



MAGTECH GENERAL CONSTRUCTION & TRADING PTE LTD

**Providing High-Quality, Durable and Efficient
Water Storage Solutions Since 1995**

Company Overview:

Providing the best water tank solutions and services for over 35 years.



Introduction:

» For over three decades, Magtech General Construction and Trading Pte Ltd has been at the forefront of delivering top-tier water storage solutions and services in Singapore, Cambodia, and the Philippines. As the sole distributor of SUNNIK FRP Tanks in Singapore, we take pride in offering innovative and excellently manufactured products that meet the highest global standards.

Comprehensive Water Storage Solutions

At Magtech General Construction and Trading Pte Ltd, we specialize in providing comprehensive water storage solutions tailored to meet the specific needs of our clients. Our services include:

- » **Installation:** We offer professional installation services to ensure your water tanks are new water tanks are set-up correctly and efficiently.
- » **Replacement Services:** We provide expert replacement of outdated or faulty tanks

- and piping works, ensuring compliance with PUB submissions. Our team is dedicated to upgrading your systems to maintain optimal performance and safety.
- » **Repair and Maintenance:** Regular maintenance and prompt repairs are crucial for the longevity and efficiency of water storage systems. We provides thorough maintenance and repair services to keep your tanks in optimal condition.
 - » **Free Inspections for Leaks:** We offer free inspections to identify leaks and diagnose problems, providing the best solutions tailored to your specific needs.

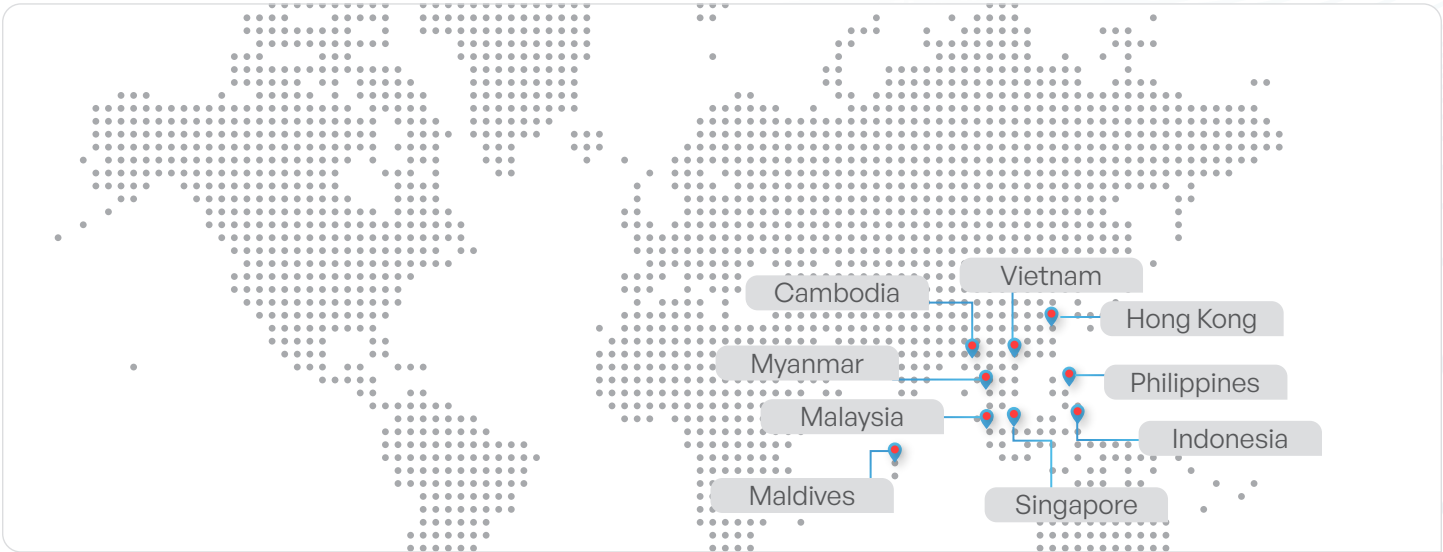
Unparalleled Expertise and Regional Experience

Our specialized team brings decades of experience and unparalleled expertise in the water storage industry. With a deep understanding of water storage solutions, we are committed to delivering the highest quality experience to meet your needs. Our extensive regional experience in installing tanks across Asia, including Hong Kong, Singapore, Malaysia, Myanmar, Cambodia, the Philippines, Maldives, and Indonesia, ensures the utmost reliability and professionalism for your project.

Key Strengths of Our Team

- » **Decades of Experience:** Our team members have years of expertise in the water storage industry, enabling them to provide top-notch solutions and services.
- » **Commitment to Quality:** We dedicate ourselves to maintaining the highest standards of quality in every project, ensuring our clients receive reliable and efficient water storage solutions.
- » **Precision and Accuracy:** Our experts are meticulous in their approach, ensuring that every aspect of your water storage needs is addressed with precision and care.
- » **Exceptional Installation Team:** With over 4000 projects installed globally, our team of installers brings unparalleled skill and dedication to every project. Their hands-on experience ensures that your water storage solutions are implemented seamlessly and efficiently.

