

Design Considerations.

The Fabric is a UV stabilised, PU (Polyurethane) reinforced, rip-stop Polyester, that has excellent resistance to fading and means that your windsocks will keep their high visibility for the entirety of their useful life.

The main design consideration here was to choose fabrics that will withstand the bright sunlight and battering from the elements and yet give you the longest possible service in maintaining their high visibility and strength. These fabrics are made in England and conform to EN 471 and EN 343.

The Hoops are made from ACETAL it will not shrink, expand or distort, which means that your windsocks will always maintain their correct geometric shape.

There was a great deal of deliberation about which material would be best suited to this application and finally arrived at the use of ACETAL. This material is extensively used in marine applications mainly because it will not suffer moisture ingress. It will not distort, expand or shrink. It has an excellent resistance to extremes of temperature. Although a little more expensive than possible alternatives, this material will give you the best performance in all conditions.

The Ropes are made from marine quality Polyester and have the strength (up to 300 kg each) to withstand anything that the weather can throw at them, and will ensure that your windsocks stay on the mast.

It was felt that the use of stainless steel ropes, if assembled correctly, was a bit of an overkill from a strength point of view. Most stainless steel ropes are assembled using a brass or copper ferrule to make the rope loops. The coefficient of expansion of these dissimilar materials will experience various degrees of movement as temperature changes and such joints have been known to come apart. Marine quality 8 plat polyester cord, as used in Flyrite windsocks, has more than enough strength, will not freeze or rot and will outlast the lifetime of your windsock and therefore is ideal for this application.

The Hooks are of High Grade 316 (A4) Stainless Steel which is safe for use in salt water coastal environments. On the smaller windsocks they are of the closed loop type. The larger windsocks have 316 (A4) Stainless Steel hooks which incorporate a swivel and the ropes are further reinforced with clear PVC tubing at their attachment point to the swivel.

The Stitching is with a superior strength water resistant thread, the type used in sail making, combined with sewing techniques designed to resist shredding.

A windsock usually starts to shred at its weakest point that is why consideration was given to the type of thread that would be used. The thread had to be of a strength and thickness that would help to prevent your windsock from shredding. Too thin and the thread would fail, too thick and the stitching would make a perforation through the fabric and your windsock would fall a part. You can have the peace of mind that your Flyrite windsock is made as strong as it can be.

The Geometry of Flyrite windsocks has been designed to minimise the destructive force of whiplash. They are designed to stay filled with air as much as possible, throughout their arc of operation to further minimise the chance of shredding.

The Manufacture, is undertaken with accuracy, care and attention to detail and means that all Flyrite windsocks maintain a very high standard throughout the manufacturing process, from cutting the fabric to final assembly.

Improvements: Flyrite is always looking for ways to make improvements. Sometimes the slightest adjustment to the geometry can make a big difference to the operation of a Windsock. Some improvements can't be made without customer feedback. So please don't hesitate to contact us if you think that we could do things better; we will always listen.

In all the time that we have been manufacturing windsocks, we have never had negative feedback.