



Shadecloth Sail Option Comparison

Item **Standard specification ✓○** **Heavy duty specification ✓○** **Extra heavy duty specification ✓○**

Economical short term solution **Value for money long term solution** **Suited to large commercial projects**

Fabric	Type 44 – Knitted HDPE monofilament/HDPE tape shade cloth. Estimated economic life in tropics 6 – 7 year.	Type 81 Knitted HDPE shade cloth, all monofilament. Estimated economic life in tropics 10 – 12 years.	Type 81 Knitted HDPE shade cloth, all monofilament. Estimated economic life in tropics 10 – 12 years.
Thread	UV stabilized polyester– Estimated economic life in tropics 5 – 6 years	UV stabilized polyester– Estimated economic life in tropics 5 – 6 years	UV stabilized polyester– Estimated economic life in tropics 5 – 6 years
Stitching	Chain stitch – Can Unravel if stitch is broken.	Lock stitched – Remains intact if stitch broken, 65% stronger than chain type	Lock stitched – Remains intact if stitch broken, 65% stronger than chain type
Perimeter reinforcement	HDPE poly fabric type 30 – Common name Canvacon or Tarpee Estimated economic life in tropics 2 – 3 years	PVC/PES type 50 – Common name commodity grade PVC –Estimated economic life in tropics 5 – 6 years or Stainless steel wire rope type 137 Typical economic life in tropics 20 + years	PVC/PES type 50 – Common name commodity grade PVC –Estimated economic life in tropics 5 – 6 years & Stainless steel wire rope type 245 Typical economic life in tropics 20 + years
Corner reinforcement	HDPE poly fabric type 30 – Estimated economic life in tropics 2 – 3 years	PVC/PES type 50 – Estimated economic life in tropics 6 – 7 years	PVC/PES type 50 – Typical economic life in tropics 5 – 6 years plus aluminium reinforcing plates. Estimated economic life in tropics 20 + years
Eyelets	Nickel plate brass or light duty stainless steel – Suitable for light duty	Heavy duty yachting grade 316 stainless steel eyelets	Engineered solution specifically for purpose
Warranty	12 months against identifiable defects in membrane manufacture, from supply date	5 years against identifiable defects in membrane manufacture, from supply date	5 years against identifiable defects in membrane manufacture, from supply date
Membrane engineering	No	No – Available for extra charge	Varies– Refer to project estimate. If not shown, available for an extra charge

General Information

- 1) **Type:** Refers to tensile strength, to facilitate consumer comparison between materials performing a similar function. This calculated from the weakest primary axis in deca-newtons per 50mm strip per AS 2001, except for wire rope which is the ultimate breaking load under tension. NB 1deca-newton = 1.02 KG Force
- 2) **Warranty:** Refers to the labour performed by Aerosail, fabric suppliers also offer a warranty against UV degradation only. If requested we will be happy to obtain information about the fabric manufacturer’s warranty. However we recommend caution in relying upon the fabric manufacturer’s warranties because of the difficulty and cost of proving specific UV degradation.
- 3) **Fading:** All knitted HDPE shadecloth fades when exposed to the sun. Some colors fade more than others.
- 4) **Monofilament Vs Tape** All monofilament shadecloth has a much better resistance to stretching and UV degradation compared the fabrics which have a mixture of monofilament and HDPE tape and though slightly more expensive initially provide better long term value for money.
- 5) **Re-sewing:** Whilst then thread used in all sails is the same type and quality, they can usually be re-sewn for around 10% of the original purchase price provided they are not torn or falling apart.
- 5) **Economic life:** Is an estimate based of previous experience. Factors known to shorten the economic life include exposure to chlorine, bleach or other harsh chemicals. Depletion of the ozone layer is increasing environmental problem that is worse in some areas. Hence the stated period is not a guarantee