

Der Einsatz thermisch modifizierten Holzes im Musikinstrumentenbau

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Kurzfassung

The Institute for Research and Development of Musical Instruments Zwota, adjacent institute of Dresden University of Technology, and the chair for Wood and Fibrous Materials Technology of Dresden University of Technology worked on a research project promoted by the Federal Ministry of Economics and Labour for the application of thermally modified wood in musical instruments. The goal of this project was to analyse the changed physical, anatomical and chemical characteristics of modified woods and to compare them to characteristics being relevant for musical instruments. Conclusions on the possible use of these woods in musical instruments were drawn.

By a special treatment physical-technical characteristics of wood can be changed in such a way that they correspond to the requirements for use in musical instruments better than unmodified woods. Above all this is the reduced moisture sorption, better durability and larger dimensional stability as well as acoustic characteristics, which can be compared with an "artificial aging". The wood gets by the thermal modification an improvement of objectively measurable measurands, which permits conclusions on an improved sound characteristics. The potential use in musical instruments open a large new area for application of thermally modified wood.