



SKYSPAN SHADE
COMMERCIAL UMBRELLAS AND SHADE STRUCTURES



TYPHOON

Centre Post Non-Retractable Umbrella

Method Statement

Installation

Components

Complete umbrella

Dome cap

Strut assembly - 4 for square and rectangle
- 6 for hexagonal

Required Tools

1. Skyspan external installation jack or chain block
2. Sling
3. 2m x 50mm steel pipe
4. Hold down bolt assembly (consisting of 4 x M12 @ 160mm threaded rod, 8 x nuts and washers (all galvanised)
5. Chemset (Ramset 101) - 1 tube per 4 umbrellas with a nozzle per hole
6. Spanners and sockets
7. Torque wrench
8. Hammer drill / 14mm sds plus drill bit
9. Step ladder (2m)
10. White cleaning cloths
11. Bucket with PH Neutral chemical to wipe canopy down
12. Silicone
13. Grout (non shrink)
14. Small vacuum or blower
15. Spirit level

This is a two person installation

Method

1. Place umbrella or template in desired position ensuring that you have enough room to open.
2. Mark the footing using a template or through the bolt holes in the base of the umbrella to be drilled for chemical anchors on all umbrellas to be installed.
3. Remove umbrella and drill 14mm holes 110mm deep for chemical anchors as per footing drawing specs.
4. Clean all dust completely from hole using a hole brush and compressed air. As per the Chemset method statement, fit mixer nozzle to chemical anchor tube (minimum Chemset 101) and fill the hole to 75% from top with chemical (one hole at a time). Use the template to line up the bolts as you go.
5. Insert M12 threaded rod into the hole while twisting to eliminate air pockets leaving 35mm of rod out of the hole to leave room for the bolt hole cap. Use M12 levelling nuts with washers if the surface is not level. Once done leave bolts to set as per Ramset method statement.
(Keeping in mind of surface fall you may need longer bolts for the levelling of the umbrella).
6. Place umbrella onto levelling nuts in desired orientation.
7. Level umbrellas using levelling nuts, once level place nut and washer onto threaded rod and tension nuts to the correct torque.
8. Check umbrella is level and fit the supplied dome cap.
9. Erect umbrella canopy by using the Skyspan external erection jack or by using a lever block, winch a short sling and a two metre 50mm pipe, place a rag to one end of the pipe and place under top plate strap in place, connect the top hook of the chain block to a sling around the top of midcast, hook the other end to the bottom of the pipe and winch until the retention hole is visible on the jacking column and fit retention bolt to jacking column.
(Be sure to pad around the pipe to avoid any damage and strap in place securely).
10. Attach struts to top plate midcast and then attach to arms using brackets and bolts supplied. Tighten to correct torque.
(Refer to Typhoon strut assembly diagram)
11. Grout under base to fill gap created by levelling nuts.

