



SHADE SAIL

INSTALLATION INSTRUCTIONS



BUILDING APPROVAL

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

SUITABLE LOCATION

Before you commence installation it is very important that you consider the most suitable location for your shade sail/s. Take into account the following:

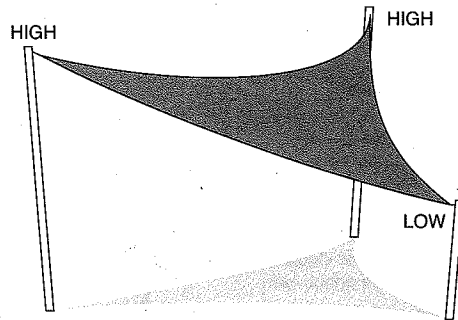
- Size of the shade sail/s
- Strength of existing structures intended to be anchor points.
- Ability to insert fixing posts
- Location of barbecues, sun direction, high wind areas, electrical/telephone cables, water pipes, etc

There could be other factors, specific to your situation, which may require consideration.

POSSIBLE SAIL CONSTRUCTIONS

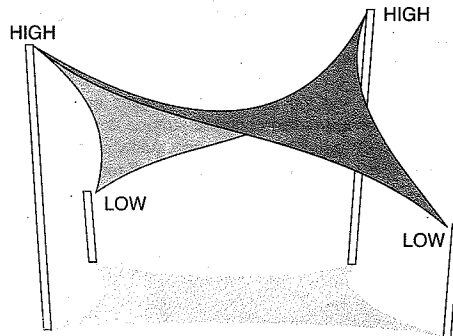
Resort Style (Triangle Sails)

For a Resort style effect we recommend you construct your triangle sail with one end at a low point and two ends at higher points.



Hyperbolic Style (Square 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 lower points.



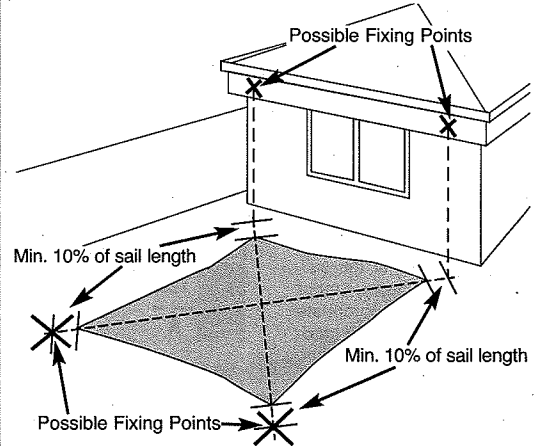
When establishing your sails lower points, make sure they are suitable for water run-off.

DETERMINING THE CORRECT 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, fence post or fascia).

This stage of installation is critical. You should ensure all fixing points are structurally sound and if unsure about fixing points, obtain independent advice from a builder or engineer. A fixing height of at least 2.4m is suggested.

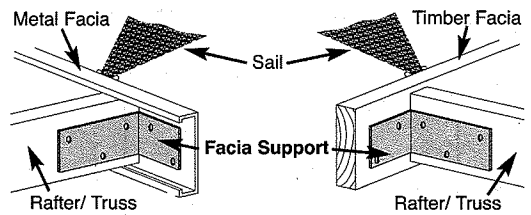
In area to be erected layout sail in a relaxed state to determine suitable fixing points. Allow a minimum of an additional 10% of sail length between each fixing point and the end of the Sail's fixing accessory for tensioning.



EXISTING SUPPORTS

Attaching to Fascia

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



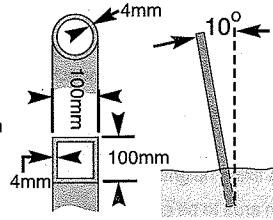
Attaching to Trees

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.

ADDITIONAL SUPPORTS

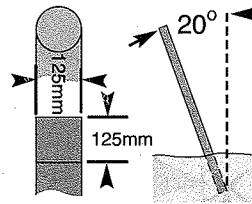
Steel Posts

If additional posts are required, galvanized steel posts are suitable and are available from either your hardware outlet or steel supplier. Steel posts can be cut to predetermined lengths and painted to a colour matching your shade sail and environment. We recommend the use of a minimum 100mm diameter round or 100 x 100mm square galvanized steel posts with at least 4mm thickness. An angle of at least 10 degrees is also recommended for steel posts sloping away from the centre of the sail.



