

clear ahead

Speed · Innovation · Performance

GRAPHX

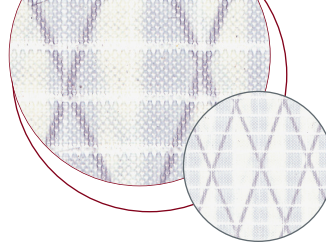
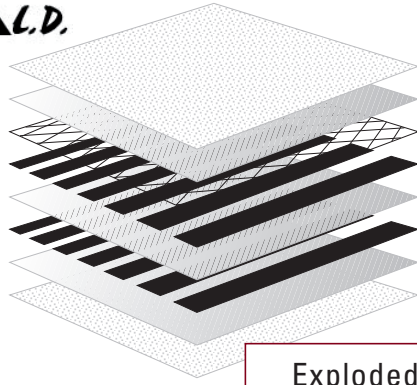
**GRAPHX™
L.D.**

GXLD

This line has been developed to address the need for high end, lightweight styles for the growing mega-boat market. Besides the need for a high strength-to-weight ratio, one of the most important features in the design protocol of this product is the light, soft, non-bulky characteristics which are critical for the in-mast and in-boom furling systems often used on these yachts. Abrasion resistant Spectra covering stretch resistant carbon ensures a strong, durable fabric that will increase sailing performance without decreasing the life of the sail.

The line is based on increasing counts of both inserted carbon ribbons (2 or 3 ends of 7000 denier) and Spectra based taffetas (woven polyester with a Spectra fill ripstop complements lighter applications when combined with a 15,000 Spectra woven, the 15,000 and 20,000 denier Spectra woven styles address heavier applications) as weights go up. The rational designation of these components produces a line that comprehensively covers 25,000 to 60,000 total DPI for step up construction in different sized sails as well as ensuring the proper fabric use within an inventory. Bias characteristics remain very close throughout this line so composite construction of the different weights within a sail blend smoothly from luff to leech.





Exploded view of GXLD

The Spectra taffetas offer a very soft finish to the product and with fewer passes in lamination the whole effect is a less "board-like" hand. The use of the high Spectra count in the woven fill rip-stop taffetas ensures the elimination of catastrophic failure. Spectra is also critical in accepting flex and impact loading in hoisting and tacking, an important criterion when dealing with the unidirectional strength of the load bearing carbon. Application of a mildew inhibitor with a TiO₂ coating makes a smooth, easy to clean surface that stands up to long term exposure.

The increasing counts of carbon address the strength issues needed in mega-boat loading while decreasing the Spectra creep problem so initial shapes will be very stable. With very positive feedback on carbon durability to date, it only makes sense to combine the strength and durability characteristics of these two fibers to eliminate weight while maintaining performance integrity. This is especially true with the carbon since the majority of its' application will be in non-flex or folding situations.

Style	Construction
GXLD25 – 54"	TiO ₂ coated woven Dyneema® taffeta with Dyneema® rip-stop fill X-PLY® 750 Technora® Black @ 22° and 0.75" spacing Film 10,000 dpi Carbon Insert® Film TiO ₂ coated woven polyester taffeta with Dyneema® rip-stop fill
GXLD30 – 54"	TiO ₂ coated woven Dyneema® taffeta with Dyneema® rip-stop fill X-PLY® 750 Technora® Black @ 22° and 0.75" spacing Film 14,000 dpi Carbon Insert® Film TiO ₂ coated woven polyester taffeta with Dyneema® rip-stop fill
GXLD35 – 54"	TiO ₂ coated woven Dyneema® taffeta with Dyneema® rip-stop fill X-PLY® 750 Technora® Black @ 22° and 0.75" spacing Film 21,000 dpi Carbon Insert® Film TiO ₂ coated woven polyester taffeta with Dyneema® rip-stop fill
GXLD45 – 54"	TiO ₂ coated woven Dyneema® taffeta with Dyneema® rip-stop fill X-PLY® 750 Technora® Black @ 22° and 0.75" spacing Film 14,000 dpi Carbon Insert® Film X-PLY® 750 Technora® Black @ 22° and 0.75" spacing TiO ₂ coated woven Dyneema® taffeta with Dyneema® rip-stop fill
GXLD50 – 54"	TiO ₂ coated woven Dyneema® taffeta with Dyneema® rip-stop fill X-PLY® 750 Technora® Black @ 22° and 0.75" spacing Film 21,000 dpi Carbon Insert® Film X-PLY® 750 Technora® Black @ 22° and 0.75" spacing TiO ₂ coated woven Dyneema® taffeta with Dyneema® rip-stop fill
GXLD60 – 54"	TiO ₂ coated woven Dyneema® taffeta with Dyneema® rip-stop fill X-PLY® 750 Technora® Black @ 22° and 0.75" spacing Film 21,000 dpi Carbon Insert® Film X-PLY® 750 Technora® Black @ 22° and 0.75" spacing TiO ₂ coated woven Dyneema® taffeta with Dyneema® rip-stop fill Film X-PLY® 750 Technora® Black @ 22° and 0.75" spacing TiO ₂ coated woven Dyneema® taffeta with Dyneema® rip-stop fill

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