

UNDERGROUND VERTICAL TANK INSTALLATIONS

GUIDANCE NOTES FOR NON-TRAFFICABLE POLYETHYLENE
UNDERGROUND TANKS; 800, 1100, 1400 1700 AND 2,000 LITRE



ENDURAMAXX®
FLUID MANAGEMENT INNOVATION



email sales@enduramaxx.co.uk

INSTALLATION INSTRUCTIONS

CHECK LIST BEFORE INSTALLATION

Congratulations on purchasing this quality underground tank product from Enduramaxx. This tank is made from 100% polyethylene which has a high durability and resistance to environmental influences. If the tank is filled with a medium other than water, this must be approved by the manufacturer. The manufacturer assumes no liability for misuse of any kind if this has not been approved in advance.

Having selected the site for the underground tank check with all available maps and plans to ensure there are no concealed obstructions, existing pipes, cables, trunking, etc. that cross or impinge on the site. Under all circumstances, a physical survey should also be carried out for the suitability of the ground, maximum groundwater levels which occur and drainage capability of the subsoil and types of load which occur prior to installation.

Ask your Local Authority if in doubt.

A pre-survey of the site will also reveal any potential difficulties with flooding caused by the water table itself, run-off drainage from surrounding areas, ground saturation in storm conditions, or tidal conditions (if appropriate).

Where it is necessary to install the underground tank in ground where there are potential flooding problems, care should be taken to ensure that the tank cannot be forced out of the ground by the upward pressure of any ground water in the excavation. It should be noted that an underground tank will, when empty, float on as little as 50mm (2") of water, and the upward thrust of that tank fully immersed in water can be surprisingly high. For sites where the water table is above the bottom of the tank, the use of cement slurry as a bed will prevent the base of the tank from buckling. In any case, always ensure that:

- There is no damage to the tank. Inspect carefully for any damage from contact with sharp objects or by mishandling during transport to site or off-loading.
- The tank is surrounded in concrete to the top.

IMPORTANT NOTE

Installation of this tank must be undertaken only by suitably qualified and experienced personnel.

The UK's leading manufacturer of fluid storage products



ENDURAMAXX®
FLUID MANAGEMENT INNOVATION

www.enduramaxx.co.uk

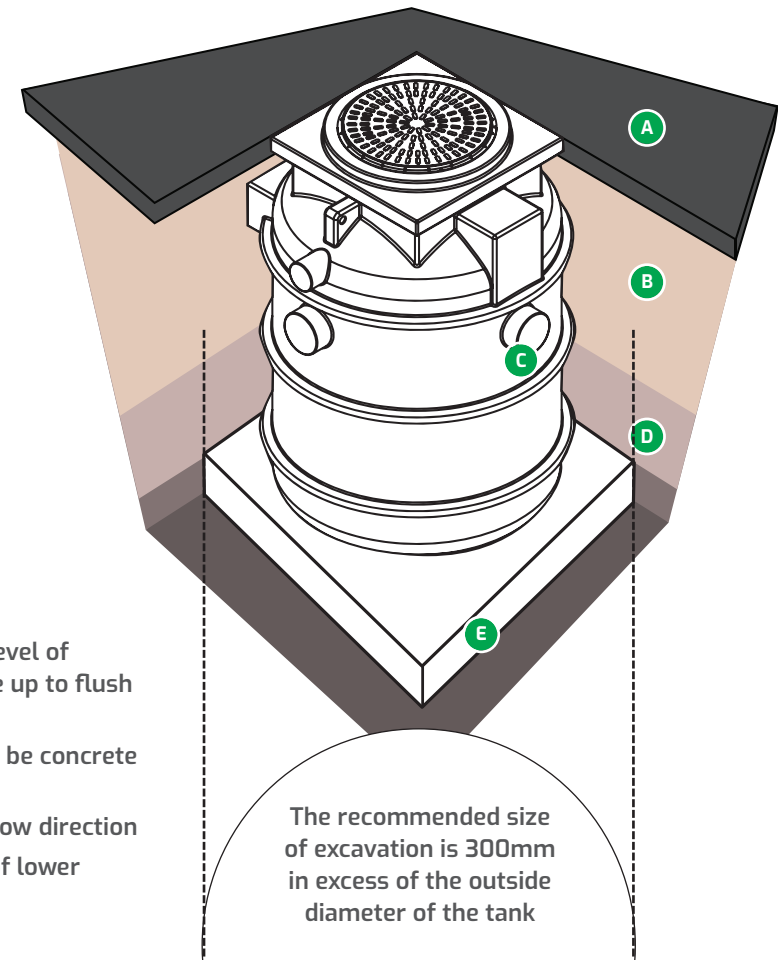


NON-TRAFFICABLE INSTALLATIONS WITH NO GROUNDWATER PRESENT

The following installation check list should not be regarded as site-specific. It is not definitive, as each installation/site is unique in some way. Please therefore also refer to the detailed specification sheet which accompanies the underground tank to be used in conjunction with these guidance notes.



