

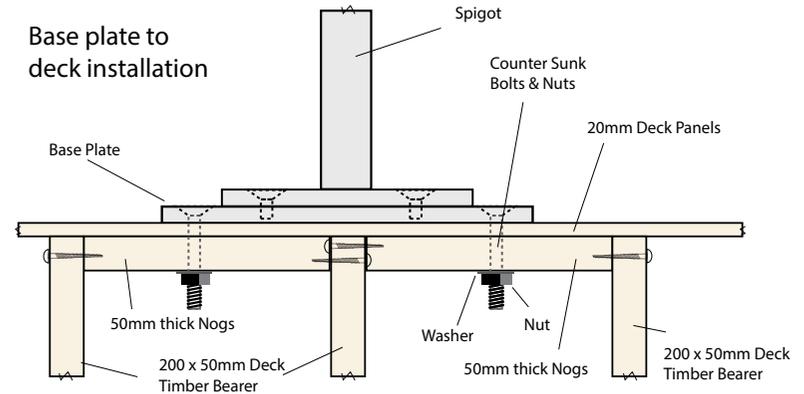
# Base Plate Installation Procedure

Your umbrella comes with a spigot. Once you have installed the base plate according to the instructions below, attach the spigot to the base plate using the supplied allen key and bolts. Lift the umbrella on to the spigot. This is recommended as a two man operation.

## There are 2 installation alternatives. Select which suits your situation.

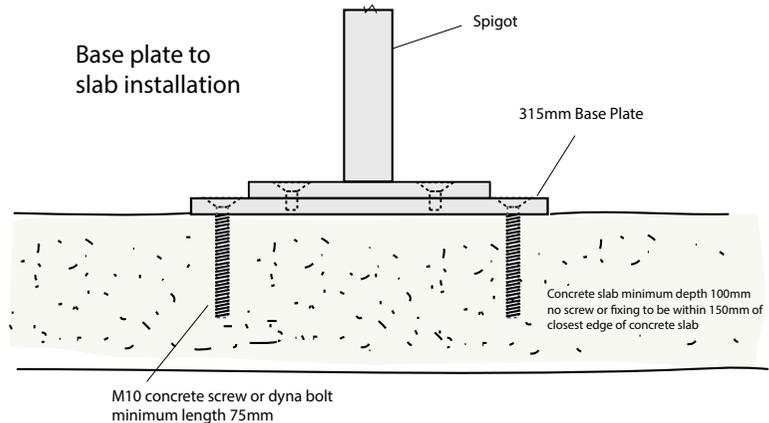
### (1) Fixing the base plate to a timber deck:

Your spigot must be bolted to the frame of the deck and not only to the deck planking. You need to fasten 1 or 2 "nogs" or "dwangs" or "braces" between the deck joists or bearers that form the structural frame of the deck. It is suggested that 2 nogs of 20cm width and 50mm -100mm thickness be secured hard up under the deck planking and between the deck bearers and fasten these braces to the joists/bearers with suitable fastenings. These may be large galvanised nails, Z nails, builders brackets or similar. The base plate should now be set in the required position and bolted through the deck planking and the fixed braces by using 12mm x 150mm stainless bolts and nuts with a large washer on the underside.



### (2) Fixing to a concrete slab:

When installing your umbrella on a concrete surface fix the base plate to the concrete using 4 concrete screws or "dyna-bolts" or similar fastenings. The diameter of the countersunk hole in the base plate is 12mm, so use M10 or M12 fastenings depending on whether they have external thread (ie. Make sure they fit through the base plate holes). The length of the fastenings will depend on the depth of the concrete and whether there are any tiles or paver's above the concrete. As a minimum, 75mm of fastening in concrete is required.



**Important:** Align one of the countersunk holes in the base plate with your desired 12'o'clock position on the umbrella.

**TIP:** The base plate comes with four "grub-screws" pre-installed in the threaded holes. Remove the grub-screws with an allen key prior to installation.

