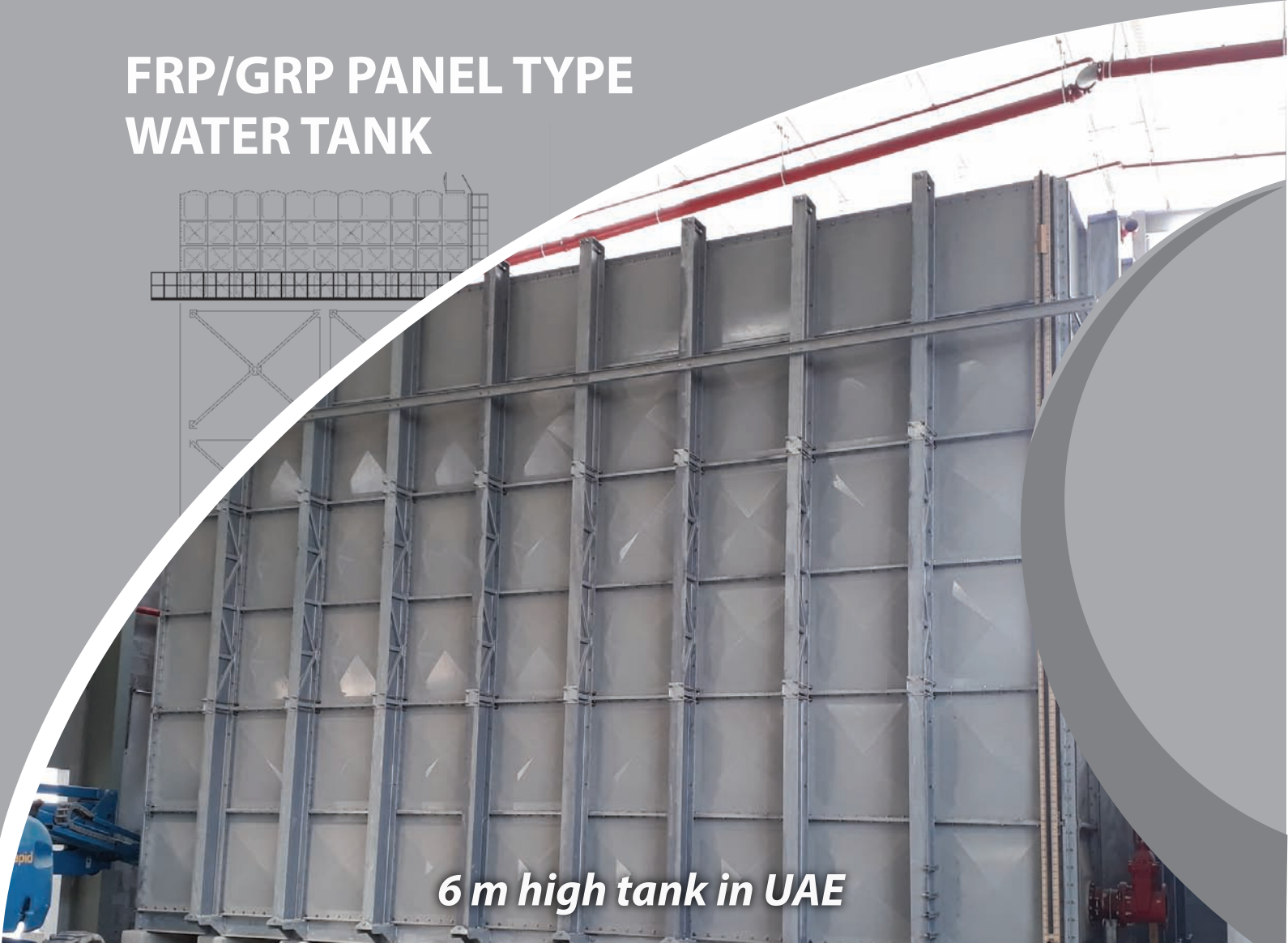


# FRP/GRP PANEL TYPE WATER TANK



*6 m high tank in UAE*



*Elevated tanks in KSA*



*10,000 m3 tank in Iraq*



Certified to  
NSF/ANSI 61-G



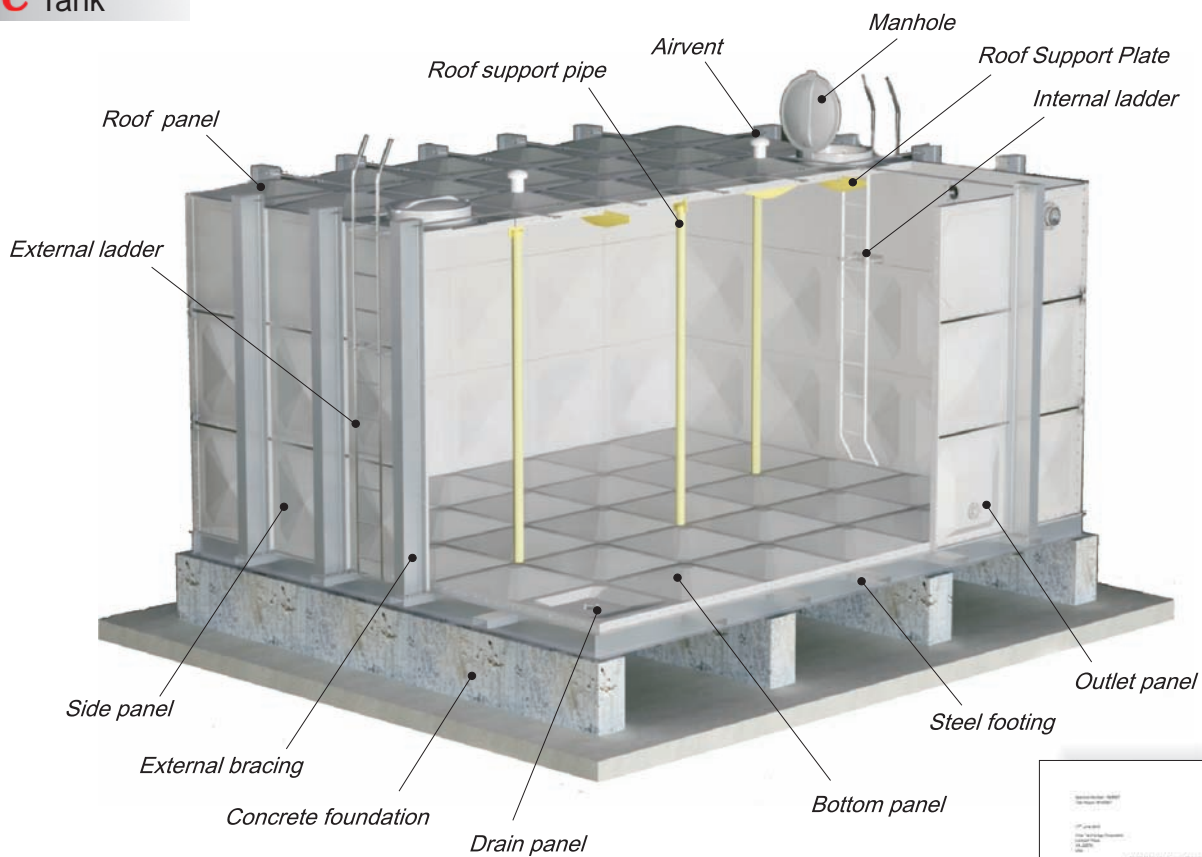
## Company Profile

**Fiber Technology Corporation** or **FTC** was incorporated in 1992 in the state of Virginia, USA. The company's founding objective was to design and provide a simple, innovative, globally certified water storage solution by assembling GRP sectional panels in modular and flexible patterns with uncompromising levels of quality and reliability to ensure preservation of water to the highest standards of purity.

A vision of a maintenance-free clean water storage system became the key driver to the product's development.

The FTC FRP, also known as GRP Panel type water tanks have become the system of choice around the world to conserve water to the highest quality standards while addressing the shortcomings inherent to traditional storage system such plastic, concrete and steel tanks.

