

## **TIMBER FOR INTERIOR DECORATION AND FURNITURE**



H A R D W O O D



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## WOOD FOR THE INTERIOR

**The environment in which we live and work influences our mood, our sense of well-being and our performance. It is a basic human need to shape our surroundings.**

Wood creates a pleasant, natural ambience, with different species each offering their own unique characteristics for enhancing our living and working environments.

Flooring, wall panels and ceiling panels made from light colored hardwoods and softwoods project a feeling of spaciousness. Wooden staircases add aesthetic value. A variety of furniture and hardwoods provides contrast.

Hardwoods and softwoods can be combined in harmony, while retaining their own distinct character. These are top-quality materials for timeless furniture pieces and interior decorating.

Versatile, elegant and modern - wood is always an excellent choice.



Coffee shop with oak interior





# WOOD IN INTERIOR FINISHING - BEAUTIFUL AND FUNCTIONAL

Flooring, wall panels, ceiling panels, furniture and doors made from different species of wood create harmony. Individual patterns, workmanship and color provide a wealth of design opportunities in modern interior decorating.

## INTERIOR DECORATING

Interiors customized with hardwood reveal its diversity. Curio cabinets, counters, custom closets, hallways, or the classic home library - the use of hardwood in interior decorating is limitless. Hardwoods have long been the building material of choice in the private, commercial and public sectors.

## WALL AND CEILING PANELS

The surfaces of hardwood species in particular reveal their intricate beauty. Hardwood flooring, wall panels and ceiling panels lend an individual touch to any room and improve the atmospheric environment and acoustics. The woods used are available as solid profiled wood, panels or large veneered boards of wood-based materials.



Furniture made from red heartwood beech





Steamed beech stairs

## STAIRS

Wooden stairs are extremely durable. The quality of natural raw material is evident from the moment you step onto it. Wooden stairs are also a key feature in terms of style and space. Stairs of all shapes and sizes can be manufactured from hardwoods.

## FURNITURE PRODUCTION

Hardwood and cabinetry go hand in hand. Whether oak, beech, ash, cherry, walnut or maple, every piece of furniture is unique, durable and of special quality. Appealing, sturdy and resilient too. Hardwood furniture can withstand any force, both at work and at home.

## CREATIVE DESIGN WITH BEECH

**Highly versatile, beech lumber is a frequently requested material when it comes to interior decorating.**

Major areas of application include furniture and kitchen cabinet manufacturing, as well as the veneer, wood-based materials and panel industries. Beech is used as solid, sealing or molded laminated timber for the manufacturing of very heavy-duty furniture.

In the area of furnishings beech is an absolute trendsetter. Beech wood wall and ceiling

panels, flooring and interiors are light-colored, inviting and extremely popular.

Beech wood is aesthetically versatile, combining well with other wood species. The reddish brown heartwood occurring in some tree trunks has become an increasingly popular material in creative design projects.



Beech kitchen







Country house flooring in steamed beech



# BEECH - THE HEAVY-DUTY WOOD

**Beech wood is tough, durable and resistant to abrasion. It is shockproof and able to withstand pressure as well, all of which makes beech an ideal wood for furniture production and interior finishing.**

Its good physical properties and ability to withstand shock make beech the preferred wood for use in areas subject to wear and tear.

Typical areas of use are:

- Interior decorating
- Stair construction
- Hardwood flooring
- Furniture industry
- Kitchen cabinet manufacturing
- Veneer industry
- Plywood industry

Beech is the most commonly used wood in chair manufacturing. Applications range from the classic wooden chair to plywood molded parts for stadium or sports hall seating.

Beech wood is being used together with high-performance adhesives to produce new, high-quality laminated lumber building materials for timber construction projects.

## PROCESSING

Given that it is easy to process, beech is ideally suited for furniture manufacturing, interior decorating and the production of kitchen cabinets, stairs and parquet flooring. A variety of finishings such as oiling, staining, lacquering and coloring are applied with ease.

## DRYING

Specialized hardwood sawmills have the most up-to-date drying capacity and technological know-how. Open-air drying or

electronically controlled drying kilns bring the beech timber gently to the required level of moisture content. After being dried to the specified wood moisture and required coloration, all the dimensions are ready for further processing.

## STEAMING

Beech timber is available steamed and unsteamed. Steaming brings out the natural color of the wood to a warm reddish tone, of which the shades can be customized for individual preference. Similarly, bendable parts such as those in chairs are presteamed. Steaming also enhances the wood's workable properties.

## A SPECIALTY - RED HEARTWOOD

In many beech tree trunks the heartwood develops a reddish tinge, of which the formation of this "red heart" differs from tree to tree. This means every product made from red heartwood beech is unique. This diversity of shading is used specifically in furniture and parquet flooring.

## GRADING

Hardwood sawmills provide a wide range of beech wood products for export. Grading is done in accordance with industry-approved regulations, including international standards such as EOS and NHLA.

