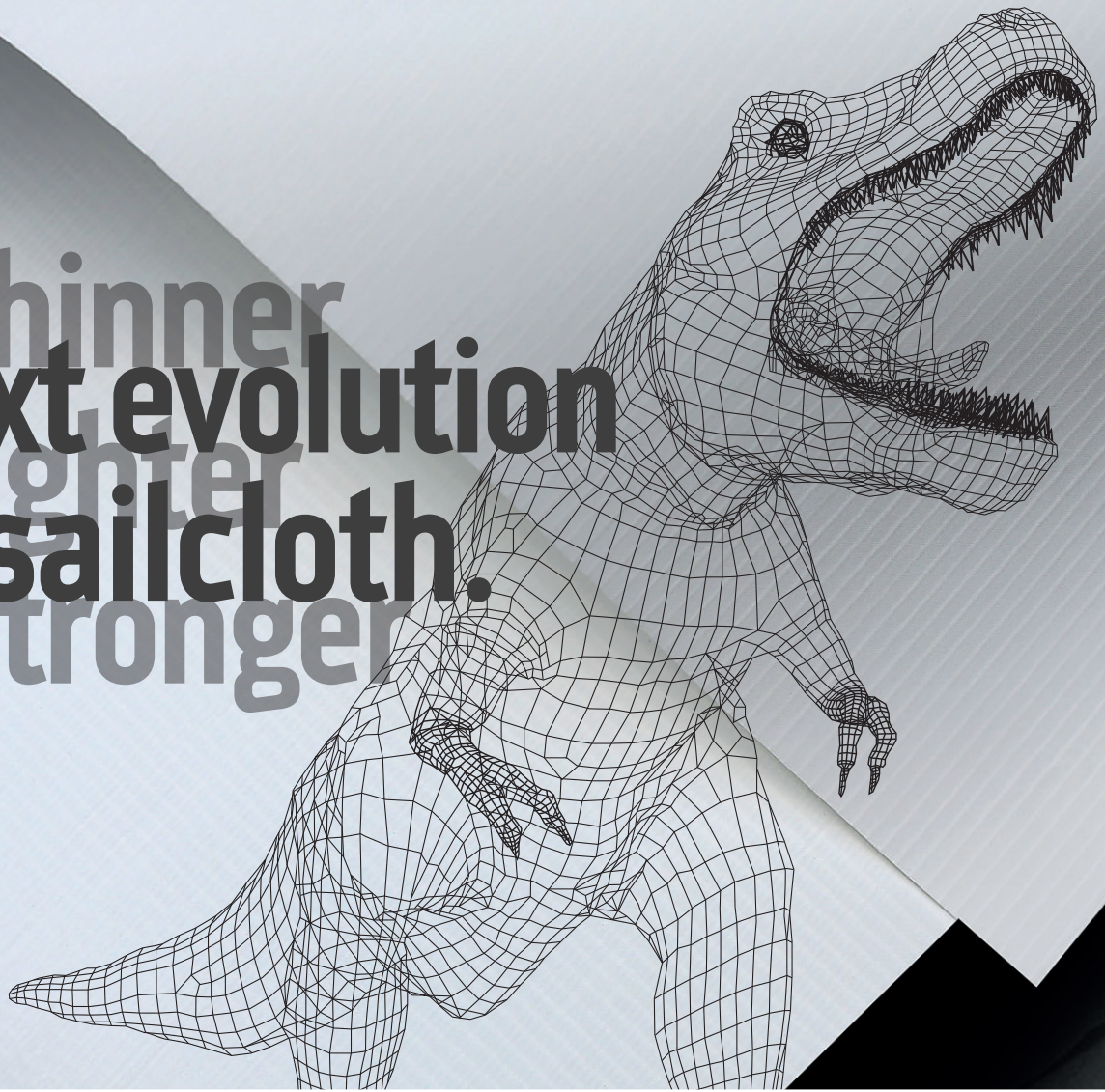
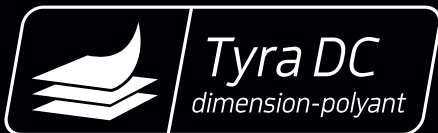


thinner
Next evolution
lighter
in sailcloth.
stronger



NEOS



With Tyra TEC[®], our successful cruising laminate DCX is now thinner – lighter – stronger! The white Tyra DC enables weight savings up to 20 % compared to DCX – without compromising on durability and while also significantly improving performance. This is possible due to our innovative Tyra Technology[®], in which the yarns are first split into individual filaments and fixed into a tape before being processed into an inner matrix structure in a particularly durable laminate. The result: a significantly lighter and thinner material that is tailored to the requirements of ambitious cruising sailors.

