PROVIDING LIQUID STORAGE SOLUTIONS SINCE 1966

GRP PANEL TYPE WATER TANK

Developed in Partnership With BASF
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IN 2016, SOLICO CELEBRATED ITS GOLDEN JUBILEE COMMEMORATING 50 YEARS OF GREAT SUCCESS AND GROWTH
SOLICO Success Story

SOLICO was established in the U.A.E. in 1966, a company with international presence in the Middle East, Europe, Australia and Asia specialized in Manufacturing, Trading, Contracting and Investments; offering expertise to governments, corporations and individuals to achieve their objectives. SOLICO has completed many prestigious projects for Private, Commercial, Industrial and Governmental sectors throughout the world, including projects such as Airports, Hospitals, Laboratories, Schools, Palaces, Hotels, High Rise Buildings, Water Networks and Residential Connections.

For nearly five decades SOLICO has continuously provided value, quality and service to our customers earning us the reputation of market leaders in our sphere of specialization.

SOLICO is committed to the pursuit of excellence and therefore invests in each of its businesses to provide the best technologies, materials, innovation and people to ensure quality results for our customers.

Years of innovation, R & D and continuous provision of added value into our products and services above all else, has earned SOLICO its reputation of market leader which we continue to protect by ‘Delivering on our Promises’.

solicouae.com
Solico GRP Panel Type Water Tank

Since 1966 SOLICO has been known as a reputed supplier of GRP water storage solutions in the UAE and GCC countries.

In 1984, SOLICO pioneered the introduction of groundbreaking technology, Hot Pressed GRP Panel Type Water Tanks, gaining market share by offering the top of the range Japanese Bridgestone Brand with high levels of service and reliability.

This innovation, coupled with SOLICO’s awareness and continuous marketing efforts for clean water storage systems resulted in a paradigm shift, from the conventional storage means to a cleaner and healthier solution.

In 2012, SOLICO inaugurated its own Hot Pressed SMC state of the art GRP Panel Type Water Tanks; the Solico Panel Tank Brand developed in partnership with BASF.

With this new Brand, the company continues to offer the same high quality product complying with numerous international standards, combined with our enhanced service level and competitiveness.

This decision was taken to capitalize on the company’s extensive composite manufacturing experience as well as SOLICO’s excellent reputation for their service and quality in the Hot Pressed GRP tank business for 50 years.
Design Standards

Solico Panel Tanks are WRAS approved and designed to the most relevant international GRP panel type water tank’s standards such as BS 7491 (UK), SS245 (Singapore) and the latest AWWA D121-12 (USA).

The panel shapes are designed using Finite Element Analysis to allow optimization and ensure the required panel and tank safety factor.

Solico Panels are manufactured using State of the Art SMC Hot Press Molding Process combining Japanese technology and German machinery pressure reaching up to 2,000 Tons and at a temperature of 150°C.

Panel Strength : Hydrostatic Pressure x6 (Safety Factor)
Wind Velocity : 60 m/sec
Roof Load : 120 Kgf/m²
Ambient Temperature : 55 °C (Max)
Water Temperature : 65 °C (Max)
Seismic Load : Peak Ground Acceleration PGA = 0.25 (Group A)
Seismic Zone : B2
Upgraded Design Available for Higher Seismic Zones:
(Group B) 0.25 < PGA < 0.40
(Group C) PGA ≥ 0.40
# Technical Characteristics

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<tr>
<th>DESCRIPTION</th>
<th>GRP</th>
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<tr>
<td>Specific Gravity</td>
<td>1.75</td>
<td>Thermal Conductivity</td>
<td>(Single Panel)</td>
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<td>(Insulated Panel 25mm)</td>
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<td>Tensile Strength</td>
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<td>Coeff of Overall</td>
<td>(Insulated Panel 50mm)</td>
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<td>Young’s Modulus</td>
<td>13 GPa</td>
<td>Heat Transmission</td>
<td>(Single Panel)</td>
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<td>Flexural Strength</td>
<td>230MPa</td>
<td>(Thermal Conductance)</td>
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<td>Impact Strength</td>
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<td>Thermal Expansion</td>
<td>(Insulated Panel 50mm)</td>
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<td>Shear Strength</td>
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<td>Fire Rating Class</td>
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<td>Smoke Development (SD)</td>
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Internal Tie Rod Reinforcement