Timber Posts

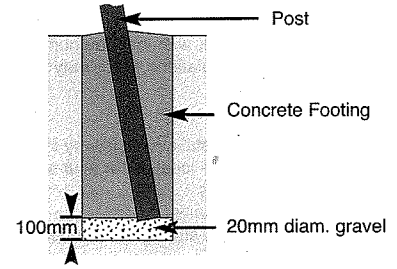
We recommend the use of a minimum of 125mm diameter treated timber posts. An angle of at least 20 degrees is also recommended for timber posts sloping away from the centre of the sail. Consult your local timber merchant for the appropriate class of treated pine or hardwood timber for your region.



(FOOTINGS CONT.)

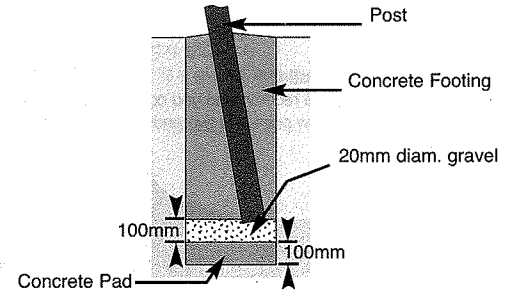
Firm Ground

Lay a 100 mm (4") depth of 20mm (3/4") diameter gravel at the base of the post. Add concrete and brace post on angle.



Soft Ground

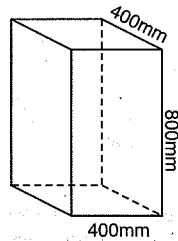
Pour a 100mm (4") depth of concrete at the bottom of the hole to provide a solid pad. Allow to set. Add gravel, post and the required amount of concrete. Temporarily brace the posts on angle.



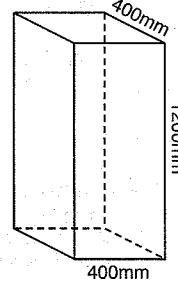
FOOTINGS

Dig footings with the centre of the footings as the approximate location point of the sail. Dig footing holes as illustrated.

For our 3.6m sails dig footing holes 400mm square and 800mm deep.



For our sails 5m or over dig footing holes 400mm square and 1200mm deep.



CONCRETING

Mix concrete in line with manufactures instructions. These will be labelled clearly on the packet. Rapid Set concrete is not recommended. Your local concrete supplier will be able to give you any special advice you may require for your own conditions.

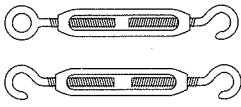
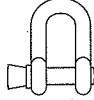
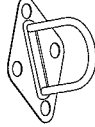

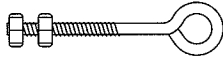
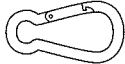
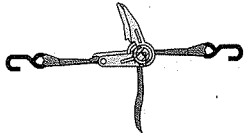
Pour concrete to the top of the footing holes ensuring it is packed well. Make sure the concrete surface is sloping away from the posts to assist water drainage. Allow poles to set in concrete for a minimum of 48 hours. Brace if required.

SELECTING FIXING ACCESSORIES

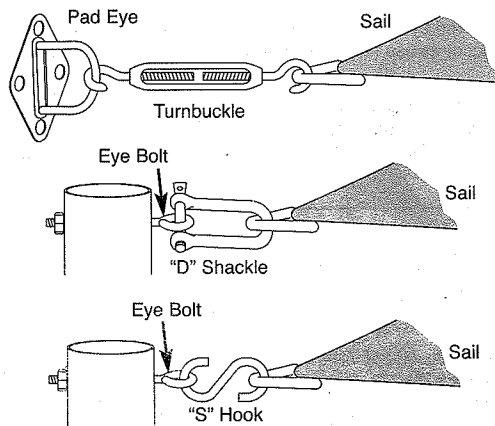
Choose from the range of Coolaroo fixing accessories available to secure your shade sail(s).

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. Select the fixing accessories which best suit your own installation.

