

side screens installation

Outrigger side screens are installed as a single stage job when the screens are fitted to an existing structure. However, two stages may be necessary if, for whatever reason, reliable measurements cannot be taken on quotation.

Not including the type of fabric used (clear pvc or shade mesh), there are three main types of side screen.

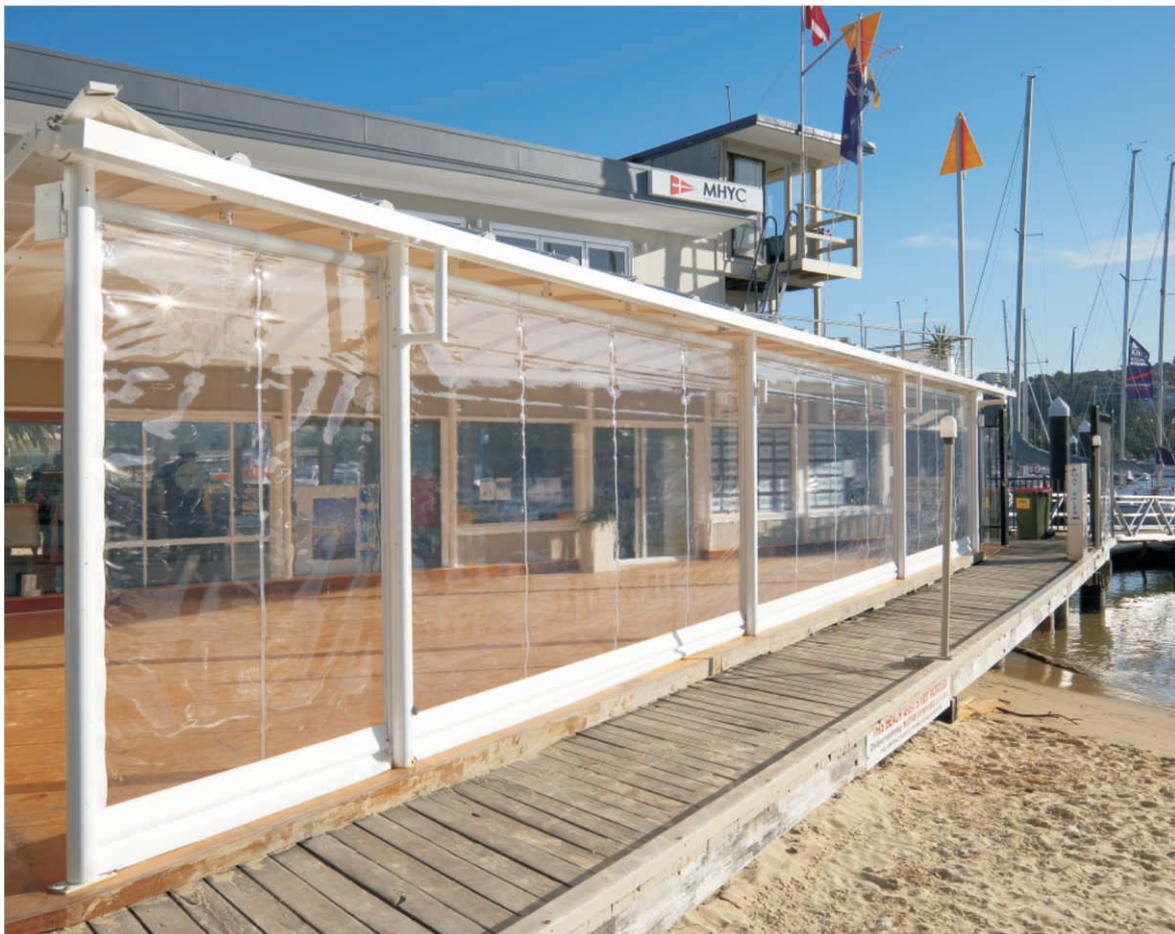
1; Fabric roller with manual crank/motorised operation, exposed fabric edges, lightweight end batten, guide cables and floor anchors.

2; Fabric roller with manual crank/motorised operation, exposed fabric edges, heavy duty end batten and floor anchors

3; Fabric roller with manual crank/motorised operation, fabric edges in a track and heavy duty end batten (pictured below).

Details on the differences of installing each type are covered on the following page.

Although side screens appear straightforward, care and attention to detail is required to ensure the correct and smooth operation of the screens. Due to the position of side screens, it is very easy to inspect at close quarters and defects are easier to spot. Particular care needs to be taken with clear pvc as it is very easy to scratch.



side screens installation

■ Poles

Generally side screens are fitted to existing structures or are an addition to a batten awning and will be mounted between the posts. Occasionally though, side screens will require their own support.