With vast experience behind, Magtech General Construction and Trading Pte Ltd continues to set the standard for excellence in the water storage industry. Trust us to provide the best solutions and services for all your water storage needs.



Installed tanks in over 4000* projects globally

Discover the excellence of our GRP Water Tanks, the ideal solution for robust and reliable water storage. Crafted from high-quality Glass Reinforced Plastic (GRP), these tanks offer exceptional durability and corrosion resistance. Engineered to meet the diverse needs of industries such as water treatment, agriculture, and industrial processes, our GRP Water Tanks exemplify innovation and quality.



Non-Potable Purpose

They are ideal for applications such as cooling tower tanks, make-up water tanks, rainwater storage tanks, chemical water storage, and other industrial storage needs.



Potable Purpose

These tanks are suitable for drinking water storage in residential, industrial, and commercial buildings, including transfer or rooftop tanks.



Why Choose
FRP/GRP over Conventional tank?

Conventional concrete and mild steel water storage tanks often suffer from aging, wear, and corrosion. Concrete tanks can crack due to erosion and natural disasters, leading to water contamination and leakage, and they are usually beyond repair. Additionally, mild steel tanks rust and easily conduct heat, making them inefficient in hot climates.

In contrast, fibre-reinforced polymer (FRP/GRP) tanks are made from a strong yet lightweight glass fibre-reinforced plastic composite used in various industries such as aerospace, automotive, marine, and construction. FRP tanks have a high strength-to-weight ratio, an exceptionally long lifespan, and are easy to maintain and heat-resistant.

FRP sectional panel tanks overcome the drawbacks of traditional liquid storage methods. They are durable, leak-free, highly cost-effective over their lifecycles, easy to install, reconfigure, and relocate, and sanitary. These qualities make them

perfect for diverse uses, including drinking water storage, commercial mining, food and factory production, air conditioning MAUs, fire protection, industrial liquids, rainwater harvesting, seawater storage, and wastewater storage.



Advantages of Choosing
GRP/FRP Water Tank

- » **Long-Lasting Durability:** FRP tanks are engineered to resist aging, wear, and corrosion, ensuring long-term reliability.
- » **Leak-Proof Joints:** The panel joints are sealed with a UV-resistant, food-grade closed-cell sealant that withstands harsh weather conditions. The convex shape of the sectional panels distributes pressure toward the joints, reinforcing the seals and preventing leakage.
- » **Corrosion-Free:** Unlike steel and concrete, FRP does not corrode, reducing the risk of leakage and contamination of stored water.
- » **Versatile and Easy to Install:** The modular panel design allows for installation in various shapes and sizes. The tanks can also be built around constraints and obstacles such as pillars, making them suitable for otherwise unusable spaces.
- » **Cost-Effective Over Time:** While concrete, mild steel, and plastic tanks may cost less initially, the longer service life and reduced maintenance and repair costs of FRP tanks result in a lower total cost of ownership. Concrete and steel tanks are expensive to install and repair, often requiring relining. FRP panel tanks need no lining or coatings that can degrade or peel. They can be repaired by replacing individual panels and are low-cost to transport and install.
- » **Minimal Maintenance:** The floors of FRP sectional panel tanks feature convex panels and a concave draining panel, allowing water to drain freely and preventing stale water from accumulating during cleaning. The roof panels have an anti-slip surface for safe walking. Indicators on the side panels display the water level, ensuring maintenance staff always know the levels at a glance.
- » **Superior Hygiene and Contamination Prevention:** Since FRP retains its integrity over time, it does not release contaminants into stored water. Panels undergo an SMC hot-pressing process that eliminates styrene residue and creates a mirror surface that organic matter cannot adhere to. Unlike other plastic tanks, they have zero light penetration, preventing algae and bacteria growth.
- » **Environmentally Friendly:** FRP tanks are eco-friendly as they reduce the need for frequent replacements and maintenance. The materials used in FRP tanks can be recycled, contributing to environmental sustainability. Additionally, their lightweight nature means lower transportation emissions, further reducing their carbon footprint.

We offer top-notch stainless steel water tanks crafted from 316 and 304 stainless steel. These tanks are ideal for both residential water storage and fire protection.



Non-Potable Water Storage

SS304 pressed steel tanks, typically installed outdoors, serve as sprinkler water tanks, hose reel water tanks, and fire water tanks. Grade SS304 resists corrosion from various chemicals and is suitable for general liquid storage and fresh water environments. While it is the most cost-effective option, it is more prone to oxidation over time compared to SS316.



Potable Water Storage

SS316 water tanks store drinking water in residential, industrial, and commercial buildings. They are favored for their hygienic properties and required by food processing industry standards. Grade SS316 offers superior corrosion resistance due to its high molybdenum content, making it ideal for harsh environments like seawater treatment plants.

» **Grade ss304**
resists corrosion from a wide range of chemicals and is formulated for general liquid storage and fresh water environments. It's the least costly option but more prone to oxidation over its service life than ss316 and ss444.

