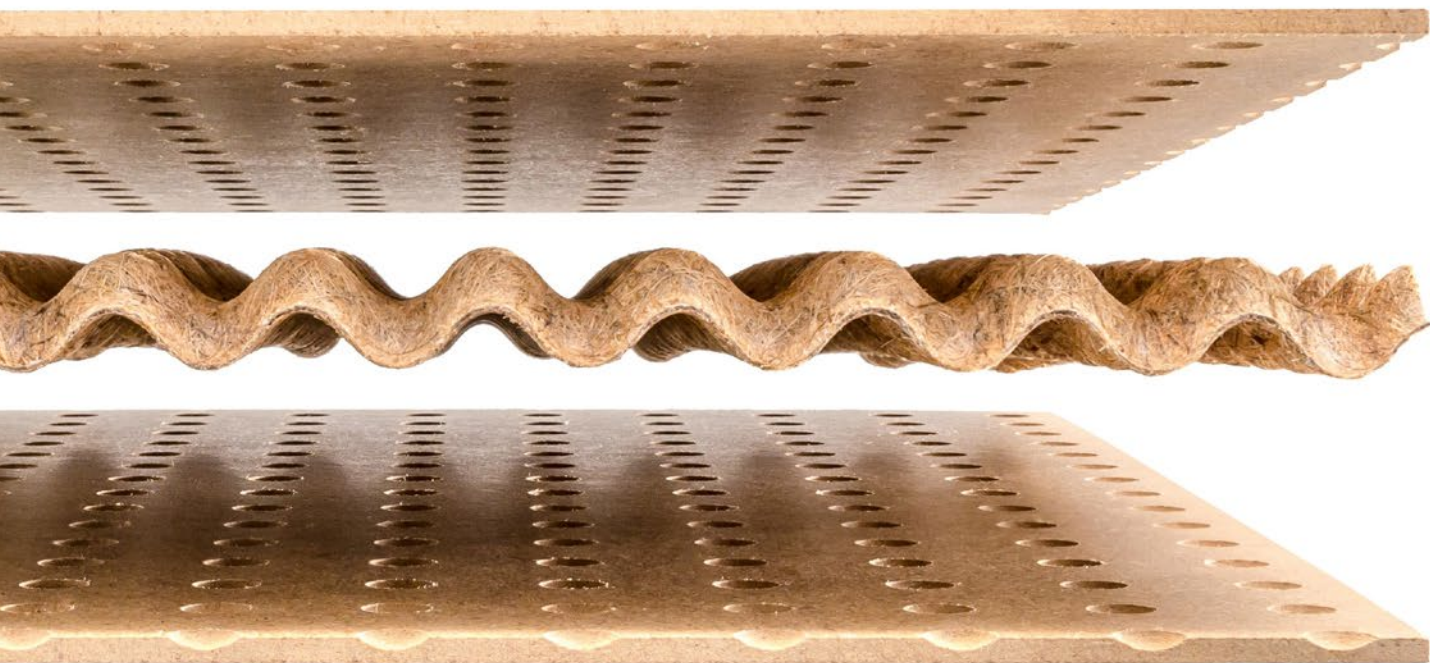


lisocore[®]



PYRUS PANELS

What is lisocore®

The highly developed composite material for unique applications

lisocore® is a material-efficient high-performance material. The modern material achieves its outstanding properties through its unique structure. This consists of at least two thin cover layers, which are connected by a three-dimensionally shaped core structure. By selective milling of the cover layers, depressions are created in which the core structure

is positively received. A high-strength adhesive bond ensures the material connection.

