

*Beautiful shade*



**SKYSPAN SHADE**  
COMMERCIAL UMBRELLAS AND SHADE STRUCTURES



## THE ULTIMATE IN SHADE SOLUTIONS

Specifiers Guide to Heavy-Duty Permanent Umbrella Selection





## Comprehensive Guide for Selecting and Specifying Outdoor Umbrellas

As outdoor spaces become increasingly important for guest experience and aesthetic appeal, changes to weather patterns and climate make choosing the right umbrellas crucial to the success of the installation.

This guide aims to offer in-depth knowledge about the various types of outdoor umbrellas, materials, wind resistance, and features available from Skyspan™ Shade.

- Provide clear criteria and guidelines for selecting the best outdoor umbrellas based on specific needs, environmental conditions, and usage scenarios.
- Present practical information on site preparation, installation and maintenance considerations to ensure long-term satisfaction and durability.
- Ensure that the selected outdoor umbrellas enhance the functionality, safety, and aesthetic appeal of resorts and commercial properties

### SCOPE OF COMMERCIAL AND RESIDENTIAL USE INCLUDES:

- Hotels and Resorts
- Restaurants and Cafes
- Educational Institutions
- Public Spaces and Parks
- Aquatic Centres
- Lifestyle Villages, Homes and Body Corps





## Umbrella Design Considerations

When selecting outdoor umbrellas for commercial use, both aesthetic and functional considerations are crucial to ensure they meet the demands of the environment and enhance the overall user experience and longevity of the investment.

### **Durable and Long Lasting:**

There is a growing demand for products to align with the environmental goals of the property, including the ability to refurbish the product and recycle the materials at the end of life. Umbrellas should be constructed from high-quality materials that can withstand various weather conditions. This includes rust-resistant frames, UV-resistant canopy fabrics, and sturdy bases.

### **Aesthetic Enhancement:**

Outdoor umbrellas contribute to the visual appeal of outdoor settings, complementing the overall design and ambiance of resorts and commercial spaces, blending seamlessly with furniture and landscaping. The choice of frame and canopy colours, along with the option of customised features such as logos or unique patterns will enhance the property's identity and create a unique outdoor experience.

### **Comfort and Experience:**

By providing shade and protection from the weather, umbrellas enhance guest comfort, encouraging longer use of outdoor areas and improving overall guest satisfaction. Umbrellas can provide a flexible alternative to fixed shade structures, allowing resorts and commercial properties to create adaptable outdoor spaces that

can be reconfigured based on usage needs and seasonal changes.

### **Extensive Outdoor Coverage:**

The ability to link multiple umbrellas provides a continuous cover creates large shaded and rain-protected areas, while still providing a cohesive look for extensive outdoor spaces.

### **Superior Canopy Fabric:**

The choice of canopy fabric is critical for performance and longevity. Fabrics should offer high UV protection, be water-resistant, and be resistant to mould and mildew.

### **Functionality and Ease of Use:**

Mechanisms for opening, closing, and rotating the umbrella should be user-friendly and reliable. Additionally, these mechanisms should have secure tamper-proof locking features.

### **Ease of Maintenance:**

The ability to easily maintain and replace components is essential for long-term use. Features such as removable and replaceable canopies, replaceable parts, and robust construction simplify maintenance and reduce downtime.

### **Installation Requirements:**

Commercial umbrellas will require specific installation methods such as inground installation, which necessitates access to the site for earthworks. Existing decks may need to be reinforced to support the weight and stability of the umbrellas. Proper installation ensures the umbrellas are secure and can withstand environmental stresses.



## Skyspan™ Shade – Key Design Features

What sets Skyspan™ Shade Umbrellas apart is our unique designs, which have structural engineer and wind-rating certification, which meet or exceeds Australian standards. Each umbrella is custom made to order, allowing for site-specific requirements such as footing or canopy heights, along with customised frame and canopy colours, at our Gold Coast manufacturing plant.

### KEY FEATURES INCLUDE:

#### Easy Wind Opening & Retracting

Skyspan™ Shade's "Easy Wind" retraction system, used in the retractable models, Sunset and Vista, utilises a unique "rack and pinion" gear system which along with an "Anti-Jam" crank lift will allow for easy, fast and reliable opening/closing of canopies.

A simple but unique lever allows the umbrella to be locked in the open position for safety. The removable handle leaves a clean aesthetic appearance whilst preventing unauthorised operation.

