



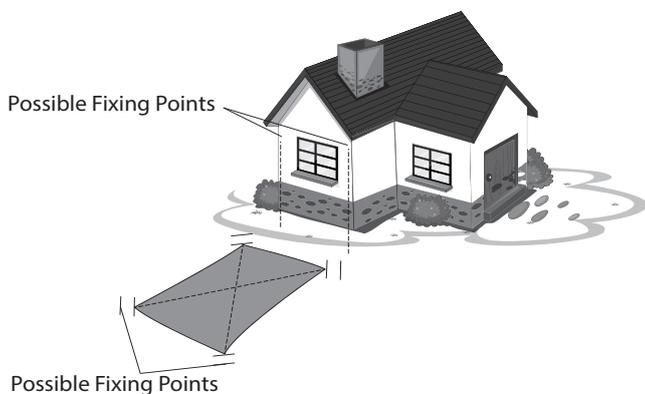
KALAHARI PERMANENT SHADE SAIL INSTALLATION GUIDE:

Prior to installation:

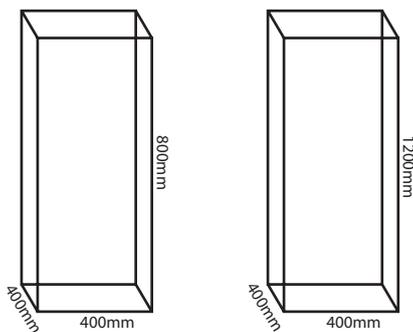
Please contact the local council to establish if any relevant building regulations exist. There may be other regulations that you need to adhere to, if you reside in a complex or a block of flats.

Positioning of the shade sail and establishing fixing points?

When considering the position of the shade sail, it is most often decided by the proximity of available fixing points. It is beneficial to use existing structures to install shade sails, as this prevents the installation of poles. The fixing points must, however, be structurally secure. A wall or pillar that is part of a brick building is the best fixing point. Should you consider using the fascia (which we do not recommend), please ensure that fascia supports are used in the installation. A tree is a good fixing point for temporary shade sails but not permanent installations. (Tree width should be at least 250mm)



Once you have determined pre-existing fixing points that can be used, you may find that you need to install posts as additional fixing points. For the installation of posts, you need to allow enough space around the location of the post. A footing of 400mm x 400mm with a depth of 800 to 1200mm will be required.



Please also keep in mind that shade sails need to be tensioned and one must allow for 10% of the shade sail length, between the fixing point and the D-ring on the corner of the shade sail, for tensioning. If your proposed fixing point is too far away from the shade sail corner once all accessories have been added (ie. eye bolt/pad eye and connecting device), consider extending the shade sail with 5mm stainless steel chain or crimped wire rope.

Other considerations when choosing the location:

Are there any underground pipes, cables etc that could hamper the installation of the post.

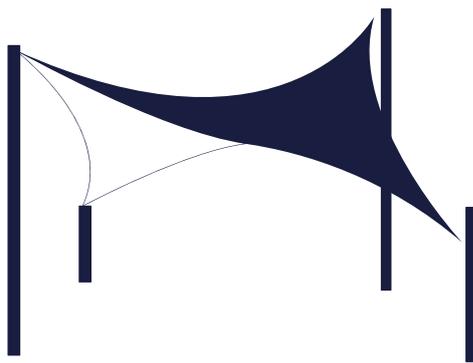
Is my installation over or near a braai, fire or flame?

What area is most affected by the sun and is my shade sail covering this area adequately? Also take the movement of the sun into account and the change in angle in Summer vs Winter.