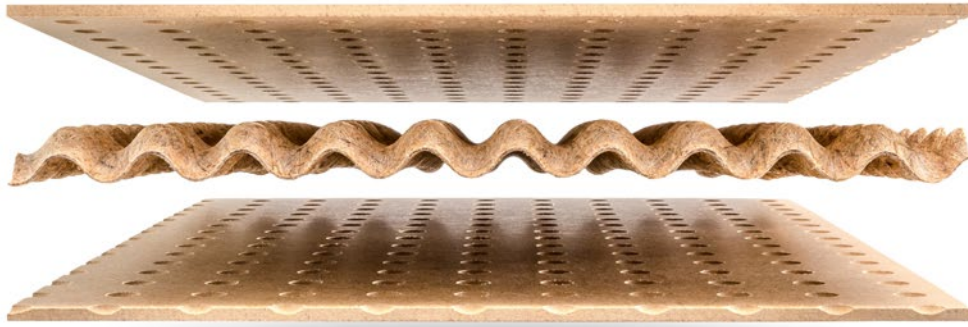
lisocore® is thus form-fit and materially bonded. This distinguishes lisocore® from all other existing lightweight materials.



Scalable diversity

The **patented basic design** is particularly adaptable





Form-fit and material-fit bond:

Upper surface layer with milled recesses

High strength bonding



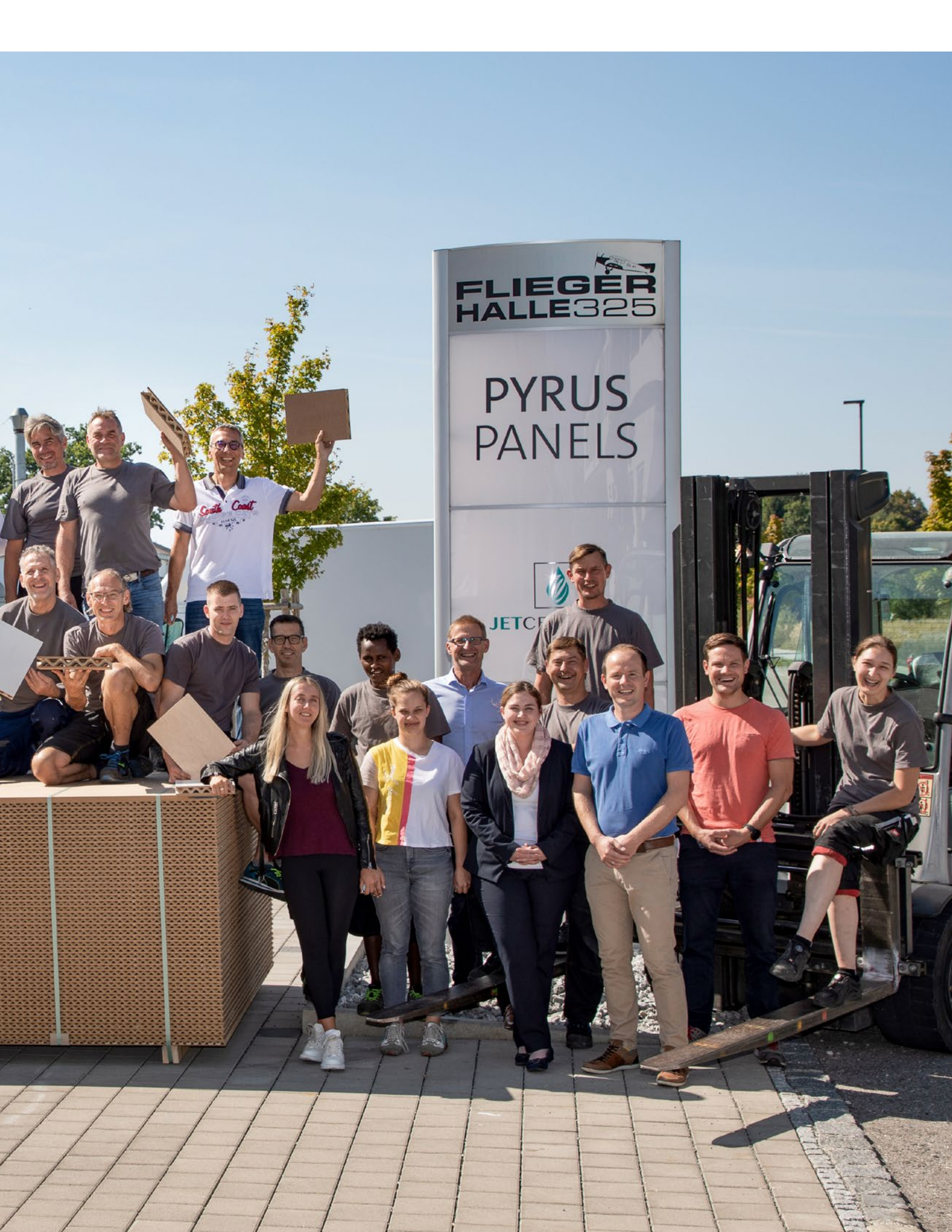
Core structure (double curved shell structure)

