

# SHADE SAIL

## *PLANNING GUIDE*

Use this guide to help plan, choose and install your Coolaroo shade sail.

Stylish and durable, Coolaroo shade sails transform your outdoor space into a shade sanctuary. Construct the perfect place to enjoy your outdoor area while being protected from damaging UV rays.



## SELECTING COLOUR

Consider your colour scheme. Our colour range has been carefully selected to compliment popular building materials used for domestic housing, such as the COLORBOND® steel colour range.



All colour swatches and images shown have been reproduced to represent actual product colours as accurately as possible.

COLORBOND® steel is a registered trade mark of BlueScope Steel Limited.™ and ® colour names are trade marks of BlueScope Steel Limited.

Achieve the look you are after while meeting your budget and shade requirements - thanks to our extensive shade sail options.

Available in an economical 'Everyday' range and extreme durability, larger span Commercial Grade range.



## SELECTING QUALITY

All Coolaroo shade sails are rated to 95% UV block for optimal protection from the sun and are UV stabilised with superior resistance to fading, mould and mildew. They are each finished with reinforced edges and quality stainless steel fittings to last extended periods outdoors.

There are three types of Coolaroo Shade Sail, designed for optimal performance in differing conditions.

 <p><b>EVERYDAY PROTECTION</b></p>   <p>Quality 205gsm HDPE fabric</p>	 <p><b>COMMERCIAL GRADE</b></p>   <p>High quality 340gsm HDPE fabric</p>	 <p><b>ALL WEATHER FABRIC</b></p>   <p>Proprietary 260gsm Xceltex® treated polyester fabric</p>
<p>5 year warranty</p>	<p>15 year warranty</p>	<p>3 year warranty</p>
<p>95% UV Block</p>	<p>95% UV Block</p>	<p>100% UV block</p>
<p>Allows light and breeze to filter through</p>	<p>Allows light and breeze to filter through</p>	<p>Superior water resistance</p>
<p>UV stabilised stitching</p>	<p>Superior dimensional stability and durability</p>	<p>UV stabilised stitching</p>
<p>Mould &amp; mildew resistant</p>	<p>UV stabilised stitching</p>	<p>Mould &amp; mildew resistant</p>
<p>Available in Beech, Slate &amp; Graphite</p>	<p>Mould &amp; mildew resistant</p>	<p>Available in Charcoal &amp; Desert Sand</p>
<p>Available in Beech, Slate, Graphite, Stone</p>	<p>Available in Beech, Slate, Graphite, Stone</p>	<p>Available in Charcoal &amp; Desert Sand</p>
		

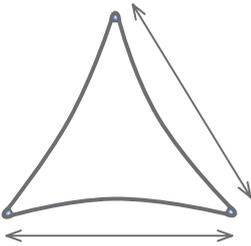
Be creative and combine two or three shade sails to cover an irregular space. Achieve a designer look to your outdoor area while providing a greater expanse of shade.



## SELECTING SHAPE & SIZE

Coolaroo shade sails are available in triangle, square and rectangle shapes in sizes from 3m to 6.5m to suit most domestic installation requirements.

### TRIANGLE



#### Available sizes :

3m x 3m x 3m

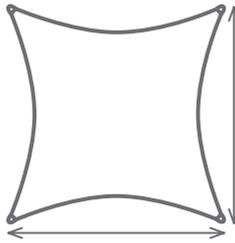
3.6m x 3.6m x 3.6m

5m x 5m x 5m

6.5m x 6.5m x 6.5m



### SQUARE



#### Available sizes :

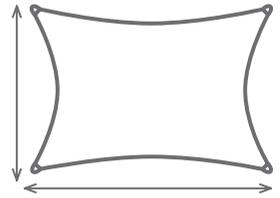
3m x 3m

3.6m x 3.6m

5.4m x 5.4m



### RECTANGLE



#### Available sizes :

5m x 3m



Once you've narrowed down your selection, follow our installation guide to work out next steps and determine what else you may need.



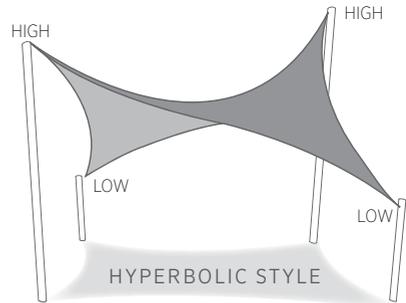
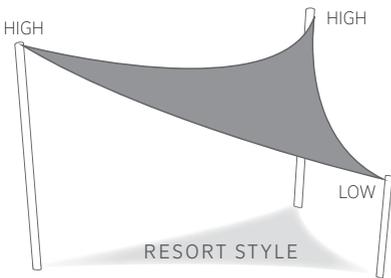
## INSTALLATION OVERVIEW

### INSTALLATION STYLE

Shade sails can be mounted in a variety of ways, and a good design not only provides longevity but also provides a striking look to your outdoor area.

