

The background of the page features close-up, high-contrast images of carbon fiber parts. In the top left, a curved, ribbed carbon fiber component is visible. In the bottom left, another carbon fiber part with a rectangular slot is shown. The rest of the background is a solid dark color.

EXCORE®

Technical Data Sheet

Ex-Core by numbers

RETHINK THE CORE OF CARBON-FIBRE PRODUCTION

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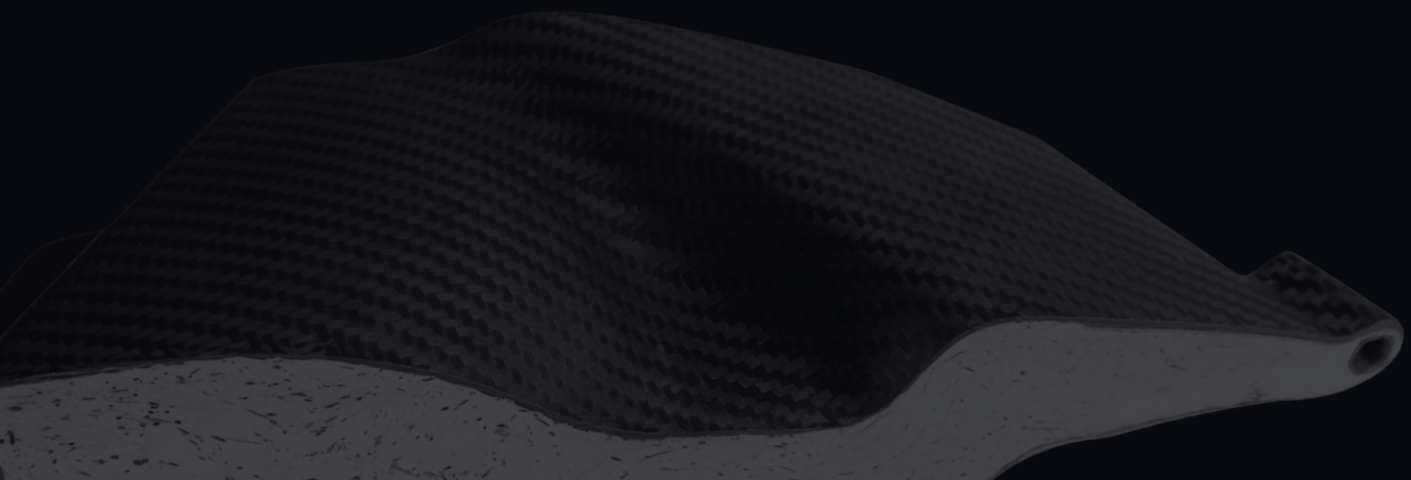
Rethink the core of carbon-fibre production

We are EX-CORE®

Ex-Core, originating in the world of high-performance sportscars, emerged from a 2011 research project by Dutch supercar manufacturer Donkervoort and has since become an independent company.

Born out of dissatisfaction with available carbon-fibre options, Ex-Core embodies an obsession with ultra-lightweight yet exceptionally strong materials, designed to be molded into seemingly impossible shapes while remaining cost-effective. Not only does it minimize waste and energy consumption compared to conventional processes, but it has also secured multiple patents and EU grants.

In 2022, Ex-Core became its own entity, and clients spanning motorsport, supercars, aviation, and luxury yachting have embraced the innovative carbon-fibre production method.



Why choose EX-CORE®?



1 One-shot efficiency

Ex-Core stands out for its groundbreaking, one-shot production method, reducing production time, increasing accuracy, and minimizing wastage.



2 Cost reductions

The Ex-Core process cuts costs for clients and the environment, eliminating consumables, reducing material trimming, and using sustainable energy, making it financially and environmentally sustainable.



3 Simplify complexity

Ex-Core creates a wide range of shapes with precision, handling sharp radii, intricate forms, and complex organic shapes in a single manufacturing cycle without compromising strength or tolerances.