Lower top layer with milled recesses

100 % STABILITY WITH **50 %**
LESS MATERIAL USED

We are PYRUS PANELS





PYRUS PANELS

We live our values

Pyrus Panels develops and produces the high-performance material lisocore®.

The medium-sized company currently employs 40 people. The company headquarters and the production site are located in Bad Aibling. From here we supply customers from all industries far beyond the European borders.

It gives us great pleasure to manufacture such a sustainable product and thereby make a major contribution to the environmental protection and the conservation of resources.





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Lisboa

An aerial photograph of a dense, lush green forest, likely a coniferous forest, with the word "core" overlaid in large, white, sans-serif font. The text is centered horizontally and spans across the middle of the image. A registered trademark symbol (®) is positioned to the upper right of the word.

core®

Sustainability in production

lisocore® is mainly produced
from renewable raw materials

Already during production a good two-thirds
of the raw material used can be saved
(compared to conventional wood-based panels)!



lisocore

The surface layers used
come from **sustainably
managed forests**



PYRUS PANELS



The lisocore® adhesive is **100 % formaldehyde-free**. The adhesive dots are applied precisely and only at specific points. **We save up to 80 % material** compared to conventional sandwich panels!

Due to the homogeneous product structure, **all residual materials can be recycled**



Green Product Award
2020



lisocore®

Wood fibre or plant fibre fleece made from **rapidly renewable annual plants** (e.g. hemp, flax, kenaf)



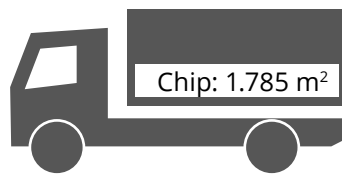
Sustainability and material efficiency

The advantages of lisocore® in figures

Logistics advantages



Most sold chipboard:
19.0 mm



Problem
Max. loading volume: 24 tonnes!



