

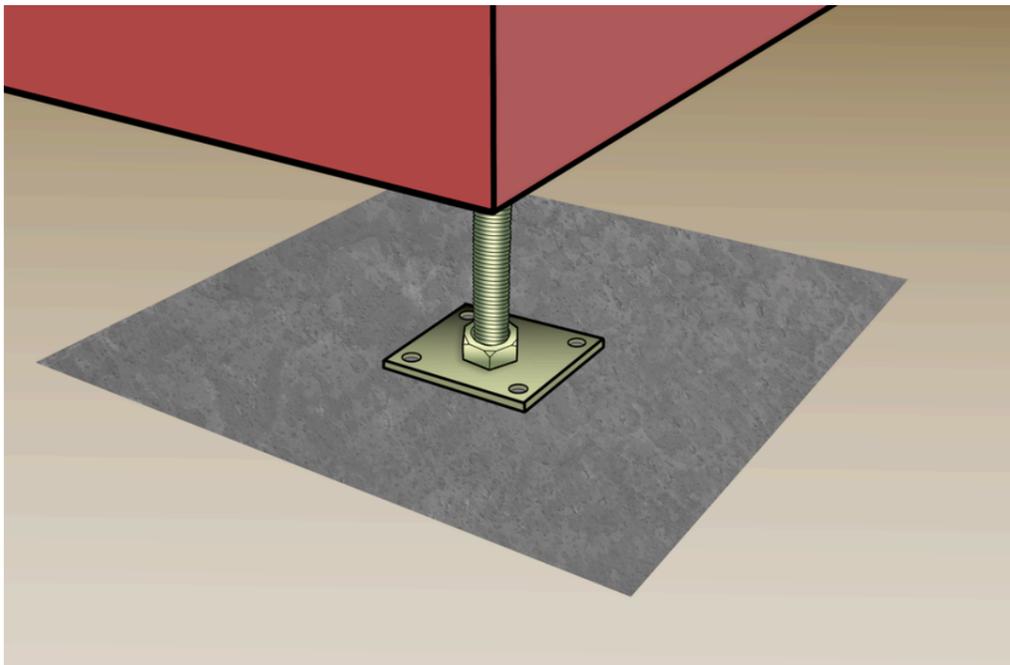
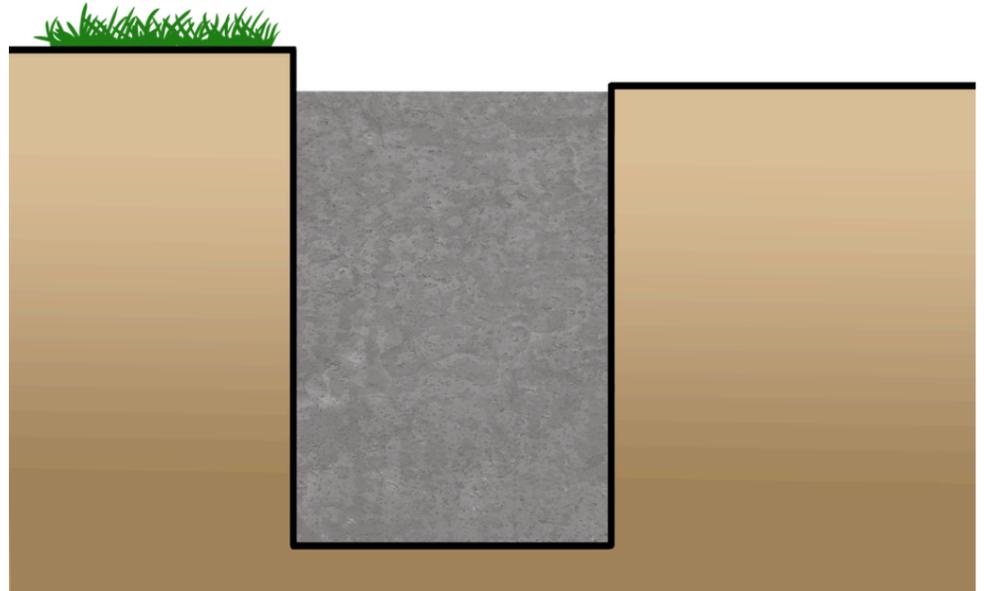
Durabase can be fitted on two types of foundations, concrete pads and ground screws.

Concrete Pads

Each pad needs to be at least 450mm x 450mm square, with a depth subject to both ground conditions and building regulation approval. A structural engineer should be employed to assist with determining the depth, and evidence of their workings should be passed on to your building regulations officer.

For non-building reg bases, a minimum depth of 450mm is required, but other factors should be considered; seek advice if in doubt. The depths of foundations are not the responsibility of Durabase.

All Durabases, no matter the foundation type, require a 150mm airgap from the top of the back cill to be dug out.