■ Poles with footings

Mark out pole positions using dimensions specified, confirming with client that the positions are correct and the locality of any services. Check the fabric dimensions from the paperwork and check the relationship between these and the pole positions before commencing pole footings. Refer to pole footing specification sheet at the back of this folder for footing size for the given pole diameter, length and ground condition. Before pouring footings, place pole into hole to make sure the pole is the correct height. Whilst pouring the footing, check pole with a spirit level.

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■ Poles in sockets or other mounts

Mark out pole positions using dimensions specified, confirming with client that the positions are correct and the locality of any services. Check the fabric dimensions from the paperwork and check the relationship between these and the pole positions before commencing pole fitting.

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■ Poles with baseplates on concrete

Mark out pole positions using dimensions specified, confirming with client that the positions are correct and the locality of any services. Check the fabric dimensions from the paperwork and check the relationship between these and the pole positions before commencing pole fitting. Unless otherwise stated, use chemically anchored galvanised or stainless steel threaded rod of specified size and length. Position all poles and use holes in the baseplates as templates. Mark all hole positions and drill 4mm larger than threaded rod diameter to a depth that allows sufficient thread showing above the baseplate for a stainless steel dome nut and washer. Following the manufacturers directions, bond the threaded rod into the holes. Finger tighten stainless steel dome nuts and washers onto the threaded rod only tightening fully after recommended curing period. Smaller less exposed awnings may only require large galvanised or stainless steel dyna bolts

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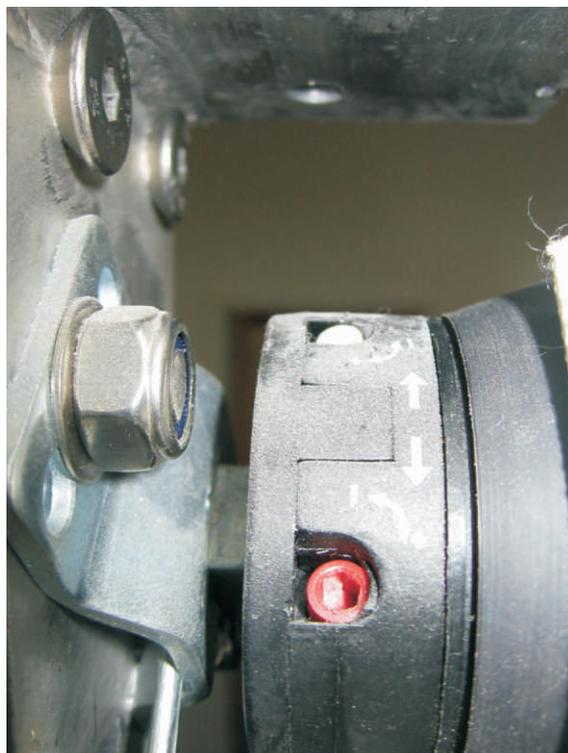
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side screens installation/motorised

■ Installing a motorised screen is practically the same as installing a manual one. Visibly, the drive stub shaft is different but is mounted in the same manner. The main difference is when it comes to operating the awning. Every effort is made to ensure that the limit switches (shown below) are roughly set when the fabric roller assembly leaves the factory. They will need fine tuning on site though. This is done using a supplied plastic tool that fits the red and white screws on the end of the motor. The directions are marked on the motor casing but, if using the photo below they are as follows

- white screw clockwise will increase the travel of the roller upwards
- white screw anti-clockwise will limit the travel of the roller upwards
- red screw clockwise will increase the travel of the roller downwards
- red screw anti-clockwise will limit the travel of the roller downwards

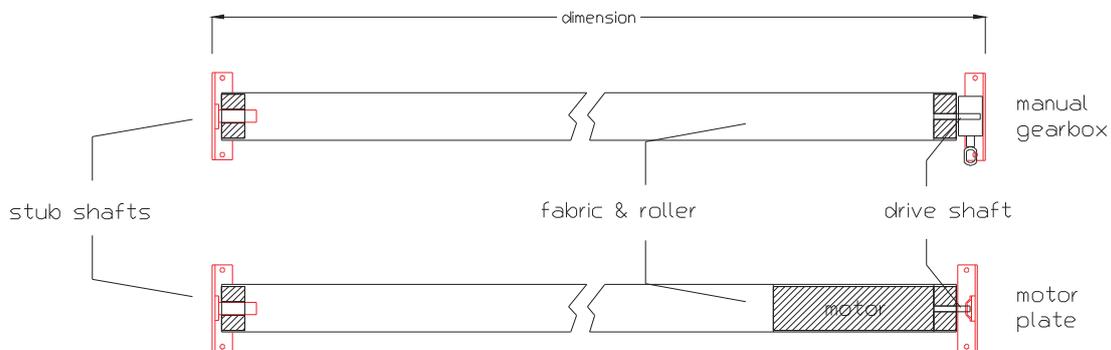
Set the limits when the screen is installed. When initially extending the fabric, the roller can be stopped manually with the remote if required.



