Edition 3 - January 2025

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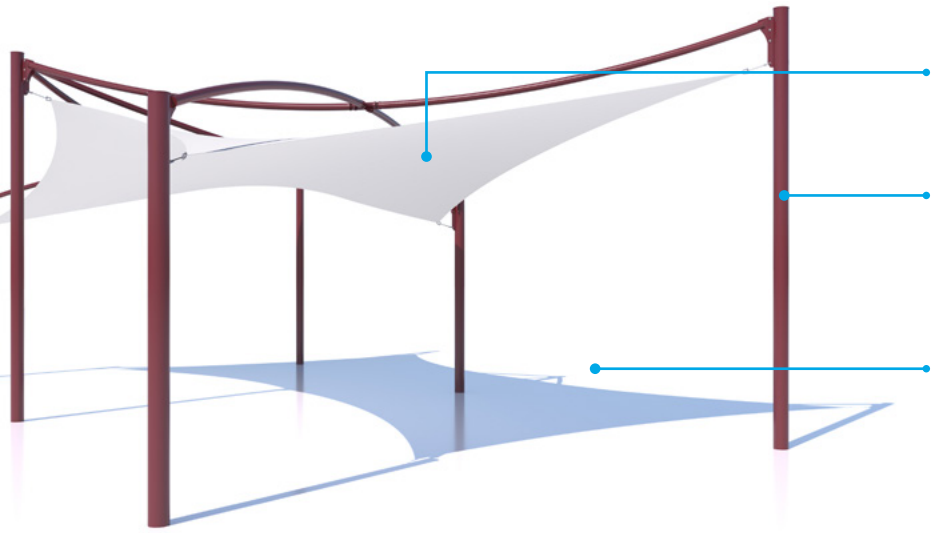
ORION HYPAR TENSILE Fabric Canopies

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.



PVC Fabric Colours
A choice of 11 high-quality, hard wearing fabric colours available to choose from

Options
Available options for the ORION Hypar Tensile canopies include lighting, heating and post protectors

Module dimensions of up to 7.0m x 7.0m

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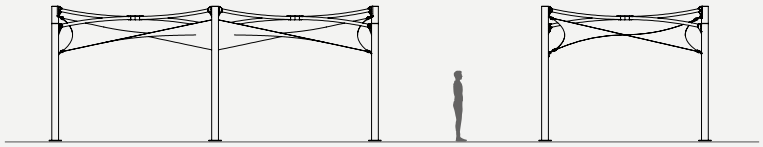


Design Features

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

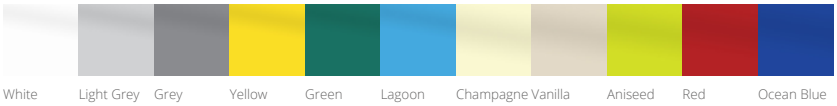
Post Protector Pads
Foam protector pads with heavy duty PVC covers can be fitted to canopy posts for structures situated in play areas.

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.



Fame 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

Fabric Canopies | Polycarbonate Canopies | Timber Canopies | Sports Canopies | Enclosed Canopies | Walkway Canopies | Entrance Canopies

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