#### Engineered Wind Rating

Skyspan™ architectural umbrellas come with an Engineer Wind Rating Certification, be it our Alfresco portable umbrellas (60Km/h), Vista and Sunset ranges (118Km/h open, 148Km/h retracted) or our cyclone rated Typhoon and Panorama ranges (148Km/h open).

#### Concealed Cables

At the canopy level, our concealed stainless perimeter cable gives the canopy its curved contemporary profile and overall chic quality. All hardware is manufactured from marine grade 316 stainless steel for maximum strength and longevity.

#### Stylish Cast Base Plates

At Skyspan™ we pay attention to detail. Starting at the bottom our custom cast alloy base plates provide a clean look whilst adding durability and strength to the design.

#### Integrated Electrical Pre-Wiring

Skyspan™ offers the option of including integrated electrical wiring to be supplied ex-factory for accessories including electrical heating units, lighting and speaker systems.

#### Flexible Designs

5 standard sizes provide coverage options starting from 9sqm up to an impressive 64sqm off a single structure. Umbrellas can be standalone, or connected under one continuous membrane for unlimited all-weather cover.

# Skyspan™ Shade – Key Design Specifications

## ENGINEERING

Wind resistance and stability are at the core of the Skyspan™ Shade offering.

Skyspan™ Shade umbrellas are engineered to withstand wind, which means that the design and construction have been specifically tailored to resist wind forces. This includes providing specific installation recommendations, selecting appropriate materials, designing structural components, and incorporating features that enhance stability and reduce the risk of failure during windy conditions.

In comparison many other umbrella solutions have ratings for Tunnel Tested Wind Resistance. Wind tunnel testing involves placing a prototype of the umbrella in a controlled environment where wind speeds can be accurately simulated. This process tests the umbrella's performance under different wind conditions and provides empirical data on its

wind resistance but does not mean the umbrella has been engineered to withstand winds.

### Engineering Certification

Skyspan™ Shade offers Engineering Certification services to meet various project requirements. Available at a fee, these certifications include:

#### Engineering Certificates for State-Specific

**Requirements:** Tailored to comply with regulations and standards specific to the state where the project is located.

#### Site-Specific Calculation Engineering Reports:

Detailed reports based on the unique conditions of the installation site, ensuring that the umbrella system meets local engineering and safety standards.

These certifications provide additional assurance that Skyspan™ Shade products are engineered to meet the necessary requirements for performance and safety.

## DESIGN

Skyspan™ Shade can accommodate different design requirements and spatial configurations.

### Umbrella Post Options:

- Centre Pole, Cantilever or Gazebo Perimeter Frame

### Umbrella Opening Options:

- Retractable Opening or Fixed

### Canopy Shape and Size Options:

5 standard sizes provide coverage options starting from 9sqm up an impressive 64sqm off a single structure. Umbrellas can be standalone, or connected, either via a lacelink addition or a continuous multi conic membrane for unlimited all weather cover.

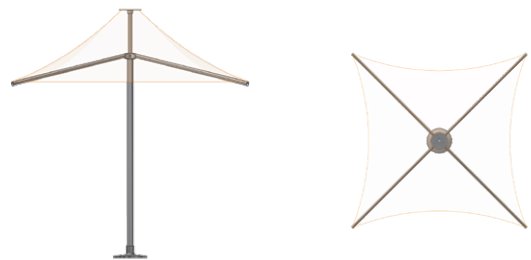
#### Customised to Site:

The Skyspan™ Shade Panorama range provides an opportunity for fully customised solutions.

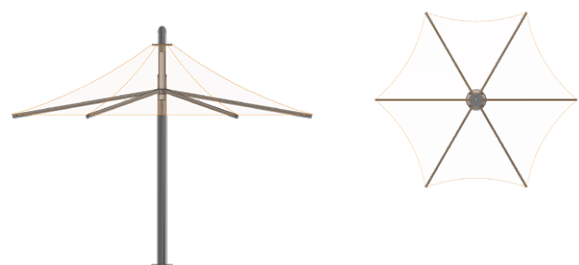
For customised structures, engineer approved drawings are prepared, including detailed footing requirements.

