



## *all*weathersail

Protection all year round

Installing your new Coolaroo  
all weather sail is simple, following  
our step-by-step instructions.

### Features

- Provides 100% UV block
- Water resistant
- Made with UV stabilised knitted fabric for greater strength & durability
- Resists mould & mildew
- 3 year warranty
- Perfect for sun & rain

Available in:

- 5 x 3m - charcoal & desert sand
- 3 x 3m - charcoal & desert sand

These instructions are recommendations only, please consult an engineer if necessary.



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



**BEFORE  
YOU  
START**

### Building approval

It is important to check prior to installation for any relevant building regulations with your local authorities (council).

## Wind loads and resistance

The Coolaroo all weather sail has been tested and approved for installation in the following areas:

- Terrain categories 2 (open country) and 3 (urban)
- Regions A, B and C

In region D which covers the 50km wide strip of coastline between 20°S and 25°S in Western Australia, the Coolaroo all weather sail must only be used in urban areas with shielded locations (i.e. adjacent to a building). These conditions were tested on the fabric only.

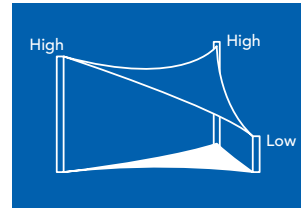
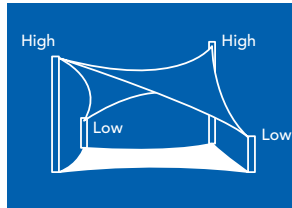
## Selecting the location

Before installing your all weather sail consider what your needs are. Factors which should be taken into account are:

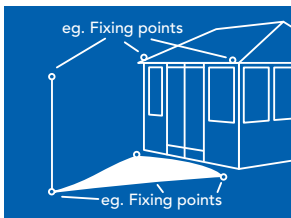
- Strength of existing structures intended to be anchor points
- Ability to insert fixing posts
- Location of barbecues
- Sun direction
- There could also be other factors, specific to your situation, which require consideration

## all weather constructions

*NOTE: It is important when deciding on the positioning of the sail lower point, that the slope of the fabric will allow good water run-off. Water which is allowed to pond on the sail will lead to premature sail failure and may lead to structural failure at fixing points. It is recommended to have the shade sail on a 20 degree + slope.*



## Determining suitable fixing points



After deciding on the location of your Coolaroo all weather sail it is important to identify structurally suitable fixing points for the sail corners. This stage is critical. Your sail will be under significant tension and as such fixing points need to be strong. It is recommended that the fixing height be at least 2.4m from the ground on 2 of the sides.

If using existing fixtures, such as side fascia or the roof of your house, be sure to check the structure carefully to ensure it can bear the load. If unsure about the most suitable fixing points, obtain independent advice from a qualified builder or engineer.

After identifying the most suitable fixing points, lay the sail out on the ground in the proposed position to confirm the positioning is workable. It is recommended to allow 1% of the sail length between each fixing point and the corner D Rings for tensioning. Consider using stainless steel chain to reach certain fixing points.

There is an extensive range of Coolaroo fixing accessories available to help you secure your sail.



Turnbuckle



Tension Strap



Eye Bolt



Pad Eye



Shackle

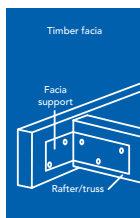
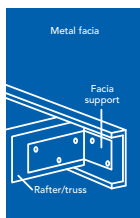


S Hook



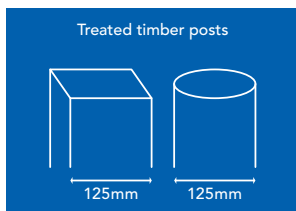
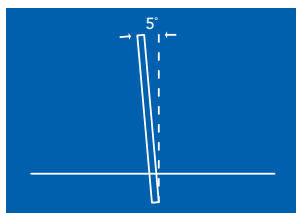
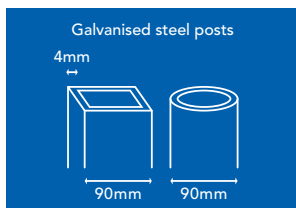
Snap Hook

## Utilising existing supports



If you intend to fix your sail to a fascia, the use of a fascia support is strongly recommended. The fascia support will reinforce the overhangs of rafters or trusses and provide a stronger connection between the two with improved strength. Fascia supports are available from your local hardware centre.

*NOTE: It is not recommended to use a tree for a sail fixing due to the overall strength required.*



## Posts

If additional posts are required it is recommended to use galvanised or painted posts to prevent rust. Steel posts are available from your local hardware centre or steel supplier, and can be cut to predetermined lengths and colour matched to your sail and environment.

