

dolphin 
tensile awnings

The Evolution of Marine Awnings



Chief Designer - Matthew Vincent

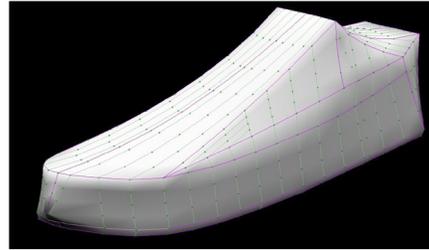
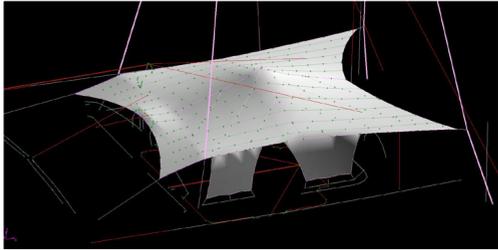
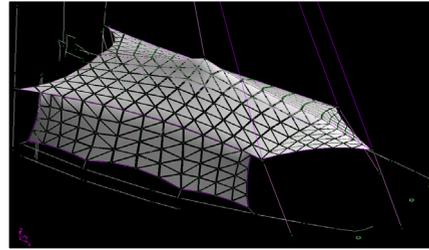
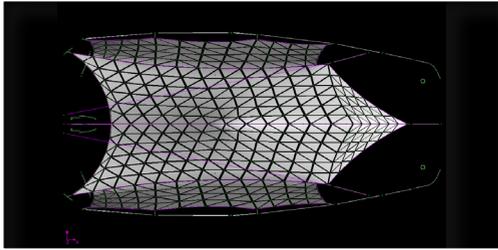
Design Philosophy

With over 50 years of fabric manufacturing, Dolphin are passionate about what can be achieved with a combination of art, science and skilled craftsmen to engineer beautiful awnings.

Our design mantra is to seek simplicity and ease of use. Through experience we have evolved many methods of deployment over a range of sea and land based projects.

We seek to make best use of what is already in place to support the structures and in many cases adding little or nothing to what currently exists.

A further core goal is to produce structures that protect the client and guests, the boat and provide a cooler, more enjoyable environment along with reducing the noise and power consumption associated with climate control systems.



Tensile Membrane Analysis

Our advanced computer modelled design uses the tensile membrane theory that structures incorporating double curvature geometry are far more stable than traditional panels of canvas tightened at each corner. The membrane analysis, known as 'form finding' takes the design generated from our digital measurements and models wind flow across the structure. The simulation then adjusts the form of the awning, using the double curvature, to create the shape that offers the least resistance to these forces.

The result is an awning with tension distributed across the entire structure; no lofting or flapping of the edges and no pooling of water after rainfall and no framework or bracing poles.

Form Finding

The 'form finding' process is used by Dolphin to produce the most stable shapes that will best resist the effects of the wind.

Iconic structures such as the Munich Olympic stadium and the Millennium Dome have all benefited from this advanced design technique, allowing the architect to create and craft stylish, modern designs.

Designs are able to blend seamlessly in with the body of the yacht or building. Without form finding technology a structure will tend to be unstable, reverberate, flap and may allow water to pool.

Fabrics

WeatherMax.

In the yacht arena the use of modern fabrics such as WeatherMax enable lightweight and strong structural awnings to be built. In addition to its benefits of weight saving the awning folds down to a relatively small package which is a great benefit when storage space is at such a premium. WeatherMax is particularly suited to temporary or furling awnings.

Ferrari.

For the more permanent structures we utilise the best fabrics available including the ubiquitous Ferrari preconstraint, probably the most stable and long lasting PVC style.





Create a new lifestyle....

