BALMORAL TANKS

UNDERGROUND FUEL OIL TANKS INSTALLATION INSTRUCTIONS

Before installation

Before installing your Balmoral Underground Fuel Oil Tank, using the following guidelines, the suitability of your site should be checked for underground storage of fuel oil. It is the end users responsibility to ensure the tank application will meet any legislative requirements that may apply to their particular installation. The information is for guidance only and can form no part of any contractual agreement either with Balmoral Group Ltd or any other third parties. Balmoral Group Ltd can accept no responsibility for any assumptions or agreements made as a result of this information.

Failure to follow these installation guidelines will render any warranty null and void.

Product details

This range of tanks has been specifically designed to hold fuel oils (classes of oil - A2, C1, C2 and D, as defined in BS2869 Part 2: 1988):-

Diesel Kerosene Parrafin (burning oil)
All fill points, outlets, contents gauge and tank
ventilation are located in a basin in the tank neck.

Location of tank

restrict access.

All underground tanks MUST be buried in concrete. Superimposed loads, such as vehicles, should NOT be allowed within the protection area shown in the following illustration (minimum 2m from the outer edge of the tank). The area should be fenced or clearly marked to

If this cannot be followed a reinforced concrete slab must be designed/installed by a qualified civil/ structural engineer so that no loads are transmitted directly on to the tank.

The standard installation depth of 500mm, to the top of the tank body, **MUST NOT** be exceeded.

Plan view

(with hinged lid removed)

2"BSP (male) filler

2"BSP (male) filler

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contents gauge

copper fuel supply tube)

Clearly label the inside of the tank neck to identify the contents and any relevant safety information.

Installation Guidelines for all Ground Conditions

It is recommended that a full risk assessment be completed on the site, installation process and all parts prior to installation.

None of these tanks can be installed in wet ground conditions (where at any time the ground water may rise above the base of the tank).

- The excavation should allow for a minimum of 250mm all round the tank and approximately 500mm below the tank for hard core and concrete.
- Allow for suitable pumps to keep the excavation dry until the installation is complete.
- Fit suitable planking and strutting as necessary

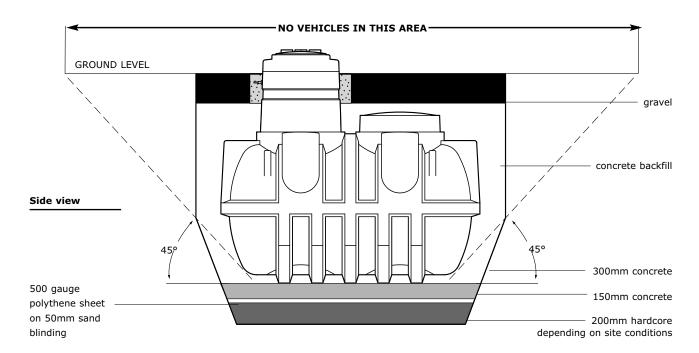
- Lay: A) 200mm thick hard core (or as necessary for site conditions)
 - B) 50mm sand blinding
 - C) 500 gauge polythene sheet over the base of the excavation
- If necessary set temporary shuttering to contain the concrete surround
- Lay a wet bed of concrete 150mm thick (strength 20N/mm2, slump test 50mm)
- Lower tank carefully onto the concrete. Check that the tank is true and level
- Haunch concrete 300mm up around base of tank
- Back filling;
 - A) Back fill evenly all around the tank with concrete (minimum 15 N/mm2) proceeding in 150mm layers. It is vital to ensure that the tank is filled with water 300-500mm ahead of the concrete back fill, then emptied of all water and refilled with the intended liquid to be stored.

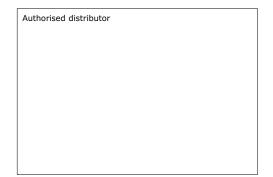
B) Alternatively the concrete can be placed around an empty tank in four progressive lifts with a 12 hour delay between each lift to limit the concrete pressure. The tank will have to be carefully restrained by temporary strutting to prevent any chance of flotation during this process.

Ensure that there are no voids or areas of differing pressure around the tank.

Do not use a vibrating poker.

- Complete concrete backfill to 200mm below tank lid
- Finish to ground level with 12-15mm gravel or earth
- Ensure that the tank lid is a minimum of 150mm above ground and is situated in an area where ground water will not lie
- Ensure that the tank lid has the ability to hinge open to 90°
- Ensure that all holes placed in the tank neck for fuel outlet pipes are sealed (e.g. with a suitable flexible grommet) to prevent ingress of water.







Balmoral Park, Loirston, Aberdeen AB12 3GY, Scotland Telephone +44 (0)1224 859000 Fax +44 (0)1224 859123 E-mail tanks@balmoral.co.uk

BALMORAL www.balmoral-group.com

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