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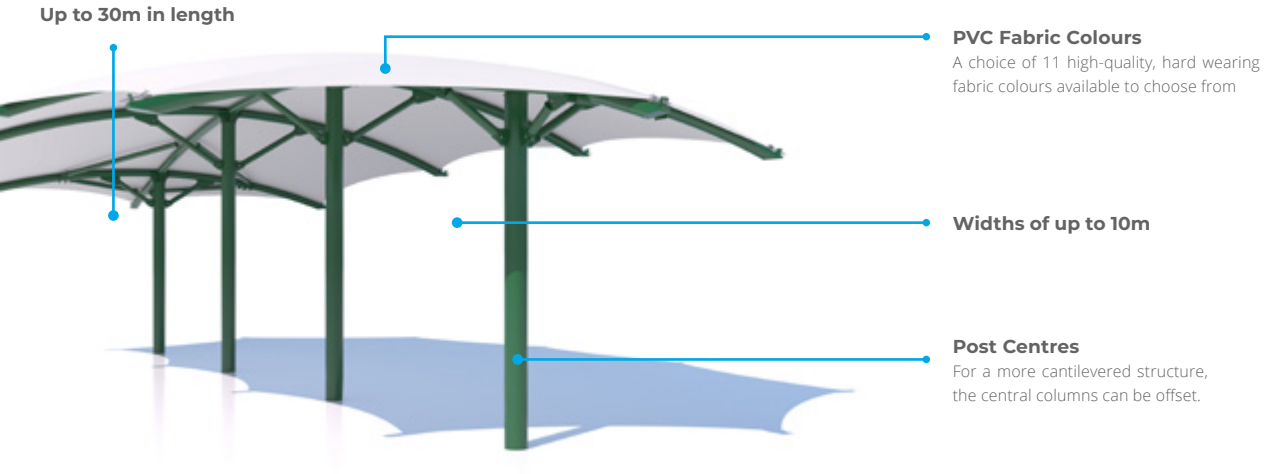
ORION SHIELD Fabric Canopies

With a freeform shape not limited by conventional canopy and shelter design constraints, tensile structures provide superb scope for innovative structures like the ORION Shield. The attractive curved spine profile of ORION Shield creates a distinctive aesthetic feature for both contemporary and traditional settings, while a consistent eaves height offers excellent weather protection and even shading under the structure.

The flexible design aesthetic and distinctive elegant form of a tensile structure results from the characteristics unique to membrane tension. In daylight, fabric membrane translucency provides diffused, naturally lit spaces, while at night, artificial lighting can be used to create an ambient exterior luminescence. The lightweight nature of tensile membrane design requires less structural steel compared with conventional roof coverings, enabling clear spans of column-free space.

The durability and longevity of tensile membrane design is well proven with fabric canopy structures installed in climates ranging from Arctic cold to scorching desert heat. ORION fabric membrane manufacture complies with all relevant national regulations for fire resistance. ORION tensile canopy structures use a PVC-based architectural fabric manufactured with a PVDF self-cleaning top lacquering layer. These advanced fabrics have a lifespan equal to alternative covering materials with a 25-year design life, covered by a manufacturer-backed warranty for up to 15 years dependent on specification.



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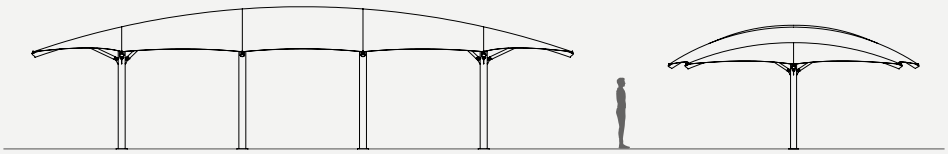

Design Features

Timeless Style
A canopy design that will not look out of place with a backdrop of either traditional or contemporary building fabric.

Design Flexibility
The versatile cantilever design of the ORION Shield achieves widths of up to 10m and lengths of up to 30m.

One-Piece Fabric Membrane
No joins to trap dirt or moisture and advanced fabric coatings provide a smooth, low maintenance surface.

Low-Profile Forms
The unobtrusive form of ORION Shield fabric canopies is ideal for sensitive locations.

Sound Absorption Qualities
Soft membrane fabrics absorb echo, the sound of rain and voices to a much greater extent than a hard roof.

Minimal Column Design
The immensely strong steel frame with central support columns provides exceptionally usable covered space.

Product Specification

ORION Shield fabric canopies are a shaped rectangular format supported by a single row of columns, usually on the centreline. Standard dimensions and design details are noted below – please contact our team if you require a bespoke design.

Canopy Form
ORION Shield fabric canopies always have a symmetric form with a consistent edge height. Membrane tension is achieved using stainless steel wires in the membrane edge.

Canopy Support
ORION Shield fabric canopies are supported by a central row of columns. If required the row of columns can be offset to create a more cantilevered structure.

Canopy Dimensions
ORION Shield fabric canopies can be constructed in widths of 3m - 10m in lengths of up to 30m.

Additional Options

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.

White | Light Grey | Grey | Yellow | Green | Lagoon | Champagne Vanilla | Aniseed | Red | Ocean Blue

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

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

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