The pads should be dug down into firm natural ground, but other factors should be taken into account, such as:

- The type of subsoil.
- Presence of trees or roots.
- Location of drains.

Fill the holes with concrete (C40 grade recommended) to the level specified on the pad plan.

Pad plans are supplied a few days after the order has been placed and the deposit has been paid.

Example Pad Plan

Dur Ref:	7777
Customer Ref:	Joe Bloggs ref Example
Top of pad to top of steel base (Base DPC)	315mm

Fix the leg assembly down to the concrete pad using a 10mm x 50mm sleeve anchor, which is supplied with the base. Pre-drill the concrete using a 10mm masonry bit.

In winter months, the concrete should be protected from frost until hardened using a suitable covering.

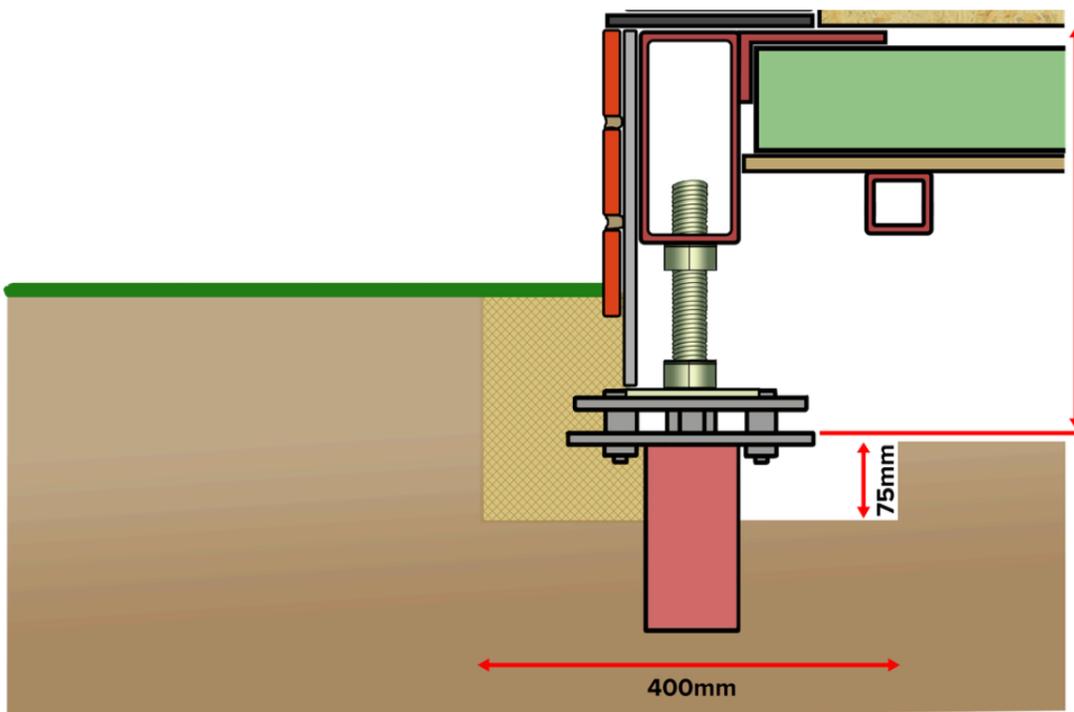
At no point should concrete pads be packed with blocks or bricks, and a pad should always be dug and filled with the concrete mix advised in this spec guide. The number of pads is determined by Durabase and will be a minimum requirement; all pad locations should be used as specified on the pad plan.

Ground Screws

Durabase is also compatible with a wide range of ground screws. As with pads, refer to the ground screw plan for screw depths and positions.

A ground screw company that can supply an adequate compression test certificate that passes the requirements of building regs should be employed to carry out the work of fitting the screws.

Durabase can give its customers an indicative number of screws that are required on a job and a maximum load per screw to allow our customers to get a price from a ground screw supplier for both a compression test and site fitting.

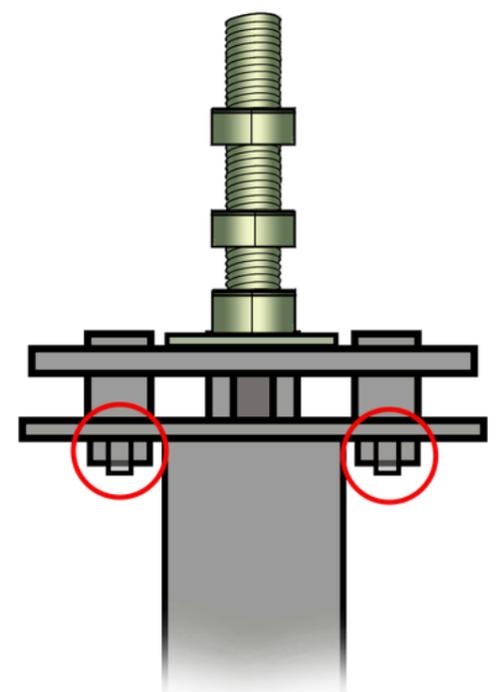


Once the ground screw company has performed a site assessment and compression test, and they are happy ground screws are suitable, the job can continue, and orders can be placed.

