

Corporate Culture :

We deeply engage in environmental protection with professionalism and pragmatism, pursue win-win development through innovation and collaboration, and safeguard greenness with a sense of responsibility and mission.

Core Values :

Rooted in technology to uphold the original aspiration of environmental protection, gain trust with quality to build customers' reliance, and pool strength through collaboration to create shared prosperity value.

Core Values :

Taking technological R&D as the core, expanding environmental protection services such as water governance, and linking production and sales to achieve internal and external development.

CONTACT US

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JOVIA WATER TANK

Trusted Eco-equipment Supplier

Guangzhou Jovia Environmental technology Co.,Ltd ||

ABOUT US



|| JOVIA WATER TANK

Guangzhou JOVIA Environmental Technology Co., Ltd is a leading manufacturer specializing in the design, manufacturing and supply of modular storage tanks, water treatment equipment and biogas engineering equipment. Our core products include sectional water tanks, corrugated steel tanks, glass-fused-to-steel tanks, epoxy-coated assembled steel tanks, DAF dissolved air flotation, sludge scrapers, packaged wastewater treatment plant, anaerobic digestion system and biogas purification system.

With extensive experience in environmental engineering, we provide comprehensive solutions for municipal, industrial and agricultural applications. Our products have been successfully exported to over 30 countries and regions worldwide, earning recognition for their reliability and efficiency.

Committed to technological innovation and sustainable development, we offer customized engineering solutions with strict quality control. From design to manufacturing and after-sales service, JOVIA ensures each project meets international standards. We continue to expand our global presence, delivering cost-effective and environmentally friendly solutions to clients worldwide.



|| Corrugated Steel Water Tank

The corrugated plate water tank is assembled on site with galvanized corrugated steel plates, lined with high-quality anti-aging PVC waterproof lining or rubber waterproof lining, with a service life of more than 10 years. It is an economical, efficient and safe large-scale water storage facility, suitable for various irrigation and domestic water applications, such as greenhouse irrigation, greenhouse rainwater harvesting, temporary water storage on construction sites, etc.

Structure of Corrugated Plate Water Tank

- Galvanized corrugated steel plate (0.8–1.6 mm)
- Lined with high-quality anti-aging PVC waterproof membrane (0.75 mm) or rubber waterproof lining (0.75–1.00 mm)
- Water tank cover (steel structure, fixed plastic film, floating film)

Lining Material Description

PVC: Main component is polyvinyl chloride, a polymer material in which one hydrogen atom in polyethylene is replaced by a chlorine atom. Various products are made from PVC resin with additives and widely used.



Advantages of Corrugated Steel Water Tanks

- 1. Durability and Strength** – Corrugated steel tanks offer excellent durability and high resistance to external impacts, severe weather conditions, and seismic activity.
- 2. Corrosion Resistance** – Galvanized or coated steel options provide outstanding rust and corrosion resistance, extending the service life of the water tank.
- 3. Large Storage Capacity** – These tanks are available in various sizes and can store large volumes of water, making them ideal for industrial and agricultural applications.
- 4. Modular & Easy to Install** – Prefabricated components allow fast and cost-effective on-site assembly, reducing installation time and labor costs.
- 5. Cost-Effective** – Compared to concrete or fiberglass tanks, corrugated steel tanks have a longer service life and lower maintenance costs.
- 6. Eco-Friendly** – Many corrugated steel tanks are made from recyclable materials, making them a sustainable choice.
- 7. Customizable** – They can be tailored to specific requirements with linings, coatings, and additional features such as roofs or insulation.
- 8. Seismic Stability** – Corrugated steel water tanks are designed to withstand seismic forces, making them an ideal choice for earthquake-prone areas. Their flexibility and structural integrity allow them to absorb and dissipate energy, minimizing the risk of damage during earthquakes.

