SKYSPANSHADE
COMMERCIAL UMBRELLAS AND SHADE STRUCTURES

V50SC - Vista 5m Square

Cantilevered Fixed Base Umbrella

Method Statement

Installation

Components

1 x Main column
1 x boom arm
1 x Canopy on arms & mechanism (head unit)
2 x M16 x 45mm s/s bolts (main arm spigot)
2 x M16 s/s washers (main arm spigot)
1 x Jack winding handle
6 x M12 x 40mm bolts (tapped in head unit)
6 x M12 s/s nyloc nuts and s/s washers
1 x Foam arm spacer
1 x Umbrella securing strap
6 x Poly Tube 100mm (stud protector)

Required Tools

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

Installation of this umbrella can be done with 2 people if using a Skyspan Cantilever installation Jack, 3 people if installing with no mechanical aids.

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 of canopy) and drill the holes to a minimum of 220mm deep. 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 **(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). Fit stud protection sleeves.**

Main Frame

Unpack crate. Check that all umbrella components are there (as listed on page 2).

1. Position main column so that the main arm spigot is facing in the desired orientation and remove stud protection sleeves. Once positioning is correct, bolt down.

2. Slide the boom arm on to main column spigot and then level canopy plate horizontally on angled boom to ensure head unit sits level. Once achieved insert 16mm x 45mm stainless bolts onto opposing holes in spigot with the 16mm washers backing the nylon washers, then tighten to correct torque.

Head Assembly

This step may require 3 people as jack assembly is very heavy.

1. Mount the jack assembly to top plate loosely with M12 s/s nuts and washers..

2. Secure the four umbrella arms using 4 x M10 x 110mm s/s all-thread, 8 x M10 s/s dome nuts and washers, use nylon arm spacers to the mid-cast as per diagram and tighten to correct torque. Fit the supplied foam arm spacer and securing strap. With 2 able people steadying and taking the weight of the assembly with the now attached arms, undo M12 nuts on top plate to lower assembly gently whilst being vertical and resting on arm ends **(Ensure sufficient padding under arm tips to prevent damage whilst executing this process).** Fit M12 Nyloc nuts loosely on bolts to protect canopy.

Ensure Loctite 262 thread locker is used on dome nuts.

3. Carefully lift canopy over jack assembly smooth side up with bolts slotting through punched holes, whilst aligning arrow on top of the canopy to face directly towards the column. Ensure that the flat side of the canopy faces the vertical mast so that the arm and mast do not clash.

Once positioned correctly, lift assembly up to top plate and half tighten with M12 nyloc nuts and washers supplied. Connect canopy corner plates to end of arms with supplied M8 stainless all-thread and M8 nyloc nuts ensuring cable is in between corner plate and bolt.

4. Partially wind umbrella up while supporting all arms and checking cable with corner plate, canopy, position, centering and 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).

5. Thoroughly inspect all positioning of canopy.

6. Retract umbrella and fully tighten bolts in top plate to correct torque.

7. Wind umbrella up until cable edge is tight.

8. Engage the anti-creep latch.

9. Grout the gap under the base plate with non-shrink grout and ensure 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.