



SKYSPAN SHADE
COMMERCIAL UMBRELLAS AND SHADE STRUCTURES



Vista Duo Fixed Base

Cantilevered Umbrella

Method Statement

Installation

Components

1 x Main column	12 x M12 S/S washers
2 x Boom arms	1 x Jack winding handle
2 x Canopy on arms & mechanism (head assembly)	2 x Foam arm spacer
4 x M16 x 45mm s/s bolts (main arm spigot)	2 x Umbrella securing strap
4 x M16 S/S washers (main arm spigot)	6 x Poly tube 100mm (for protecting paint work)
12 x M12 S/S nyloc nuts	

Required Tools

- | | |
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| 1. Hold down bolt assembly | 7. White cleaning cloths |
| 2. Chemset 101 - 1 tube per 4 umbrellas with a nozzle per hole | 8. Bucket with PH Neutral chemical to wipe canopy down |
| 3. Spanners and sockets | 9. Silicone |
| 4. Torque wrench | 10. Grout (non shrink) |
| 5. Hammer drill | 11. Small vacuum or blower |
| 6. Step ladder (3mtr) & (2mtr) | 12. Spirit level |

Installation of this umbrella may require 3-4 people as the main column and head unit are very heavy.

Hold Down Bolts

1. Using the supplied template of the column base, place the template onto the installation surface in the desired orientation (keeping in mind of the direction of the stud pattern for desired orientation) and drill holes with an 18mm drill bit to a minimum of 220mm depth. Clean all dust completely from the hole using a hole brush and compressed air. Follow attached Chemset 101 Installation Guide method statement for installation of 6 x M16 hold down bolts.

NOTE: Use the template to line up the bolts as you go, once done leave bolts to set as per chemset label.

2. Wind on M16 levelling nuts/washers and set topside to be 45mm off the footing to allow for levelling and sufficient grout for structural integrity, Use the supplied thread protectors to slide over the hold down bolts to prevent any paint damage when the columns are seated on the levelling nuts. **(60mm is needed for fixing off the column, this is including the thickness of column base 1 x structural washer, 1 x structural nut, 1 x dome nut)**

Main Frame

**Unpack crate. Check that all umbrella components (as per page 1) are there.
This step may require 3-4 people as the main column and head unit are very heavy.**

1. Be sure to check the desired orientation is correct prior to mounting on the hold down bolt assembly.
2. Place the poly pipe on the threaded rod to protect the paint from scratching/chipping.
3. Lift the column onto the hold down bolts and align the bolt holes in the baseplate with the bolts. Place an M16 washer and an M16 nut on each bolt and tighten. Use a spirit level to check the vertical alignment of the column and adjust the levelling nuts if needed. Cut off any excess thread leaving enough thread to top with an M16 dome nut and tighten. Make sure the column is stable and secure before proceeding to the next step.

Boom Arm

1. Slide the boom arm onto the spigot of the main column.
2. Align the boom arm bolt holes to the ones on the main column, using the supplied M16 x 45mm bolts and washers to secure in place.

Head Assemblies

1. Looking at the top of the head assembly you will see an arrow with the column marked. Ensure this arrow directly faces towards the main column.
2. Lift the assembly up to the top plate on the boom arm and guide the mounting bolts through the top plate, using the supplied M12 washers and nuts tighten to 90% to support the assembly.
3. Partially wind umbrella up while supporting all arms and checking cable within corner plate, canopy position, alignment of arms with associated seams. Continue to wind until canopy is reasonably taut and check the canopy is sitting evenly over the top plate (this step is to allow canopy to seat on the frame properly).
4. Retract the umbrella and fully tighten the nuts on the top plate and wind the umbrella up until the edge cable is taut.
5. Engage the anti-creep latch.
6. Double check the vertical alignment of the column and adjust the levelling nuts if needed
7. Grout the gap under the base plate with non-shrink grout and ensure the umbrella is clean.

**NOTE: Always engage anti creep lock under mechanism to stop canopy creeping down.
Please keep foam arm keeper and umbrella strap for use when umbrella is retracted.**