



ZZ Black Technora Laminates

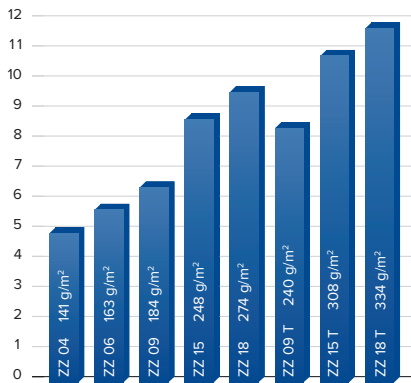
ZigZag reinforced aramid racing radial laminate for the racing sailor

The **ZZ Black** range of aramid laminates uses **a combination of Technora Black and Twaron Black fibers** to build a range of laminates for dinghies up to 40 footers. The ZZ 04 and ZZ 06 styles are based on a Technora formed scrim combined with Technora **ZigZag technology** for off-angle support. ZZ 04 is a One Design laminate featuring a 45° and 12° ZigZag insert to allow for both cross-cut and radial applications. The all Technora fiber construction of the ZZ 04 and ZZ 06 combined with our UV absorber in the adhesive assures excellent UV resistance and flex durability.

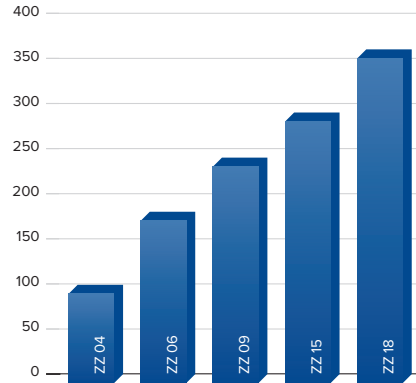
The **ZZ 09, ZZ 15, and ZZ 18 styles** all step up to the higher modulus **Twaron black warp fibers** for added performance in these radial laminates while still using the **Technora black** for the fill. Designed for radial applications the ZZ styles from 06 to 18 all have 750 denier Technora at 12° off the warp.

For applications where added durability is required, we offer **the ZZ 09, ZZ 15 and ZZ 18 styles** with a **one side taffeta option**. For a slight weight increase the taffeta contributes to film and impact durability. Placing the taffeta on one side of the cloth rather than internally between the films eliminates the problem of water wicking into the laminate.

ZZ Black is available in **60" width [152 cms]** for better nesting options and improved cloth utilization.

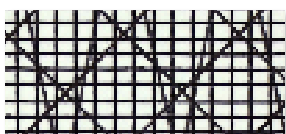


Fabric weight

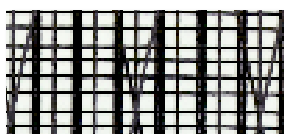


% Performance

Go the extra mile!



ZZ 04 BLACK



ZZ 06 BLACK

► ZZ Black Constructions

Style	Construction						ZigZag
	Width	Warp	Fill	Insertion	DPI warp	DPI fill	Technora
ZZ 04	152 cms	4 x 750	5 x 750		3000	3750	750 / 12° + 45°
ZZ 06	152 cms	4 x 750	5 x 750	2 x 1500	6000	3750	750 / 12°
ZZ 09	152 cms	8 x 1100	5 x 750		8800	3750	750 / 12°
ZZ 15	152 cms	8 x 1100	5 x 1000	4 x 1500	14800	5000	750 / 12°
ZZ 18	152 cms	8 x 1100	5 x 1000	6 x 1500	17800	5000	750 / 12°

► ZZ Black Taffeta Backed Constructions

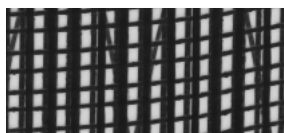
Style	Construction						ZigZag	
	Width	Warp	Fill	Insertion	DPI warp	DPI fill	Technora	Taffeta
ZZ 09 T	152 cms	8 x 1100	5 x 750		8800	3750	750 / 12°	1.2 oz.
ZZ 15 T	152 cms	8 x 1100	5 x 1000	4 x 1500	14800	5000	750 / 12°	1.2 oz.
ZZ 18 T	152 cms	8 x 1100	5 x 1000	6 x 1500	17800	5000	750 / 12°	1.2 oz.

► Applications ZZ Black Laminate Range

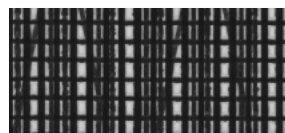
Boat length ft.	Mainsail	LT No. 1	Med No. 1	Hvy No. 1	No. 2	No. 3
Dinghy	ZZ04	ZZ04	ZZ04			
20 – 25	ZZ04/06	ZZ04	ZZ04/06	ZZ06	ZZ06	ZZ06/09
26 – 30	ZZ06/09	ZZ04	ZZ06	ZZ06/09	ZZ09	ZZ09/15
31 – 36	ZZ09/15	ZZ04/06	ZZ09/15	ZZ09/15	ZZ15	ZZ15
36 – 40	ZZ15/18	ZZ06/09	ZZ09/15	ZZ15	ZZ15/18	ZZ18
41 – 45		ZZ09	ZZ15	ZZ15/18	ZZ18	



ZZ 09 BLACK



ZZ 15 BLACK



ZZ 18 BLACK