

Structured core panels

A true all-rounder for countless applications

The TRIPLEX structured core panels are perfect all-rounders for the most diverse challenges. Made of robust, high-impact polypropylene, they feature a unique combination of low weight and surprisingly high physical strength. This unparalleled versatility is the product of the panel's special structure.



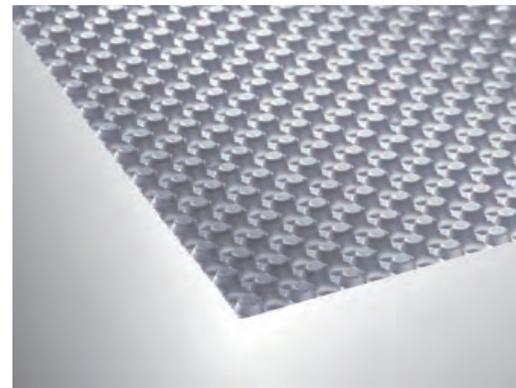
TRIPLEX-structured core panels – ready for your new ideas

TRIPLEX structured core panels have been manufactured in Haiterbach in the Black Forest since 2003. The broad delivery range comprising sheet thicknesses from 3 to 11 mm is shipped from the small German town to destinations worldwide. The TRIPLEX team is always in direct communication with its customers, taking their special product requirements into account in manufacturing and creating optimal solutions for perfect use. Innovative and creative expertise over many years has resulted in these unique multi-talent 'Made in Germany' structured core panels. Just tell us what your project needs and we will work out the special features and strengths of TRIPLEX structured core panels for your particular requirements. Together, we develop solutions for your intended field of application and deployment.

The quickest way to contact us
for your individual requirements:
+49 (0)7456 69038-0 and mail@triplex.de

The allrounder – with outstanding characteristics

- Extremely lightweight
- Outstanding compressive and impact strength
- Easy processing
- Smooth, level surface
- Printable using various techniques
- Can be laminated with all manners of materials such as foam, foils, or fleeces
- Rot-resistant and moisture-proof
- Excellent chemical stability
- Good thermal insulation properties
- Organically/food safe
- 100 % recyclable

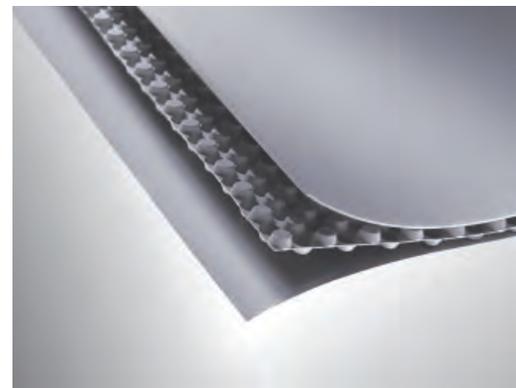


Structured core panels – the secret lies within

TRIPLEX polypropylene structured core panels are made of three components which are firmly welded together. Their unique panel structure results from combining two smooth cover layers with a dimpled middle layer and differs significantly from conventional twin-wall sheets in this respect.

The dimples of the middle layer expand to both sides and are low in overall height, thus achieving an extremely high compressive strength. The low height also ensures a uniform thickness distribution of the dimple tops, thus enabling a firm welding of the middle layer to the top layers.

The interaction of the perfectly matched components results in the extraordinary stability and bending strength of the structured core panels in all directions. The air gaps created by the symmetric dimple pattern ensures the particular light weight of the structured core panels, giving them a virtually unlimited range of applications.





Optional features – additional functions

TRIPLEX structured core panels can be customized, lending them additional properties to meet the desired requirements. If you have a very particular field of application for your panels, our development team will be glad to assist and develop the right solution for you.

- Antistatic or conductive property (ESD)
- Flame retardant according to fire protection classification
- Flame treatment to ensure printing and lamination
- Food-safe packaging according to EU directive
- Talcum-reinforcing for top mechanical values
- Enhanced UV resistance for outdoor applications

Closed edges – two useful versions

Straight from production, the structured core panels or cut sheets have open edges. Some applications, though, require protection against the ingress of dirt and water. Two versions of closed edges are available for this purpose.

The "standard edge"

Tried, tested and proven

The standard closed edge is a flat embossed edge closure which has been tried and tested in use for many years.



The "round edge"

Smooth and protecting

The rounded closed edge has a smooth surface meeting special requirements for occupational safety.

