



BAINBRIDGE
INTERNATIONAL



DIAX²LP
LOAD PATH LAMINATES

Technical Innovation and Service - The Fabric of Our Business

DIAX2 LP

LOAD PATH LAMINATES

DIAX2 LP is a Bainbridge exclusive sail assembly technology that combines the durability and stability of the latest multi-directional laminated sailcloth and continuous load bearing fibre mapping to address sail loading.

Rugged, Low Stretch, High Tear Strength, DIAX2 Base Membrane

The basis of this unique sail is the proven DIAX2 laminated sailcloth. This extremely rugged composite utilises non-woven off the threadline fibre in multiple directions to create a super strong base material. As within our efficient sailcloth laminates, adhesive weights are kept to a minimum to ensure a long lasting bond but also incorporate weight to strength efficiencies not seen in other membrane products.

Cross Cut Shaping with Non-Load Bearing Seams

DIAX2 LP is shaped and assembled using proven cross cut sailcloth methods, creating a highly efficient and rugged base to apply directional fibres. Aramid Twaron or Carbon are then bonded to the base fabric using an exclusive application technique.

Continuous Aramid / Carbon Load Path Fibre Alignment

Individual fibres radiate from the corners of the sail and are grouped according to the DPI requirements of each specific sail. The fibres are continuous from head to foot and clew to luff, traversing each seam to create a finished membrane with uninterrupted stretch resistance. This extensive, continuous fibre coverage combined with a DIAX2 base creates not only a very efficient sail membrane, but an extremely durable one as well.

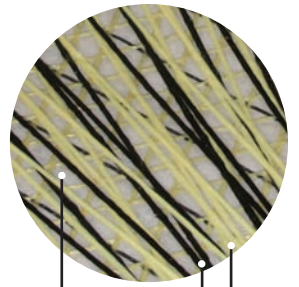
Built to Your Design

Each DIAX2 LP sail membrane is custom made to the sailmaker's design and specifications. The DIAX2 base is available in many configurations to meet extensive specific sail applications. Each sail can be engineered to exacting base and load path DPI assuring the most efficient use of low stretch fibre.

Contact your sailmaker to receive a quote.

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DIAX2 base laminate (Film/Film or Film/Taffeta)

Alternating HMT or HMT/Carbon LP fibre



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