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### Specification - Commercial 90

For a non water proof membrane the most cost effective material is Shade Mesh - for this we recommend the use of Commercial 90 Mesh (Comshade 90 larger structures and/or exposed areas or Polyfab 90 smaller structures) due to their U.V.A. & U.V.B. rating, superior strength and their longevity in our harsh environment.

- Sails** Sails are laid pre tensioned full size in our loft, the reason for this is that it removes excess fabric from the sail resulting in a sail that will not move excessively.
- Edging/seams** High tenacity, U.V. stabilised polyester webbing in all edges. For extra U.V. protection the edge webbing's are completely enclosed by folding the material around the webbing. All seams are triple stitched using extra heavy duty U.V. stabilised thread. Other methods seen in the industry which we consider unsatisfactory are; leaving the webbing exposed thus inviting U.V. breakdown - a common problem with polyester and the use of wires in the edge this results in time with the wires cutting through the edge of the fabric. **Used as standard on all sails is Tenara (Gore PTFE - fluoropolymer) thread, this thread offers excellent U.V. qualities and is backed up by the manufacturer's 15 year warranty.**
- Corners** Corners are fitted with stainless steel "D" rings around which the edge webbing's are folded; webbing's are doubled up at the "D" ring contact to avoid the possibility of chafing on the continuous structural webbing which carries the major loads of the entire membrane. Corners have reinforcing patches and load distributing loops to evenly distribute loads into the membrane over a greater area.
- Attachments** Attachment from the "D" rings is via stainless steel turnbuckles and shackles. Shade sails are also known as tensioned membranes, this means that they should be in a tensioned state, sails that are attached up with rope or chain will usually not have the required tension to stop excessive movement.
- Brackets** Stainless steel custom and standard brackets are used for attachment into houses and other existing structures. Brackets on square section posts are stainless steel pad eyes and/or collared eye nuts which are bolted or taped into place - this is a much neater method which also overcomes:  
1) The tendency of eye bolts to fail due to cyclic loads.  
2) The rust problem due to wear if metal tangs are welded on.  
Brackets on round section posts are stainless steel eye nuts and large section stainless threaded rod bolted right through the posts, these are designed with a high bearing area to reduce cyclic loads and offer the same rust protection as above.
- Posts** Are a pre galvanised heavy wall square(standard) or round section, these are either:  
1) Placed into appropriate footings (Soil removed from site if required)  
2) Bolted into place against an existing structure.  
It is important that post are stiff enough that they don't flex to much in windy weather as this would in turn result in excessive sail movement.
- Warranty** Standard - 3 years on all materials and workmanship (conditions apply)  
Fabric - 10 year UV warranty      Thread - 15 year UV warranty