**Square:** Ranging from 1.9 meters to 8.0 meters, offering a versatile solution for various spaces.

**Rectangle:** Available in 4.0m x 3.0m, ideal for covering longer or irregularly shaped areas.



**Hexagonal:** Ranging from 4.4 meters to 5.6 meters, providing a distinctive and spacious coverage option.

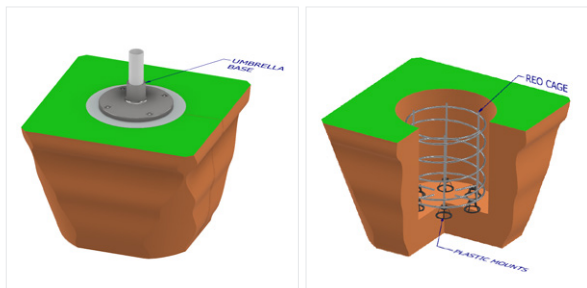


PNG files are available for each shape.



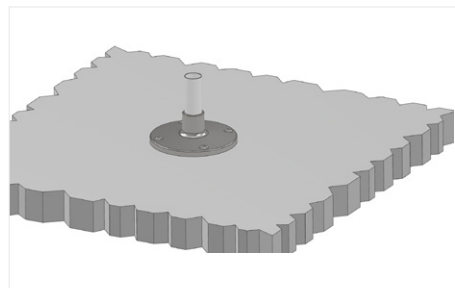
## Installation Footing Options

Prior to the installation of the Skyspan™ Shade structure, footings need to be prepared. There are four different installation options. In-ground, onto an existing (suitably structurally sound) concrete slab, existing deck reinforced with an under-deck plate or a portable base unit (suits a limited range).



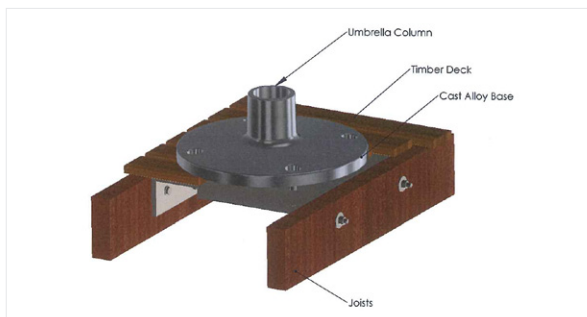
### INGROUND FOOTING

The footing excavation needs to be a minimum of 600mm x 600mm, with a steel cage inserted.



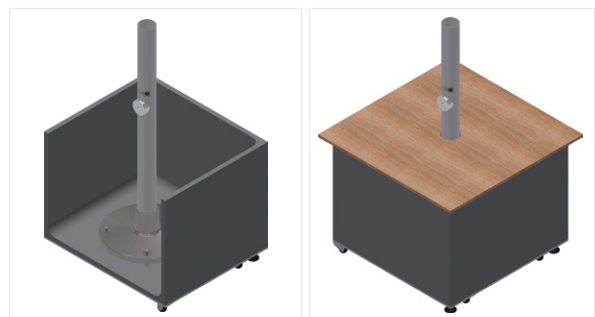
### ON SLAB FOOTING

An existing slab needs to be a minimum of 170mm thick.



### REINFORCED DECK FOOTING

An under-deck plate is used to reinforce existing decking.



### PORTABLE CUBE BASE

A portable base option, known as The Skyspan™ Cube is available for a limited number of models. This is then weighted and a table top cover is installed.

*Footing requirements vary – request GA Drawings for specific requirements of chosen model.*

# Detailed Material Specification

## CANOPY FABRIC DETAILS

The Serge Ferrari Soltis Proof 502 is a highly durable membrane designed for long-term use. This fabric provides excellent protection against the elements and blocks 100% UV rays (UPF 50+ for all colours). It is waterproof, fade-resistant, flame-retardant, and highly reflective of heat.



### Modern satin finish



### Easy maintenance

Reinforced dirt resistance

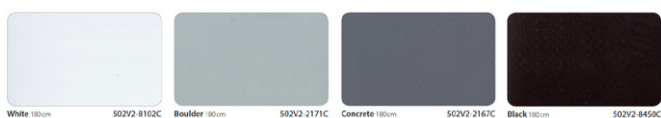


### Dimensional stability

Thanks to Précontraint technology

## Canopy colour selection

A unique satin finish gives a modern, high-end look. The palette of 40 colours offers significant creative freedom for custom designs.



### Metallic colours



Colours shown are not an exact match. Swatches available on request.

## CANOPY FABRIC DETAILS CONTINUED

### Digital Printing

Customisation options (branding, logos, patterns) are available via digital printing.

### Solar and Light Properties

Thermal factors vary per colour. The Ts, As and Rs values are available should this be a consideration in colour selection.

