

MAXX SERIES AND KOOL SERIES
INSTALLATION INSTRUCTIONS



POINTS TO CONSIDER BEFORE INSTALLING YOUR SHADE SAIL

BUILDING APPROVAL

Always check with your local authorities (council) for any relevant building regulation before installing any shade sail.

LOCATION

Note the direction of the sun during the time you need the most shade. Make sure that the shade sail you have chosen will fit the desired space. Consider any dangers or obstacles such as power wires, water pipes and barbecues etc.

ENVIRONMENT

Take into account your local wind conditions, speed and direction. Also consider surrounding environment like trees etc.

There may be many other important factors relevant to your situation, which may require consideration.

DETERMINING THE FIXINGS POINTS

We recommend that shade sails are installed as shown in figure 1. & 2. Shade sails are often attached to a building (or existing structure) and to additional poles, but are not limited to this. They can be attached in hundreds of different configurations. It is also possible to use a wire cable to extend your shade sail corner to a fixing point.

After deciding the location of your shade sail and the fixing heights you will then need to determine your fixing points. Enclosed with your shade sail will be a diagram with the exact measurements between fixing points, you can then mark out the exact position of the shade sail. It is important to note that your shade sail will require at least two tensioners (turnbuckles). Shadetex.com has an extensive range of fixing accessories available to help secure your shade sail

POLES

Poles are the most ideal way to support a shade sail, you can use either steel or timber and they can be installed to your desired height. When installing poles to support your shade sail they must have a suitable footing and must be a suitable size. Make sure it is possible to install poles where you want them and ensure the ground is firm.

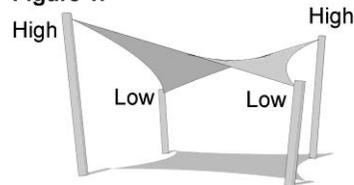
EXISTING FIXTURES

These need to be structurally suitable as your shade sail will be under significant tension. It is very important that the fixing points are strong, if unsure that your proposed fixing points are suitable, obtain independent advice from a qualified builder or engineer.

We do not recommend using a tree for a shade sail fixing point.

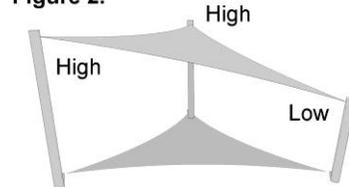
For more design ideas and tips go to www.shadetex.com

Figure 1.



Hyperbolic Shape – for square and rectangular shade sails. This helps the shade sail to stay tight and look great!

Figure 2.



Angled -- for triangle shade sails. This prevents sagging in the middle of the shade sail

INSTALLING POLES

Below is a guide to selecting the right size poles for your shade sail. This guide also includes suggested footing dimensions.

SHADE SAIL SIZE	POLE HEIGHT (above ground)	STEEL POLE SIZE (outside dimension)	TIMBER POLE SIZE (outside dimension)	FOOTING DIMENSIONS
ET12, ET14, RT10, SQ10, SQ12, RE1012	2m / 6'6"	76mm (3")	125mm / 5"	300mm (12") bore 1m (3'4") depth
	3m / 10'	89mm (3 ½")	150mm / 6"	
	3.6m / 12'	102mm (4")	200mm / 8"	
ET16, ET18, RT15, SQ14, RE1014, RE1214, RE1216	2m / 6'6"	89mm (3 ½")	150mm / 6"	350mm (14") bore 1.1m (3'8") depth
	3m / 10'	102mm (4")	200mm / 8"	
	3.6m / 12'	114mm (4 ½")	200mm / 8"	
ET20, RT20, SQ16, RE1218	2m / 6'6"	102mm / 4"	200mm / 8"	400mm (16") bore 1.2m (4') depth
	3m / 10'	114mm / 4 ½"	200mm / 8"	
	3.6m / 12'	114mm / 4 ½"	200mm / 8"	
SQ18	2m / 6'6"	114mm / 4 ½"	200mm / 8"	450mm (16") bore 1.3m (4'4") depth
	3m / 10'	114mm / 4 ½"	200mm / 8"	
	4m / 13'	139mm / 5 ½"	250mm / 10"	

Note: this only an indicative guide based on normal conditions and is not certified by a structural engineer. The information contained is not suitable to use for building consent. All sites and situations vary therefore these sizes will not apply to every situation. Please use this guide with care.

