Coolaroo®

SHADE SAIL

INSTALLATION INSTRUCTIONS

Before beginning your shade sail installation it is very important that you consider various factors to ensure the success of shading the desired area. Take into account the following:

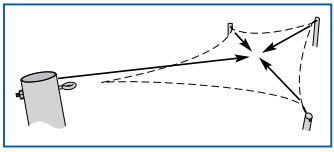
- Size and shape of the shade sail/s
- Direction and angle of the sun
- Strength of the existing structures intended to be anchor points
- Ability to insert fixing posts
- Location of barbecues, electrical/telephone cables, water and sprinkler pipes, etc.

These instructions are to be used as a guide only. Installation requirements can vary depending on factors such as soil types, anchor points, wind conditions in your region, etc. Gale Pacific accepts no responsibility for installation requirements, please consult a qualified builder or engineer.

BUILDING APPROVAL

Prior to installation, check with local authorities for any relevant building regulations which may exist.

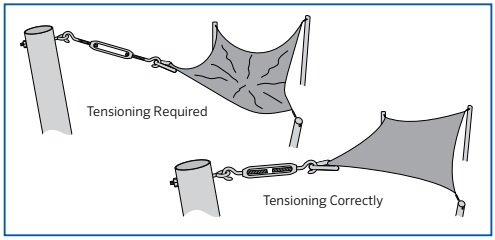
FOR PERMANENT INSTALLATIONS

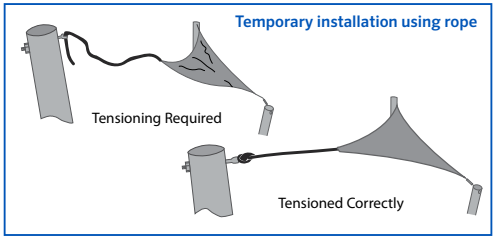


Connect fixing accessories to mounting points as required. Ensure all accessories face towards the middle of the sail and are tightly secured.

Tensioning

Connect all points, using a strap-tensioning tool if necessary to gain increased leverage. Stop tensioning when the shade sail is rigid with little or no creases and does not sag. The tighter the sail the less movement and less movement means longer life of the sail.

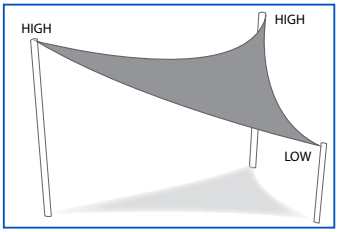




POSSIBLE SAIL CONSTRUCTIONS

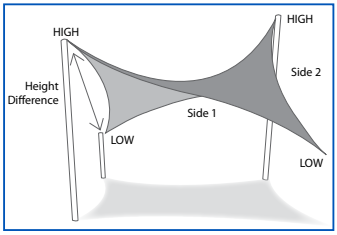
Resort Style (Triangle Sails)

For a resort style effect select the fixing accessories that best suit your installation.



Hyperbolic Style (Square and Rectangle Sails)

For a hyperbolic style we recommend you construct your sail with two diagonal ends at a high point and the other two ends at diagonal points. Creating a hyper shape is important for tensioning and taking sag out of the centre of the sail.



When establishing your sail's lower points, make sure they are suitable for 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). Refer table below.

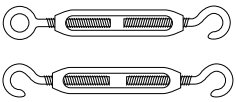
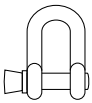
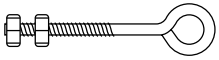
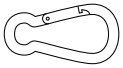
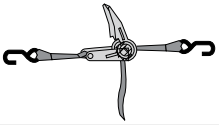
Regular Shade Fabric			All Weather Fabric		
Side 1	**Side 2**	**Height Diff.**	**Side 1**	**Side 2**	**Height Diff.**
3m	3m	0.5m	3m	3m	0.6m
3.6m	3.6m	0.6m	3.6m	3.6m	0.7m
5m	3m	0.8m	5m	3m	1m
5m	5m	0.8m	5m	5m	1m
5.4m	5.4m	0.9m	5.4m	5.4m	1.1m

SELECTING FIXING ACCESSORIES

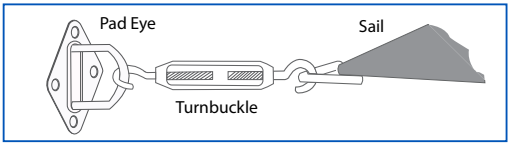
Select the fixing accessories that best suit your installation.