Solar Transmittance (Ts), measuring the proportion of solar energy transmitted through the fabric, Solar Reflectance (Rs), measuring the proportion of solar radiation reflected by the fabric and Solar Absorptance (As), which measures the proportion of solar radiation absorbed by the fabric.

### Performance:

The very smooth finish of the PVDF surface treatment improves dirt resistance. The Soltis Proof 502 offers unfailing resistance for colourful projects.

### Maintenance:


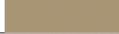
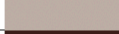








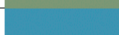



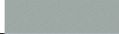
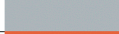






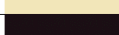



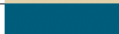
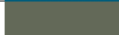
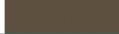









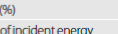
Does not tear or stretch, durably resists UV damage due to the rigorous pigment selection and thicker yarn crest coating than other competing products. The canopy can be washed, but not water blasted.

### Shade Rating:

Soltis Proof 502 blocks 100% UV Ray (UPF 50+ for all colours).

### Shade Rating:

Soltis Proof 502 blocks 100% UV Ray (UPF 50+ for all colours)

		TS	RS	AS
502V2-1125C		6	17	77
502V2-2012C		1	38	61
502V2-2135C		5	61	34
502V2-2137C		0	18	82
502V2-2138C		2	34	64
502V2-2141C		6	49	45
502V2-2148C		1	25	74
502V2-2150C		12	45	43
502V2-2152C		7	38	55
502V2-2156C		1	15	84
502V2-2157C		10	53	37
502V2-2158C		2	36	62
502V2-2160C		5	35	60
502V2-2161C		6	28	66
502V2-2166C		15	58	27
502V2-2167C		1	27	72
502V2-2168C		1	46	53
502V2-2171C		2	51	47
502V2-2172C		14	49	37
502V2-8056C		1	18	81
502V2-8102C		11	80	9
502V2-8204C		16	47	37
502V2-8255C		18	37	45
502V2-8284C		1	18	81
502V2-8341C		11	72	17
502V2-8450C		0	16	84
502V2-8861C		4	65	31
502V2-20185C		2	28	70
502V2-50265C		1	47	52
502V2-50270C		0	16	84
502V2-50668C		1	21	78
502V2-50669C		0	11	89
502V2-50670C		1	22	77
502V2-50671C		4	42	54
502V2-50672C		2	25	73
502V2-50673C		1	18	81
502V2-50674C		10	59	31
502V2-50675C		8	59	33
502V2-50676C		8	47	45
502V2-50677C		7	34	59

TS: Solar Transmission (%)

RS: Solar Reflection (%)

AS: Solar Absorption (%)

TS + RS + AS = 100% of incident energy

Colours shown are not an exact match. Swatches available on request.

## FRAME MATERIALS

Skyspan™ Shade uses both Aluminium and Steel in the frames, dependent on the model selected.

### Aluminium:

Applies to Alfresco, Horizon, Sunset and Typhoon 6351-T6. A high-strength alloy with excellent corrosion resistance is used for the arms.

6005A – T5. A general-purpose alloy with excellent corrosion resistance is used for the columns.

### Mild Steel:

Applies to Vista and Panorama

AS/NZS 1163 & AS 1074 standards @ C350 Grade in a painted finish.





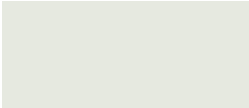








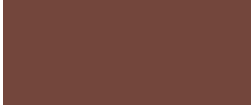
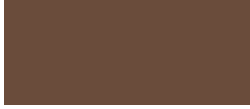
















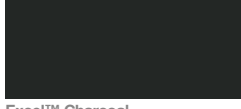

### Powdercoating:

Both aluminium and steel materials have a specialised coating process applied.

Quadpro consists of blasting to class 3, metal spray, prime and coating for corrosion protection.

### Frame Colour Selection:

The Exterior Durable Interpon Excel™ range used for powder coating offers 30 options, which offers significant creative freedom for custom designs.

