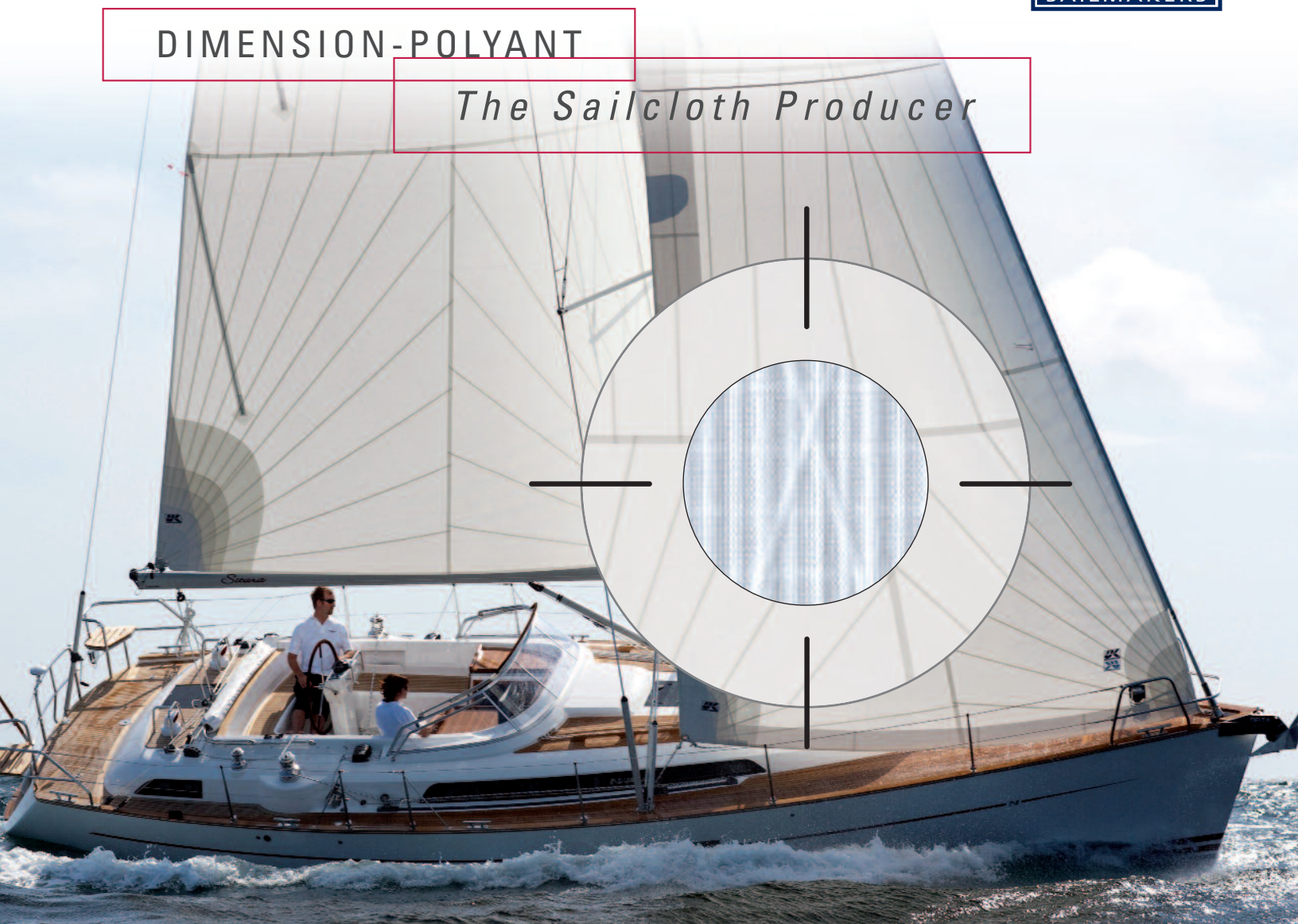




DIMENSION-POLYANT

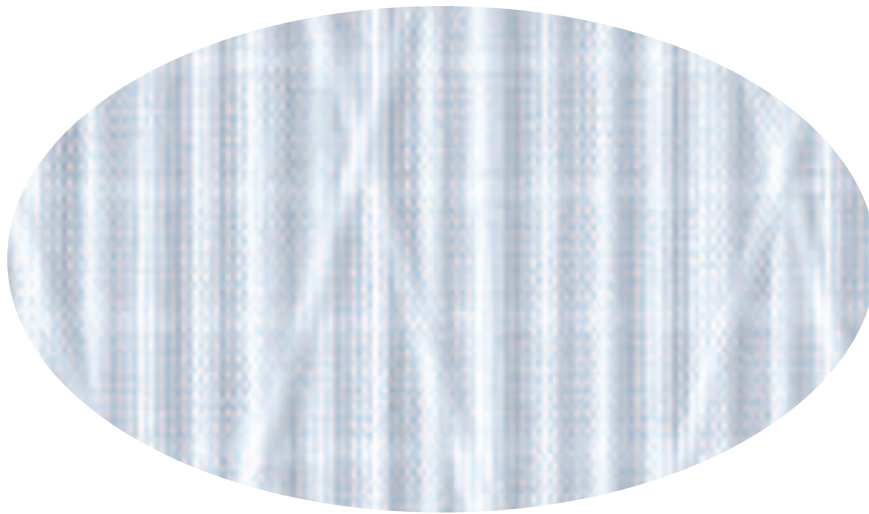
*The Sailcloth Producer*



**SXI**

DIMENSION-POLYANT SXI cruising laminates were developed as an upgrade to the CXI cruising line utilizing Ultra-PE Polyethylene (Ultra-PE) fiber. Designed to be extremely stable in radial construction with a soft finish for sail handling, the new SXI line combines multiple off angle Ultra-PE X-PLY<sup>®</sup> yarns around a load bearing Ultra-PE warp fiber to ensure superior shape holding over the life of the sail. A balanced polyester base scrim provides trans-directional stability and, in conjunction with the Ultra-PE X-PLY<sup>®</sup> yarns, impressive tear strength. The outer layers of these styles are rugged polyester taffetas providing resistance to chafe and impact. These outer taffetas are top coated with our proprietary UV and anti-microbial top coating to extend sail life in direct sunlight exposure while deterring mildew growth. The same UV and anti-microbial additives are used in every adhesive layer to further protect the load bearing yarns and deter internal mildew damage.





SXI

SXI – Ultra-PE fiber

The strength of the SXI line comes from its' Ultra-PE Polyethylene X-PLY® and INSERT yarns. The Ultra-PE fiber has nearly unlimited flex strength, excellent UV stability and initial modulus comparable to carbon fiber. Combined with an extremely high tensile strength, the Ultra-PE fiber is unique in the cruising market as an extremely rugged fiber which ensures superior shape holding and durability over the life of the sail. DIMENSION-POLYANT's years of experience working with similar fibers ensures superior lamination for the life of the fabric.