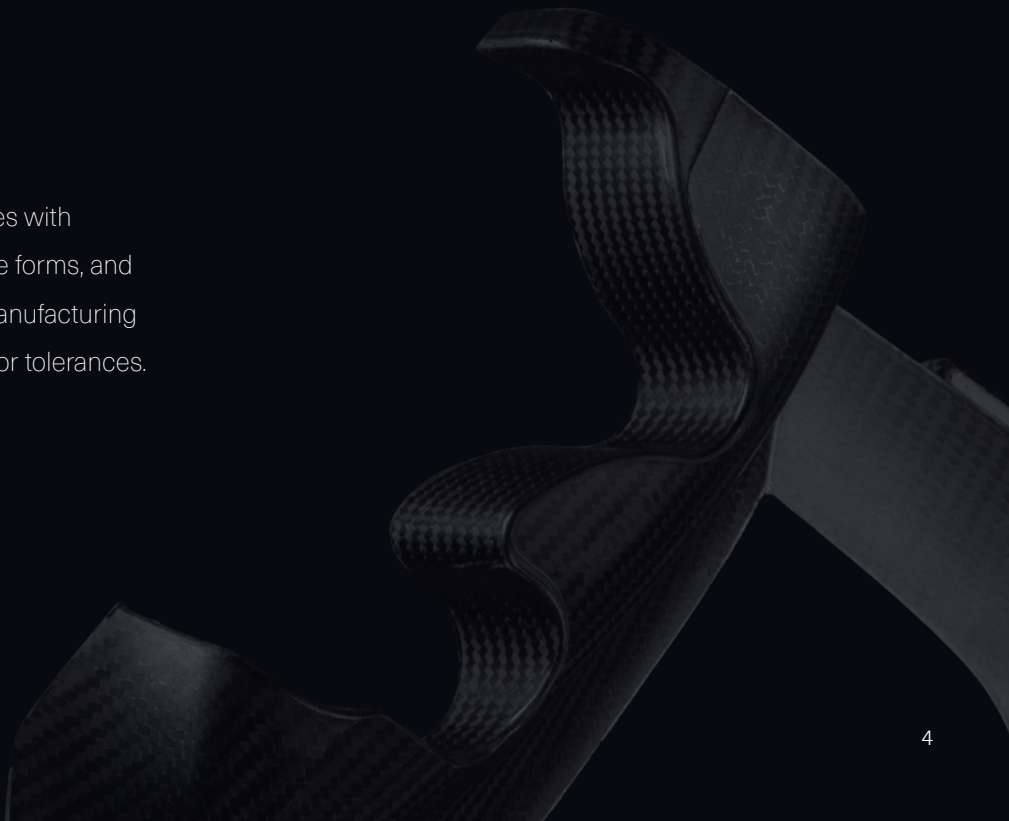
4 Light strength

Ex-Core provides both lightweight and robust components, achieving higher bending and torsional rigidity without adding weight, with customizable strength and weight characteristics.



5 Production flexibility

The Ex-Core method adapts to various production numbers and in-batch flexibility, from small batch runs to high volumes, maintaining quality and efficiency, offering versatile manufacturing capabilities.



Your safety matters

Safety is at the core of everything we do. We're committed to providing you with the knowledge and resources needed to handle Ex-Core materials responsibly. Your safety is our top priority, and we are here to support you every step of the way.

Key sections of this document

This document will provide you with the essential information required to evaluate or work with our materials safely and effectively.

Get in touch

For any questions, further information, or collaboration inquiries, please don't hesitate to reach out to our dedicated team. We're here to assist you.

Together, we'll shape the future of carbon-fibre engineering.

