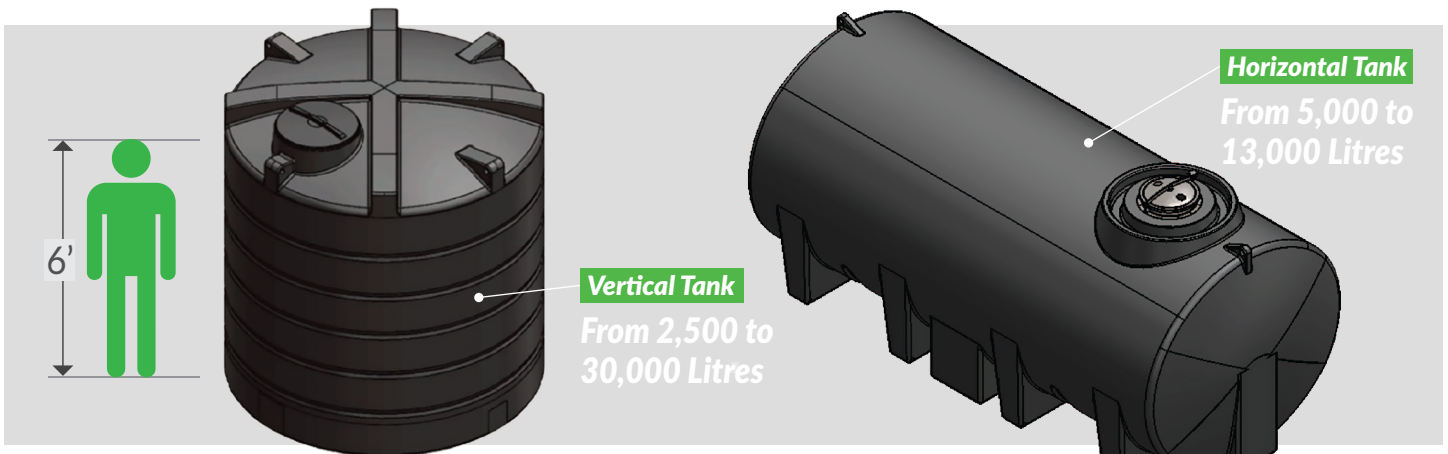




Installation Guidelines - Storage Tanks

While our polyethylene storage tanks are manufactured to exacting standards using high quality materials, improper handling, installation and use can damage them or their fittings. Follow the guidelines listed in this document to avoid problems. **PLEASE NOTE: You may void your warranty if you do not handle and install your tanks properly.**



1 Handling

When your tank arrives, it should be inspected for damage before the delivery is accepted. If problems of any kind are noted, you should contact us immediately on **0800 334 5742** (or **+44 (0)1922 716725**) so we can work with you to correct any problems as quickly as possible.

Extreme care should be taken when unloading your tank from the delivery lorry. **Please Note: unless agreed prior to delivery our standard delivery vehicles do not have the facility to unload your tank.**

The tank should be unloaded onto a smooth, flat surface that is free of rocks or other sharp objects that could cause damage. Be especially careful to guard against damage that can be caused by the blades on forklifts. The use of a crane is recommended to lift large tanks from the lorry. When your tank is being unloaded, moved or installed, damage to tank fittings must be avoided.

Do not allow the weight of the tank to rest on any of its fittings nor roll the tank over on any of them.

TOP TIP: tap water at 4°C has a specific gravity of 1. Therefore, 30,000 litres of water will weigh 30,000 KGs.

2 Installation

It is very important that tanks are installed on a surface that is smooth, firm and supports the tank completely. In almost all circumstances, a reinforced concrete base is the best solution.

Even when a tank stand is used, the stand must be mounted on a solid base. Be sure to secure tanks (and stands) to guard against movement that could occur from wind, seismic activity, traffic movement, motion of contents or other causes.

continued overleaf

TANK BASE REQUIREMENTS

We recommend that your tank base is a minimum of 600mm (24") larger than the diameter, length or width of the tank and has a depth of:

DEPTH	TANK SIZE
102mm (4")	Tanks up to 2,500 litres
152mm (6")	Tanks from 2,500 to 10,000 litres
204mm (8")	Tanks over 10,000 litres



Installation Guidelines - Storage Tanks

Installation continued...

Consider the location of the installation and be sure you have enough room to carry out any future maintenance activities. Polyethylene tanks may contract or expand due to temperature changes, atmospheric conditions and the nature of the contents. Planning is important regarding the space in which your tank is installed and the amount of material that is placed in them.

You should consider the work activities that will take place in the vicinity of the tank and take precautions against accidental contact. Impact with the tank, especially at low temperatures, may result in tank failure.

To avoid structural failure, certain tanks require support of the sides. Be aware of the properties of your tanks and the contents they will hold. Always consult our technical sales staff on your tank's application. Do not change its use to store liquids for which it was not designed.

Your tank is not designed to support the weight of machinery, equipment or any heavy load. Do not mount items like this on the top of the tank or on its fittings. If it is necessary for workers to enter the tank, great care should be taken to guard against asphyxiation or breathing of hazardous vapours and fumes. Take appropriate safety advice and precautions and wear PPE (Personal Protective Equipment).

 **Contact us for more information.**

3 Fittings and Accessories

Be aware of the type of fittings used on your tank. Hand tighten plastic bulkhead fittings. If they are over-tightened, the fittings may leak.

It is important that fittings, valves, pipes and other accessories are fully supported. Fittings and tank attachments should not carry any weight. Since different materials expand and contract at different rates, expansion joints should be used to accommodate those differences and prevent damage.

Care must be taken with the installation of accessories. Consult our documentation and website for available fittings and accessories.

4 Tank Use

Use your tank only for the purpose for which it was created. Do not apply contents under pressure or create a vacuum unless the tank is specifically rated for that use. Make sure that the materials you store in the tank are appropriate for the properties of the tank, fittings, gaskets and accessories.

5 Before Placing the Tank into Use

We recommend you test your installation by filling the tank with water before you put the unit into use to verify the integrity of the tank and its fittings.