- Previously unusable deck space can become a safe and protected area to enjoy the company of friends and guests
- Stunning and sophisticated designs to impress
- A perfect environment for all weather entertaining
- Creates a new secluded and private sanctuary
- A shaded area offering high UV protection
- The perfect accompaniment to a beautiful house or boat

Dolphin Tensile Awnings use WeatherMax 80, a polymer yarn fabric using a stronger Ottoman weave to offer the following benefits over traditional acrylic;

- 6 times more resistant to abrasion* (using Taber abrasion resistance test)
- 75% stronger and 44% more water resistant
- 25% lighter. Lightweight cloth reduces stowage volume of the awning

Ease of Use



Sophisticated Designs



Simplicity and Performance

We incorporate the standard and running rigging of sail yachts to support the tensile loads and make installation as simple as possible.

On motor yachts we can use existing superstructure and specific framework – increasing the variety of coverage available.

- Ease of use – lightweight, simple designs
- Stable structures – no water pooling or flapping
- More compact for easy stowage
- Protect both guests, crew and the yacht
- Reduced power consumption – effective shading of the decks reduces internal hull temperatures

Tensile Awnings



Simply Easy to Use



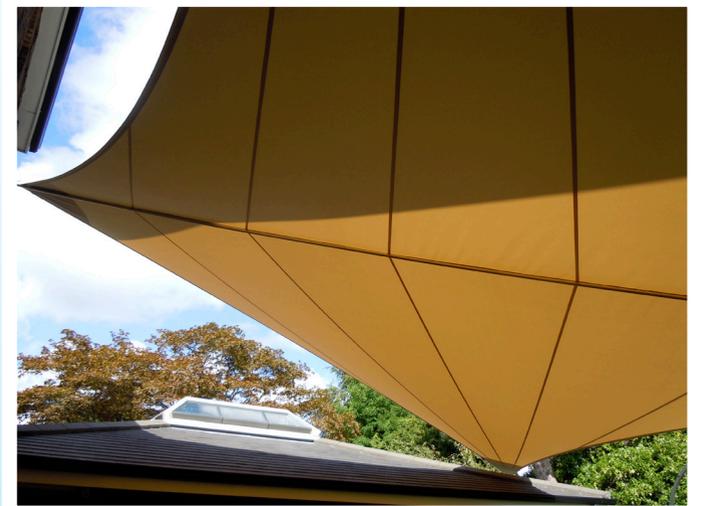
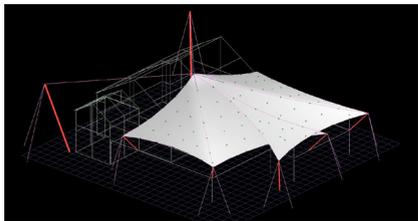
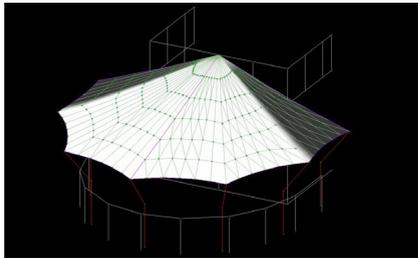
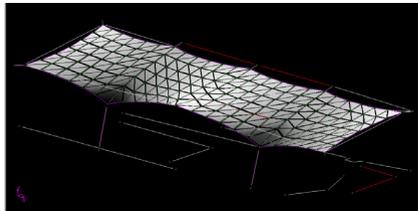
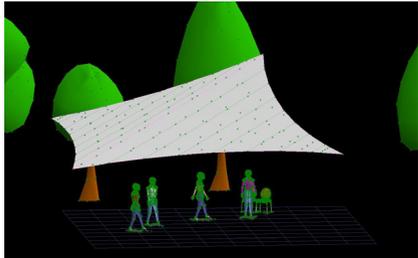
Architectural Design

