INTRODUCTION

Fiberpol Inc has been the manufacturer of Fiberglass Reinforced Plastic (FRP) Tanks since the 1980’s. In 2007, we introduced the technically advanced Chop Hoop Filament Winding process, which produces the most reliable GRP underground tanks.

Several years of experience, both locally and regionally, has enabled us to create a product offering well suited to our market.

Our tanks are designed to meet & exceed the British standards (BS 4994) for Design & Construction of tanks in reinforced plastics. The manufacturing process is closely monitored and components are inspected for thickness, uniformity and hardness.

Fiberglass tanks are lightweight, easy to handle and easy to install. They are not susceptible to rust, exhibit excellent corrosion resistant properties and have a life expectancy in excess of 30 years. The smooth internal molded finish of our tanks provides superior flow characteristics and enables easy de-sludging and cleaning operations.

This Manual has been produced to assist architects, contractors and all other interested parties in the selection of Fiberpol tanks. The tanks shown in this document are a guide to what we supply, however we can design and build custom tanks to meet the specific requirements of our customers.
Fibercoul has developed a range of standard residential septic tanks that meet the local Environmental Protection Department (EPD) specifications. Fibercoul septic tanks have a smooth internal gel-coat finish, coupled with a physical shape that provides excellent flow characteristics and enables easy de-sludging. They are also low profile, which makes for cost effective excavating in bedrock. Fiberglass exhibits excellent corrosion resistant properties and has a life expectancy in excess of 30 years.

Below are the standard sizes and dimensions of septic tanks manufactured by Fibercoul Inc:

- **750 US GALLON**
- **1300 US GALLON**
- **900 US GALLON**
- **1100 US GALLON**
- **1500 US GALLON**
FIBERGLASS GREASE TRAPS

Fiberpol’s grease traps are available in a wide range of sizes. Fiberglass is well suited to this application due to its high chemical resistance.

Our standard grease traps are manufactured with 3 chambers which ensures efficient grease separation and retention.

25 GALLON
For residential applications.

120 GALLON
For condominiums or light commercial applications.

1500 US GALLON
For commercial applications.
245 SERIES FRP TANKS

TANK CAPACITY

ENDS - 250 gallons each; 500 gallons total
MID-SECTION - 245 gallons per linear foot

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420 SERIES FRP TANKS

TANK CAPACITY

ENDS - 1000 gallons each; 2000 gallons total
MID-SECTION - 420 gallons per linear foot
TYPICAL FIBERPOL LIFT STATION

Fiberpol manufactures lift stations to suit specific client requirements.

Inlet and outlet pipe fittings can be specified on a worksheet or, for local projects, inlets can be installed on site.
STANDARD ACCESSORIES FOR FIBERPOL FRP TANKS

PARTITIONS:
Partitions are available for all Fiberpol tanks and can be customised to meet specific client requirements.

PIPE FITTINGS:
Pipe stubs and fittings can be added to tanks as required.

ACCESS:
Standard access shafts are available in 18” and 24” diameters. They can also be custom built square to meet specific requirements.

PUMP MOUNTINGS AND BRACKETS:
SPECIFICATIONS FOR UNDERGROUND INSTALLATION OF FIBERGLASS TANKS

BACKFILL MATERIAL

Pea gravel or crushed rock is preferred as backfill material. Clean sand may also be used. Sand must be compacted in 12” lifts to above the tank.

Requirements for backfill are:

- Clean
- Non-cohesive, inert material
- Sand, gravel or crushed rock
- Particles not larger than ¾”

GENERAL EXCAVATION

Excavate allowing for easy placing of the tank and backfill, and for consolidating backfill around the bottom half of tank. Allowance should be made for any timbering or sheeting that may be needed in unstable ground conditions.

PLACEMENT OF TANK

Tank should be lowered into hole on to a leveled base of sand, minimum 4”.

FILTER FABRIC

Where there is risk of the migration of pea gravel with native soil, filter fabric is recommended.

VEHICLE LOADS

Tanks subjected to vehicle loads should have a minimum depth of cover of 2’, and a reinforced concrete slab designed to take the maximum load without it being transferred to the tank itself.