We have placed particular emphasis on the use of environmentally-friendly materials in the production of this brochure.

QUALITY ASSESSMENT
CONDUCT RESEARCH, TEST AND TEACH

The internationally networked and recognized department "Quality Assessment" is more than just testing, monitoring and certification! With a team of dedicated scientists from the fields of chemistry, the timber industry, forest sciences and forest ecology as well as civil engineering, we execute research projects on the complex themes of formaldehyde testing methods and gluing, bonding and adhesives for products with and from renewable raw materials. During the certified training opportunities at our WKI | AKADEMIE®, we make available the expertise which we obtain from the daily contact with manufacturers as well as from our own research results.

RESEARCH FOCUSES

Formaldehyde testing methods

The manufacture of wood-based materials has, until now, mainly been carried out with formaldehyde-containing binders. As a result, formaldehyde from wood-based materials and their products can be released into the indoor air. For years, it has been suspected that formaldehyde can cause cancer; on 1 April 2015, its classification as "probably carcinogenic in humans" became legally binding. As a partner of the wood-based materials industry, we not only test products regarding formaldehyde but also use our years of experience for the optimization and further development of the testing methods.

Gluing, bonding and adhesives

In close cooperation with adhesive manufacturers, wood-based materials producers and European research partners, we are constantly working on the further development and optimization of adhesive systems for the manufacture of wood-based materials and timber construction. Our current focus lies hereby in particular on the development of low-formaldehyde adhesive systems which use both renewable raw materials and isocyanate-based components. In the future, our research spectrum will be expanded to include, amongst other things, bonding under high frequency.

TMC TESTING, MONITORING AND CERTIFICATION

In our testing body, we carry out accredited tests regarding formaldehyde emissions and the surface and mechanical-technological properties of wood and wood-based materials or products made therefrom. Furthermore, we test adhesives and bondings in the field of load-bearing and non-load-bearing timber construction applications.

Within our function of accredited monitoring and certification body, our qualified auditors test and certify, on the basis of our recognitions and notifications, the conformity of your in-house production control with the normative requirements for the European, American and Japanese markets. In addition to this, our experts also work on various specialized standardization committees.

WKI | AKADEMIE®

With the WKI | AKADEMIE®, we offer a professional and job-concurrent training format through modularly-structured certification programs in the areas of "Bonding in wooden construction" and "Quality control in wood-based material production". In addition to further intensive courses, such as "Formaldehyde testing methods", we also answer your individual questions during requirement-oriented trainings.

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