ALL INTERNAL METALS ARE OF STAINLESS STEEL GRADE A4 / 316
External Bracing Reinforcement

NO METALS ARE IN CONTACT WITH WATER
Materials of Construction

**Insulation**
Rigid Polyurethane: Density 40 Kg/m³
Thickness: 25mm (Optional 50mm thick)
Insulation Cover: 2mm ASA Sheet. U.V. Resistant

**Sealant**
SEBS material
Strong, Durable and U.V. Resistant
“O” Ring Shaped for added security

**Panel**
SMC Hot Pressed Glass Reinforced Polyester (GRP or FRP) with Reinforced Roving Mesh

**Reinforcements**
External: HDG Structural Steel Beams, Angles & Brackets
Internal: S/S Grade A4/316 Tie Rods or Diagonal Struts
**Steel Skid**
Grey enamel paint on top of Red Oxide Primer.
Optional: Hot Dipped Galvanized or 3 coats Epoxy system.

**Roof Supports**
PVC/GRP roof support pipes
Hard Polyurethane Brackets

**Bolts & Nuts**
- External: HDG Grade 8.8 (Optional S/S Grade A4/316)
- Internal: S/S Grade A2/304 (Optional S/S Grade A4/316)

**Ladders**
- External: HDG Steel (Optional S/S or GRP)
- Internal: GRP (Optional S/S)

**Airvents**
PVC 4" D/A with Nylon mesh #22
Properties: Light, Dust, Insect Proof Add Water level indicator also to keep in a sequence
Delivery and Installation

Solico Panel Tanks are delivered by Solico's transport within UAE and using authorized shipping companies in the Middle East and across the world.

Solico provides highly specialized trained teams for the installation of their tanks within the UAE and Technical Supervisors for installation around the world. Solico Technicians are trained to ensure all works to be fully compliant with current legislative and safety standards.
POTABLE WATER QUALITY
Advantages of Solico GRP Panel Tanks

1. Flexible and Customized Shapes

Solico Panel Tanks can be made in square, rectangular, L, T, U or other customized complex shapes using an array of standard panels.
Customized Sizes

By combining Solico GRP sectional Panels in modular and flexible patterns, an infinite number of tanks can be assembled of various dimensions and capacities ranging from as little as 1m³ (265 USG) (size 1m x 1m x 1m) up to 12,500 m³ (3,312,500 USG) (size 50m x 50m x 5m)
Advantages of Solico GRP Panel Tanks

2. Prevents Leakage

Solico Panel type water tank uses exclusively designed convex panels for the base. The convex panel is so designed that any increase in water pressure closes the bottom panels joints further. Joints are sealed with a special rubber sealant of patented “O Ringed” material. The combined flange thickness at the panel joints is more than sufficient to meet the stresses imposed. This “Self-Sealing” feature eliminates the possibility of separation and hence leakage of the tank.

3. Drain Completely

The combination of convex base panels with a concave drain panel ensures complete and faster drainage. A unique feature of the Solico Panel Tank; the concave drain panel was especially designed to facilitate periodic tank cleaning and inspection.
Advantages of Solico GRP Panel Tanks

4. Smooth Surface and Metal Free Inside

The hot pressing method for Solico panels produces a glass-like surface which does not allow the adherence of bacteria or any organic matter and therefore does not allow algae growth.

No metal components are in contact with water. Reinforcements, bolts and nuts for assembly are on the outer side, allowing external flanging and access if bolt tightening is necessary.