Customers should wait for the Durabase order to be placed before organising screw fitting; the screw plan can take up to 5 days to be sent to the customer following the order and receipt of deposit payment.

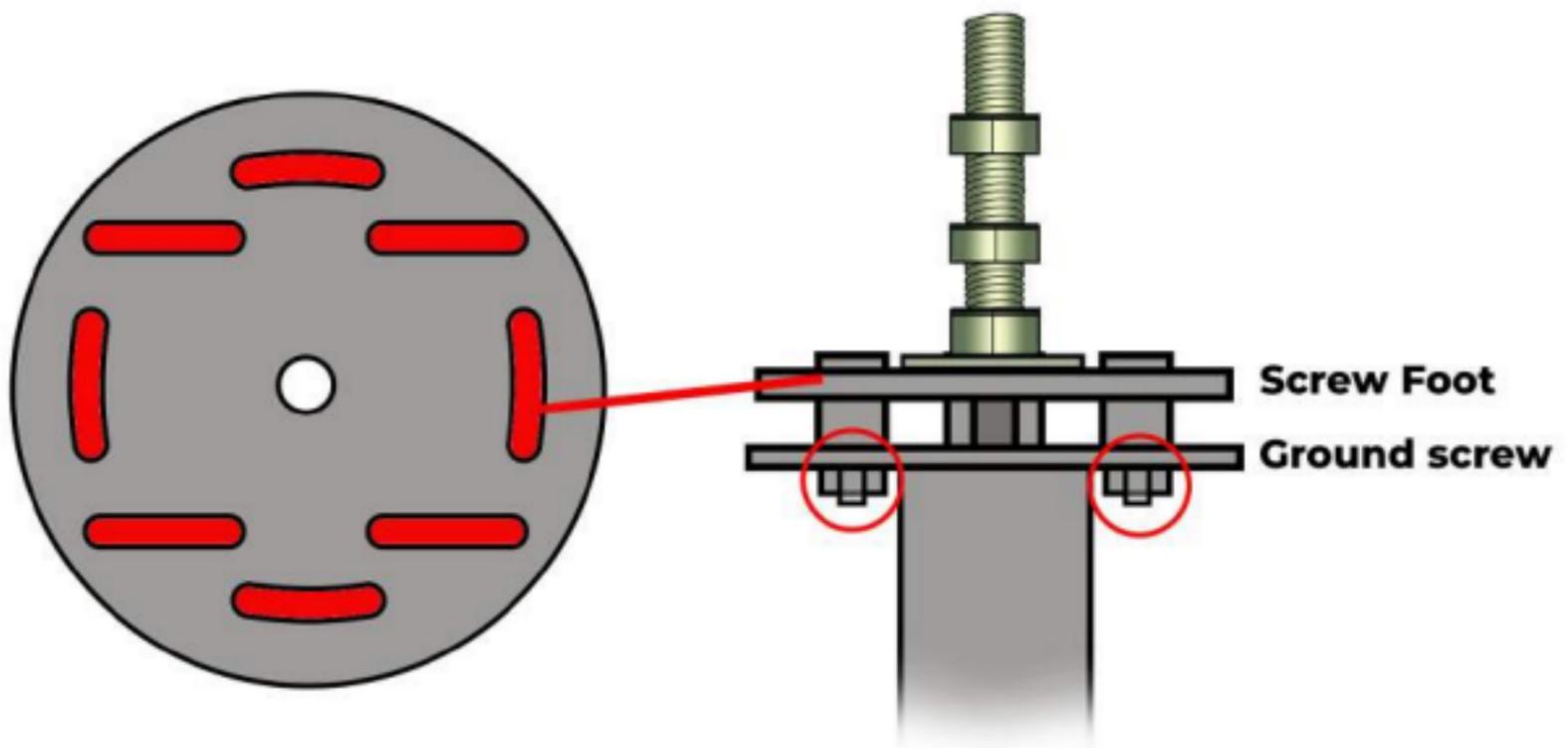
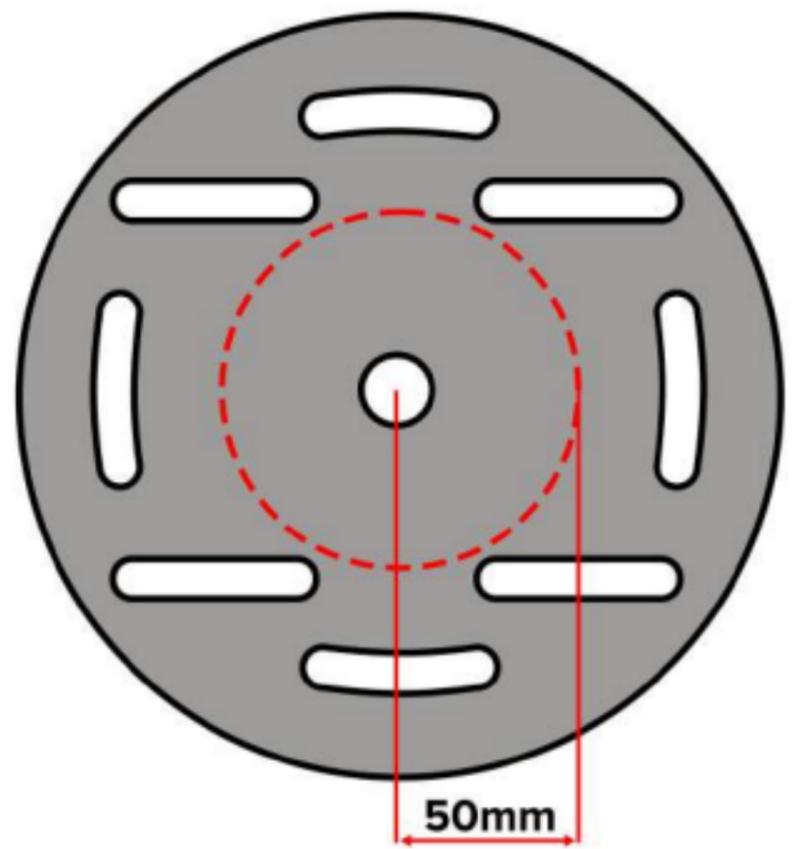
The ground screws are to be set beneath ground level to allow room for the Durabase skirt to also finish beneath ground level; any screws above the ground will obstruct the skirt. For this reason, ground screws will require a small hole dug in the position where a screw is required to ensure the screw can be fitted without obstruction. This hole will also allow you to access the bolt holes in the screw head to connect the screw foot.

