to be essential criteria for the quality of products, including furniture.

The Product Safety Act (ProdSG) also expresses the legislator's obligation that products may only be placed on the market if they do not endanger the safety and health of persons (when used as intended).

Beyond this legal obligation, the ProdSG offers manufacturers and dealers the opportunity to have the safety and health

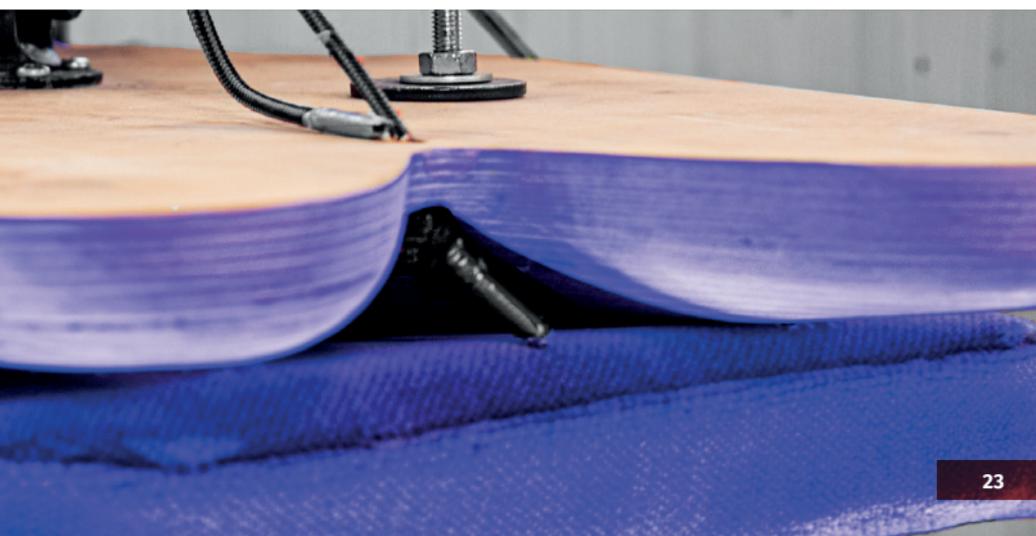
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harmlessness of their products certified, expressed by the GS mark ('Tested for Safety').

The EPH is an accredited and recognised body for testing and certifying furniture in accordance with the ProdSG and for awarding the GS mark.





CERTIFICATION OF CONSTRUCTION PRODUCTS

- **Floor coverings/Sport floors**
 - acc. to EN 14041
 - acc. to EN 14342
 - acc. to EN 14904
- **Wood/Wood-based materials**
 - acc. to EN 13986
 - acc. to EN 14374, EN 15497, EN 16351
 - acc. to EN 14080, EN 14081-1
- **Windows and Doors**
 - acc. to EN 14351-1
- **Panelling and Cladding**
 - acc. to EN 438-7
 - acc. to EN 14915
 - acc. to EN 15102
- **Thermal insulation products**
 - acc. to EN 13162 to EN 13171
 - Horizontal accreditation for selected fire tests
 - Horizontal accreditation for VOC emission test acc. to EN 16516

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Floor coverings · Panelling · Cladding

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HPL, Wood-based materials



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Windows · Doors



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Thermal insulation products

M. Sc.

Lukas Neef



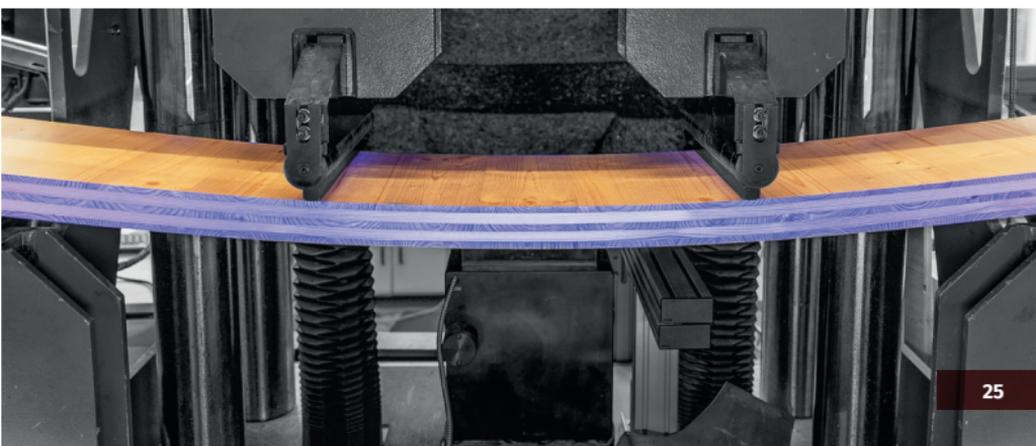
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Structural timber