lisocore® 19.0 mm

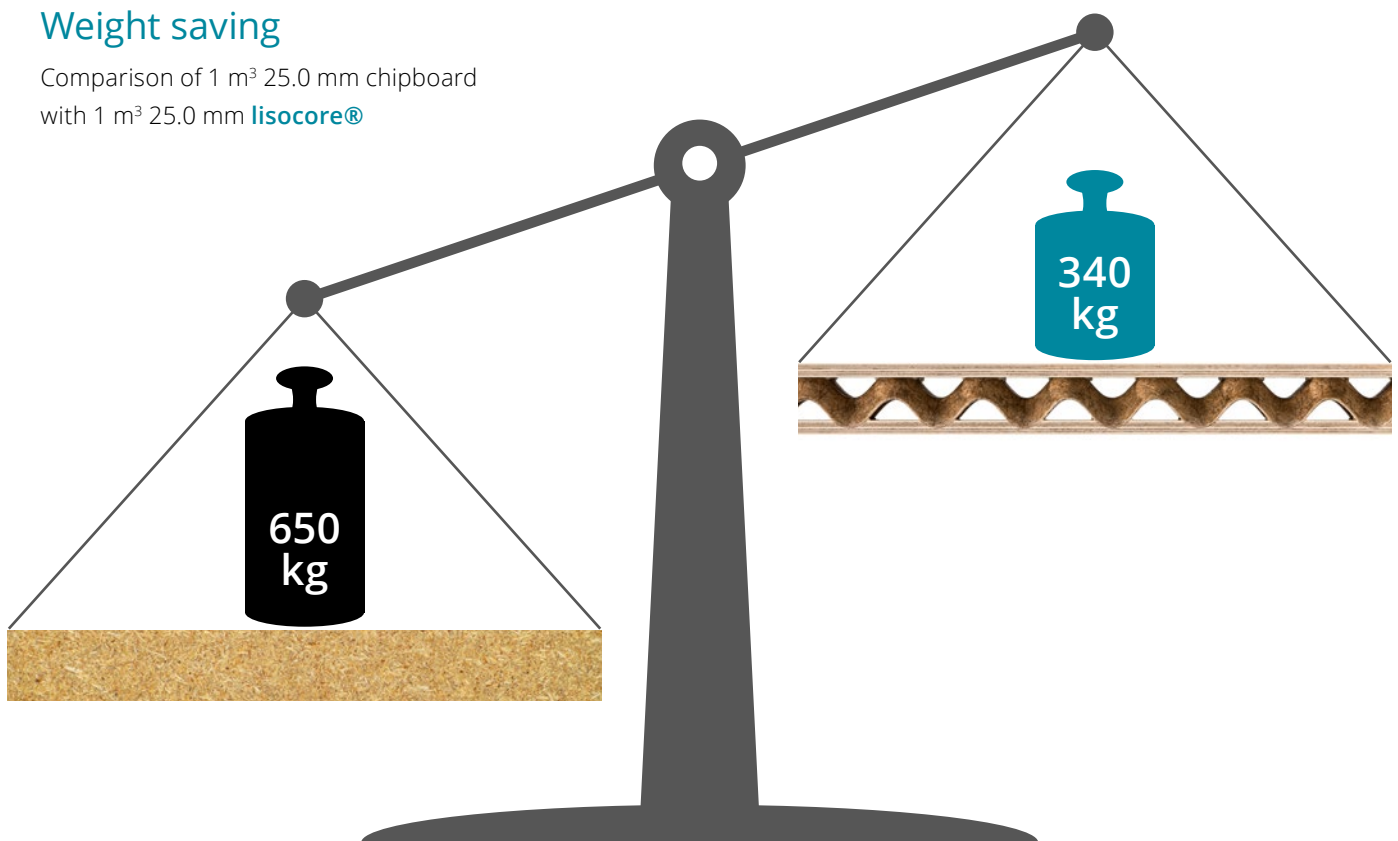


Total weight:
17 tonnes!

Despite approx. 700 m² more loading volume, the loading weight with **lisocore®** is reduced by approx. 7 tonnes!

Weight saving

Comparison of 1 m³ 25.0 mm chipboard
with 1 m³ 25.0 mm **lisocore®**

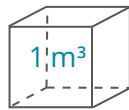


Material efficiency

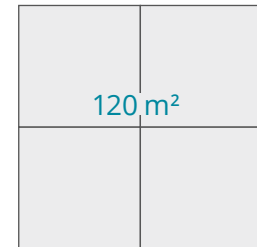
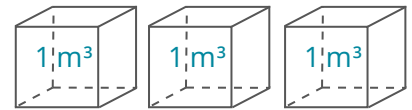


Comparison 25.0 mm chipboard ...