			
Excel™ Pearl White® Gloss GA029A	Excel™ Domain® Matt GD230A	Excel™ Primrose Gloss GD031A	Excel™ Classic Cream® Matt GD245A <a href="#">Satin</a> GU145A
			
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Excel™ Bushland® Matt GK203A <a href="#">Satin</a> GS103A	Excel™ Wallaby™ Matt GL210A <a href="#">Satin</a> GL111A	Excel™ Deep Ocean® Matt GJ203A <a href="#">Satin</a> GQ103A	Excel™ Monument® Matt GL229A <a href="#">Satin</a> GP129A
			
Excel™ Cove™ Matt GD274A	Excel™ Pale Eucalypt® Matt GK236A <a href="#">Satin</a> GS136A	Excel™ Wilderness® Matt GK289A <a href="#">Satin</a> GS189A	Excel™ Mangrove™ Matt GK277A
			
Excel™ Cottage Green® Matt GK274A <a href="#">Satin</a> GS174A	Excel™ Hawthorn Green Gloss GK030A	Excel™ Heritage Green Gloss GK044A	Excel™ Charcoal Gloss GL035A <a href="#">Satin</a> GL180A
			
Excel™ Night Sky® Matt GN231A <a href="#">Satin</a> GN121A			

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## HARDWARE AND FITTINGS

- Cast Base alloy plates add durability and strength.
- Marine grade 316 stainless steel catenary cables and fittings.
- Concealed gear drive mechanism on retractable models.
- Concealed stainless permitter cable.



## MORE INFORMATION

For more information about Skyspan™ Shade, please contact [sales@skyspanshade.com.au](mailto:sales@skyspanshade.com.au)

We can provide:

- |                           |              |                      |
|---------------------------|--------------|----------------------|
| • GA Drawings             | • PNG Files  | • Spec Sheets        |
| • Installation Guidelines | • Catalogues | • Product Care Guide |

### Case Studies and Examples

To view examples of successful installations in resorts and commercial properties see Showcase on our website [skyspanshade.com.au/showcase/](https://www.skyspanshade.com.au/showcase/)

# Skyspan™ Shade – Integration with your project

Range	ALFRESCO	HORIZON	SUNSET	TYPHOON	VISTA	PANORAMA
<b>SHAPES</b>						
Square	■	■	■	■	■	■
Rectangle		■	■	■	■	■
Hexagonal		■	■	■	■	
<b>WIND RATING</b>						
Up to 60Kmh	■					
W33 up to 118Kph		■	Open		Open	
W41 up to 148Kph			Closed	■	Closed	■
<b>FRAME MATERIAL</b>						
Steel					■	■
Aluminium	■	■	■	■		
<b>FRAME TYPE</b>						
Centre Column	■	■	■	■		■
Cantilever					■	■
Gazebo						■
<b>FEATURES</b>						
Fixed Open		■		■		■
Retractable Fixed			■		■	
Retractable Portable	■					
Perimeter Frame						■
<b>ACCESSORIES</b>						
Blinds						■
Lighting Systems		■	■	■	■	■
Electric Heaters		■	■	■	■	■
Power Points		■	■	■	■	■
Speaker Systems		■	■	■	■	■
Link Panels		■	■	■		■
Corporate Branding	■	■	■	■	■	■
360 Degree Rotational Base					■	
Rain Diverter		■	■	■	■	■
Skyspan™ Cube	■	■	■	■		



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COMMERCIAL UMBRELLAS AND SHADE STRUCTURES

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### Powdercoating:

Both aluminium and steel materials have a specialised coating process applied.

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<b>SHAPES</b>						
Square	■	■	■	■	■	■
Rectangle		■	■	■	■	■
Hexagonal		■	■	■	■	
<b>WIND RATING</b>						
Up to 60Kmh	■					
W33 up to 118Kph		■	Open		Open	
W41 up to 148Kph			Closed	■	Closed	■
<b>FRAME MATERIAL</b>						
Steel					■	■
Aluminium	■	■	■	■		
<b>FRAME TYPE</b>						
Centre Column	■	■	■	■		■
Cantilever					■	■
Gazebo						■
<b>FEATURES</b>						
Fixed Open		■		■		■
Retractable Fixed			■		■	
Retractable Portable	■					
Perimeter Frame						■



Photo credit: Instant Shade

Range	ALFRESCO	HORIZON	SUNSET	TYPHOON	VISTA	PANORAMA
<b>ACCESSORIES</b>						
Blinds						■
Lighting Systems		■	■	■	■	■
Electric Heaters		■	■	■	■	■
Power Points		■	■	■	■	■
Speaker Systems		■	■	■	■	■
Link Panels		■	■	■		■
Corporate Branding	■	■	■	■	■	■
360 Degree Rotational Base					■	
Rain Diverter		■	■	■	■	■
Skyspan™ Cube	■	■	■	■		

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