Applications of Corrugated Steel Water Tanks

- 1. Agriculture & Irrigation** – Used for storing rainwater, groundwater, or irrigation water for farms, livestock, and crop production.
- 2. Municipal Water Supply** – Commonly used for drinking water storage in rural or urban areas.
- 3. Fire Protection** – Essential for fire suppression systems in residential, commercial, and industrial areas.
- 4. Rainwater Harvesting** – Ideal for collecting and storing rainwater for domestic and commercial use.
- 5. Industrial Water Storage** – Used for storing process water, cooling water, or wastewater in manufacturing plants, mines, and power plants.
- 6. Emergency Water Supply** – Critical for disaster preparedness, providing a reserve of water for emergencies.
- 7. Drinking Water Storage** – With proper linings and coatings, these tanks can safely store drinking water for residential and commercial use.
- 8. Fish Farming Tanks** – Ideal for creating a controlled environment for aquaculture. Corrugated steel tanks are used for fish farming to breed, raise, and maintain aquatic life in a stable water environment.

Capacity Chart

| Height (m) \ Diameter (m) | 1.18 | 2.3 | 3.41 |
|---------------------------|--------------------------|-----|------|
| | Volume (m ³) | | |
| 3 | 8 | 16 | 24 |
| 4 | 14 | 28 | 40 |
| 5 | 23 | 45 | 66 |
| 6 | 33 | 64 | 96 |
| 7 | 45 | 88 | 130 |
| 8 | 59 | 115 | 170 |
| 9 | 75 | 146 | 216 |
| 10 | 90 | 180 | 270 |
| 11 | 110 | 218 | 320 |
| 12 | 130 | 259 | 380 |
| 13 | 156 | 305 | 450 |
| 14 | 180 | 350 | 520 |
| 15 | 208 | 406 | 600 |
| 16 | 237 | 460 | 680 |
| 17 | 268 | 520 | 770 |
| 18 | 300 | 580 | 860 |
| 19 | 334 | 650 | 963 |
| 20 | 370 | 720 | 1060 |

Note: This table is for reference only. Water tanks can be customized.

PROJECT CASE





PRODUCT INTRODUCTION

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Jovia Sectional Water Tank

FRP(GRP) | Hot dipped galvanized steel | Stainless steel | GSC





|| Jovia Sectional Water Tank

- With over a decade of dedicated experience, Jovia Environmental provides one-stop services covering R&D, production, sales, installation and after-sales support for water storage equipment. We are a leading supplier of sectional water tanks in China.
- The company boasts standardized production facilities, advanced molding, welding and hot-dip galvanizing production lines, as well as a professional team for technical development and on-site installation. All products have obtained the ISO9001 Quality Management System Certification and fully comply with national food hygiene standards.
- Adhering to the core principles of “Safe Water Supply, Green Environmental Protection, and Customized Adaptability”, we develop four series of sectional water tanks for various applications, including civil construction, industrial production, municipal engineering, fire protection, chemical and pharmaceutical industries. We are committed to delivering customized manufacturing solutions to our customers.

CATAGORY

- **Jovia manufacturing 4 types modular water tank:**
 - a). FRP (Fiberglass Reinforced Plastic) as known as GRP (Glassfiber Reinforced Plastic)
 - b). Hot dipped galvanized steel
 - c). Stainless steel (Welding type and bolted type)
 - d). GSC (Composite with Galvanized and Stainless steel)
- **All tanks are combined by pre-fabricated panels.**
- **Except Stainless steel welding type, all other tanks are assembled by bolts and nuts.**



Application

| Type | Application | | | | |
|-----------------------------|---------------|---------------|------------|----------|-------------|
| | POTABLE WATER | FIRE FIGHTING | IRRIGATION | BREEDING | WASTE WATER |
| FRP(GRP) | √ | √ | √ | √ | √ |
| Hot dipped galvanized steel | | √ | √ | | √ |
| Stainless steel | √ | | | √ | |
| GSC | √ | | | | |

FRP/GRP Water Tanks

Jovia FRP/GRP water tanks are food-grade molded, corrosion-resistant, lightweight, leak-proof and long-lasting. Fully customizable for civil, fire protection, chemical and other water storage scenarios.