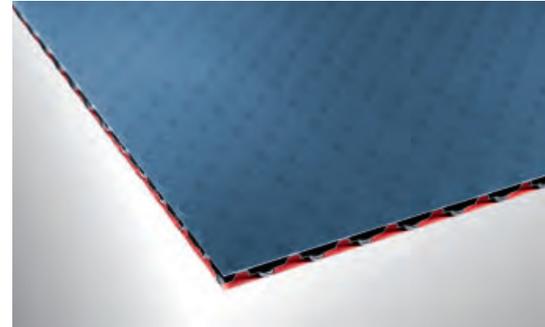


CoverTec – anything but standard

CoverTec "Colour"

Stylish colours

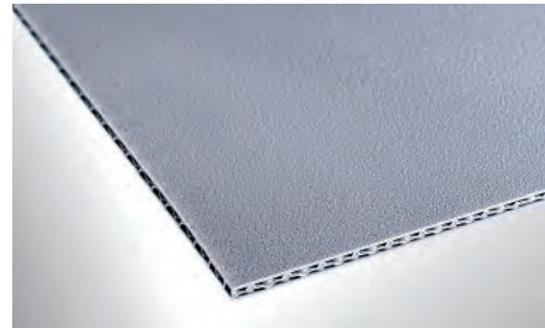
CoverTec Colour offers complete freedom of colour design for the three-layered structured core panel. Depending on your individual requirements, the two top layers as well as the dimpled middle layer of the panel can be produced in different colours, whereby you can choose from a very extensive range of colours for your perfect panels.



CoverTec "Grained"

Texture to avoid dirt and scratches

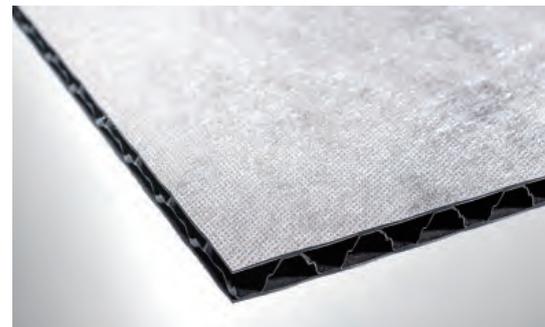
CoverTec Grained: the structured core panel with grained surface and a non-slip texture. Thanks to its grained appearance, it is ideal for concealing dirt and scratches. In addition to transport cases for measuring equipment or musical instruments, the grained version is also widely used for interior trim in commercial vehicles.



CoverTec "Soft & Smooth"

Protected by fleece and foam

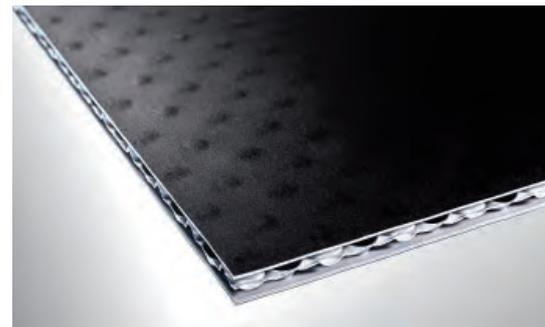
Structured core panels with Soft & Smooth coating are also available with non-woven or foam lamination. The fleece material protects highly sensitive surfaces from scratches caused by dirt particles during packaging or transport. The foam version, in contrast, ensures secure embedding and cushioning resulting in optimum breakage resistance during transport.



CoverTec "SlideStop"

Stop sliding with SlideStop

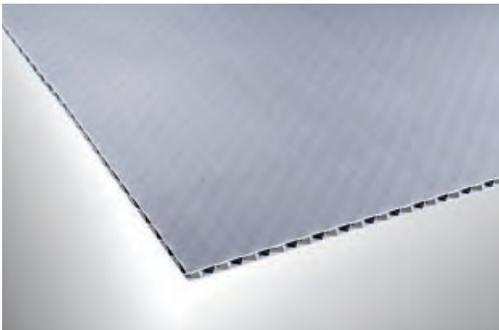
The SlideStop surface provides safety against skidding. A rubbery cover film is firmly applied onto the structured core panel. The surface thus acts like a rubber mat while still featuring the special stability of the TRIPLEX panel. It is often used as an intermediate layer for the safe transport of sensitive cargo such as glass, porcelain or stainless steel and is 100 % recyclable.



