



SKYSPAN SHADE
COMMERCIAL UMBRELLAS AND SHADE STRUCTURES



Horizon Installation

Centre Column Umbrella

Method Statement

Installation

Required Tools

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

Note: Installation of this umbrella requires 2 people

Method

IMPORTANT NOTE TO THE INSTALLER: Please remember to retension the anti- inversion cables once the umbrella is installed.

1. Place umbrella base or template in desired position and orientation ensuring that there is sufficient clearance to open the umbrella within the required space.
2. Mark the footing bolts using a template or through the bolt holes in the base of the umbrella.
3. Remove umbrella or template and drill 14mm holes 110mm deep for chemical anchors or 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. Ensure that there is 35mm of rod protruding from the hole. Use M12 levelling nuts with washers if the surface is not level. Leave bolts to set as per Chemset method statement. (Note: depending on surface fall, you may need longer rods for the levelling of the umbrella).
6. Place umbrella onto levelling nuts in desired orientation.
7. Level umbrella using levelling nuts. Once level, place nut and washer onto threaded rod and tension nuts to the correct torque.
8. Place base plugs on base.
9. Check umbrella is level and fit the supplied dome cap.
10. Erect umbrella canopy (ensure that the under canopy cables are not tangled or twisted) 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 mid-cast, 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.
11. Grout under base to fill gap created by levelling nuts.
12. Refer to the Horizon Anti-Inversion Cable Installation Method Statement to install the cables between the centre column and the arms.
13. For Horizon Umbrellas 3m SQ and bigger, please re-tension Anti-Inversion Cables when installed and then again in two or three weeks time.