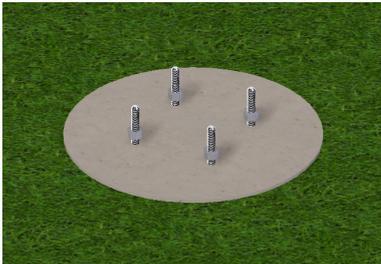
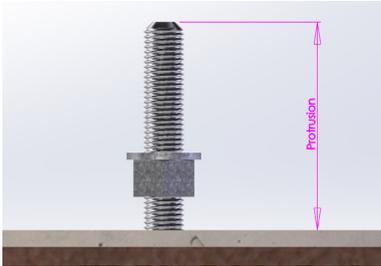
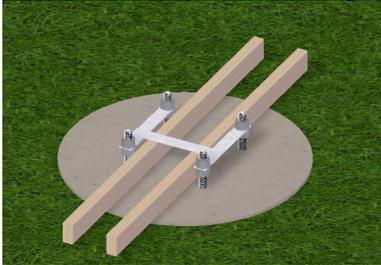
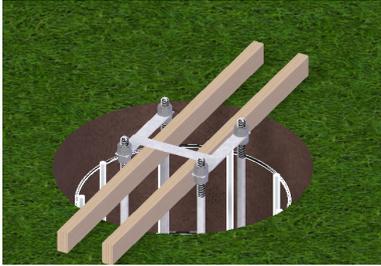


# Footing installation

## Generic Pier Footings



This is a general guide to the installation of pier style column footings. See datasheet DS-3024 for augered hole sizes and reinforcing cages for generic footings.

1. Connect the foundation bolts to the reinforcing cage if required.
2. Bore a hole to the required diameter and depth. Typically the hole will be 200mm deeper than the cage length.
3. Place the cage and bolts into the hole, making sure that the concrete cover is equal all round. Minimum concrete cover is 65mm.
4. Use wooden bearers to set the appropriate height for the bolts to protrude from the finished footing.
5. Coat the bolt threads with grease.
6. Pour the foundation and allow to cure.
7. Remove the top set of nuts and washers, the bearers and the bolt template.
8. Wind the lower nuts and washers until they are against the concrete.
9. Adjust 2 opposite sets of nuts so the washer are approximately 30mm clear of the concrete, and level them using a spirit level.
10. Adjust another 2 sets of nuts level with the first set.
11. Lift the column onto the bolts. Use a sling noose about two thirds of the way up the column, and use a second sling connecting this sling to the access door to prevent the noose from slipping.
12. Place the top washers and nuts onto all of the foundation bolts.
13. Adjust the column using the nuts until it is vertical.
14. Tighten any remaining nuts against the underside of the base plate.
15. Tighten the top nuts to the recommended torque.
16. Re-check the column is vertical and re-adjust as required.
17. Fill the gap between the column base plate and the concrete pier with a non-shrink grout, ensuring that a weep hole is left clear to drain condensation.

Bolt size	Protrusion	Bolt torque
M20	110mm	160Nm
M24	125mm	275Nm
M30	150mm	540Nm
M36	180mm	950Nm



Note that footing details are indicative only. A site assessment must be carried out by a qualified engineer in order to account for site specific factors such as wind loads, soil conditions and terrain category. This assessment is the responsibility of the installation contractor. Urban Lighting Group takes no responsibility for use of footing details shown on this sheet.