Product range – super light to extra strong

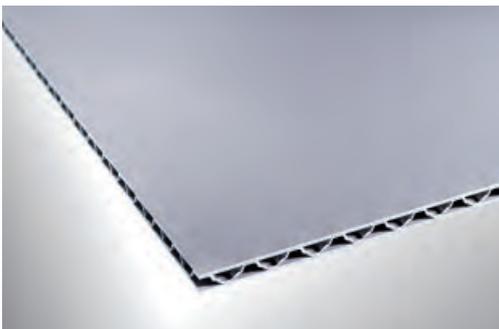
For any application, our extensive product range covers all the bases: TRIPLEX 3 is the lightest and thinnest panel type of the structured core panels family while featuring excellent rigidity and durability. TRIPLEX 5 features a perfect combination of both limited thickness and high stability. Due to this, it is a great alternative for heavy wooden or metal panels. TRIPLEX 10 is the strongest of the structured core panels suitable for all applications where particular stability and rigidity is required.

TRIPLEX-structured core panels are typically either made of high-grade polypropylene in a grey colour similar to RAL 7001 silvergrey or in PP regenerate black. A wide range of other colours may be supplied on request. Standard dimensions are 2100 mm width by 2400 mm length. The special production technology allows for the highest flexibility for customized lengths. Special cuts according to requirement may be realized as well. To allow quick deliveries, we have a large selection of different standard panels always on stock.



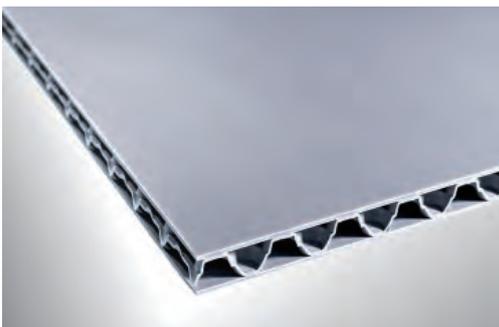
TRIPLEX 3

Area weight, approx.	Thickness, approx.
1000 g/m ²	3.6 mm
1500 g/m ²	4.0 mm
2000 g/m ²	4.4 mm



TRIPLEX 5

Area weight, approx.	Thickness, approx.
1000 g/m ²	5.1 mm
1500 g/m ²	5.6 mm
2000 g/m ²	6.1 mm
2500 g/m ²	6.5 mm



TRIPLEX 10

Area weight, approx.	Thickness, approx.
2000 g/m ²	9.6 mm
2500 g/m ²	10.1 mm
3000 g/m ²	10.6 mm
3500 g/m ²	11.1 mm
4000 g/m ²	11.7 mm

Structured core panels – the allrounder for every application

The unique technology of TRIPLEX structured core panels makes them particularly versatile. From small to large, from technically functional to aesthetically pleasing, from grey to colourful - the structured core panels are suitable for a wide range of tasks:

- Boxes, crates and containers
- Sleeves for sleeve pack systems
- Container compartments, dividers, intermediate layers, floor inlays
- Reinforcing components and structural inserts
- Laminated or non-laminated decorative panels, liners, machine housings
- Lightweight roof, floor and side trim panels
- Automotive interior fittings
- Display compartments, promotional displays
- Side panels for cabin compartments
- Hoardings on construction sites and dust protection partitions
- Solar panel fittings
- Permanent shuttering
- Flight cases and other types of reusable packaging
- Filtration systems for drinking water production
- Thermoformed parts

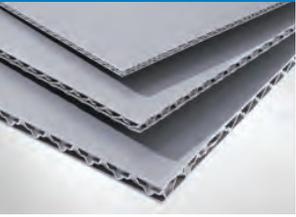
What are your ideas and/or challenges regarding your individual application for TRIPLEX-structured core panels or our TRIPLEX team? Simply contact us and our engineers will develop the product you need – your product.

NextLoop service – good for our environment

TRIPLEX structured core panels are made of high-purity polypropylene. A valuable raw material that should be kept in the material cycle in order to protect the environment and conserve resources. To make this important contribution, we have implemented the NextLoop service. No matter what you produce from the TRIPLEX sheet, once the products have reached the end of their life cycle, we will gladly take them back, recycle them and return them to the value-added cycle. Of course, we also offer the same service for production waste, such as blanks, punching waste or edge trims. We offer a reimbursement for this material as an environmental bonus. Thus, we and you jointly make an active contribution to the protection of our environment.

The NextLoop service not only applies to TRIPLEX structured core panels, but also to all genuine polypropylene panels.





Our promise

The focus of our work is on ideas to impress and serve our clients, as we strive to anticipate today your needs of tomorrow. We think beyond the conventional approach, to test the imagination and achieve exceptional solutions. Ever open to experience and to new ideas, we aim to continually redefine standards. As a family-owned enterprise, we listen carefully and are mindful of the importance of partnership and fair dealing. Everyone contributes – with heart and mind. We see ourselves as a partner to all: employees, clients and suppliers.

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