5. Dust, Insect and Light Proof Design

Tanks are completely sealed, using fully hermetrical manhole covers and air vents that are designed to be dust and insect-proof.

Solico GRP Panel Tanks are light proof preventing an essential element for algae growth. Light transmittance for all panels including the manhole cover is 0.00%
Advantages of Solico GRP Panel Tanks

6. Protection against Styrene emission and Algae growth

The hot pressing method for panels produces a glass like finish on the surface which does not allow algae to grow. Styrenes are liberated from the panels due to the high temperature at which they are pressed making it an ideal product to store drinking, medical process, food and beverage and manufacturing processed waters.

7. No Corrosion

Corrosion inside Solico GRP Panel Tanks is not possible because of unique non-corrosive chemical composition of its GRP panels. Specially designed external bracing used in construction ensures that no steel comes in direct contact with water.
Advantages of Solico GRP Panel Tanks

8. Long Life Expectancy

Average serviceable life for Solico tanks in normal operating conditions without maintenance is in the range of 40 years.

9. High Safety Factor

Solico Panels are individually designed using finite element analysis software for optimal performance with a safety factor of 6 times bearing strength above maximum anticipated load. Our Tanks are designed to withstand strong winds and earthquakes.
10. Heat and Cold Insulation

Specially designed Insulated panels with options of 25mm and 50mm insulation thickness are available for extreme weather conditions (hot or cold).

These insulated panels also prevent the water from freezing in extreme cold weather and conserve the water temperature at acceptable levels for longer periods of time.

11. Constant Temperature

Temperature will remain constant inside a Solico Insulated GRP Panel Tank which is an excellent feature for industrial purposes where chilled water is required in huge volumes and production water needs to be protected from extreme heat.
Advantages of Solico GRP Panel Tanks

12. Thermal Conductivity, Expansion and Contraction

Non-insulated Panels have 240 times less thermal conductivity than metal, ensuring stable temperature.

Modular panels with low thermal coefficient and flexible rubber sealant ensure a leak free design.

13. Protection Against UV Rays

Excellent ultra violet (UV) resistant characteristics and performance ensures high mechanical properties and weather resistance even after 40 years of use.
“WATER
THE SOURCE
OF LIFE”
Advantages of Solico GRP Panel Tanks

14. Extendibility

Solico GRP Panel Tanks can be extended in length and width to provide increased volume as the consumption requirements change.

15. Relocation

Can be relocated easily from one place to another several times.
Advantages of Solico GRP Panel Tanks

16. Partitioning

Partitioned Solico GRP Panel Tanks provide the facility of using one section of the tank while the other section undergoes cleaning and maintenance while providing continuous water supply during operations.

17. Cleaning

Solico GRP Panel Tanks can easily be cleaned due to the ease of full drainage using a medium water pressure hose to wash down any dirt without using any chemicals. During Cleaning, the tank should have at least 5 inches of water remaining. Check and wipe the silt from the bottom before draining the water completely.
Advantages of Solico GRP Panel Tanks

18. Easy Assembly

Solico GRP Panel Tanks can be easily assembled by technicians from the local community.

19. Less Manpower Requirement

Low man-hours of labour is required for the assembly of Solico Panel Tanks. For example a tank size 5x5x2m = 50m³ requires 2 days for assembly with a team of 5 technicians.
Advantages of Solico GRP Panel Tanks

20. Easy Transportation and Compact Packing

Panels are stacked on pallets with minimum loading volume. A pallet of 1m x 1m x 2m size weighs only 400kg from which you can build a tank of 9m³. Transport volumes decrease drastically as tanks sizes increase to reach only 10% shipping volume of tank's actual capacity.

1. Packing
2. Loading
3. Fixing
4. Solico Panel Tank

16 Times Lighter than Steel Tanks

21. Full Accessibility

Maintenance free. Corrosion free. Full accessibility at all times.
20,500 +
GRP PANEL TYPE WATER TANKS SUPPLIED AND INSTALLED OVER THE LAST FIVE DECADES

900 +
REGULAR CLIENTS

25 +
QUALITY CERTIFICATION AND COMPLIANCE
Steel Support Beams

Steel Beams

Solico provides Structural Steel (optional: Hot Dipped Galvanized or 3 coats of Epoxy system or Red Oxide with Grey enamel) Beams and angles for more than 1mH tanks.