PHYSICAL PROPERTIES

| Physical Properties | Standard requirement | Result |
|---------------------|----------------------|---------|
| Tensile strength | ≥60 MPa | 67 MPa |
| Bending strength | ≥120 MPa | 186 MPa |
| Bending modulus | ≥10 GPa | 12 GPa |
| Pap hardness | ≥60 HBa | 64 HBa |
| Bibulous rate | ≤0.5% | 0.11% |
| Glassfiber content | ≥25% | 28% |

TECHNICAL DATA

PANELS

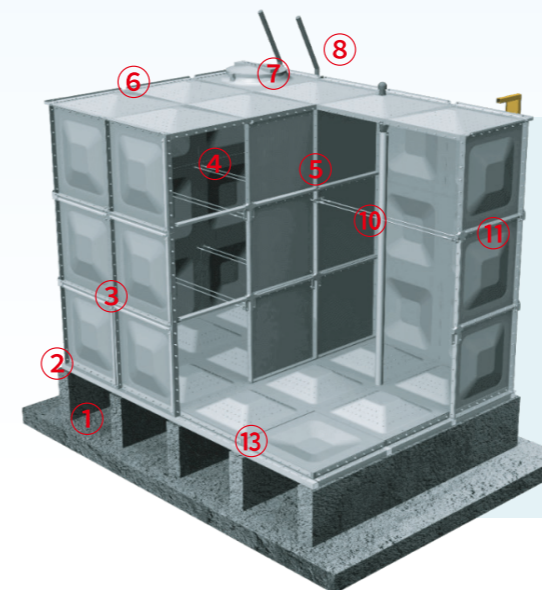
MATERIAL

1. Food grade unsaturated polyester resin
2. Alkali free twist glass fiber roving
3. Thickener (MgO), initiator (curing agent), cross linking agent, etc.



SIZE & WEIGHT

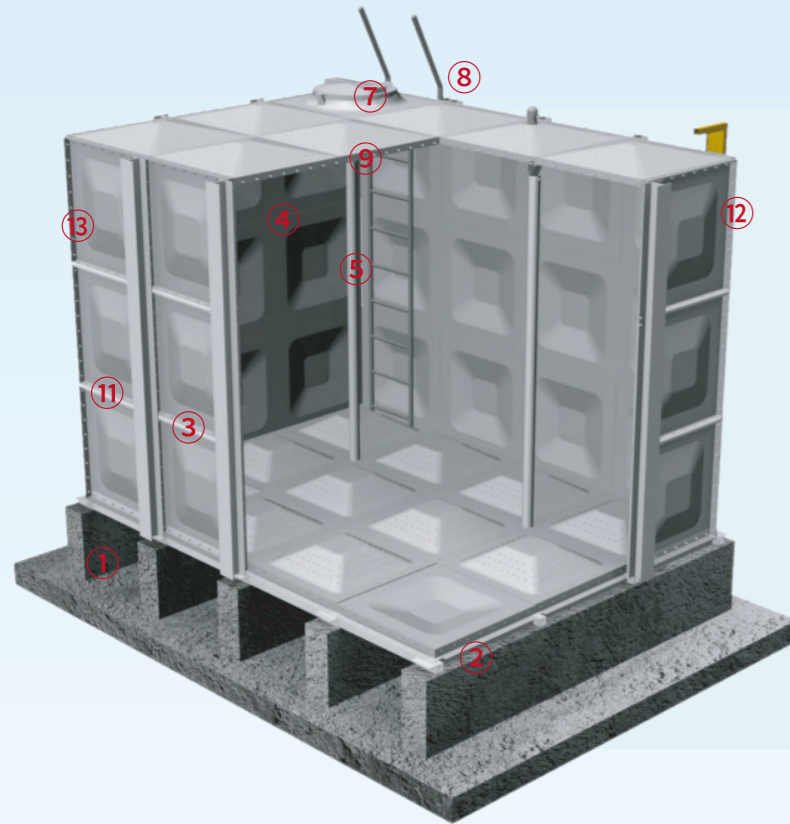
1. The size of FRP/GRP panel are produced by standard mold, having size 1*1m, 1*0.5m and 0.5*0.5m;
2. The panel thickness is depends on tank height;
3. The available highest height is 5 meters (Add external C channel or Ibeam reinforcement for 4m and 5m height).