We recommend that shade sail poles are installed with a 5° lean out away from the centre of the sail (direction of pull). This must be taken into account when positioning the poles.

If using steel poles it is advisable to have a galvanised coating to prevent rust. If using timber poles it is advisable to use treated timber. Poles can be painted to match your shade sail or surrounding environment.

Once you have chosen the correct size poles and measured the position of them, dig holes to the required size. Lay a 100mm (4") of medium size gravel at the base of the hole, compact to form a solid pad.

Poles should be embedded in concrete footings with a minimum of 20Mpa concrete. The concrete must be mixed to the manufactures' instructions or supplied by a certified concrete supplier.

Position each pole at a 5° angle leaning out away from the centre of the shade sail and add concrete, ensure the pole remains in the correct position. The top of the concrete surface should be sloping away from the pole to assist with water drainage. You may require bracing while concrete sets. Poles should be left for at least 48 hours to allow the concrete to set.

Figure 3.

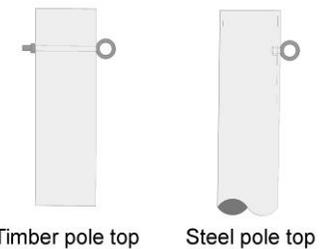
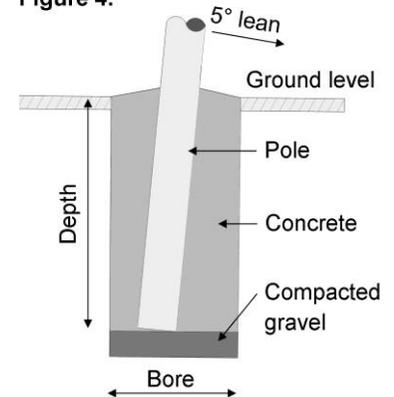


Figure 4.



INSTALLING BRACKETS

Once you have determined suitable fixing points and measured the correct spacings for your brackets they can be attached. Ensure that all brackets are held firmly and the screws anchored securely.

SHADE SAIL CONNECTION

Note: when using tensioners (turnbuckles it is important to use ProLan (or similar thread grease) to prevent the threaded parts binding.

When all fixing points are in place and you are confident that they are strong and secure, the shade sail can be attached. Attach all tensioners (turnbuckles) to the shade sail at the correct corners and adjust them to full extension, then attach the shackles. The tensioners/shackles can then be attached to your fixing points, if there are any corners that do not have a tensioners attach these corners to the fixing points first.

Because the shade sail is designed to stretch it may seem quite tight and some points may be a little difficult to attach, but this is normal. You may require a piece of rope or a ratchet tie down strap to assist attaching the tensioner to the last two fixing points.

Once all corners of the shade sail have been connected, adjust the tensioners. A shade sail which has been mounted and tensioned correctly will have little or no creases and will not have any sag in the middle. The edges of your shade sail should be firm and taught, this will reduce movement in the wind. Shade sail fabric which is loose can cause premature failure due to mechanical breakdown in the fabric.

You may find that after 1 week the shade sail has settled, and a little more tensioning is required. Further tensioning may be required periodically.

It is difficult to 'over tension' Maxx Series and Kool Series shade sails. These shade sails are very strong and will perform best under high tension. Although they do need to be highly tensioned, DO NOT apply extreme tension.