Typical installation for
tank with galvanised lid



- A** Depending on the load, bring level of compacted backfill or concrete up to flush with the access cover
- B** Suitable backfill material - can be concrete all the way up if required
- C** Cut-off spigot(s) to suit inlet flow direction
- D** Concrete to a minimum level of lower locking ribs on tank
- E** 20mpa concrete base

The UK's leading manufacturer of fluid storage products

ENDURAMAXX
FLUID MANAGEMENT INNOVATION

www.enduramaxx.co.uk



NON-TRAFFICABLE INSTALLATIONS WITH NO GROUNDWATER PRESENT

1. Check the depth (invert) of the inlet pipe as this will determine the excavation depth – see tank inlet specification. In any case the minimum height from the bottom of the tank to the underside of the inlet pipe must be 600mm (24").
2. The recommended size of the excavation hole should be 300mm (12") more than that of the tank.
3. Lay a minimum of 100mm (4") of 20mpa concrete in the bottom of the excavation hole if there is no potential water ingress or flooding problem.
4. Whilst the base cement or concrete is still slurry – and using suitable lifting equipment - lower the underground tank gently onto the base, ensuring that no stones or other sharp objects are allowed to fall in at the same time, or damage to the tank may result.
5. Once the tank is in place, check for level and position, and adjust / prop as necessary before leaving it for the slurry to set, ensuring that the top of the excavation is covered with a tarpaulin or suitable PE sheeting to protect it from rain or wildlife.
6. Fill the tank with water up to and over the first rib - or in any case, at least 300 - 400mm (12 - 16") in depth.
7. Ensuring the tank is secure on its base – and will not move laterally – pour concrete up to at least the level of the first reinforcing rib on the tank.

Please note

- a. Local regulations and site conditions will determine whether concrete should be used further up than the first rib, or simply a suitable backfill material (e.g., sand or pea-shingle which will compact easily). It is recommended that no backfilling is undertaken until formal approval of the installation has been obtained from the Building Inspector
8. Finish around the tank top at ground level, ensuring the area is adequately protected from access by vehicles or wildlife (e.g., secure fencing) – see specification sheet for details of cover (lid) used and its load rating.
9. If the tank is sited in a driveway, it must be surrounded in concrete, and a reinforced concrete slab (min. 200mm thick) must be used to spread the load away from the tank on to a firm surround.

Damage to the tank must be avoided during compaction.

- Any covering must be constructed in such a way as to avoid any weight transference to the tank. Enduramaxx Underground Tanks are not load bearing.
- If the tank is sited in a driveway, it must be surrounded in concrete, and a reinforced concrete slab (min. 200mm thick) must be used to spread the load away from the tank on to a firm surround and fitted with a suitable lid.
- The Enduramaxx range of underground water storage tanks are suitable for potable water when installed to comply with relevant water bylaws. Your water authority should be consulted if you have any doubts about installation.

The UK's leading manufacturer of fluid storage products



ENDURAMAXX®
FLUID MANAGEMENT INNOVATION

www.enduramaxx.co.uk



WATER
TANKS



CONICAL
TANKS



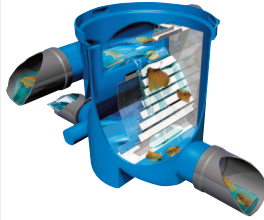
RAINWATER
HARVESTING



CUSTOM &
FABRICATED
TANKS



RAINWATER
FILTER KITS
& GUIDES



CHEMICAL
TANKS



PARTS &
ACCESSORIES



SPECIALIST
TANKS

SOLUTIONS FOR ALL

email sales@enduramaxx.co.uk

www.enduramaxx.co.uk

01778 562810

ENDURAMAXX®

FLUID MANAGEMENT INNOVATION