Internally Reinforced System Accessories

- | | |
|------------------------|------------------------|
| 1. Concrete beam | 8. External ladder |
| 2. C-channel base | 9. Inlet flange |
| 3. Outer tie rod plate | 10. Horizontal tie rod |
| 4. Inner tie rod plate | 11. Side angle bar |
| 5. Vertical support | 12. Outlet flange |
| 6. Top angle bar | 13. Sealing rubber |
| 7. Manhole | |

Externally Reinforced System Accessories



1. Concrete beam
2. C-channel base
3. Outer tie rod plate
4. Inner tie rod plate
5. Vertical support
6. Horizontal tie rod
7. Manhole
8. External ladder
9. Sealing tape
10. Auxiliary band iron
11. Auxiliary angle iron
12. Water indicator
13. Corner angle bar

• BOLTS & NUTS

1. Hot dipped galvanized
2. Stainless steel 304/316

• INTERNAL STRUCTURE

1. Food grade white color EPDM
2. Silicone

• FLANGES

1. Hot dipped galvanized
2. Stainless steel 304/316
3. PVC

• INTERNAL STRUCTURE

1. Hot dipped galvanized
2. Stainless steel 304/316

• SKID BASE

1. Painting
2. Hot dipped galvanized

• WATER INDICATOR

1. Glass with brass valve
2. Float type

ADVANTAGES

COST-EFFECTIVE

FRP/GRP is a kind of high-technological reinforced plastic. It has low cost and high performance, is a perfect substitute of metal tank.

RELIABLE QUALITY

Our FRP/GRP tanks use only internationally renowned raw materials, with a service life of more than 25 years.

DIMENSION FLEXIBILITY

One size of panel can be 1*1 m, 1*0.5m and 0.5*0.5m, which can assembled kinds of volume from 0.125m³ to 5000m³. That's extremely convenient to select for you.

CONVENIENT INSTALLATION

Factory precast panel is easy to assemble and disassemble, the construction drawing, installation video, and a series of complete installation plan will be provided.

POTABILITY

FRP/GRP material has passed local Water Quality Inspection testing. Test result shows our FRP/GRP are suitable for potable water reserve.

Roof panel adopt upward bulge to prevent rainwater remain on the top. Further prevent mosquito breeding and dirty water permeate inside the tank.



Hot-Dip Galvanized Water Tanks

Jovia hot-dip galvanized water tanks feature bolted assembly without on-site welding, excellent corrosion resistance and high cost-effectiveness, ideal for fire protection and industrial water storage.



PHYSICAL PROPERTIES

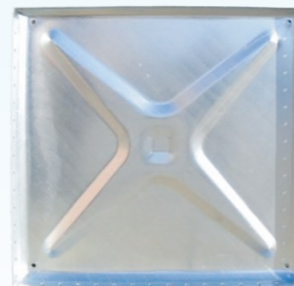
| Physical properties | Standard requirement | Result |
|---------------------|----------------------|---------|
| Tensile strength | ≥350 MPa | 509 MPa |
| Yield strength | ≥220 MPa | 414 MPa |
| Elongation | ≥23% | 24% |

TECHNICAL DATA

PANELS

• MATERIAL

1. Q235B raw material complying China GB/T700-2006 standard;
2. Surface zinc layer 70μm thickness complying GB/T19001 standard;
3. Surface treatment optional: Enamel coating.