Ex-Core Technologies

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Appendix 1

Technical Data Sheet

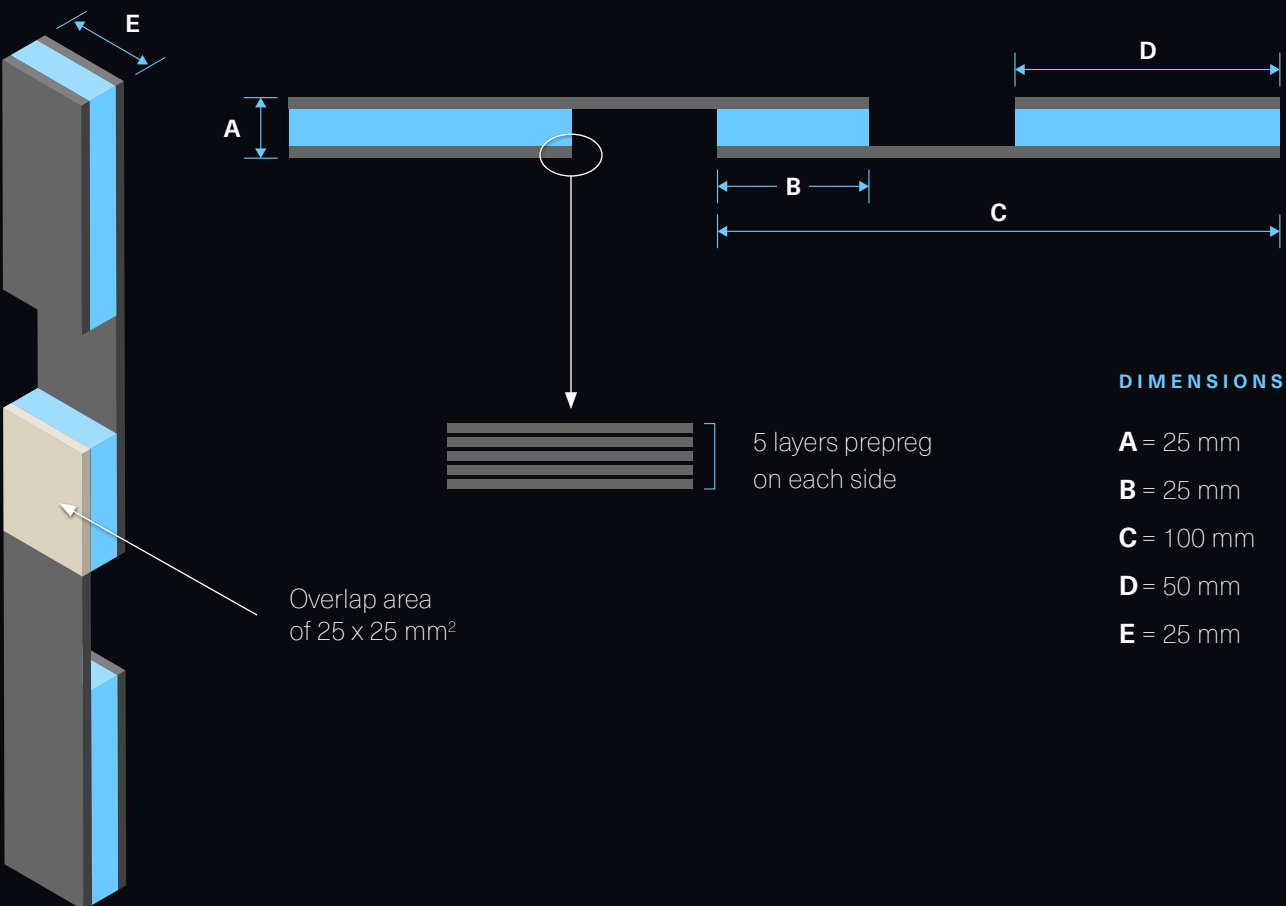


Mechanical properties

Property		Unit	Value
Density	Internal Stantard	Kg/m ³	86 ± 3
Compressive strength	ASTM D1621	MPa	0.43
Compressive modulus	ASTM D1621	MPa	23.8
Shear strength *	Internal Stantard	MPa	0.25
Shear modulus *	Internal Stantard	MPa	4.5

* ASTM C273 and Ex-Core use different test-unit shapes, so the ASTM C273 values differ from Ex-Core values. Ex-Core has a tested Material Card for every material.

Shear test of the sandwich



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