For 1.5 to 2mH

For 2.5 to 5mH

Concrete Foundation

Solico provides shop drawings of the concrete foundations required for each tank to all clients. Standard size is as follow:
(Length of tank + 200mm) x 200mm width x 600mm Height of single concrete plinth.
Clearance and Capacities

Minimum space requirement along all sides = 500mm
Minimum space requirement above roof panel for manhole opening = 1000mm

PLAN VIEW

ELEVATION

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<th>Volume (m³)</th>
<th>Tank Size</th>
<th>Gross Volume (USG)</th>
<th>(IMPG)</th>
<th>(Liters)</th>
<th>Freeboard</th>
<th>Net Water Capacity (USG)</th>
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Flange Connections

The specially designed piping panels provide easy and safe pipe works for tanks. Typical Tank Connections are shown below.

*Overflow should be at least twice the size of inlet and shall flow freely without obstruction.

### RECOMMENDED FLANGE SIZES

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<tr>
<th>SIZE OF TANKS</th>
<th>INLET</th>
<th>OUTLET</th>
<th>OVERFLOW</th>
<th>DRAIN</th>
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<td>46A</td>
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<td>Over 500m³</td>
<td>100A</td>
<td>5A</td>
<td>125A</td>
<td>50A</td>
</tr>
</tbody>
</table>

### TYPE OF FLANGES
- PVC BOLTED FLANGE
- BRASS SOCKET FLANGE
- HDG BOLTED FLANGE
- STAINLESS STEEL BOLTED FLANGE
- GRP BOLTED FLANGE
- RUBBER CAPPED BOLTS FOR FIXING FLANGES
Comparison with Other Types of Tanks

Solico Panel Tanks have major advantages over other types of conventional tanks.

<table>
<thead>
<tr>
<th>FEATURE</th>
<th>GRP</th>
<th>CONCRETE</th>
<th>PLASTIC</th>
<th>STEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hygiene and Water Quality</td>
<td>✅ ✅</td>
<td>~</td>
<td>~</td>
<td>✗</td>
</tr>
<tr>
<td>Flexibility</td>
<td>✅ ✅</td>
<td>✗</td>
<td>✗</td>
<td>~</td>
</tr>
<tr>
<td>Relocation</td>
<td>✅ ✅</td>
<td>✗</td>
<td>✗</td>
<td>~</td>
</tr>
<tr>
<td>Water Tightness</td>
<td>✅ ✅</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Strength &amp; Durability</td>
<td>✅ ✅</td>
<td>~</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Easy and Fast Assembling</td>
<td>✅ ✅</td>
<td>✗</td>
<td>~</td>
<td>~</td>
</tr>
<tr>
<td>Ease of Transportation</td>
<td>✅ ✅</td>
<td>✗</td>
<td>✗</td>
<td>~</td>
</tr>
<tr>
<td>Thermal Conductivity</td>
<td>✅ ✅</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Drainage</td>
<td>✅ ✅</td>
<td>~</td>
<td>~</td>
<td>✗</td>
</tr>
</tbody>
</table>

**Value Parameters**

<table>
<thead>
<tr>
<th>Excellence</th>
<th>Good</th>
<th>Average</th>
<th>Poor</th>
</tr>
</thead>
<tbody>
<tr>
<td>✅ ✅</td>
<td>✗</td>
<td>~</td>
<td>✗</td>
</tr>
</tbody>
</table>

