

# GRP

## GLASS REINFORCED PLASTIC

Meaning -It's the storage container made from a composite material consisting of fine glass fiber embedded in a plastic resin matrix such as polyester or epoxy. Properties or characteristics

**A** Material composition: The glass fibers provide high tensile strength and structural integrity, while the resin acts as the binder that offers chemical and water resistance.

**B** Structure: they are available as one-piece units for both smaller needs or sectional tanks assembled from panels for large-scale storage.



## BENEFITS

### Corrosion resistance;

Free from rust or degrade when exposed to moisture or other chemicals.

### 2. Hygiene;

Due to nature of materials which does not support growth of algae bacteria like (legionella)

### 3. Fight weight;

Its lighter than steel tank, so make easily transportation and installation in satisfied areas.

### Durability;

They offer high UV resistance and thermal insulation, fasting 25 to 50 years with minimal maintenances.

### 5. Financial and environmental value;

#### • Low maintenance;

GRP requires no repainting, coating.

#### • Eco -friendly;

The material is recyclable and its light weight reduces carbon omissions during transportation.

### 6. Healthy;

#### • Non-toxic food grade high quality;

GRP tank uses food grade resins that are free from harmful chemicals, metallic particles or microplastics into the water.

#### • Algae prevention;

GRP panels are naturally opaque by blocking sunlight they prevent photosynthesis which effectively stops the growth of algae and fungi inside the tank.

#### • Stable water temperature;

GRP has natural insulating properties that helps keep water below 20 centigrade a critical threshold for preventing rapid bacterial regrowth.



## COMMON APPLICATIONS

- **Residential and commercial;**  
Portable water storage in apartment blocks, schools and hospitals.
- **Industrial;**  
Chemical storage, waste water treatments and cooling system.
- **Safety;**  
Firefighting water reserves and sprinkler system.
- **Agriculture;**  
Irrigation schemes and for animal drinking.
- **Rain water harvesting and environmental managements system**

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## DESIGN CONSIDERATION WHEN CHOSING A GRP TANKS



### REQUIREMENTS;

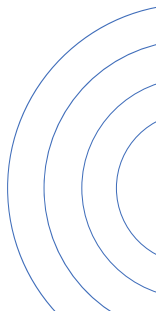
**Location and orientation;** indoor tanks may require insulation while outdoor ones need UV protection.

**Foundation support;** a flat reinforced base ensures even load distribution and prevent cranks.

**Capacity requirements;** determine the volume based on daily usage and backup needs.

**Panel vs monolithic design;** modular panel tanks are easier to install for large capacities, whereas monolithic tanks suit smaller spaces.

**Regulatory compliances;** ensures your GRP tank meets local safety and water quality standards



## CONTACTS

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