

Wood knowledge



Equipment

- Incident light microscope up to 400x
- Transmitted light microscopes up to 1000x
- Fluorescence light and phase contrast
- Special preparation and staining methods
- Xylotheque (wood species collection) with reference samples of over 2000 wood species
- Special library and identification software
- Drying chamber, thermal chamber

Target groups

- Wood processing (industry, crafts)
- Architects and planners
- Construction companies, carpenters, joiners
- Wood trade
- Restoration, monument preservation, archaeology
- Museums and collections
- Authorities, municipal administrations
- Courts, experts



Wood species identification

- Solid wood, veneers, materials, cardboard and paper
- Art and cultural assets, restoration objects, archaeological finds
- Verification of declared/agreed wood species, code according to EN 13556
- Verification of protection status (CITES)

Structure, properties and use of wood species

- Wood anatomical investigations
- Determination of wood properties
- Recommendations for use (including new wood species, lesser known species, modified woods)
- Determination of biological durability
- Provision of data (from technical literature)

Microscopic investigations

- Layer structure, layer thickness, e.g. for Decopaint guidelines
- Quality assessment of interfaces (surfaces, adhesive joints)
- Penetration depths and distribution of tempering agents
- Microscopic measurement of particles (chips, fibres, crystals)

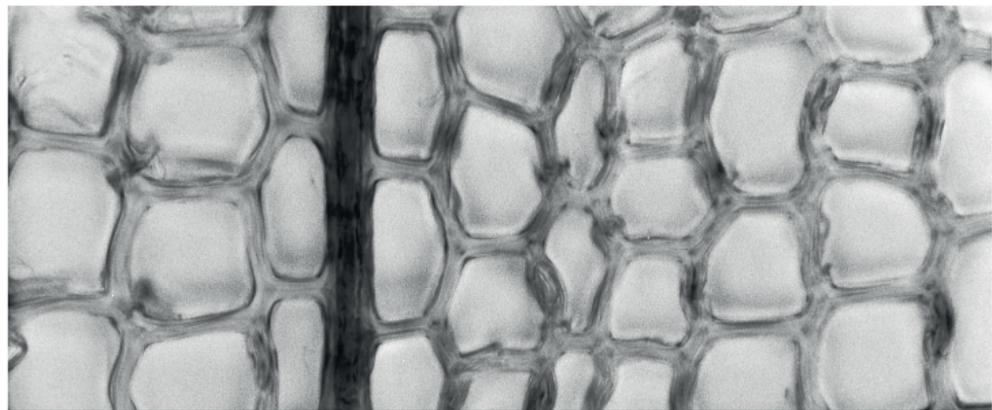
Damage claims, complaints

- Assessment and determination of causes (defects, discolouration, detachment, inclusions, foreign bodies, breakage points, scratches)
- Determination of fungi and insects
- Preparation of expert's opinions

Wood quality

- Examination and assessment of wood characteristics
- Visual sorting according to strength or appearance
- Determination of properties (e.g. wood moisture)
- Determination of drying quality

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