



For you to create



Fundermax

Biofiber can do it without

Healthy living
starts with our
wood fiber panels.



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Fundermax

From furniture and facades to interior design, Fundermax works at the interface of ideas and materials. Today the company – which has a proud history spanning 130 years – stands as a global market leader in compact panels and producer of high quality materials using wood and laminates. Our sustained success has been based on prime quality, imaginative design, diversity and sustainable production. Our products are Made in Austria and exude a love of the natural resources of wood, creativity and inventiveness.

- modern production facilities in Austria and Norway
- approx. 1,400 employees
- part of Constantia Industries AG
- The Austrian Excellence Award (2018)

Biofiber can do it without.

Fundermax has developed a fiberpanel that can be produced without artificial resins. The energy required for production comes 100% from renewable sources. The result is a natural material that stands for healthy living and working. Even disposal is completely harmless – Biofiber panels can simply be composted!

Biofiber – a fiberpanel in harmony with nature.



A panel inspired by yesterday, made for tomorrow.

Pure wood, nothing else? Yes, that's possible.

Over the last 200 years, industrial innovations have developed at a rapid pace and contributed significantly to social progress. Today, we can take a critical look at the past to see which clever methods from back then are worth rethinking in a modern context. Many smart methods from the past using renewable materials have been replaced by simpler, cheaper or faster processes using fossil raw materials.

Fundermax takes an old method using renewable raw materials and reinterprets it with today's knowledge. The result is a revolutionary, robust fiberpanel made from wood and natural wood resins: the Biofiber panel.





Product information

Format

5640 x 2150 mm (any cut possible)

Thickness

1.6 to 8.0 mm (up to 12.0 mm on request)

Classification

EN 622-2

Technical properties

- excellent paintability (due to the high density and the very smooth surface)
- perfect flatness
- very good punching and milling properties
- high mechanical strength and water resistance
- subsequently 3D mouldable and more elastic (due to the natural resins)

Notes

Cut to size and various types of sanding are available on request. The disposal of Biofiber panels is unproblematic. The country-specific laws and regulations regarding disposal must always be observed.

Our Biofiber panels are available in various qualities to meet the specific requirements of different application areas (e.g. doors, automotive industry, house construction). For detailed information and assistance in selecting the right quality for your project, please contact our support team.

