

Himarka Tanks – *Beyond Storage*

Himarka International is specialized in design, Engineering and Manufacturing of Glass reinforced plastic [GRP] Tanks, which includes GRP Water tanks, chemical storage, Purified water tank which are highly durable and resistant to Different weather condition.

GRP Panel Tanks are an ideal way to store water. The panel tank is a modular system, which then enables a tank of any desired size to be assembled and constructed. GRP Tanks are highly durable and can withstand heavy impact, weather, loads etc... Tanks can be installed at the ground level, basements, roofs or inside buildings as well. There are numerous advantages of using GRP Panel Tanks. Typical applications include residential or office buildings, hotels, hospitals private homes as well as other building complexes.

GRP Panel Tanks (Hot Pressed)

Glass-reinforced plastic (otherwise known as fiberglass or GRP or FRP in industry usage) is a fibre reinforced polymer made of a plastic matrix reinforced by fine fibres of glass.

GRP Water tanks were first introduced in the early 1970's and delivered substantial advantages over other types of tanks used at the time, proving them to be the ideal system for storing clean drinking water in all extremes of climate.

It is an inexpensive, lightweight, extremely strong, robust material and can be easily formed using moulding processes. This is the reason that more and more traditional water tanks are being replaced by GRP tanks.

Insulated and Non-Insulated

Himarka provides GRP Panel tanks in various sizes ranging from 1 m³ to 1500 m³ and heights of 1m to 4m. GRP Panels used to form the walls of the tank can be either Insulated or Non-Insulated depending on the application of the customer. These tanks are safe and hygienic for storage of drinking water and prevent algae or bacterial growth by isolating outside light. Sectional GRP Panels facilitate assembly at site with ease, making construction time shorter.



4 Meter Height GRP Panel Water Tank

Salient features

- High strength and durability
- Easy cleaning
- High corrosion resistance
- U.V. Resistance and Algae resistance
- Hygienic for storage of drinking water
- High Tensile strength
- Maintenance free

GRP Panel tanks in UAE are engineered for high performance and tested to the highest requirements of BS and ASTM standards, high quality raw materials are used under strict quality control during all manufacturing process. These GRP Panel Water Tanks in UAE are safe and hygienic

for storage of drinking water and prevent algae. Bacterial growth by isolating outside light. Sectional GRP panels, facilitate assembly at the site with ease making construction time shorter.

We use the latest technologies in the field of manufacturing. We are also in the field of GRP lining of superior and long term performance with high-quality durable materials, for RCC tanks, swimming pool, Rectangular Tank, Planter Box and Ladders. Himarka, Design, Engineer, Manufacture the complete range of GRP water storage tank including panel tank, Circular, Square, over ground and underground tank. In addition, we are also manufacturing Bulk GRP tank for Water & Chemicals. , Chemica supply and erection of sectional pre- engineered Zinalume® steel water tanks.

CHEMICAL TANKS

FRP Chemical storage tanks are custom made and suitable for all types of chemical storage. Fiberglass-reinforced plastic tanks are coated with an interior chemical resin and structural layer comprised of glass fiber.

FIBERGLASS TANKS

A standard fiberglass tanks are safer to water storage for longer period compared to plastic and other types of tanks. Fiberglass tank is made of Glass Reinforced Plastic (GRP).

GRP is composed of strands of glass. Each individual glass fiber is very fine with a small diameter. Glass reinforced plastic is lightweight and has good thermal insulation properties. It has a high strength to weight ratio, making it useful for the production of products such as water tanks, surfboards, canoes, small boat hulls and similar products. We have no set boundaries and are happy to work with your own designs, specifications and ideas. From a simple discussion

one of our fully trained design engineers will be able to talk you through the design process, incorporating the very latest in core material design and environmentally friendly solutions.

GRP Sectional Water Storage Tanks' panels are obtained from the process of chopped fiberglass and unsaturated polyester resin under high pressure and temperature. Panels are manufactured at a high tonnage press which molders heated up to 150 oC. Smooth, highly resistant, and cured panels are obtained through high molding and manufacturing technology. PIPECO GRP panels are WRAS approved, which represents the highest global standards. Panels are also tested by TSE, in terms of health and nutrition regulations. GRP Panels are UV stabilized; therefore do not allow algae to grow inside the tank.

GRP is not only non-adhesive, simple to work with, but it is also clean. GRP can be mounted on high-temperature molds, and through high pressure from a large hydraulic press, it can produce products with subtle surface and high strength.

GRP has a constant length of glass fiber contents, 1-inch fiber, uniform mechanical strength, and high fallibility and fluidity. The surface of GRP is smooth



and graceful, and GRP can shorten the finishing procedure as it has an excellent coating.

GRP can easily correct deformities with rib, boss, and insert unlike the traditional use of RFP. GRP can form molds with different thicknesses and has high mechanical strength.

General Specifications

Standard: BS EN 13280:2001 and British Standard BS 7491 Part 3:1994

Materials:

Sheet-Moulding Compound (SMC) consists of below specification

Resin – Isophthalic unsaturated polyester resin conforming to BS 3532 specification

Fiber Glass – Low alkali fiberglass conforming to JIS R3411 to R3417 or BS 3396, BS 3496, and BS 3749 specifications.

Testing Method : BS2782

Manufacturing Process : Hot pressed SMC compression moulding

Tank Structural Support :

External: Hot Dipped Galvanised Steel

Internal: SS316

Roof Support: GRP Pipes

Sealant : Non-toxic PVC

Bolt, Nuts, Washers :

External Standard: SS316 A4 Grade (Optional SS304)

Internal Standard: SS316 (In-contact with water)

Roof : Standard: SS316 (Optional SS304)

Ladder :

External: Standard Hot Dipped Galvanised Steel, 300mm width

Internal: Standard GRP

Optional : SS 304 and 316, 300mm width

Water Level Indicator :

Standard: Direct Reading Clear Tube Type

Optional: Reversed Reading Mechanical Ball Float Type (Cat & Mouse)

Nozzle Panel : Flat panels will be provided on request

External Braced System :

External: Hot Dipped Galvanized Steel Internal None (metal free inside, non-partitioned tank only)





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