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YOUR PARTNER FOR WOOD RESEARCH

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We have emphasised the use of environmentally-friendly materials in the production of this flyer.

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RESEARCH FOR PRACTICAL USE

The WKI focuses on sustainability through optimized and forward-looking use of renewable raw materials. Close interdisciplinary co-operation with partners in the chemical industry, the wood and furniture sector and the automotive and construction industries delivers market-driven solutions to guarantee competitiveness.

At the WKI, new construction materials, processes and measuring techniques are developed. Emphasis is placed on the testing and use of wood and fibre construction materials, as on internal air analysis and surface technology.

The development of natural-fibre composites, wood and emission protection, the development of recycling processes as well as the recovery of secondary raw materials and residual products are as much a part of our focus as organic construction materials and hybrid constructions for light construction.

In material analysis and quality assurance, the range of investigations goes far beyond wood and wooden construction materials. Along with construction products of every kind, products from the automotive, plastics and food industries are investigated, for example. Environmental protection is at the center of all activities across the different disciplines.

SUSTAINABLY SUCCESSFUL FOR OVER 70 YEARS

The Fraunhofer WKI in Braunschweig, Hanover and Wolfsburg is the research establishment in which the complex natures of sustainable raw materials are systematically studied and adapted in the most varied ways. Nearly all processes and construction materials produced by the research activities of the Institute go on to be employed industrially.

That is the basis of the WKI’s current leading position in research and development, which is strengthened by several chairs in national and international universities.

The Institute, which was founded by Dr. Wilhelm Klauditz in 1946, has been part of the research community of the Fraunhofer-Gesellschaft since 1972 and is a member of the Fraunhofer Group MATERIALS as well as the Fraunhofer Alliances for Building Innovation, Lightweight Design, Technical Textiles and Vision, the Fraunhofer Networks for Sustainability and Science, Art and Design, and the Research Alliance Cultural Heritage.

The WKI is active in almost 100 committees and networks worldwide.

SHAPE THE FUTURE WITH US

Center for Light and Environmentally-Friendly Structures
Development of new construction materials, technologies, sub and hybrid construction systems in surface construction with the Technische Universität Braunschweig.

Application Center for Wood Fiber Research
For the technical use of wood fibers and (organic) plastics, especially in the automotive industry at the University of Applied Sciences and Arts in Hanover.

Fraunhofer Project Center Wolfsburg
As part of the Open Hybrid LabFactory, the WKI conducts research in co-operation with the Fraunhofer Institutes IFAM and IWU on the textile production chain for resource-conserving and inexpensive light construction in the automotive industry.

TESTING – CERTIFYING – MONITORING

- The WKI is a recognized and accredited testing center for materials testing and quality management.
- Wood science and structural engineering surveys
- Surveying and advice in the event of damage