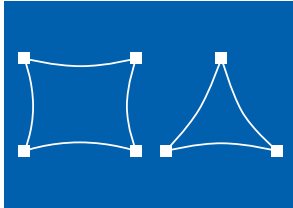
It is recommended to use a round steel post with a minimum diameter of 90mm, or a 90x90mm square steel post. Post wall thickness should be a minimum of 4mm.

Alternatively, the use of treated softwood (H5 level treatment) or Hardwood of durability Class 1 is also suitable. The timber post should be a minimum 125mm in diameter. Your local timber supplier can assist you in your selection.

Post lengths should be calculated taking into account the proposed height of your sail plus the depth of your footings.

It is advisable to lean posts at an angle of 5 degrees, sloping away from the centre of the sail for additional support.

## Footings for all weather sail

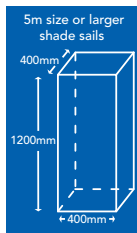
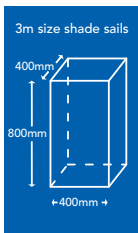


All posts should be embedded in concrete footings with a minimum 20 MPa.

Measure out centres of the footing positions and mark as illustrated.

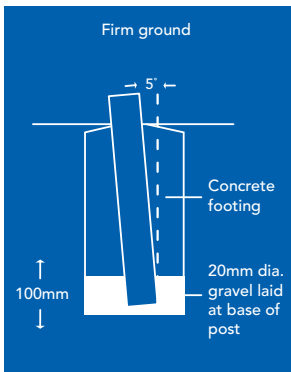
Dig holes to the required size for your posts height, using the centre of the footing as the approximate locations of the point of the sail.

- For a 3m size sail dig footing holes 400mm square and 800mm deep
- For a 5m or larger sail dig footing holes 400mm square and 1200mm deep



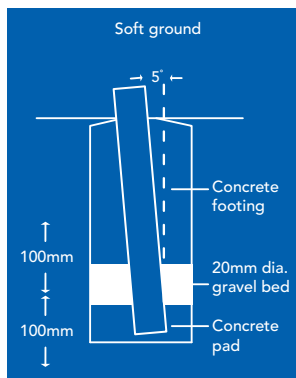
Conditions vary for different environments; if unsure of the concrete type best suited to your area contact your local concrete supplier. Mix the concrete to the manufacturer's instructions, these should be clearly labelled on the packet.

## Firm ground



If installing your post in firm ground, lay a 100mm (4") depth of 20mm (3/4") diameter gravel at the base of the post. Position the post at a 5 degree angle, sloping away from the centre of the sails position and add the required amount of concrete. Temporarily brace the posts until concrete is fully cured.

## Soft ground



If installing your shade post into soft ground firstly pour a 100mm (4") depth of concrete into the hole and allow to set completely. Add a gravel bed, 100mm (4") in depth. Position the post at a 5 degree angle, sloping away from the centre of the sails position and add the required amount of concrete.

Temporarily brace the posts until concrete is fully cured.

## all weather connection

Connect fixing accessories to mounting points as required.

Ensure all connections face towards the middle of the sail and are tightly secured.

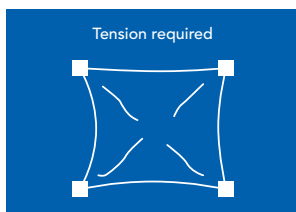
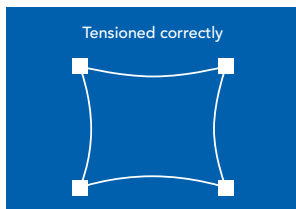
Check again to ensure all mounting points are solid.

Lay your sail out to commence installation.

It is important to note that your sail will require at least two of the accessories to be tensioning devices. If required, stainless steel chain can be used to extend your shade sail corner to a fixing point.

Connect the shade sail to the fixing accessories, leaving one of the tensioning fixing points to last for connection. If necessary, to gain increased leverage use a Coolaroo strap tensioner.

## Tensioning your all weather sail



Once all corners of the sail have been connected, adjust the tension with fixing accessories.

Stop tensioning when the sail is rigid with little or no creases, the Coolaroo strap tensioner can be used to assist in tensioning the sail. A sail which has been mounted and tensioned correctly will have little to no creases.

**CAUTION:** Do not over tension, tension only by hand, and only tight enough to remove creases. Over tensioning can cause damage to your shade sail.

Your sail should be firm and tight to reduce windflap.

Re-tension periodically if required.

### Warning

Prior to installing, consult your local council regarding building regulations which may apply in your area. Your Coolaroo all weather sail is designed to provide 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. Exposure to certain chemicals (e.g. Chlorine) can lead to the premature breakdown of the fabric. If chemicals are to be used on or around the fabric, we recommend you contact Coolaroo prior to their application.

Do not have fire or an open flame close to the fabric. Do not use your barbecue under the shade structure.

### Care Instructions

Your Coolaroo all weather sail 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 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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