

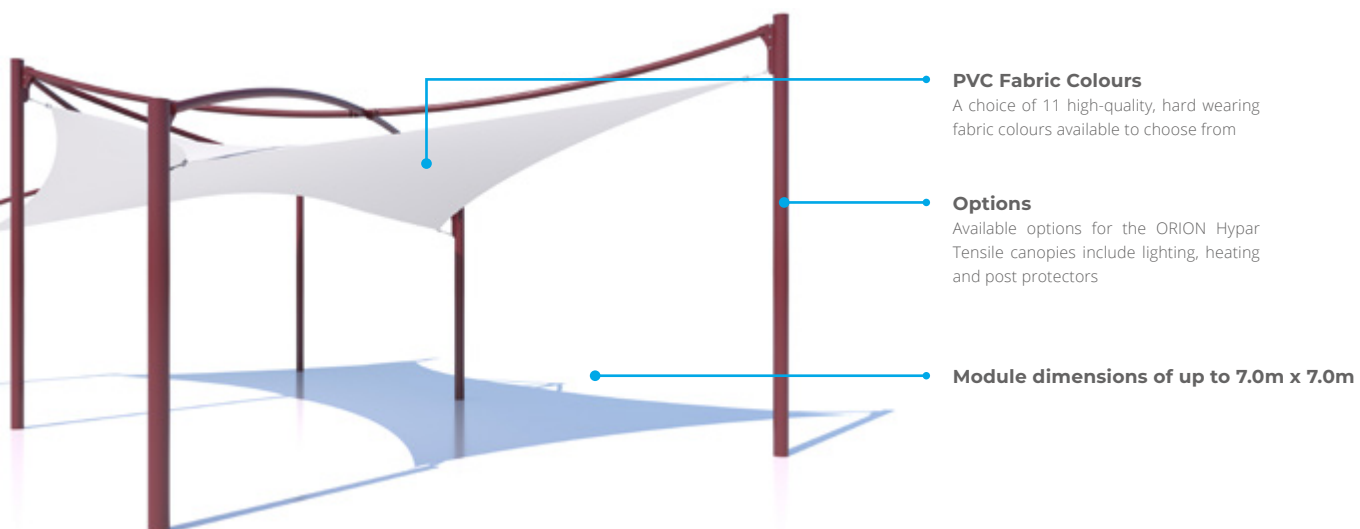


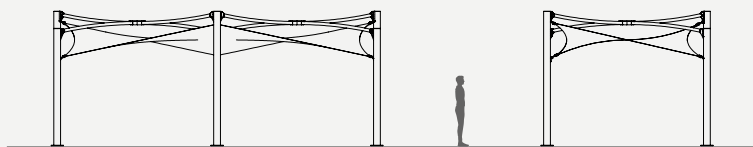
ORION HYPAR TENSILE Fabric Canopies

Utilising the hyperbolic paraboloid, ORION Hypar fabric canopies are probably the simplest of all tensile structures with a distinctive shape created when the diagonally opposite corners of a sail are raised. This 'twist' produces the hypar form, while opposing tension forces keep the canopy membrane tight across the span.

ORION Hypar fabric canopies use a PVC based waterproof architectural fabric manufactured with a PVDF self-cleaning top lacquering layer. These advanced fabrics have a 25 year design life, covered by a manufacturer backed warranty of up to 10 years, depending on specification.

Selecting an ORION Hypar fabric canopy is an opportunity to create a stunning feature at the same time as a structure that provides a good balance of shade and shelter. With a wide range of both neutral and bold fabric colours available and the option of radius posts for added interest, the design can be configured to fit in with both contemporary and traditional architectural styles.





Design Features



Structural Design

The over-braced design creates a standalone tensioned frame without the requirement for cast in column foundations.



Custom Designs

Create stunning architectural canopy structures to cover spectator seating and outdoor performance areas.



Fabric Colour Choice

Create vibrant and imaginative covered spaces with 25 colours of fabric to choose from.



Great Aesthetics

Soft curves and one-piece colourful architectural membranes with minimal supporting steelwork create an undeniably impressive feature in their own right.



Shade Sail Canopy

Where the primary objective is shade and UV protection, consider the ORION Hypar shade canopy.



PVC Architectural Membranes

PVC Architectural Membranes with stainless steel perimeter cables provide optimum shade and weather protection.

Product Specification

ORION Hypar fabric canopies are the classic tensile form, using columns at the outer edge of the structure for support. ORION Hypar canopies are available as single or double hypar modules and can easily be sited in groups to provide larger areas of cover.

Canopy Form

ORION Hypar canopies have a waterproof membrane tensioned in the classic hypar form – a square or rectangular shape tensioned at opposing high and low points.

Canopy Support

ORION Hypar fabric canopies are supported from columns at the corners. The braced design means smaller foundations are required compared to the traditional waterproof hypar.

Canopy Dimensions

ORION Hypar fabric canopies can be constructed with module dimensions of up to 7.0m x 7.0m. Most hypar modules are square, but rectangular or slightly irregular quadrilateral shapes can be accommodated with careful design.

Additional Options

Post Protector Pads

Foam protector pads with heavy duty PVC covers can be fitted to canopy posts for structures situated in play areas.

Lighting

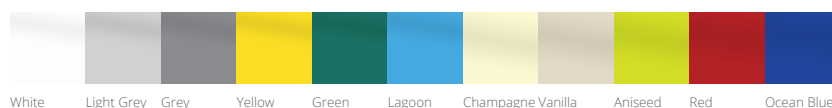
Various lighting solutions are available to extend safe use of your covered space or walkway outside of daylight hours.

IR Heaters

External grade radiant electric heaters can be fitted to ORION canopies to provide warmth to users in colder weather.

PVC Fabric Colours

Specified with the FTO Series Architectural PVC Fabric which is an advanced, high quality and hard wearing product, with a smooth PVDF surface coating that stops dirt getting ingrained in the fabric, reducing the level of maintenance required to keep the roof clean.



Frame Finishes

Highly durable polyester powder coatings are applied as the standard finish on steel frame with colours selected from a basic range or from the RAL colour selector. Steelwork is cold grit-blasted to SA2.5, with a zinc coating and anti-corrosive primer, followed by the high gloss polyester colour powder coat finish. Alternatively, hot-dip galvanised coatings can be specified for the harshest environments where a decorative finish is not required.



Hot-Dip Galvanised



Colour Polyester Powdercoat