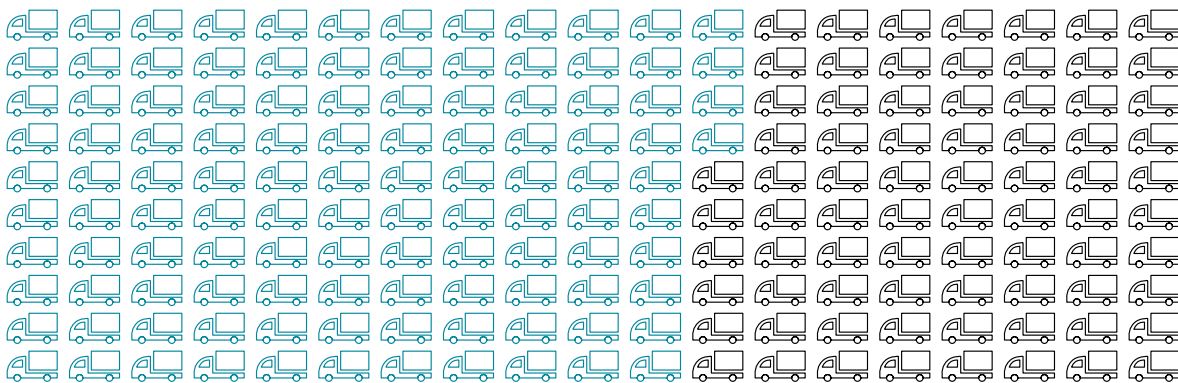
... with 25.0 mm **lisocore®**



OR



Reduced delivery volume



30% FEWER TRUCKS PER YEAR
= APPROX. 100 FEWER TRUCKS PER DAY

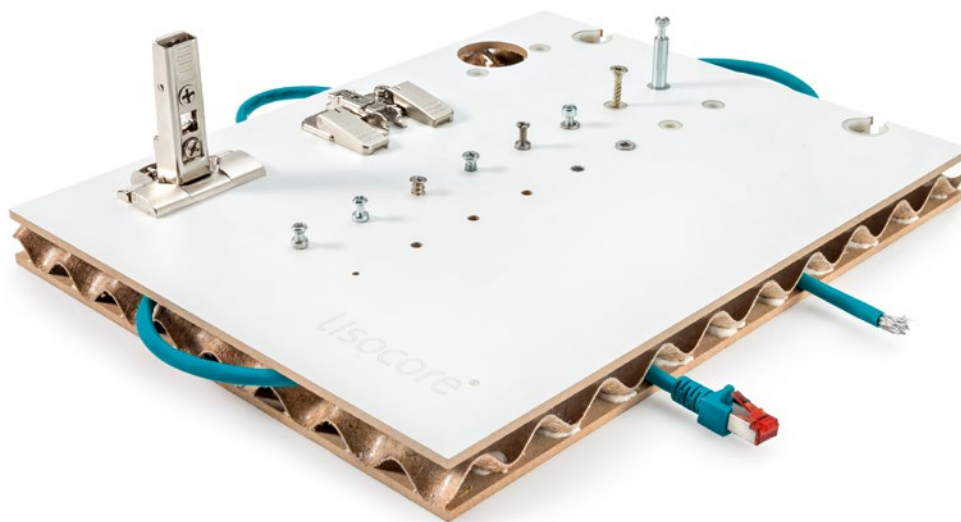
Approx. 4 million m³ of chipboard was transported in Germany in 2021, which corresponds to chipboard of 19.0 mm approx. 118,000 trucks per year compared to approx. 84,000 trucks per year with **lisocore®** 19.0mm.

lisocore® in practical use

Application aspects that speak for themselves

lisocore® is already being successfully worked and processed in various industries as the lightweight material of choice.

- Very simple machining and processing with conventional tools and machines
- Free-form processing
- Narrow surface coating without supporting edge or bar
- Subsequent surface coating possible
- Fitting fastening by clamps and screws
- Fast and secure screw fastenings (direct or with cold-melt dowel or blind rivet technology)



There are **established solutions on the market** for every connection and fitting requirement!