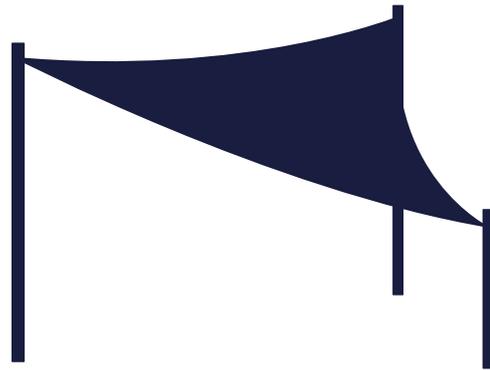
It is recommended that you lay your shade sail out in a relaxed state, where it is to be erected, to confirm that your fixing points will meet all the needs.

Installation formations:

Create an elegant shade sail installation by installing some points at a higher level (at least 2.4m off the ground) and the remaining points at a lower level. Installed in this way, shade sails perform at their best and will also assist with water run off in high rainfall areas.



Hyperbolic Installation



Resort Style Installation

Consider overlapping shade sails to create an aesthetic, contemporary structure or installing them next to each other for more extensive coverage.

Installation of Posts:

If additional posts are required as fixing points, either steel or timber posts can be used.

Steel posts:

Galvanised steel posts are the most suitable. We recommend a diameter of 100mm, with a 4mm steel thickness. For square posts, the dimensions need to be 100mm x 100mm, with a 4mm thickness. The height of the post will be determined by how high your fixing point needs to be. Posts can be cut to the desired height but make sure any exposed area is rust treated. You will also need to have a hole drilled for the installation of the eyebolt. Remember that the pole must then be placed so that the hole is facing the corner of the shade sail, when installing. You may want to drill the hole after installation.

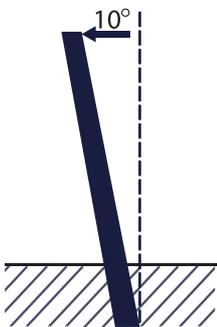
Timber posts:

Treated timber posts with a diameter of 125mm or more should be used. The height of the post will be determined by how high your fixing point needs to be. Posts can be cut to the desired height. As with the Steel post, you will also need to have a hole drilled for the installation of the eyebolt. Remember that the pole must then be placed so that the hole is facing the corner of the shade sail, when installing. You may want to drill the hole after installation.

Important:

Posts must be angled at 10°, away from the centre of the shade sail, when being installed.

Posts must be installed at a depth of 800mm for smaller shade sails. Any shade sail over 5m should be installed at a depth of 1200mm.

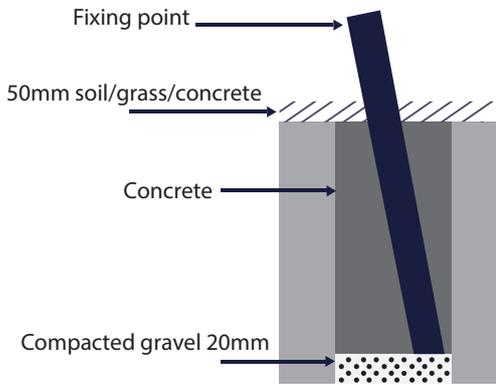


Posts can also be painted for a more attractive installation.

Footings:

Start digging at the approximate centre of your footing.

Fill the footing with 100mm of compacted gravel (20mm in diameter) to provide a base. Hold your pole in position (at an angle). Add your concrete (Rapid set concrete is not recommended) and brace the post at its angle. Allow about 50mm at the top of the footing to cover the cement with soil and grass.



Allow concrete to set properly before connecting the shade sail to the fixing point.

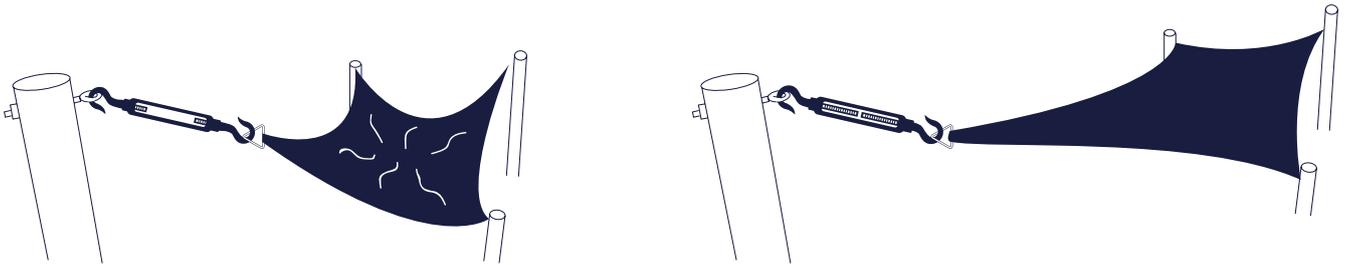
Selecting Fixing accessories:

Your selection of fixing accessories will depend on your fixing points. Fixing points into a wall require a pad eye, while fixing points into a post, require an eye bolt.

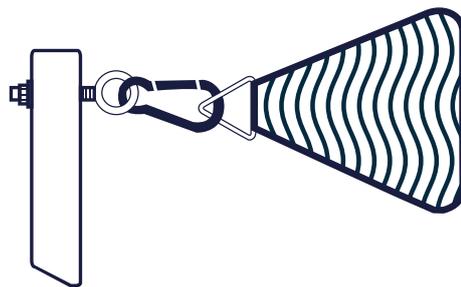
	<p>EYE BOLT: Use when fixing a shade sail to a pole. Connect D-Ring on shade sail corner to Eyebolt using a Snap Hook.</p>
	<p>PAD EYE: Use when fixing a shade sail to the wall. Connect D-Ring on shade sail corner to Pad Eye using a Snap Hook.</p>
	<p>TURNBUCKLE: Use on 2 corners of the shade sail for tensioning. Connect the D-Ring on the shade sail corner to the Eyebolt or Pad Eye with the Turnbuckle.</p>
	<p>SNAP HOOK: Use to connect shade sail D-Ring to either a Pad Eye or Eyebolt, where a Turnbuckle has not been used.</p>
	<p>D-SHACKLE: Another option, replacing the Snap Hook.</p>
	<p>S-HOOK: Another option, replacing the Snap Hook</p>
	<p>STRAP TENSIONER: Use during installation to apply tension to the shade sail. Remove once the connecting device is in place.</p>

A ratchet strap can be used to bring the d-ring closer to the eye bolt or pad eye when installing. This will then be released once your turnbuckle or snap hook is in place.

A turnbuckle is required on 2 sides of the shade sail to connect the d-ring on the shade sail (the shade sail comes with this stitched onto the corner) to the pad eye or eye bolt. The turnbuckle is a very important accessory, as it is used for tensioning.



When a shade sail is tensioned correctly, it should have no visible creases or sagging. The other side/s of the shade sail should be connected with a snap hook or similar.



If your proposed fixing point is too far away from the shade sail corner (once accessories have been added), consider extending the shade sail with 5mm stainless steel chain or crimped wire rope.

Care and Maintenance:

Your shade sail will remain in good condition for a very long time if you hose it down occasionally. Bird Mess and general dirt and grime can easily be removed by knocking it off or hosing it down. Sponge down any marks that are a bit stubborn using a mild detergent and water or allow the shade sail to rest in this solution for 10 min, before rinsing it off with water.

Please DO NOT:

- Use any abrasive materials to clean you shade sail
- Wash the shade sail in a machine.

Important: Check your shade sail regularly to see if it needs re-tensioning.

Warranty:

Kalahari Shade is warranted by Storm Capital Investments (Pty) Ltd trading as Storm Distribution, hereinafter referred to as Storm.

Summary of Warranty Terms:

Storm warrants to the owner of a Kalahari Shade Sail (you), that the Product is free from manufacturing defects. If a Product with a manufacturing defect becomes apparent and is reported to Storm in accordance with the instructions set out in the Warranty, then Storm will provide a remedy to you in accordance with this Warranty. The Warranty is valid for the term specified in your Warranty Period. This is Product specific.