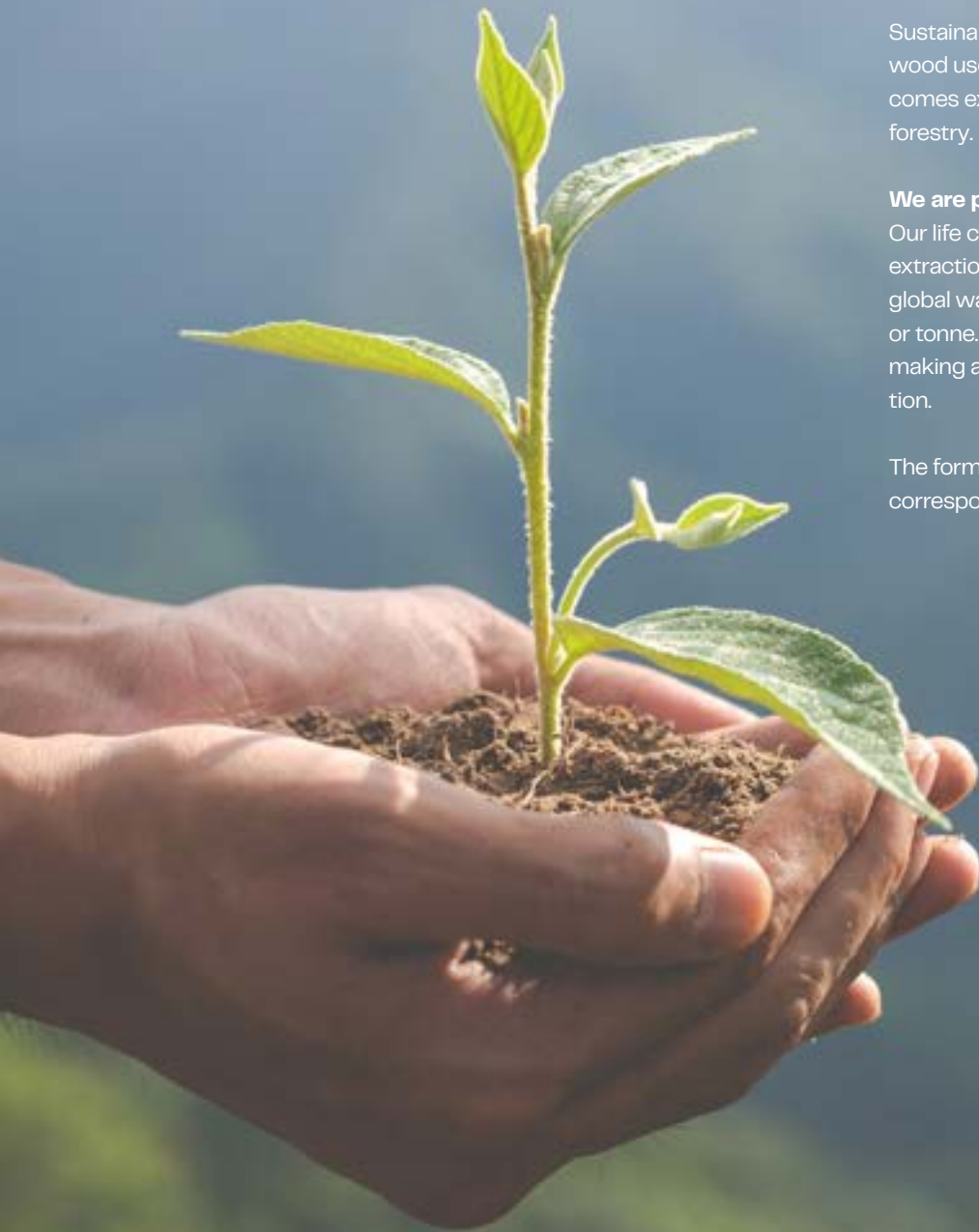
We live Sustainability

Sustainability is a top priority at Fundermax. The wood used to manufacture the Biofiber panels comes exclusively from regional, sustainable forestry.

We are proud of this.

Our life cycle assessment, from raw material extraction to transport and production, shows a global warming potential of -1612.5 kg CO_2 per m^3 or tonne. By not using fossil-based resins, we are making a significant contribution to decarbonisation.

The formaldehyde content of the Biofiber corresponds to the natural content of wood.



Biofiber – healthy living begins with our wood fiber panels

It can be done without: unlike conventional wood-based materials, which rely on fossil-based glues, our Biofiber panels use the natural binding forces of wood. This not only creates a more environmentally friendly product, but also gives our Biofiber panels their unique quality.

The benefits are tangible: the Biofiber panels create an exceptional quality of living space and promote a healthy, comfortable living atmosphere. This makes the natural hard fiberpanels an outstanding choice for sustainable building and living without exposure to unnatural emissions.



Activate natural resins. **The Fundermax Biofiber and the wet process.**

Panels from conventional manufacturing processes require around 10 to 15 percent synthetic resin from fossil raw materials as an additional adhesive. With the Biofiber panel, Fundermax has succeeded in activating the wood's own resins as a binding agent.

An important part of this process – known as the wet process – is hydrogen bonding. It unfolds the effect of the resin that adheres to the wood fibers when the fibers are properly stored in water. Biofiber technology is not only environmentally friendly, it also provides the best physical properties in the field of thin wood-based materials. At the customer's request, we can add up to a maximum of 1.4% synthetic resins, which means we can achieve an almost infinite range of applications with just a tenth of what is added to conventional wood-based materials.

Application and areas of use

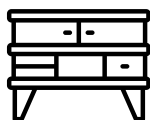
For you to create.

The outstanding product properties of our Biofiber lead to a wide range of possible applications:



Sustainable building

- Wall panelling in timber frame construction (Funderplan)
- Support panel for underfloor heating
- Outer & inner shell for roller shutter boxes



Furniture & furnishings

- Cover layer for doors
- Interior construction of sofa furniture
- Furniture back panels
- Drawers



Automobile

- Interior panelling for cars



Packaging

- Fruit boxes
- Other packaging alternatives



Other:

- Biological tree protection
- Shoe heels



Biofibre

Fundermax



"We have been using Biofiber panels from Fundermax for our aluminium composite panels for over 20 years. Sustainability, sophisticated technology, reliability and a high level of innovation convinces us time and time again. A very good and cooperative partnership is our guarantee for product and process reliability.

Fundermax Biofiber will continue to play a very important role in tackling the issues ahead of us, such as sustainability and CO₂ neutrality."



Building with wood

Funderplan – 100 % natural product to feel good

The topic of sustainable construction with biogenic building materials is becoming increasingly important. Sustainability and the complex interplay of design and ecological resource utilization in the planning of living spaces call for healthy materials. Funderplan is our 8 mm Biofiber panel, specifically developed to promote a healthy living environment and ensure an optimal indoor climate.

Our high-density wood fiberpanel Funderplan is produced in a special manufacturing process from fresh fiberwood from certified sustainable forestry using renewable energy generated without artificial adhesives. In contrast to conventional wood-based materials, which are produced with fossil-based glues, we activate the natural resins contained in the wood fibers and thus create an unadulterated natural product.

This is what makes our Funderplan so unique and an ecological, building-biological and healthy alternative in timber construction.



Versatile in use

- As roof and ceiling elements
- For exterior and partition walls
- As optical panelling
- As a wall structure for natural clay plaster

Ideal for

- Ecological house building
- Prefabricated house, passive house
- Kindergartens, schools, retirement homes
- Special applications for industry



More information about our
wood fiberpanel Funderplan

Furniture

Our Biofiber panel is valued in the furniture industry not only for its outstanding flexibility, which enables sophisticated design solutions, but also for its sustainable finish options. Covered with natural materials such as linoleum or coloured with environmentally friendly natural dyes, stylish and creative pieces of furniture can be created that are both visually and ecologically appealing.