## **OAK - DISTINCTIVE AND TIMELESSLY ELEGANT**

**Furniture in solid or veneered oak is classic. Interior designers and architects have rediscovered oak for modern interior decorating.**

The furniture industry is the most prolific user of solid oak and veneers. However, owing to its durability and outstanding physical properties, oak is also used in the timber construction industry, for bridges and towers for instance.

Oak provides almost unlimited durability for every kind of earthwork and hydraulic construction. It is not only cities such as Venice and Amsterdam which are built on oak support columns, but also many historic buildings and cathedrals.

When it comes to office furniture or furnishing hotels and shops, oak lends a modern touch, proving to be resilient and easy to maintain. This is particularly the case when used for flooring, stairs, windows and doors for wall paneling and interior decorating.

Oak has a natural resistance to moisture, for example, in the bathroom or in the kitchen.



Oak parquet flooring, lye-treated and brushed





## **OAK - STRONG AND DURABLE**

Oak has been used for centuries as a strong and durable building material. Nowadays oak is used for construction purposes, in the furniture industry, as veneer logs and for formal interior finishing.

Oak can be used for a variety of purposes, resulting in the combination of excellent physical properties with an unmistakable look.

### **SURFACE TREATMENT**

Transparent lacquers or wax are the primary surface treatments used. Coloration can be varied by means of staining, smoking with ammonia or liming. Additional finishing techniques include planing, profiling and grooving.

### **DRYING**

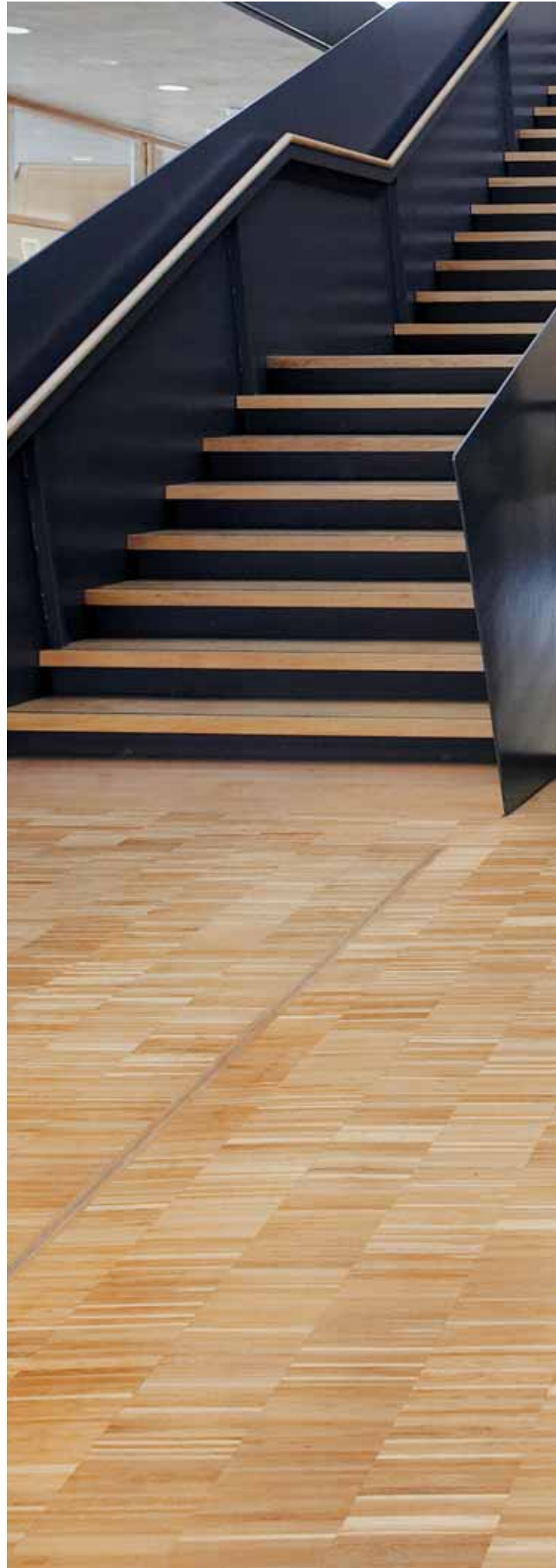
Preliminary electronically controlled kiln drying allows oak timber to reach the specified level of moisture content. Modern methods such as press drying are standard in the manufacturing of veneers.

### **GRADING**

Grading is done in accordance with industry-approved standards, including international standards such as EOS and NHLA.

### **LAMINATED OAK FOR CONSTRUCTION USE**

Laminated oak is a new development in wood construction. By utilizing high-performance adhesives, oak planks are processed into heavy-duty laminated construction materials.