**Resort Style** (Triangle Sails): For a resort style effect fix one corner lower than the other two.

**Hyperbolic Style** (Square and Rectangle Sails): For a hyperbolic style you will need to construct your square or rectangle sail with two diagonal corners fixed at higher points than the remaining two diagonal corners.

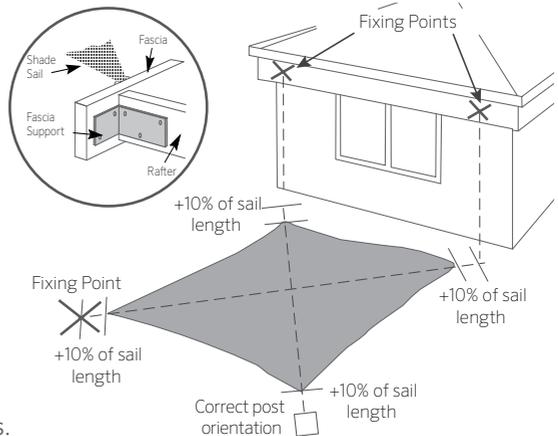


### FIXING POINTS

Ensure all fixing points are structurally sound.

Lay the sail out in the area it is to be installed and allow an additional 10% of the sail length on each corner for accessories and fabric stretch. If installing posts factor in additional distance at the fixing point due to the 10° outward tilt required for each post. Confirm this before digging your post holes.

If attaching to a fascia use a fascia support to transfer the load to the primary roof structure. These are available from most hardware stores.



Before beginning your installation it is important that you consider workable space, direction and angle of the sun at various times of the day, strength of any existing anchor points, location of barbecues, pipes, cables etc.



## Post Supports

Galvanised steel or treated pine are acceptable post materials. Use the TABLE 1 to determine the most suitable pole size and footing for your installation.

Sail Type (m)	Sail Fixing Height (m)	Treated Timber Post (mm)	Square Steel Post (mm)	Footing (mm)	Post Length (m)
<b>Triangle Sails</b>			<b>Diam. = 450mm</b>		
3 x 3	2	125/F17	100 x 3	800	2.9
	2.5	125/F17	100 x 3	900	3.5
	3.5	150/F17	100 x 4	1200	4.8
	2	150/F17	100 x 3	800	2.9
3.6 x 3.6	2.5	150/F17	100 x 3	900	3.5
	3.5	150/F22	100 x 4	1200	4.8
	2	150/F22	100 x 3	900	3.0
5 x 5	2.5	150/F22	100 x 3	900	3.5
	3.5	200/F22	100 x 4	1200	4.8
	2	200/F22	125 x 4	900	3.0
6.5 x 6.5	2.5	200/F22	125 x 4	900	3.5
	3.5	200/F27	125 x 5	1200	4.8
	<b>Square Sails</b>			<b>Diam. = 450mm</b>	
3 x 3	2	150/F17	100 x 3	800	2.9
	2.5	150/F17	100 x 3	900	3.5
	3.5	150/F22	100 x 4	1200	4.8
3.6 x 3.6	2	150/F17	100 x 3	800	2.9
	2.5	150/F17	100 x 3	900	3.5
	3.5	150/F22	100 x 4	1200	4.8
5.4 x 5.4	2	150/F22	100 x 3	0.9	3.0
	2.5	150/F22	100 x 3	0.9	3.5
	3.5	200/F22	100 x 4	1.2	4.8
<b>Rectangle (All Weather) Sail</b>			<b>Diam. = 450mm</b>		
5 x 3	2	150/F17	100 x 4	1.1	3.2
	2.5	200/F17	125 x 4	1.2	3.8
	3.5	200/F22	125 x 5	1.4	5.0

TABLE 1

To enable suitable water run-off the height difference from the low points to the high points should be at least 16% of the longest side (20% for All Weather Fabrics). Reference TABLE 2.

<b>Regular Shade Fabric</b>		<b>All Weather Fabric</b>	
Longest Side	Height Diff.	Longest Side	Height Diff.
3m	0.5m	3m	0.6m
3.6m	0.6m	3.6m	0.7m
5m	0.8m	5m	1m
5m	0.8m	5m	1m
5.4m	0.9m	5.4m	1.1m
6.5m	1.0m	6.5m	1.3m

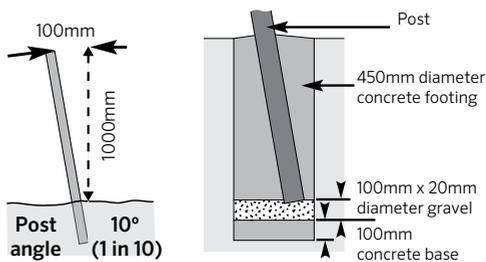
TABLE 2

## Installing Posts

Pour 100mm depth of concrete at the bottom of the hole to provide a solid pad and allow to set.