Balanced Warp loading: the SXI line is exclusive in the cruising laminate market due to its' multiple angle warp construction. While current cruising laminates rely on a dedicated warp load yarn and one set of off-angle yarns for load disbursement, the SXI line incorporates another set of off angle yarns to ensure smooth transitions from panel to panel while increasing total warp count for increased stretch resistance.

The combination of DIMENSION-POLYANT's X-PLY® and INSERT technologies to create

this unique 0°-13°-22° construction is a derivation of our successful Flex cruise line, which also incorporates multiple off angle load yards. The SXI line also employs a base 0°-90° polyester base scrim for additional fill strength in the base lamination for additional transverse strength and ripstop.

Treated taffetas: The SXI line uses heavy polyester taffetas to resist abrasion. The taffetas go through a top-coating process that treats them with an antimicrobial coating for maximum mildew deterrence. The top-coating also has TiO2 additive for maximum UV block. The combination of the TiO2 and anti-microbial protects the fibers of the taffeta to ensure long life for the outer skin of the fabric.

Step down capabilities: the use of common taffetas and X-PLY® yarns allows smooth step down construction for lower load areas throughout the sail, decreasing weight and overall cost. Consistent finish specs minimize transition issues throughout the differing weights while maintaining a soft hand for sail handling.

This fabric line includes UVt® Technology. This extra finishing step offers increased UV protection, repels moisture wicking, retards microbial growth and extends taffeta lifespan resulting in a more durable laminate sailcloth.



As Used by UK Sailmakers