**KEY CHARACTERISTICS**

- Solico Brand Existence Since 1966
- International Quality (WRAS-UK and ISO 9001:2008) Certifications
- Isophthalic Unsaturated Polyester Resins to ensure hygienically safe product
- Trained Crew with 30 years installation experience
- Bridgestone Japan Manufacturing Technology, German Machinery and Moulds
- UV Rays Protection
- Finite Elements Aided Computerized Design and extensive Structural Design Study
- World biggest GRP Tank installation award at Dubai International Airport
- Iconic huge facilities at Jebel Ali Industrial Area, United Arab Emirates
- Big Stock availability and computerized massive warehouse for immediate delivery
- Large Production Capacity of more than 6,000 tons of SMC panels per year
- Mechanically, Chemically and Bacteriologically tested panels and accessories
- Producer for many major brands around the globe.
Our Warranty Promise

Solico Panel Tanks are fully warranted for a period of 10 years. The Solico Group of Companies standing behind the design, manufacturing, installation and product warranty have been in the market since 1966 with 50 years of experience in similar fields and more than 30 years in GRP Panel Tanks.
PROJECT GALLERY

Solico has completed many prestigious projects for the Private, Commercial, Industrial and Government sectors throughout the world which includes Airports, Hospitals, Laboratories, Schools, Palaces, Hotels, High Rise Buildings, Water Treatment Plants and Residential Connections.
SOLICO established in the U.A.E. in 1966 is a company with international presence in the Middle East, Europe, USA, Australia, and Asia specializing in the Manufacturing, Trading, Contracting, Investments and Philanthropy; offering our expertise to governments, corporations and individuals to achieve their objectives. Solico has completed many prestigious projects for the Private, Commercial, Industrial and Government sectors in the Emirates which include Airports, Hospitals, Laboratories, Schools, Palaces, Hotels, High Rise Buildings, Water, Networks and Residential Connections.
Think Green

Solico emphasizes on the 3R’s policy for environmental protection i.e. Reduce, Reuse and Recycle. Apart from drinking, water is used for cooking, washing, bathing and other household purposes. If the quality of storage Water tank is neglected over the years, it can be a breeding ground for bacteria, germs and pollutants. Thus, paving the way for entry of water-borne diseases into your home and affecting the health of your family members.

Solico Panel Tanks are designed to be free from ChloroFluroCarbon (CFC) and HydroChoroFluro-Carbon (HCFC). Free from any Lead and asbestos content, as well as free from bacteria, corrosion, styrene and algae growth hence they reduce the chances of quality damage to stored water and reduce the chances of sickness caused by poor storage of water. Water-borne diseases like cholera, typhoid fever, diarrhea and hepatitis are preventable diseases if safe stored drinking water is provided to human kind.

Solico Panel Tank reduces the cost of ownership for storage tanks as the average life of Solico Panel Tank is 40 years. Solico Panel Tanks require less time, manpower and tools for the installation. They are light in weight hence efficient to reduce the transportation and energy consumption. Solico Panel Tanks don’t require any special materials and machinery for installation hence reduce the waste of energy.

Solico Panel Tanks have a long average life as compared to other storage tanks and have the feature of relocation by simply dismantling its panels hence can be reused and recycled even after shifting to a new location. Solico Panel Tanks have the feature of extendibility means as the storage requirement increases, the size of tank can be increased by reusing the old panels instead of their disposal.
Caution and Maintenance

Safe delivery
- Should be safely transported and stored

No flame or heavy load
- Pipings should be self-supported

Timely inspection
- Piping
- No leakage
- No overload
- No harm material around
- Tightening of bolts

Timely cleaning
- During cleaning maintain water at other side.
- Clean with sponge, soft material, no wire brush or hard material to clean.

Keep all sides clear

Stick with Original Parts
- Original parts by Solico

Do not bury

Max temperature
- 50°C
- 60°C

Keep manhole tightly closed and do not block air vent and overflow

Maintain water level
- Max. level
- Min. level

Use water only
- \( 5 < \text{pH} < 9 \)
“SOLICO PANEL TANKS ARE DESIGNED TO MAKE A DIFFERENCE”