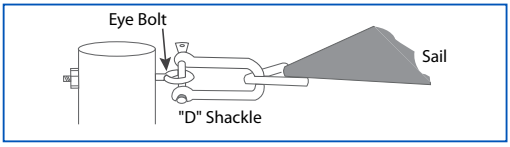
Important: At least TWO of the sail's fixing accessories must be tensioning devices.

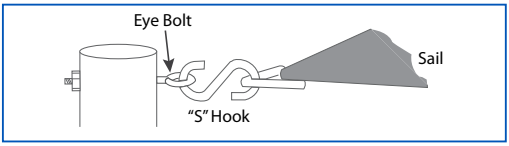
A rope or chain can be used to extend your shade sail to a fixing point if required.

	**TURNBUCKLE:** to attach Shade Sail corner ring to a fixing point and provide tension on the Shade Rail
	**"D" SHACKLE:** Use to link Shade Sail corner to Pad Eye or Eye bolt
	**PAD EYE:** To attach shade Sail corner ring to a wall in conjunction with "D" Shackle
	**"S" HOOK:** Use to link Shade Sail corner to Pad Eye or Eye Bolt
	**EYE BOLT:** To attach Shade Sail corner ring through a timber stud, steel pole or solid support
	**SNAP HOOK:** Used to link Shade Sail corner to Pad Eye or temporary use
	**STRAP TENSIONER:** Used to apply tension to Shade Sail during installation

Some possible combinations of fixing accessories:





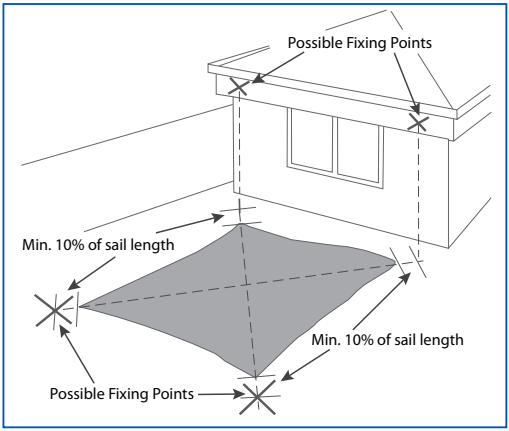


DETERMINING FIXING POINTS

Once you have identified the location for your shade sail/s it is important to determine the most suitable fixing points for the sail's corners. Some of these fixing points could already exist. (E.g. pergola, sundeck, large tree, building fascia).

Important: Ensure all fixing points are structurally sound and if unsure about fixing points, obtain independent advice from a builder or engineer. A minimum fixing height of 2.4m (7'10") is suggested.

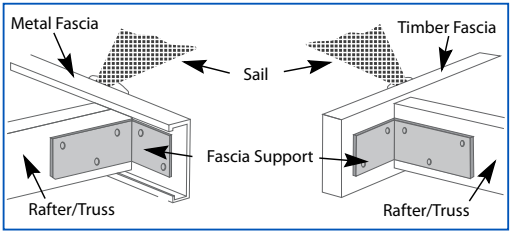
Layout the sail in the area where it is to be erected to determine suitable fixing points. Allow a minimum of an additional 10% of the sail length between each fixing point and the end of the sail's fixing accessory for proper tensioning.



EXISTING SUPPORTS

Attaching to Fascia

If you intend to fix your shade sail to a facia, the use of a Facia Support is strongly recommended. The Facia Support is used to connect the overhangs of rafters or trusses to facias giving strong connection between the two and improving strength. Fascia supports are available from your local hardware store.



Attaching to Trees

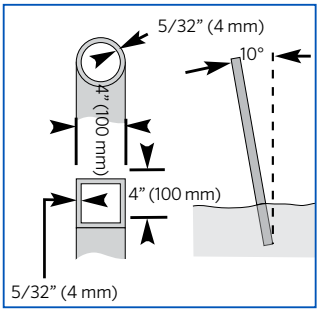
We recommend that the fixing of shade sails to trees be for TEMPORARY USE ONLY. The diameter of the tree where the sail will be fixed must be at least 250mm (9.75”).