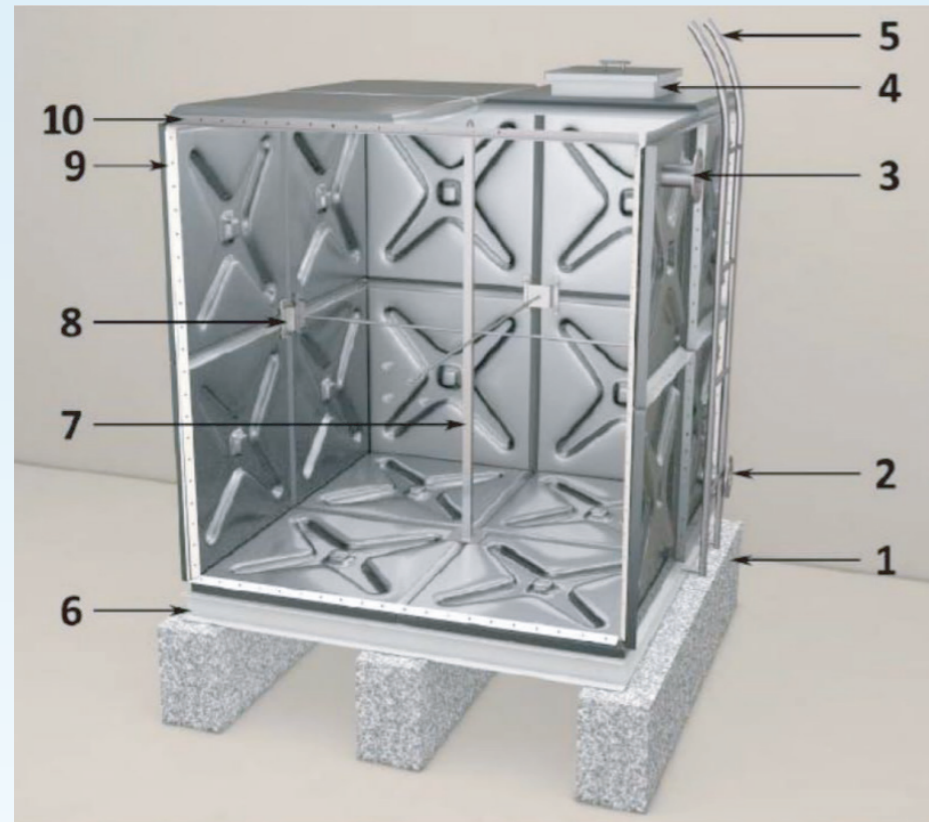


• SIZE & WEIGHT

1. The size of steel panels are produced by standard with 1.22*1.22m, 1*1m, 1*0.5m and 0.5*0.5m;
2. The panel thickness is depends on tank height;
3. The maximum height available is 5 meters.



ACCESSORIES



1. Concrete beam
2. Outlet flange
3. Inlet flange
4. Manhole
5. External ladder
6. C-channel
7. Vertical support
8. Tie rod plate
9. Sealing rubber
10. Top angle bar

• BOLTS & NUTS

Hot dipped galvanized

• FLANGES

Hot dipped galvanized

• BASE FRAME

1. Painting
2. Hot dipped galvanized

• SEALING RUBBER

1. Food grade white color EPDM
2. Silicone

• INTERNAL STRUCTURE

Hot dipped galvanized

• WATER INDICATOR

1. Glass with brass valve
2. Float type

ADVANTAGES

ANTI-CORROSION

The thickness of zinc layer is 70µm equally, have superior anti-corrosion capability.

RELIABLE QUALITY

Our panels comply with standards including Singapore PSB, SGS, China QSB and others, with a service life of over 25 years.

DIMENSION FLEXIBILITY

The size of panel can be 1.22*1.22m, 1*1 m, 1*0.5m and 0.5*0.5m, which can assemble kinds of volume from 0.125m³ to 5000m³. That's extremely convenient to select for you.

CONVENIENT INSTALLATION

Factory precast panel is easy to assemble and disassemble, the construction drawing, installation video, and a series of complete installation plan will be provided.

DURABLE

Using the 1000T hydraulic press integrated molding, no welding seam at panel corners.

BURY UNDERGROUND

All the JOVIA steel material water tank can be bury underground, the thickness of inner structure and panels are thicker than normal tank.



Stainless Steel Water Tanks

Jovia food-grade SUS304 stainless steel water tanks are precision stamped and argon welded, hygienic, corrosion-resistant and long-lasting, ideal for drinking water and food & pharmaceutical applications.



● TECHNICAL DATA (BOLTED TYPE)

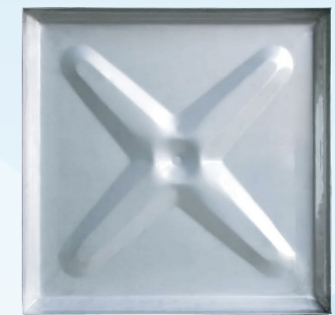
PANELS

• SURFACE DESIGN

"X" shape

• MATERIAL

1. Food grade SS304/2B
2. Food grade SS316L



• SIZE

1. The size of stainless steel panel are produced by standard with 1.22*1.22m, 1*1m, 1*0.5m and 0.5*0.5m;
2. The panel thickness is depends on tank height;
3. The maximum height available is 5 meters (Need add I-beam external reinforcement if 5m height).