Automobile

Our Biofiber panel is used for the interior panelling of vans and passenger cars. The automotive industry favours the panel due to its naturalness. The panel also offers outstanding flatness and can be perfectly finished, whether by punching, painting, milling or cutting.



Tree protection

We believe that plastic has no place in the forest! That's why we developed a natural tree protection made of Biofiber – the biodegradable alternative.

Tree protection covers prevent young, freshly planted trees from being damaged from wild animals. Our tree protection are intended to replace plastic protection in the future. The aim is not only to use a more sustainable material, but also to impress in terms of appearance, usability, stability and price.

Our partner company Witasek is Austria's leading company in natural, mechanical and biological tree and vine protection. Together with them, we produce biodegradable tree protection made of Biofiber material. This ecological tree protection should decompose after a few years, when the tree is big enough. The basic material for this is our 2 mm thick Biofiber panels. The decomposed Biofiber parts also serve as fertilizer for the forest area after their lifetime. The project promotes a unique circular economy in harmony with nature.



More information on tree protection
on the website of the Witasek company



A unique circular economy in harmony with nature

The mature tree is harvested and serves as the raw material for Biofiber production. The Biofiber panel is made from water and wood fibers. This protects the freshly planted tree. The young tree grows up well protected, while the rotting fiber parts remain in the forest as valuable biomass.





For you to create

We are proud of the creativity of our customers.

True to the motto "For you to create", there are no limits to the use and processing of our Biofiber panels

Are you also planning a creative project? We will be happy to support you.

Fundermax Support Team

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support@fundermax.biz

Mon - Thu: 08:00 to 16:30

Fri: 08:00 to 13:00



Certification

PEFC

PEFC is an international forest certification system that promotes the protection of forests globally and locally. The PEFC label ensures sustainable forest management so that forests are preserved for future generations.



CE

The CE marking guarantees that the construction product complies with the properties specified in the declaration of performance and fulfils all requirements of the Construction Products Regulation and other EU harmonisation regulations. If it is used outside the standardised area of application, national regulations must also be observed.



FSC®

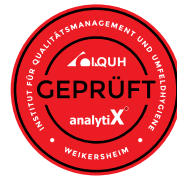
The Forest Stewardship Council (FSC®) is an international non-profit organisation and a leader in the certification of sustainable forestry. Numerous NGOs, companies and consumers around the world trust the FSC® label to protect healthy and resilient forests in the long term.



Das Zeichen für verantwortungsvolle
Waldwirtschaft

IQUH certificate

The Institute for Quality Management and Environmental Hygiene (IQUH) tests building products for their ingredients and their influence on indoor climate, air quality and healthy living. Funderplan has been comprehensively tested and shows a pleasing result: it is terpene-free and, with a low factor of 2.22, has a high level of environmental and health compatibility. A lower factor means more positive effects on indoor air and climate.



natureplus label of quality

The European association natureplus e.V. promotes sustainable building products with a focus on resource conservation, climate protection and healthy living. As we spend around 90% of our time indoors, building products have a major impact on our health. Natureplus e.V. guarantees high quality standards through regular testing and on-site assessments and offers safety for a healthy building. We are proud that our Biofibre panels have been awarded the 0208-1304-120-1 label of approval.



Sentinel Holding Institute

The Sentinel Holding Institute (SHI) promotes sustainable, pollutant-tested construction. The SHI database serves as a central platform for construction partners such as manufacturers, architects and tradespeople.

The SHI product passport facilitates material research and documentation for building certifications such as DGNB, QNG and BREEAM. Products with the QNG-ready label are ideal for projects aiming for the Quality Seal for Sustainable Buildings (QNG) and benefit from a higher KfW subsidy for climate-friendly new buildings.



Tilmann Kramolian

Managing Director
at natureplus

"The Funderplan panel has been an integral part of our portfolio for almost 10 years. It is the first and so far only hard wood fiber panel that meets the strict requirements of our award guidelines.

We see resource conservation, climate protection and healthy living as assured qualities of this product."



Ralf Kärger

Managing Director
Sentinel Holding Institute

"The Funderplan Biofibre panel is the right product for healthier and sustainable buildings. Tested for harmful substances according to strict criteria and optimised for indoor climate.

As we spend over 90 percent of our time indoors, the issue of indoor air quality is particularly important. Good air quality has a direct impact on our well-being and health. Emissions from building products can significantly impair this. With the SHI product passport, Fundermax simplifies material research and verification for building certifications such as DGNB, QNG, BNB and the EU taxonomy.

The SHI database offers the highest data quality for approx. 3,000 emission-tested products and their sustainability properties with maximum up-to-dateness. It is the only externally monitored and audited building product database that is regularly checked by SGS-TÜV Saar."

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