ADDITIONAL SUPPORTS

Steel Posts

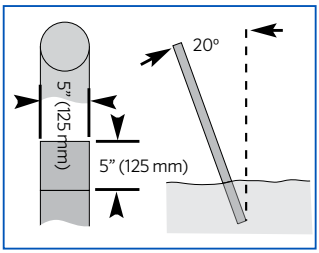
If additional posts are required, galvanized steel posts are suitable and are available from your local hardware store.

Steel posts can be cut to predetermined lengths and painted to a color of your choosing. We recommend the use of a minimum 250mm (4”) diameter round or 250mm (4”) square galvanized steel posts with at least 3mm (1/8”) thickness. An angle of at least 10 degrees is also recommended for steel posts sloping away from the center of the sail.



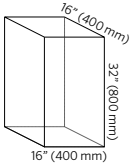
Timber Posts

We recommend the use of a minimum of 125mm (5”) diameter treated timber posts. An angle of at least 20 degrees is recommended for timber posts sloping away from the centre of the sail. Consult your local hardware outlet for the appropriate class of treated pine or hardwood timber for your region.

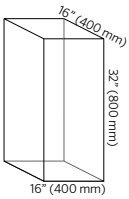


FOOTINGS

Dig footings with the center of the hole as the approximate location point of the sail. Dig footing holes as illustrated. Consult your local hardware outlet for the appropriate design of footing.



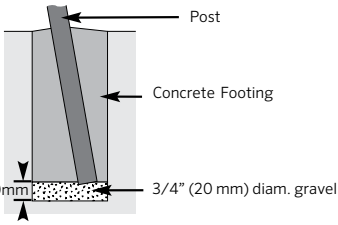
For sails with sides less than 3.6m, dig footing holes 400mm square and 800mm deep.



For sails with sides 5m or larger, dig the footing holes 400mm square and 1,200mm deep.

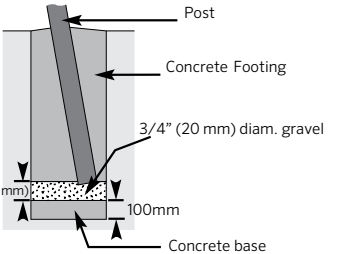
Firm Ground

Pour a (100mm) 4” depth of concrete at the bottom of the hole to provide a solid pad. Allow to set. Add gravel, post and the required amount of concrete. Temporarily brace the posts on angle.



Soft Ground

Pour a 100 mm (4”) layer of concrete at the bottom of the hole in order to provide a solid base. Allow the concrete to set. Add the gravel and the post, and pour the required amount of concrete. Temporarily brace the post at an angle.



Concreting

Mix concrete in line with manufacturer’s instructions. It is not recommended to use rapid set concrete. Your local hardware outlet will be able to give you any special advice you may need for your conditions.

Pour concrete to the top of the footing holes ensuring it is packed well. Crown the concrete around the post so that the sloping away from the post will drain water away. Ensure water will not pool at the base of the post as it may cause deterioration of the post. You may want to allow space at the top of the footing if you are replacing with dirt and grass.

Allow poles to set in concrete for a minimum of 48 hours or time as required by the manufacturer’s instructions. Brace if required to ensureproper angle.

Coolaroo®

The best under the sun

Coolaroo is the leader in shade fabric technology. Our extensive range of attractive shade solutions is carefully manufactured to protect your home, garden and family from the harsh sun.

coolaroo.com.au

WARNING

Your Coolaroo Shade Sail is designed to provide UV protection and comfort in domestic areas. When selecting the position for your Shade Sail, ensure all fixing points are structurally sound and fixings are tightly secured. Inspect regularly. Prior to installing, consult your local council/authorities regarding building regulations which may apply in your area. Exposure to certain chemicals, e.g. Chlorine, can lead to the premature breakdown of the fabric. Chemicals to be used on or around the fabric should be referred to Coolaroo regarding their use. Do not have fire or open flame close to fabric. Do not use your barbecue under the shade structure. Temporarily remove your Coolaroo Shade Sail while strong wind conditions exist.

CARE INSTRUCTIONS

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. DO NOT put the fabric in your washing machine, clothes drier, or scrub it with a stiff brush, scouring pad, or an abrasive cleaner.

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