



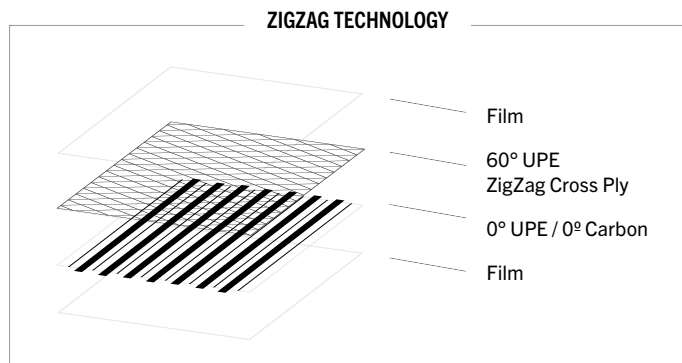
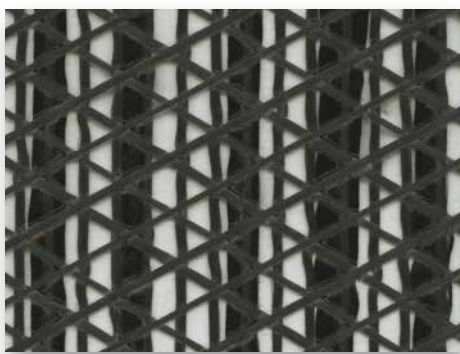
ZZ CARBON ULTRA PE LAMINATES

Carbon-UPE construction for strength and durability

➔ *Designed for radial cut sails from 25 to 50 feet*

ZZ Carbon Ultra PE Laminates are a cutting-edge range of film/film laminates that leverage the exceptional modulus and UV resistance of carbon fiber. These laminates are designed to provide superior strength, flexibility, UV durability, and overall performance through a unique Carbon-UPE construction. The grid of UPE cross-ply enhances the properties of the carbon fiber and the combination of both yarns ensures outstanding durability and strength making ZZ-C well-suited for various high performance applications.

The use of a multi-pass lamination technique, which involves several light layers of adhesives between each ply in the laminate, not only enhances the bonding strength but also prevents carbon filament fraying, contributing to ZZ-C's reliability and longevity. The ZZ cross-ply construction further fortifies these laminates, providing added tear strength and bias stability, making them ideal for a wide range of applications. Despite their exceptional strength and durability, ZZ Carbon Ultra PE Laminates offer a soft hand, making them easy to handle.



APPLICATIONS ZZ CARBON LAMINATES

BOAT LENGTH		MAINSAIL			HEADSAIL	
IN FT	IN M	MULTIHULL	MONOHULL	100%	135%	150%
± 25	± 8	ZZ-C 10	ZZ-C 10	ZZ-C 10		
± 30	± 9	ZZ-C 14 - ZZ-C 10	ZZ-C 10	ZZ-C 10	ZZ-C 10	
± 35	± 10	ZZ-C 18 - ZZ-C 14	ZZ-C 14 - ZZ-C 10	ZZ-C 14	ZZ-C 14 - ZZ-C 10	ZZ-C 10
± 40	± 12	ZZ-C 21 - ZZ-C 18	ZZ-C 18 - ZZ-C 14	ZZ-C 18	ZZ-C 18 - ZZ-C 14	ZZ-C 14 - ZZ-C 10
± 45	± 14	ZZ-C 21	ZZ-C 21 - ZZ-C 18	ZZ-C 21	ZZ-C 21 - ZZ-C 18	ZZ-C 18 - ZZ-C 14
± 50	± 15					ZZ-C 21 - ZZ-C 18