Market access for construction products is regulated in the European Union by the Construction Products Regulation (CPR/ Bauproduktenverordnung (BauPVO)). Beyond that, special national regulations apply, in Germany, for example, the State Building Code (LBO).

The EPH is accredited and notified on a European level as an “independent third party certification body” acc. to DIN EN ISO/ IEC 17065 (Reg. No. 0766) for products and for the Factory Production Control (FPC) and, in addition to that, recognised by the Deutsches Institut für Bautechnik (DIBt) as a test, surveillance and certification body according to the LBO (Reg. No. SAC 03) for the German market.





SPECIFIC CERTIFICATIONS OF PRODUCTS

- Recognised as a Testing, Surveillance and Certification Body
 - CARB TPC (California Air Resources Board)/EPA TSCA Title VI
 - TÜV PROFiCERT-product Interior (testing and surveillance body)
 - WPC testing and surveillance (Quality Association for Wood-Based Materials)
 - DIN CERTCO-burglar resistance
 - RAL-Quality Assurance Association Furniture
 - FloorScore-surveillance body
 - Testing and surveillance body for the mark 'Furniture Made in Germany'
- EPH certification/testing programmes
 - Quality Mark TMT
 - E1 DE 2020 (formaldehyde emission)
 - Requirements profiles for wood flooring and staircase lacquering/Requirements profiles for exterior paints for wood

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CARB TPC (California Air Resources Board)/EPA TSCA Title VI · E1



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WPC testing and surveillance



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Quality Mark TMT

The certification body of the EPH is accredited according to DIN EN ISO/IEC 17065 and certifies product properties in line with its own certification programs that pick up on special requirements and desires of the industry and the general public for objective product assessments and implement them in objective and retraceable test and evaluation concepts.

Moreover, the EPH is a recognised testing, surveillance and certification body for



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TÜV PROFICERT

numerous national and international rating and quality associations, authorities and organisations.





CERTIFICATION OF MANAGEMENT SYSTEMS

- Quality Management System (QMS) DIN EN ISO 9001
 - Guarantee of quality of products and services by applying economic organisational structures
 - Improvement of competitiveness
 - Strengthening of clients` trust in stabil quality of products and services
- Environmental Management System (EMS) DIN EN ISO 14001
 - Improvement of environmental protection
 - Promotion of image
- Energy Management System
- Improvement of energy efficiency
- The Combination of QMS and EMS
- Combination with GS and FEMB Surveillance

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QMS and EMS

Dipl.-Ing.

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EnMS

The EPH Certification Body for Management Systems certifies quality, environmental and energy management systems (QMS, EMS and EnMS) acc. to DIN EN ISO 9001, DIN EN ISO 14001 and DIN EN ISO 50001. It works neutrally and confidentially and is

surveilled by an independent steering committee. It has been accredited since 1995 for QM systems, since 2015 for EM systems and since 2018 for EnM systems by Deutsche Akkreditierungsstelle (DAKKS). Therefore, its certificates are valid worldwide.





PRODUCT AREAS

- Train and vehicle seats
- Coatings, paints and varnishes
- Windows, doors, facades
- Floor coverings and underlay materials
- Wood
- Wood based materials
- Adhesives
- Furniture and interior design
- Terrace and balcony coverings
- Wall and ceiling panelling
- Thermal insulation materials
- Wood-polymer composites (WPC)

NOTES

August 2025



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