

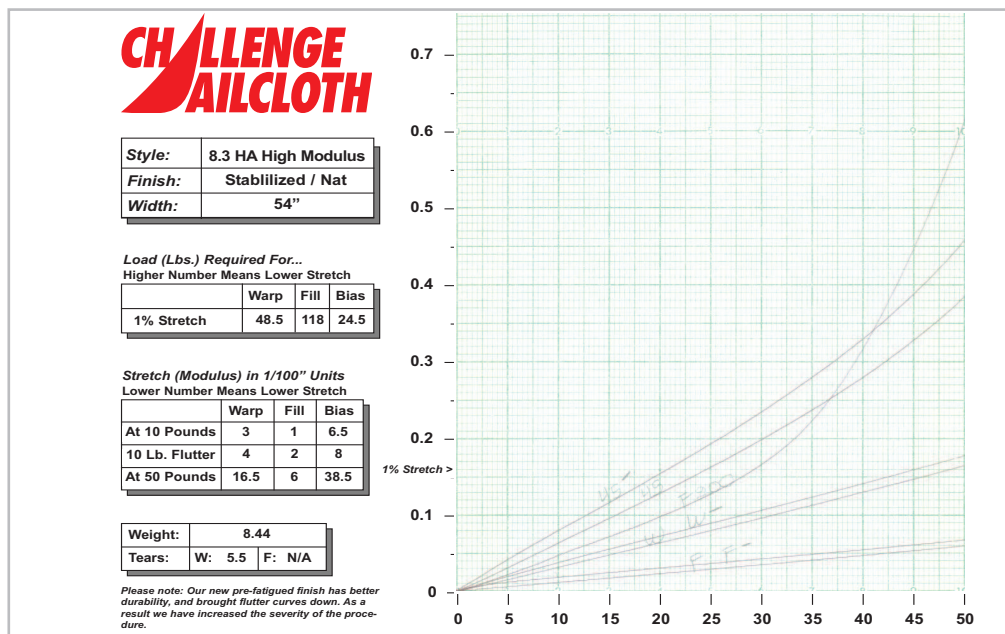
## 8.3 High Aspect High Modulus



Challenge Sailcloth's High Modulus Weaves are high performance racing and high end cruising fabrics. They feature tight weaves of very high counts of warp yarns (high sleys), and highest modulus, highest shrink Fiber 104 or Performance Fibers 1W70 fill yarns in most weights (where available). These superior fibers (the finest that money can buy) best resist high leech loads in Crosscut Sails. High Modulus Weaves compare extremely favorably to the top constructions made by our competitors, who use little to no Fiber 104 and 1W70.

### Construction

- 8.3 has a very high warp count of 250 denier and an 840 denier Performance Fibers 1W70 fill. The high sley (number of warp yarns) makes straight "tunnels" which make the fill yarn straight. (Low "crimp") This takes the maximum advantage of the high modulus, low stretch fill yarn, best maintaining sail shape.
- 8.3 has a Warp to fill denier ratio of 1 : 3.4, a high Aspect construction. Super tight weave.
- The Actual weight is 8.4 Oz. per Sailmaker's Yard. (28.5" x 36").



### Finish

- Our STABILIZED finish is achieved by immersing the fabric in a bath of suspended resin. The resin is absorbed by the fiber. The cloth is fed into an oven where the liquids are driven off, leaving resin solids bonded to fibers. The fabric is heat-set several times, methodically shrunk at high temperature, further tightening the weave, and calendered at high tonnage to further stabilize the bias.
- Available in Firm spec of 1-6.5, or Medium Firm 2-15: See "Stretch in 1/100" Units", "At 10 lbs" on graph.

### Applications

- 8.3 is for HA Mains and #2 Genoa's on 37-41 foot boats.
- Heavy #1 Genoa's on 42-48' and Light #1's on 56-62 footers.