side screens installation/fittings

■ stub shafts

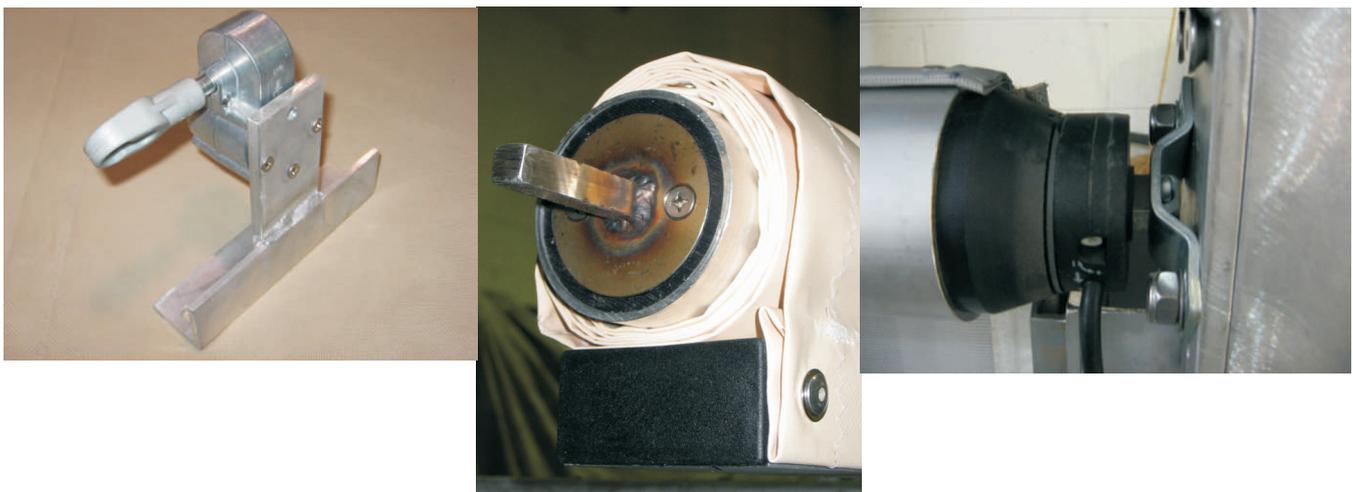
For a single stage job, insert the stub shaft into the end of the fabric roller assembly. For a manual awning, assemble the crank gearbox onto its support and slide onto the drive shaft. For a motorised awning, assemble the motor plate onto its mount and attach to motor drive shaft with split pin. Measure the distance between the outside-outside of the stub shafts. Check this distance where the awning is to be mounted and check that the awning is going to be the correct length. Mount the non drive stub shaft. Then, lift the fabric roller assembly into position with the second stub shaft assembled onto the gearbox or motor and mark the position of the mounting holes. Remove the roller assembly and drill the mounting holes for the second stub shaft and temporarily attach it without the roller in place. Do not fit the roller assembly until awning covers have been installed.



Note: for screens with bolt rope track at the side, the positioning of the stub shafts in relation to the track is critical. Check paperwork for drawings.

■ awning Cover

Evenly space awning cover brackets along length of awning (see drawing detail **fig. 3** for height). There should be a bracket for each join in the covers (if more than one is required) and one in middle of each cover section. Attach awning cover sections to brackets using 3/16 stainless steel rivets. With a high grade silicone, seal along back edge of cover if attached to a wall and all of the joins in the sections. Also silicone over the heads of the rivets, neatly dab down all the silicone with a damp finger and remove excess with a cloth. After the awning cover is fitted, re-position the fabric roller assembly and secure all stub shafts.



side screens installation fittings

1; Fabric roller with manual crank/motorised operation, exposed fabric edges, lightweight end batten, guide cables and floor anchors.

When fabric roller assembly is installed, wind the awning down to its full extent. Mark position for anchorage points. These are approx. 200mm in from each end of the end batten. Anchorage points can either be flush mounted stainless steel fittings recessed into the floor, or, stainless steel saddles. If the screens are mounted onto a deck, the anchorage points may be attached to the front of the deck, below deck level. It is important that the anchorage points are mounted parallel to the roller. If they are not, the screen will not tension correctly. If the screen has diagonal ripples appear when it is tensioned this is the most likely cause. As with all fittings, if they are fixed to concrete, use stainless steel dyna bolts, If fixed to timber, use stainless or galvanised coach bolts /screws. The end caps for the end batten incorporate stainless steel eyebolts. These are for the guide cables to pass through. Guide cables will be different with each installation as there will be different structures to attach to. The main aim is to install them with sufficient tension to minimise movement of the screen in high wind and have them positioned so that the screen runs freely to its full extent up and down without putting any lateral pressure on the end batten.