● TECHNICAL DATA (WELDING TYPE)

PANELS

• SURFACE DESIGN

Rounded shape

• MATERIAL

1. Food grade SS304/2B
2. Food grade SS316L



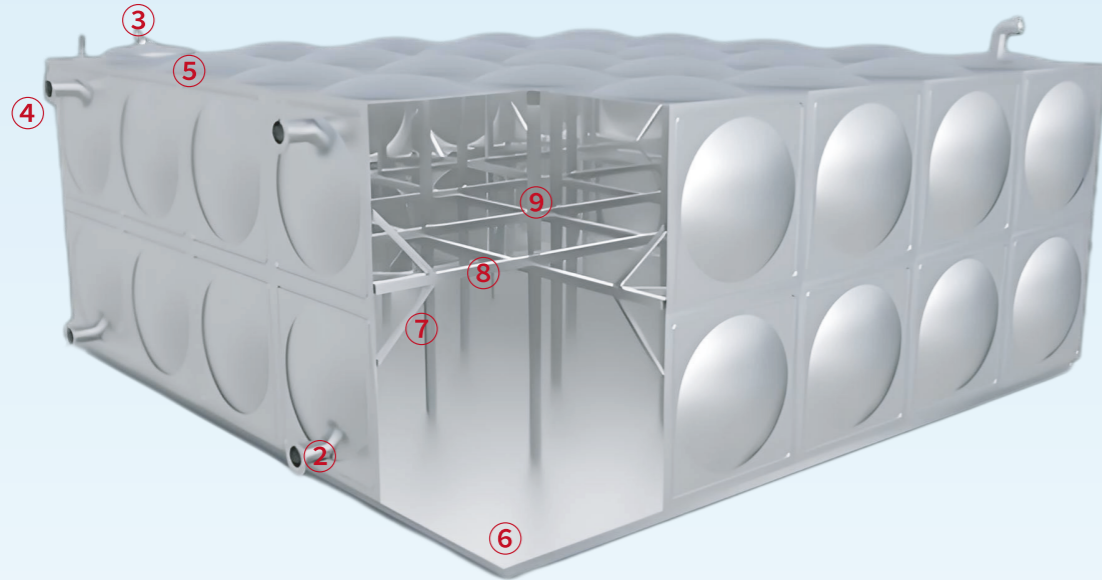
• SIZE

1. The size of stainless steel panels are produced by standard with 1*1m, 1*0.5m and 0.5*0.5m;
2. The panel thickness is depends on tank height;
3. The maximum height available is 6.5 meters (Need add C-channel external reinforcement if over 5.5m height).

PHYSICAL PROPERTIES

| Physical properties | Standard requirement | Result |
|---------------------|----------------------|---------|
| Tensile strength | ≥515 MPa | 695 MPa |
| Yield strength | ≥205 MPa | 309 MPa |
| Elongation | ≥40% | 54% |
| Hardness | ≤92HRBS | 85HRBS |

ACCESSORIES



- | | | |
|--------------------|-----------------|-----------------------|
| 1. Concrete beam | 4. Inlet flange | 7. Oblique short bar |
| 2. Outlet flange | 5. Manhole | 8. Horizontal tie rod |
| 3. External ladder | 6. C-channel | 9. Vertical support |

• INTERNAL STRUCTURE

SS304/2B or SS316

• BASE FRAME

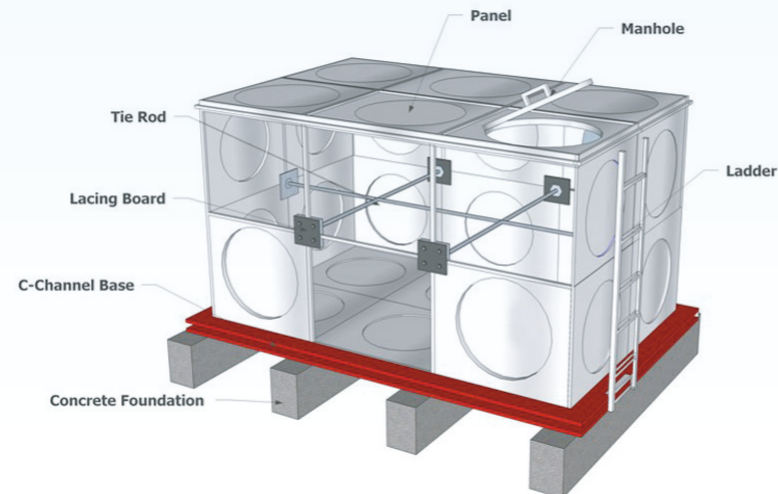
1. Painting
2. Hot dipped galvanized

• FLANGES

SS304/2B or SS316

• LADDER

SS304/2B or SS316



ADVANTAGES

ANTI-CORROSION

The raw material adopt pure stainless steel 304 or 316; it has excellent corrosion resistance.