The polyester mesh fabric of the inner matrix of our classic DCX is completely replaced in Tyra DC by Tyra UD[®] tapes made of Ultra-PE. The use of Ultra-PE tapes as a functional layer, which gives the material additional stability and resilience, is the key upgrade. The Ultra-PE knitted fabric used – manufactured in-house – acts as a filler component and contributes significantly to the structural integrity of the material. This design principle is unique on the market - and an expression of our uncompromising quality standards. While other manufacturers use mixed forms, Dimension-Polyant takes a consistent approach: maximum performance through maximum material purity.

The material with unidirectionally arranged filament tapes also impresses with excellent warp stretch ratings and high tear resistance, crucial properties for durable and high-performance cruising sails. Two films embed the inner matrix. These are additionally enhanced on both sides with a taffeta fabric that ensures durability thanks to its chafe resistance. The material is also treated with our tried-and-tested UVM[®] finish, which offers reliable protection against UV radiation and mildew.

With Tyra DC, Dimension-Polyant presents one of the most advanced developments in its portfolio – lightweight, robust, and high-performance down to the last detail. To focus on the new and improved styles, the number of styles has been reduced to three, which also reduces resource consumption.

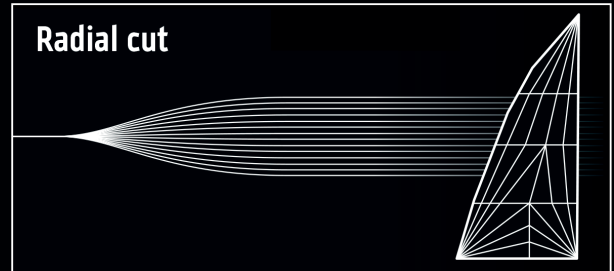
The leading sailcloth manufacturer. Innovation since 1966
dimension-polyant.com



Inner matrix:
Tyra Technology® unidirektional

surface: DC

Boat Length	Application	Radial cut
26 - 30	Mainsail	T DC04
	Light #1	
	#1	T DC04
	#2 #3	T DC04 T DC04
31 - 35	Mainsail	T DC06
	Light #1	
	#1	T DC04
	#2 #3	T DC04 T DC06
36 - 40	Mainsail	T DC06
	Light #1	T DC04
	#1	T DC04
	#2 #3	T DC06 T DC06
41 - 45	Mainsail	T DC08
	Light #1	T DC04
	#1	T DC06
	#2 #3	T DC06 T DC08



Tyra Technology® – From fibres to monofilament tapes to rolled goods

With our Tyra Technology®, we split fibres into individual filaments and fix them onto a unidirectional monofilament layer tape in a previously unattainable, homogeneous distribution. The product is our Tyra UD® Tape. This innovative filament tape forms the basis of the new Tyra range. Our world-leading production enables the processing of numerous fibre types and combinations as well as the integration of various stabilising materials such as scrim, veils and adhesives. The Tyra UD® tapes are laid on top of each other at different angles to form the inner matrix structure of Tyra PLY®. Here, we focus on the requirements of the respective application areas and produce various qualities, ranging from unidirectional (0°) to biaxial (0° and 90°) and multiaxial (0°, 90°, 83°, and off-angle support).

The use of Tyra UD® ensures unique profile stability even in demanding environmental conditions and offers significant weight savings compared to conventional laminates or membranes at the same time. Depending on the area of application, the surface also varies and ensures the durability of the material with a light, thin and strong inner matrix – we offer high-performance products for performance racers, club racers and cruisers.