■ 2; Fabric roller with manual crank/motorised operation, exposed fabric edges, heavy duty end batten and floor anchors

This type of screen is installed in the same way as before but without the guide cables. These screens rely on the weight of the end batten to give control when extending or retracting the fabric.

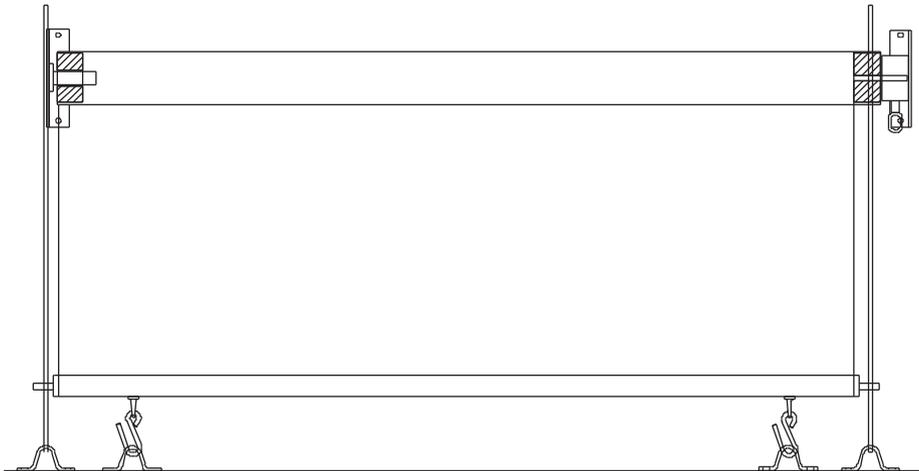
■ 3; Fabric roller with manual crank/motorised operation, fabric edges in a track and heavy duty end batten

This type of screen is installed with an aluminium track either side. The fabric edge has a bolt rope attached that is carried in the track. This type of installation requires careful measurement at all stages as the position of the stub shafts in relation to the track is critical. These screens can only be installed if there is, or can be, uprights either side of the fabric. Check paper work for dimensions and double check before commencing each step. Attach the track using the appropriate fixings for the structure that they are to be attached to. The tops of the track need a generous radius to be shaped onto them. If this has not been done prior to powdercoating, do it before fixing them in place with a grinder. Tidy up the edges carefully with a file as this is where the fabric is most likely to catch and rub. The track section comes with either an angle or plate cover plate. This covers the dynabolts or coachbolts used to attach the track and is fitted using a high quality double sided tape.

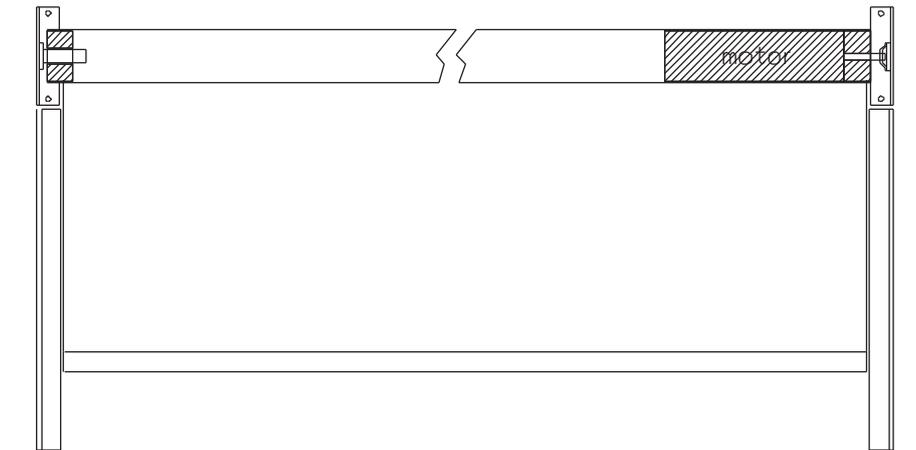


side screens

installation fittings



screen with guide cables
lightweight end batten and
floor anchors.



screen with side track
heavy duty end batten and
no floor anchors.

When screen or screens are complete, check operation several times. Clean all marks off of fabric and fittings and check that all fittings are neat and square. Touch up any chips in the powdercoating if necessary. Ensure that customer is happy with the installation and familiar with the operation.