



„ahead“

SIOEN



This line has been developed to address the need for high end, lightweight styles for the growing super yacht 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 typically used on these yachts. Abrasion resistant Ultra-PE 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 and Ultra-PE based taffetas 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.



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



*dimension
polyant*

Style	Construction
GXLD25	Ultra-PE ripstop taffeta Polyester taffeta with Ultra-PE ripstop Technora® Black X-PLY® 10,000 DPI Carbon Insert®
GXLD30	Ultra-PE ripstop taffeta Polyester taffeta with Ultra-PE ripstop Technora® Black X-PLY® 14,000 DPI Carbon Insert®
GXLD35	Ultra-PE ripstop taffeta Polyester taffeta with Ultra-PE ripstop Technora® Black X-PLY® 21,000 DPI Carbon Insert®
GXLD45	Ultra-PE ripstop double taffeta Technora® Black X-PLY® - Double 14,000 DPI Carbon Insert®
GXLD50	Ultra-PE ripstop double taffeta Technora® Black X-PLY® - Double 21,000 DPI Carbon Insert®
GXLD60	Ultra-PE ripstop double taffeta Ultra-PE ripstop internal taffeta Technora® Black X-PLY® - Triple 21,000 DPI Carbon Insert®



The Ultra-PE 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 Ultra-PE count in the woven fill rip-stop taffetas ensures the elimination of catastrophic failure. Ultra-PE 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 Ultra-PE 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.

This performance line of sailcloth is produced with our new UVi® Technology which has been recently implemented in our finishing process. With our UVi® Technology we are able to improve the UV resistance of the fabric by 10 - 15% resulting in a substantially longer durability.



GENERAL NOTE

All suggestions are based on our world wide experience with sailcloth applications. Please note that the recommendations are meant as guidelines for modern IMS yachts or yachts of comparable righting moment and sail sizes. You should consider, when making your choice, if the sail will be used in a particular heavy- or light wind area.

Neither Dimension-Polyant nor any of its affiliates assume any liability for special, incidental or consequential damages due to the recommendation given.

HIGHEST QUALITY FROM THE START

Dimension-Polyant uses only performance high tenacity fibers, customdeveloped chemicals as well as premium films from qualified suppliers.

IN-HOUSE MANUFACTURING

Dimension-Polyant is worldwide the sole producer of high quality sailcloth with its own in-house manufacturing. As sailcloth is our only product we have invested in customized equipment for weaving, finishing and laminating.

CONTINUOUS INNOVATION

Dimension-Polyant has the most dedicated R&D team, the state-of-the-art facilities and preferred access to the newest fibers, chemicals and components. Together with German and American engineering this provides the base for trend setting developments.

GLOBAL REACH

Our worldwide distribution and technical support network makes Dimension-Polyant the perfect partner for your sail-maker.

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