With the posts tilting on a 10° angle (1 in 10), away from the centre of the sail, add 100mm of 20mm diameter gravel and temporarily brace it into position.

Pour concrete to the top of the footing hole and ensure it is packed well.



When installing your shade sail ensure you use the right fixing accessories for a strong connection that will last the test of time.



## ATTACHING THE SAIL

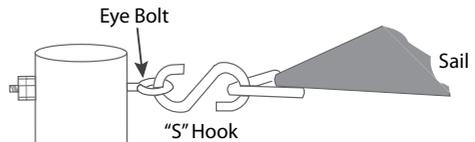
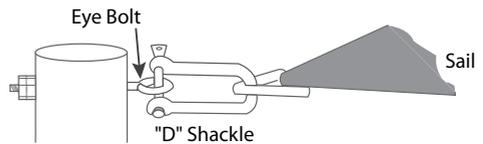
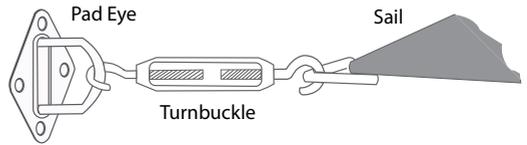
Ensure all fixing points are structurally sound and fixings are tightly secured.

Ensure that at least two of the sail's fixing points include a turnbuckle for tensioning purposes. A Coolaroo Strap Tensioning Tool will assist in drawing the shade sail toward the post for easier connection.

You can also use chain to extend your shade sail to a fixing point, if required.

Select the fixing accessories that best suit your installation.

Stop tensioning when the shade sail is rigid with little or no creases and does not sag. Avoid over-tensioning as this will put unnecessary stress on fabric and stitching.



## Coolaroo Shade Sail Accessories

### ANCHORS



**PAD EYE:**  
For wall or post attachment



**EYE BOLT:**  
For post attachment



**'D' SHACKLE:**  
Use to connect all shade sails



**'S' HOOK:**  
Use to connect small sails



**SNAP HOOK:**  
Use to connect small to medium sails

### TENSIONING DEVICES



**TURNBUCKLE:**  
Use to connect and tension for all sails



**STRAP TENSIONER:**  
For temporary tensioning



This information is to be used as a guide only. Installation requirements can vary depending on factors such as soil types, anchor points, wind conditions, local planning and building regulations etc. Before commencing your installation you should consult a qualified builder or engineer and contact your local council to ensure you are meeting all structural and legal requirements for a safe and long-lasting shade structure.

### **WARNINGS**

- DO NOT expose your shade sail to harsh cleaners and chemicals such as chlorine as this can lead to the premature breakdown of the fabric.
- DO NOT put the fabric in your washing machine, clothes dryer, or scrub it with a stiff brush, scouring pad or an abrasive cleaner.
- DO NOT have fire or open flame close to your shade sail. DO NOT position a barbecue under your shade sail.
- AVOID leaving your shade sail installed during periods of strong winds. Temporarily remove your shade sail if windy conditions are expected.
- DO NOT position climbable objects within a distance that will enable the canopy to be accessed by people. Shade sail structures are not intended for climbing or carrying weight.

### **EFFECTIVE UV PROTECTION**

While creating a shade environment goes a long way towards protecting yourself from harmful UVR it should not be used as the sole source of sun protection. UVR can penetrate through many objects that cast a shadow and can also reflect off surfaces such as sand, water and snow. For this reason it is important to follow sun smart guidance from the Australian Cancer Council in always wearing sun protective clothing (including a hat and sunglasses) and applying appropriate sunscreen, when spending time outdoors. This will ensure the most effective protection for your skin.

### **CARE INSTRUCTIONS**

Inspect your shade sail regularly and re-tension as necessary to remove any slack.

Your shade sail(s) may be cleaned at any time using a solution of mild detergent and water. Apply the solution with a sponge or a very soft brush. Let the solution stand on the fabric for 10 minutes and then rinse thoroughly with water from your garden hose.

[coolaroo.com](http://coolaroo.com)

Gale Pacific Limited  
145 Woodlands Drive, Braeside,  
Victoria, 3195 Australia  
Australia Toll Free: 1800 331 521  
New Zealand Toll Free: 0800 555 171  
United States: +1 407 772 7900

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