Strip parquet flooring in oak













## FROM SUSTAINABLE FORESTS

**It makes good ecological sense to use wood for building, living and housing. It is an expression of a responsible, futuristic way of thinking. Arguments in favor of an increased use of wood include:**

- Sustainable forestry has been practiced in Germany for over 200 years. This ensures the long-term preservation of the quality and value of forest reserves.
- Continuity as well as a variety of species are ensured in sustainably managed forests.
- As producers of carbon, forests play a unique environmental role in the reduction of the greenhouse effect.
- Forests in Germany are FSC and PEFC-certified.
- Wood is a naturally renewable resource of which, thanks to sustainable management, there will be sufficient stocks in the future.

# BEECH

- **Properties:**

Medium-heavy to heavy wood.  
Great stability, hard, abrasion-proof, tough.  
Easy to work with in all respects.  
Outstanding flexibility when steamed.  
Easy to impregnate.

- **Surface treatment:**

Oiling, varnishing, staining, lacquering,  
coloring

- **Preferred applications:**

- Furniture and kitchen cabinets
- Chairs and seating
- Wall and ceiling panels
- Stairs, flooring, parquet
- Doors, doorframes, moldings, plywood

**New:** Laminated wood for construction purposes

- **Bulk density:** 0.68 g/cm<sup>3</sup>

- **Brinell hardness:** 72 N/mm<sup>2</sup>

Brinell hardness denotes the hardness of a wood species parallel to the fiber. The higher the value, the harder the wood.





# OAK

- **Properties:**

Medium-heavy to heavy wood.  
Great stability and elasticity.  
Hard, great resistance to wear and tear.  
Low shrinkage, good stability.  
Easy to work with in all respects.  
Excellent weather resistance.  
Excellent durability under water.

- **Surface treatment:**

Staining, smoking (to darken), liming (to lighten)

- **Preferred applications:**

- Furniture and kitchen cabinets
- Wall and ceiling panels
- Stairs, flooring, parquet
- Exterior doors and windows
- Building and structural timber

**New:** Laminated timber for construction purposes

- **Bulk density:** 0.65 g/cm<sup>3</sup>

- **Brinell hardness:** 66 N/mm<sup>2</sup>



# ASH

- **Properties:**

Medium-heavy wood, good stability, highly elastic. Very tough, hard, good resistance to abrasion. Only moderate shrinkage, good stability. Easy to work with in all respects; easy to bend.

- **Surface treatment:**

Staining, polishing, lacquering, oiling, waxing

- **Preferred applications:**

- Furniture
- Wall and ceiling panels
- Stairs, flooring, parquet
- Special wood for making sports equipment
- Handles for tools and gardening equipment

- **Bulk density:** 0.68 g/cm<sup>3</sup>

- **Brinell hardness:** 65 N/mm<sup>2</sup>





# MAPLE

- **Properties:**

Medium-heavy wood.  
Comparable properties to beech.  
Elastic, tough, hard, good resistance to abrasion.  
Moderate shrinkage, good stability.  
Easy to work with in all respects.

- **Surface treatment:**

Polishing, staining, coloring, lacquering

- **Preferred applications:**

- Solid table and work surfaces
- Furniture
- Wall and ceiling panels
- Stairs, flooring, parquet

- **Bulk density:** 0.59 g/cm<sup>3</sup>

- **Brinell hardness:** 62 N/mm<sup>2</sup>



# CHERRY

- **Properties:**

Medium-heavy wood, good stability,  
highly elastic.  
Moderate shrinkage.  
Easy to work with in all respects.  
Outstanding flexibility when steamed.

- **Surface treatment:**

Polishing, staining, coloring

- **Preferred applications:**

- Exclusively a designer wood
- Furniture
- Wall and ceiling panels
- Stairs, doors
- Musical instruments

- **Bulk density:** 0.49 g/cm<sup>3</sup>

- **Brinell hardness:** 51 N/mm<sup>2</sup>





# ALDER

- **Properties:**  
Medium-heavy and soft wood.  
Moderate shrinkage with good stability.  
Easy to work with in all respects.  
Highly durable under water, only slightly lower than oak.
- **Surface treatment:**  
Staining, polishing, lacquering, oiling, waxing
- **Preferred applications:**
  - Casings for clocks
  - Model construction, draft designs for prototypes in the automotive industry
  - Furniture
- **Bulk density:** 0.50 g/cm<sup>3</sup>
- **Brinell hardness:** 33 N/mm<sup>2</sup>



## DESIGNING LIVING SPACES WITH WOOD

Wood meets modern-day demands for materials that are fit for purpose, authentic and natural. Like no other material, wood meets design requirements for both contemporary lifestyles and work environments. Utilized as a construction material or as wall paneling, floor covering and ceiling paneling, it brings comfort, quality of life and an individual sense of well-being.

Even when used more frequently, wood loses nothing of its aesthetic quality and value. This is why architects, designers and interior architects hold wood in high regard as a universal material in building, finishing and furniture production.

The hardwood species presented in this brochure can be used as a foundation on which to build modern, high-class, yet functional living spaces.

With hardwood, architects, planners and designers are opening up new dimensions in style for living and working spaces.

Hardwood's special properties make it the material of the future.



Prof. Achim Hack  
Interior architecture, furniture  
and interior finishing, design and  
construction









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