POTABILITY

Stainless steel is body-safe and an excellent healthy, eco-friendly material.

RELIABLE QUALITY

We use only internationally renowned raw materials, with a service life of over 25 years.

DIMENSION FLEXIBILITY

Factory precast panel is easy to assemble and disassemble, the construction drawing, installation video, and a series of complete installation plan will be provided.

SAVE SPACE

For argon arc welding type, all the welding process are handle from inside the tank, so there's no need left space around of tank.





TYPICAL TANK CAPACITY CHART

The nominal capacity is calculated by taking the internal dimensions of a tank filled to its maximum level. When mounting hydraulic accessories such as the water level indicator, it is necessary to leave a minimum height of 0.20m roof clearance.

The useable volume is estimated based on the following formula: $L \times W \times H - 0.20(m)$

Standard panel dimension 1000mm x 1000mm

| Height (mm) | Length (mm) | Width (mm) | Pcs of panels | Volume (Liters) | Useable volume (Liters) |
|-------------|-------------|------------|---------------|-----------------|-------------------------|
| 1,000 | 1,000 | 1,000 | 6 | 1,000 | 800 |
| | 2,000 | 1,000 | 10 | 2,000 | 1,600 |
| | 3,000 | 2,000 | 22 | 6,000 | 4,800 |
| | 4,000 | 3,000 | 46 | 15,000 | 12,000 |
| | 5,000 | 5,000 | 70 | 25,000 | 20,000 |
| | 10,000 | 5,000 | 130 | 50,000 | 40,000 |
| | 10,000 | 10,000 | 240 | 100,000 | 80,000 |
| | 2,000 | 2,000 | 2,000 | 24 | 8,000 |
| 3,000 | | 2,000 | 32 | 12,000 | 10,800 |
| 4,000 | | 2,000 | 40 | 16,000 | 14,400 |
| 5,000 | | 2,000 | 48 | 20,000 | 18,000 |
| 5,000 | | 5,000 | 90 | 50,000 | 45,000 |
| 10,000 | | 5,000 | 160 | 100,000 | 90,000 |
| 10,000 | | 10,000 | 280 | 200,000 | 180,000 |

| Height (mm) | Length (mm) | Width (mm) | Pcs of panels | Volume (Liters) | Useable volume (Liters) |
|-------------|-------------|------------|---------------|-----------------|-------------------------|
| 3,000 | 3,000 | 3,000 | 54 | 27,000 | 25,200 |
| | 4,000 | 3,000 | 66 | 36,000 | 33,600 |
| | 5,000 | 5,000 | 110 | 75,000 | 70,000 |
| | 7,000 | 5,000 | 142 | 105,000 | 98,000 |
| | 10,000 | 5,000 | 190 | 150,000 | 140,000 |
| | 10,000 | 10,000 | 320 | 300,000 | 280,000 |
| | 20,000 | 20,000 | 1,040 | 1,200,000 | 1,120,000 |
| 4,000 | 4,000 | 4,000 | 96 | 64,000 | 60,800 |
| | 5,000 | 4,000 | 112 | 80,000 | 76,000 |
| | 10,000 | 5,000 | 220 | 200,000 | 190,000 |
| | 10,000 | 10,000 | 360 | 400,000 | 380,000 |
| | 15,000 | 10,000 | 500 | 600,000 | 570,000 |
| | 15,000 | 15,000 | 690 | 900,000 | 855,000 |
| | 20,000 | 20,000 | 1,120 | 1,600,000 | 1,520,000 |

Note:

1. The chart showing are only typical size, the 1*0.5m and 0.5*0.5m panels can be provided to meet dimension requirement.
2. The accurate useable volume is depends on effective height.
3. The largest tank installed is 5000m³.
4. The maximum height of the tank is 5 meters, need to add C-channel/I-beam external reinforcement if 5 meters height.
5. For conversion to UK gallons is liter multiply by 0.22.

PROJECT CASE

