Sectional Tanks

The ideal answer for installations with difficult access

Forbes ranges of traditional one-piece tanks are now complemented with a high quality, affordable, easy to use, sectional tank system.

The one metre square panels are produced by low pressure GRP moulding techniques which results in an exceptionally robust and long lasting product with outstanding mechanical strength and impact resistance.

Whilst most sectional tank applications are for straightforward water storage, it is also possible to use the system to build other pieces of equipment where space or access constraints make the use of conventional one piece constructions impossible. The resin system used gives good resistance to a number of aggressive liquids. We are always pleased to discuss unusual applications and work with our customers to achieve imaginative solutions.

EASY TO BUILD

Precisely moulded panels, combined with modern sealant technology, make self assembly relatively easy. Even inexperienced assemblers, can achieve a satisfactory result.

HIGH QUALITY

Forbes panels are in a class of their own. The closed mould manufacturing process produces a smooth impermeable surface on both sides. This also produces panels with superior mechanical properties and chemical resistance to conventional hot press moulded systems. They are very accurately moulded, with no distortion, and are WRc approved for potable water.
GOOD VALUE

The novel moulding process incorporates a number of advanced technical features which allow high quality panels to be produced in inexpensive moulds, without massive automated machinery. Not only are the panels themselves competitively priced, the tanks are easy to assemble and are suitable for indoor or outdoor use.

STRONG

The robustness of the panels results directly from the moulding process. Impressively rigid, they incorporate continuous glass fibre reinforcement and have excellent impact resistance. A simple external easy-to-fit lightweight, hot dipped galvanised steel reinforcement system provides additional support from simple standard components. All reinforcement is external with no potential leakage points from tie rods passing through the tank walls.

LONG LASTING

Forbes sectional tanks are designed for a service life in excess of 20 years. They are UV and weather resistant, vermin-proof, corrosion-free and maintenance-free. Hot spun galvanised bolting is supplied as standard, stainless steel is available on request.

GOOD LOOKING

The tanks are aesthetically acceptable even in high specification architectural surroundings and blend well in modern industrial and architectural environments. The stock colour is BS 00 A 09 Mid Grey but other colours can be supplied on request.
TANK DESIGN
The Forbes sectional tank system is designed for building tanks up to 3 metres high using 1 metre square panels. A “half” panel to allow increments of 500mm in any dimension will shortly be added to the range. The tank walls are externally supported by galvanised steel box sections. Most tanks have closed tops, supported where necessary by lightweight internal plastic supports – in the case of open topped tanks it is usual to fit additional bracing across the top of the tank.

TANK SUPPORT
The tanks may be built either on a flat concrete plinth or supported on piers or beams at 1m centres to align with the base panel joints. Forbes can also supply a low cost quickly assembled modular support system to allow the tank to be elevated.

Piers or Beams
If the tank is to be built on piers or beams, these should raise the base of the tank approximately 500mm above ground level to allow adequate access for base assembly.

Modular Support System
We can supply a set of galvanised steel box section legs. These raise the tank base 500mm off the ground, supporting the tank base at each panel cross joint and are supplied with 400mm square base plates. All that is required for this is a flat concrete pad – the legs are inherently stable, but can be bolted down if you wish.

Flat concrete plinth
This is the lowest cost approach, however there are some disadvantages. Unless the tank is relatively small, it can be a little more difficult to use an externally flanged base as the base and bottom row of panels have to be temporarily supported for assembly and then lowered to the ground or slid into position depending on the site. An internally flanged base may be used to overcome this problem but complete drainage cannot be achieved with this arrangement.

Design Requirements
Whichever means of support is used, it should be ensured that the design is adequate to support the weight of the tank when full. We can advise on this when providing a quotation.

FITTINGS AND ACCESSORIES
Connections
A wide range of flanged or threaded connections can be supplied to suit customers’ requirements including configurations and vent screens to comply with Water Bye Laws and Regulations.

Level Control
Ball float valves can be fitted, either in the side of the tank, or in a 500mm housing replacing one of the roof panels - this maximises the available storage capacity.

Access
Access into the tank can be provided through a 600mm diameter manway with bolt-on or clamp-on cover or through a ball float housing which has an 800mm hatch in the top. External or internal ladders can be provided in galvanised steel, stainless steel or GRP.

On site assembly service
Full instructions make self assembly easy. However, where customers require a tank to be erected on site, Forbes have specialised erection teams to provide a quick and efficient assembly service. The additional cost for site assembly will be given on request.

Thermal insulation
Panels of 25 or 50mm thick polyurethane foam can be pushed into place and sealed after tank assembly and testing - choice and flexibility not possible with integral insulation.