» **Grade ss444**
has a lower price point but with the same corrosion resistance as ss316 due to low nickel content. However, ss444 is specially produced and a minimum order quantity is required.

» **Grade ss316**
maximizes corrosion resistance due to its high molybdenum content - suitable for harsh environments like seawater treatment plants with high chloride levels.

Modular Stainless Steel Water Tank
Flexible and Easy to Install

Our stainless steel water tanks are modular, constructed from panels that are either 1m x 1m (approx. 3ft. x 3ft.) or 1.22m x 1.22m (approx. 4ft. x 4ft.), making them simple to install. Their size, shape, and location are highly adaptable both at the time of installation and if needs change later. They are watertight thanks to a state-of-the-art nontoxic sealant between the panels.

Panels are easily transported in pallets of up to 25 per bundle (equating to one 24,000-liter tank). This portability minimizes transportation costs and facilitates transport to rural areas. Each pallet weighs less than 1000kg and can be unloaded separately, eliminating the need for cranes or other costly heavy equipment. No special skills or tools are needed for assembly – the bolting system requires only an impact wrench. If a tank needs repair, only the affected panels need to be replaced – not the entire tank.



Why Choose
Stainless Steel Water Tank?

- » **Lower Lifecycle Cost:** While tanks made from other materials may have a lower initial cost, the longer lifespan and reduced maintenance and repair expenses of stainless steel tanks result in a lower total cost of ownership.
- » **Durability and Longevity:** Stainless steel’s strength and flexibility ensure its structural integrity remains intact despite environmental changes, unlike concrete tanks which are susceptible to cracks and leaks.
- » **Easy to Clean:** The ultra-smooth surface of our stainless steel tanks prevents sludge and mold accumulation, making them easy to clean with just a pressure wash.
- » **Most Hygienic:** Stainless steel is the most sanitary material available for water containment, making it the best option for storing drinking water for communities.
- » **Recyclable and Sustainable:** Steel is the world’s most recycled material. New stainless steel is 60-70% recycled with no loss of quality, and its production is energy efficient, minimizing its carbon footprint.



Magtech offers a range of water storage solutions, including HDG, HDG+HDPE, and mild steel. We design our pressed steel water tanks to meet your needs for fire fighting, production, make-up, or food-grade liquid containment.

Fire Fighting

Our fire fighting solutions include sprinkler water tanks, hosereel water tanks, and general fire water tanks. In Singapore, these tanks are mostly made of HDG (Hot dip galvanized) material, which withstands weather and climatic changes without much damage to the panels. HDG pressed steel panels come in various sizes, making them suitable for different purposes. Because of their weather resistance, HDG pressed steel water tanks are widely used for outdoor installations.



Manufacturing Specifications	
General Application	Water storage for air-conditioner make-up, fire fighting, and food production (with Food Grade Epoxy Coating).
Standards	Pressed steel sectional water tanks (rectangular) constructed with hydraulically pressed flanged panels conform to B.S. 1564 and hot dip galvanized to ISO 1461:2009.
Materials	Mild steel used in the plates, stays, cleats, and pads all conform to the requirements of BSEN10025:2004.
Tank Panels	Tank panels of 1.22m x 1.22m or 1m x 1m square are hot dip galvanized to ISO 1461:1999.
Tank Covers	Standard tank covers are hydraulically pressed 3.0mm / 1.5mm thick x 1.22m x 1.22m or 1m x 1m square and are hot dip galvanized.
Stays and Cleats	The sides and ends of all tanks are supported by stays at the junction of two or more plates. The stays and cleats are made from mild steel and hot dip galvanized.
Bolts and Nuts	Bolts, studs, nuts, and washers conform to B.S. 4190 and are hot dip galvanized.
Seismic (Earthquake)	Up to 1.5G with external reinforcement.
Joining Compounds	Non-toxic, odorless PVC Foam Sealant and butyl sealant or equivalent are supplied.
Manhole and Vent	Each tank or compartment includes one 600mm square manhole and one 100mm diameter vent with insect-proof attachment on the tank cover.
Ladders	Hot dip galvanized ladders for internal and external tank access are provided (aluminum ladders on request).
Level Indicator	Mild steel or galvanized indirect reading level indicator is available on request.
B.S. 1564: 1975 (Revised)	For cold liquid with a density of 1.0 and a temperature not exceeding 38°C.
Tanks 4ft Height	Bottom, sides, and ends: 5mm.
Tanks 8ft Height	Bottom, sides, and ends: 5mm.
Tanks 12ft Height	Bottom, sides, and ends: 5mm.
Tanks 16ft Height	Bottom and first tiers of sides and ends: 6mm. Second, third, and top tiers of sides and ends: 5mm.



Contact Us

Location:

SINGAPORE - 180 Woodlands Industrial Park
E5 #01-15 Woodlands Auto Hub (S) 757512

Email:

magtechgeneral@gmail.com /
kevinseah@magtechgeneral.com.sg

Phone:

+65 6365 7728 / +65 8700 1377

Fax:

+65 6365 7729