DISCLAIMER

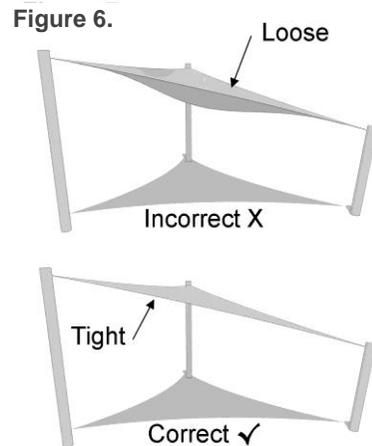
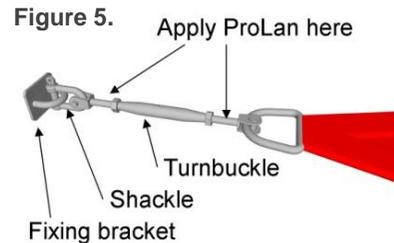
The installation instructions in this book are to be used as a guide only. Many factors can vary, depending on your region. DAPSCO Ltd T/a Shadetex accepts no responsibility for installations.

If you require assistance in regards to your specific installation, please consult a qualified builder or engineer.

MAINTENANCE

As you would expect, shade sails need cleaning from time to time. Because most shade sails are outdoors they are continually exposed to dust and moisture which makes them appear dirty and unclean. It is also possible in a moist atmosphere that mould can grow on the underside of the fabric - however this does not mean the fabric is breaking down or rotting.

Because dirt does not stick to the individual HDPE yarns in the fabric it makes it simple to clean. Remove shade cloth and place on a smooth flat surface (preferably concrete). Using a well diluted, mild mix of detergent solution. Wet the fabric thoroughly with water and then spray the solution evenly over all of the fabric with a low pressure sprayer. This treatment will kill the mould and loosen up the dirt, but will now need to be removed – to do this we recommend using a high pressure water to evenly clean the entire area of



fabric. This also removes any build up of dirt or dust. It is best to suspend or hang the Shade cloth up, then rinse or hose down thoroughly with clean water to get rid of any leftover solution or debris and leave to dry. Care must be taken so that the fabric is not damaged during removal, during washing and re-installation of the Shade cloth.

Do not use any abrasive cleaners, or place your shade sail in a washing machine or clothes drier.

If you remove your shade sail for storage, ensure that it is completely dry and stored in a dry place.

WARNING

Ensure all proposed fixing points are structurally sound, and strong enough to bear the stress of your shade sail. Prior to installing, consult your local council in regards to any building regulations which may apply. Do not expose the shade sail to open flame or fire, do not use a barbeque under your shade sail. Care should be taken to avoid chemicals that contain bleach, sulphur or halogens. These may attack the UV stabilizers within the shade sail, thus reducing the life of the product and making void the warranty. It is recommended that you should temporarily remove your shade sail before predicted strong winds, stormy conditions or snow.

PRODUCT WARRANTY and LIMITATION OF LIABILITY

Shadetex warrants your shadetex shade sail to be free from defects in material and workmanship. This warranty is extended to the first retail purchaser of the shade sail for consumer use, and lasts for the specified warranty period from date of purchase. The warranty covers the replacement of any shade sail that is defective (unless those defects result from: altering or modifying of the shade sail, improper use, abuse or misuse of the shade sail, such as incorrect installation, or damage caused by high winds or heat). This warranty does not cover colour fading or deterioration of the fabric or webbing's chemical composition due to exposure to ultra-violet rays, damage to the shade sail due to exposure to chemicals, placement near open flame, or over tensioning the shade sail. Shadetex will not have other or greater liability for defects in the shade sail. Nor will Shadetex have any liability for incidental or consequential damages. If you discover a defect in the shade sail during the warranty period and wish to obtain a replacement, please return the shade sail to the place of purchase with a copy of the original invoice and a written description of the claimed defect (or if you purchased your shade sail online, contact us at www.shadetex.com). All implied warranties of merchantability and fitness for particular purpose are limited in duration to the specified warranty period from date of purchase.

Except those warranties or conditions implied by law, Shadetex 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 shade sail or its use (including loss or damage arising from the negligence of, or contributed to by, Shadetex).

Enjoy your shade sail!

SHADETEX
New Zealand
www.shadetex.com