WIR SETZEN MAßSTÄBE IM LEICHTBAU

Wir bieten:

- // Individuelle Lösungen für Leichtbau-Möbel und Möbelklappen
- // Beschichtung der Lisocore-Platten mit diversen Dekoren
- // Spezielle Kundenwünsche realisierbar

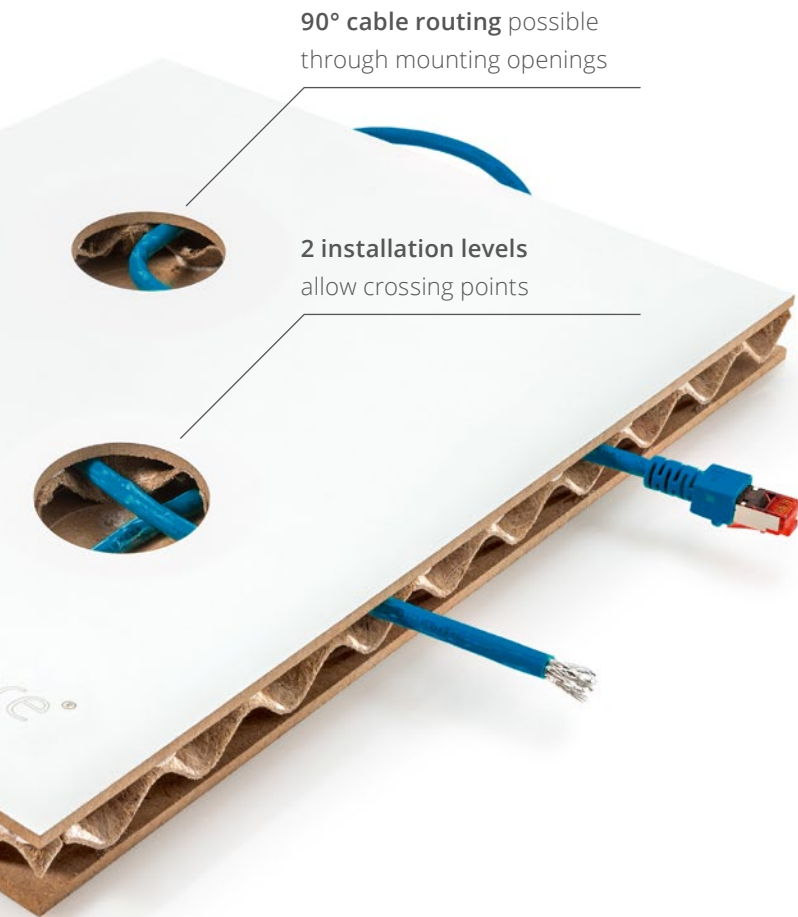
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EXKLUSIVES DESIGN



Imagination is the thinking of possibilities

Due to the unique flexibility and variety in construction, the enormous design freedom and the good mechanical properties, lisocore® conceals unimagined application possibilities for, among others:

- Trade fair and store construction
- Caravans and motorhomes construction
- Office and property fit-out
- Ship and yacht construction
- Stage and scenery construction
- Packaging, transport, and logistics
- Furniture and interiors





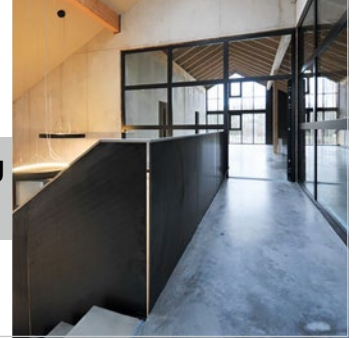
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Thank you!

We would like to thank all partners who supported us in the realisation of this brochure.



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Thank you!

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Die **Bo Systems Natural Fiber Systems GmbH** ist der weltweit führende Anbieter von **Holzfasermatten für den Bereich der 3D Verformung**, die unter anderem als Halbzeuge für die Fertigung von Pressteilen für die Automobilindustrie dienen.

Zu finden sind diese im Fahrzeuginnenraum, wie in den Bereichen Türen, Sitze, Cockpit sowie Motor und Getriebe. Darüber hinaus bieten wir das komplette Spektrum der Naturfaserverbundwerkstoffe an.

Mit technologisch einzigartigen Verfahren werden die Produkte für die führenden Unternehmen der Automobilindustrie kundenspezifisch hergestellt und vertrieben.

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