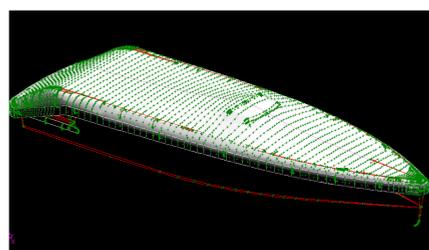
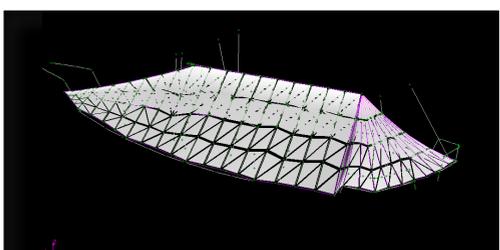
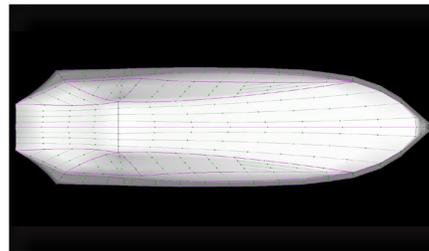
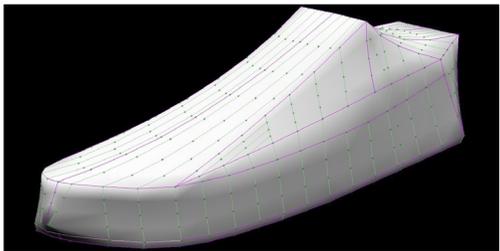
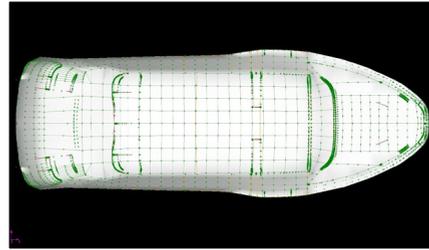
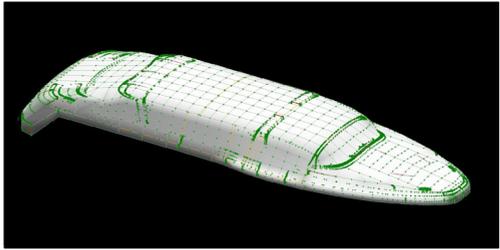
The stunning range includes permanent and semi-permanent structures.

- Creating a perfect alfresco dining area
- Stunning and sophisticated space for entertaining
- All weather patio area
- Aesthetically beautiful yet practical
- Easy to deploy. Use of furling systems allow fast deployment and retraction
- Create a new architectural aspect to your property
- CAD designs are used to show perspective views of the final structure

Awnings are designed only after consultation with the owner and a measured survey of the area to be covered. A bespoke CAD design is used to show perspective views of the final structure. Dolphin's design team will talk you through the whole process and advise you on ease of use

Architectural Design





Form found designs transform simple overall covers to create more than just a product to protect your tender. The design software creates a more stable form found shape which cuts down on windage, flapping and chafe.

- Form found covers that wrap, hug and protect your boat
- Stable shapes that reduce flogging and chafe
- Stunning designs that stay in keeping with your boat
- Reduces chance of water pooling
- Effective, practical and easy to use
- Re-useable, with an expected lifespan of 10+ years

Off-site design – we are able to model and produce covers direct from design drawings without visiting the boat itself. This allows for rapid production turnarounds, ideal for tight build schedules.

Overall Tender Covers



Energy Saving

Effective shading of the decks will decrease the internal hull temperature, significantly reducing the demands from air conditioning systems onto auxiliary power units.

With more boats using hybrid power systems this temperature drop can significantly increase the effectiveness of the 'green systems'.

Our current projects are pushing this energy saving even further;

New photovoltaic films can be bonded directly to WeatherMax, turning an awning into a giant solar panel without the weight and awkwardness of traditional solid panels.

Simple ~ Stunning ~ Stylish



Dolphin Tensile Awnings

400 Main Road
Harwich
Essex
CO12 4DN
United Kingdom
+44 (0)1255 243366

info@dolphintensileawnings.com

palma@dolphin-covers.com

www.dolphintensileawnings.com

dolphin 
tensile awnings