It is the responsibility of the ground screw supplier to demonstrate that the applied vertical and horizontal forces can be resisted by the installed ground screws. A test certificate that states the passing of the required standard for building control must be supplied to customers once the job is complete.



Durabase accepts no liability for the ground screw specification, selection, fitting or positions. Ground screws need to be fixed accurately to the positions shown on the screw plan. The Durabase screw foot has a tolerance of 50mm.

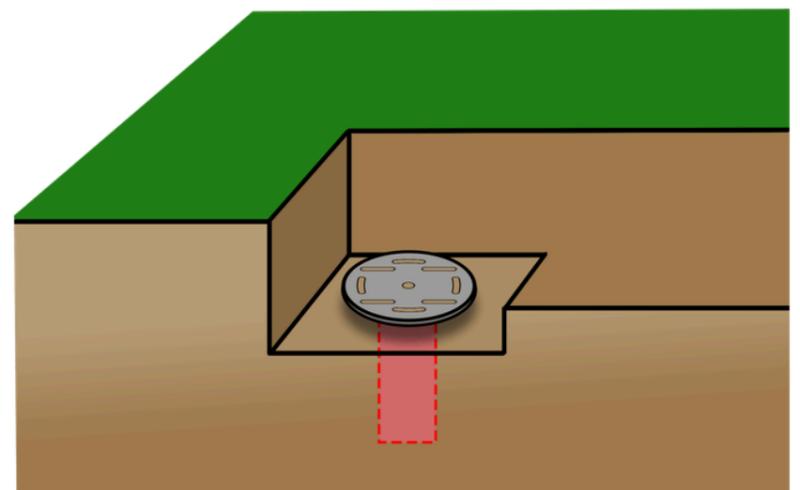
Any ground screws over 50mm away from the position shown may require a larger top plate to be fitted to the screw to ensure the screw foot has 4 points of contact. Holes can be drilled in the top plate to ensure bolt fixings are used. Larger screw tops will need to be supplied by the screw company.



Unless otherwise organised, the site should be fully prepared for a screw company to come and fit the screws.

All Durabases, no matter the foundation type, require a 150mm airgap from the top of the back cill to be dug out.

A clear setting-out point should be marked on the house to assist the screw company in determining the location of the base. The same applies to having the base DPC height marked on the house wall. This point is our datum for the screw heights; this measurement is also supplied on the screw plan supplied by Durabase.



Example Ground Screw Plan

Dur Ref:	7777
Customer Ref:	Joe Bloggs ref Example
Top of screws to top of steel base (Base DPC)	315mm