Exclusive Remedy:

For any portion of the Product that does not perform as a result of a manufacturing defect, Storm will provide you with a replacement Product (or part thereof). Decisions as to the extent of repair or replacement required will be made solely by Storm. The replacement Product (or part thereof), as well as any remaining original Product, will be warranted only for the remainder of the original Warranty Period.

Exclusions from Coverage:

Storm will NOT be liable for and Specific Product Warranties generally do NOT cover the following:

- Damages to the Product resulting from anything other than an inherent manufacturing defect in the Product including, without limitation, damage caused or contributed to by:

- Installation, erection, application or use of the Product not being in strict accordance with Storm's instructions, guidelines or warnings;
- Improper transport, storage or handling of the Product, or use of the Product for purposes other than that for which the Product was designed or intended;
- Any variation, alteration or modification to the Product in any way unless approved in writing by Storm;
- Fair wear and tear, and extraordinary causes beyond fair wear and tear, including weather conditions, force majeure events and natural disasters, such as floods, lightning, hail, windstorms, tornados and earthquakes;
- Your use of components other than genuine parts or any work performed on the Product by companies or persons that have not been authorised by Storm;
- Exposure of the Product to damaging substances, such as chemicals, oils or solvents, or to mechanical friction, scratching, abrasion, chipping or any other impact;
- Placing the Product near an open flame; or too close to any heat source.
- Tensioning the Product beyond its tear and tensile capabilities; or not tensioning it enough and allowing it to flap around in the wind.
- Any act or omission of any person other than Storm, including misuse, neglect, accident or abuse;
- Movement or defects in the building, walls, foundation, or any other material or structure used as a base over which the Product is installed;
- The continued use of your Product after any defect becomes apparent or would have become apparent to a reasonably prudent operator or user.
- Any variations or defects in appearance, colour or shade or defects which are of a purely aesthetic or cosmetic nature, including any surface corrosion on aluminium/steel products, or colour fading of the Product, or any deterioration in the chemical composition of the fabric of the Product for any reason including exposure to ultra-violet rays.

Where Storm has agreed in writing that the Purchaser is entitled to reject a Product, Storm's liability is limited to either replacing the Product or repairing the Product.

Important: While all care is taken in the production of DIY product guides, all product guides are provided as an indicative installation guide only. Storm is not liable or responsible for the outcome of any Products installed using these guides.

Submitting a claim under the warranty:

You should retain your proof of purchase as well as the Product name and barcode for your records in the event you need to file a claim. In the event of a manufacturing defect, you must notify Storm in writing of such a defect, within 30 days after your discovery of the defect. Please email sales@stormdistribution.co.za.

Your notice to Storm must be accompanied by a proof of purchase and delivery date to establish that you are the original owner of the Product, or have purchased the Product from the original owner of the Product.

This is your exclusive warranty from Storm and represents the sole remedy available from Storm to you, as owner of a Product. Storm makes no other representations, warranty, condition, or guarantee of any kind other than that stated herein. Storm will not be liable in any event for consequential, punitive, special, incidental, indirect or other similar damages of any kind, including injury to persons, damage to property, loss of income, profit or business, or any other indirect loss arising from or caused in any way by the defective Product, whether for breach of warranty, negligence, strict liability in tort, or for any other cause.

Disclaimer:

Please note, these instructions are a guideline only. Your individual situation must be assessed on its own merit. Soil type, fixing points, type of location – complex, single dwelling etc and the regulations that may apply to your dwelling type, all have bearings on your installation and must be taken into account. If you are unsure, please consult a builder or engineer for structural advice and contact your local council to confirm that you are operating in accordance with the local regulations.

KALAHARI SHADE
 Distributed by Storm Capital Investments (Pty) Ltd trading as
 Storm Distribution
 33A Bell Crescent
 Westlake Business Park
 7806
 Tel: 021 701 0787
www.stormdistribution.co.za
sales@stormdistribution.co.za
 Reg No: 2008/023063/07