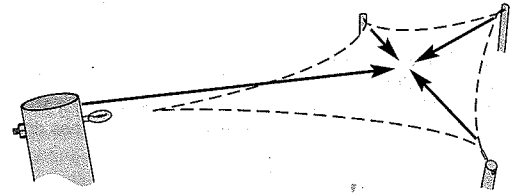
	TURNBUCKLE: To attach Shade Sail corner ring to a fixing point and provide tension on the Shade Sail.
	"D" SHACKLE: Use to link Shade Sail corner to Pad Eye or Eye Bolt.
	PAD EYE: To attach Shade Sail corner ring to a wall in conjunction with "D" Shackle.
	"S" HOOK: Use to link Shade Sail corner to Pad 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:



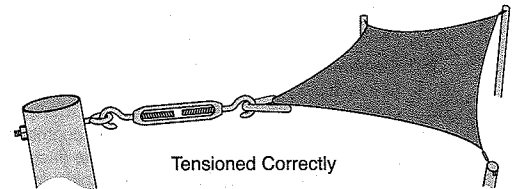
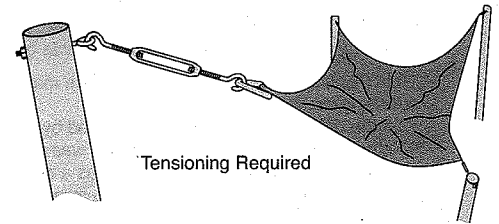
CONNECTING SHADE SAIL

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.



DISCLAIMER

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 installations. If you are unsure about your specific installation requirements, please consult a qualified builder or engineer.

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.

PRODUCT WARRANTY AND LIMITATION OF LIABILITY

If, as a direct result of ultra-violet exposure, this product cracks, splits or tears ("defect") within 10 years after the date on which the product is purchased from Gale Pacific Limited ACN 082 263 778 ("Gale Pacific") or an authorised distributor or agent of Gale Pacific, Gale Pacific will, at its option, replace the product (but not any other component) free of charge or refund the cost of such replacement. This warranty is subject to the following conditions and limitations:

1. All claims under this warranty must be made in writing addressed to Gale Pacific Limited, PO Box 892 Braeside, Victoria, 3195, Australia or, if the product was purchased in North America, to Gale Pacific Inc, PO Box 161268, Altamonte Springs, Florida 32716-1268, USA. All claims must be accompanied by a sample of the fabric for laboratory testing and proof of place and date of purchase of the product.
2. Gale Pacific will not be liable for any claim made under this warranty in respect of any product in any of the following circumstances:
 - If the defect is contributed to or caused by any improper use of the product or usage of the product for purposes other than that for which the product was designed or intended.
 - If the defect occurs wholly or partly as a result of any act or omission of any person other than Gale Pacific.
 - If the product has been subjected to misuse, neglect, accident or abuse.
 - If the product is altered or modified in any way unless such modification has been approved in writing by Gale Pacific.
 - If the product is erected, installed or used in violation of, or in a manner that is inconsistent with instructions or warnings furnished by Gale Pacific.
 - If domestic knitted shade cloth is used for any purpose other than domestic applications.
3. This warranty does not cover:
 - Colour fading of the product (even if due to exposure of the product to ultra-violet rays) or a deterioration in the chemical composition of the fabric due to exposure to ultra-violet rays; or
 - Any damage to the product caused or contributed to by exposing the product to chemicals (including chlorine), placing the product near an open flame (including flames from a barbecue), tensioning the product beyond its tear and tensile capabilities or mechanical friction.

In addition to the above warranty, the Trade Practices Act 1974 (Cth) and other state and territory legislation may imply warranties or conditions or impose liability on Gale Pacific in relation to the product or its supply which cannot, or can only to a limited extent, be excluded, restricted or modified. Except for those implied warranties or conditions and such liability, and for the warranty described above:

- All warranties and conditions (whether express or implied, statutory or otherwise) relating to the product or its supply are expressly excluded; and
- Gale Pacific will not be liable for any loss or damage suffered by any person (including the purchaser of the product) in any way relating to or arising from the product or its use (including loss or damage arising from the negligence of, or contributed to by, Gale Pacific).

If liability for breach by Gale Pacific of a warranty or condition or any other liability imposed on Gale Pacific by legislation which cannot be excluded may be limited, Gale Pacific's liability is limited to the extent permitted by law, and if liability may be limited in any one of a number of ways, Gale Pacific's liability is limited in any one of the permitted ways chosen by Gale Pacific in its absolute discretion.

Gale Pacific Limited.

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