## FTC Tank



## Certifications and Standards



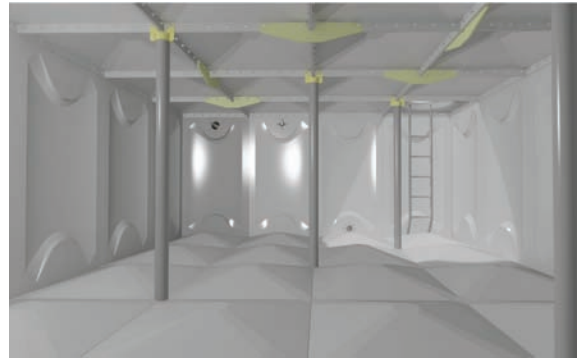


# BENEFITS OF **FTC** TANKS

## **FTC** Tanks are Clean and Maintenance Free



Tanks Panels are designed to the highest level of opacity ensuring no light transmittance into the tank, thus preventing chlorine evaporation, bacterial and algae growth.



Internal view of **FTC** tank

## Unlike other tanks, **FTC** Tanks are Strong and Durable

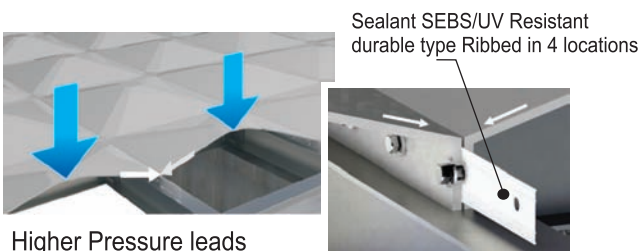


Technically designed with a safety factor of 8x to withstand the most extreme weather conditions



Aging, fatigue and corrosion are the main drawbacks to conventional storage system. FTC's Hot Press Molding Production Process ensures Zero defect and delivers high quality panels with constant Fiberglass distribution with the most accurate dimensional stability for utmost reliability and performance.

## Water Pressure Improve Joint Seal



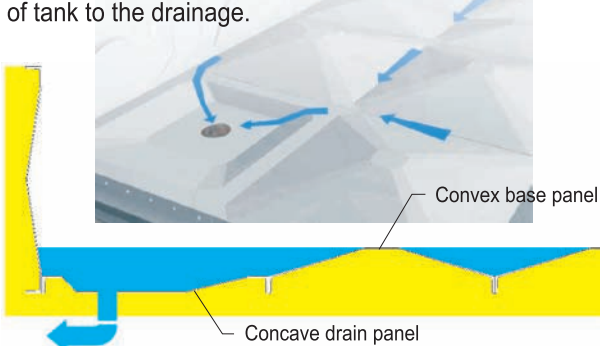
Higher Pressure leads to CLOSE the bottom panel joints.

## **FTC** Tanks are Compact for shipping Simple to install and Relocable

A unique feature for the FTC FRP water tanks is its compact shipment requiring about 1/10th of tank size.

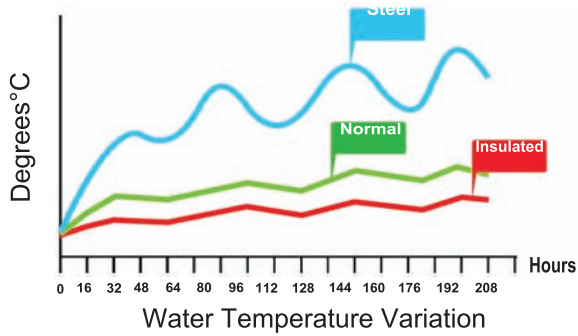
## Complete Drainage

The convex base panels combined with concave drain panel enable a free flow of water from all part of tank to the drainage.

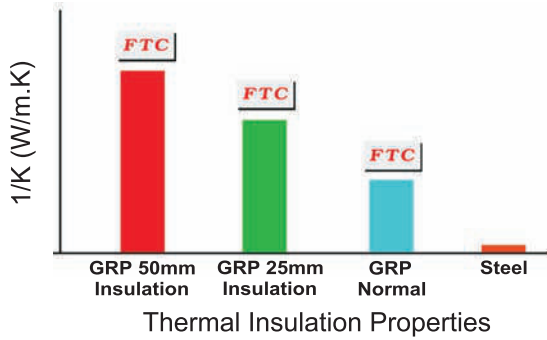


A simple Step by Step installation video manual can be provided for ease of installation.

## FTC Tanks Thermal Insulation



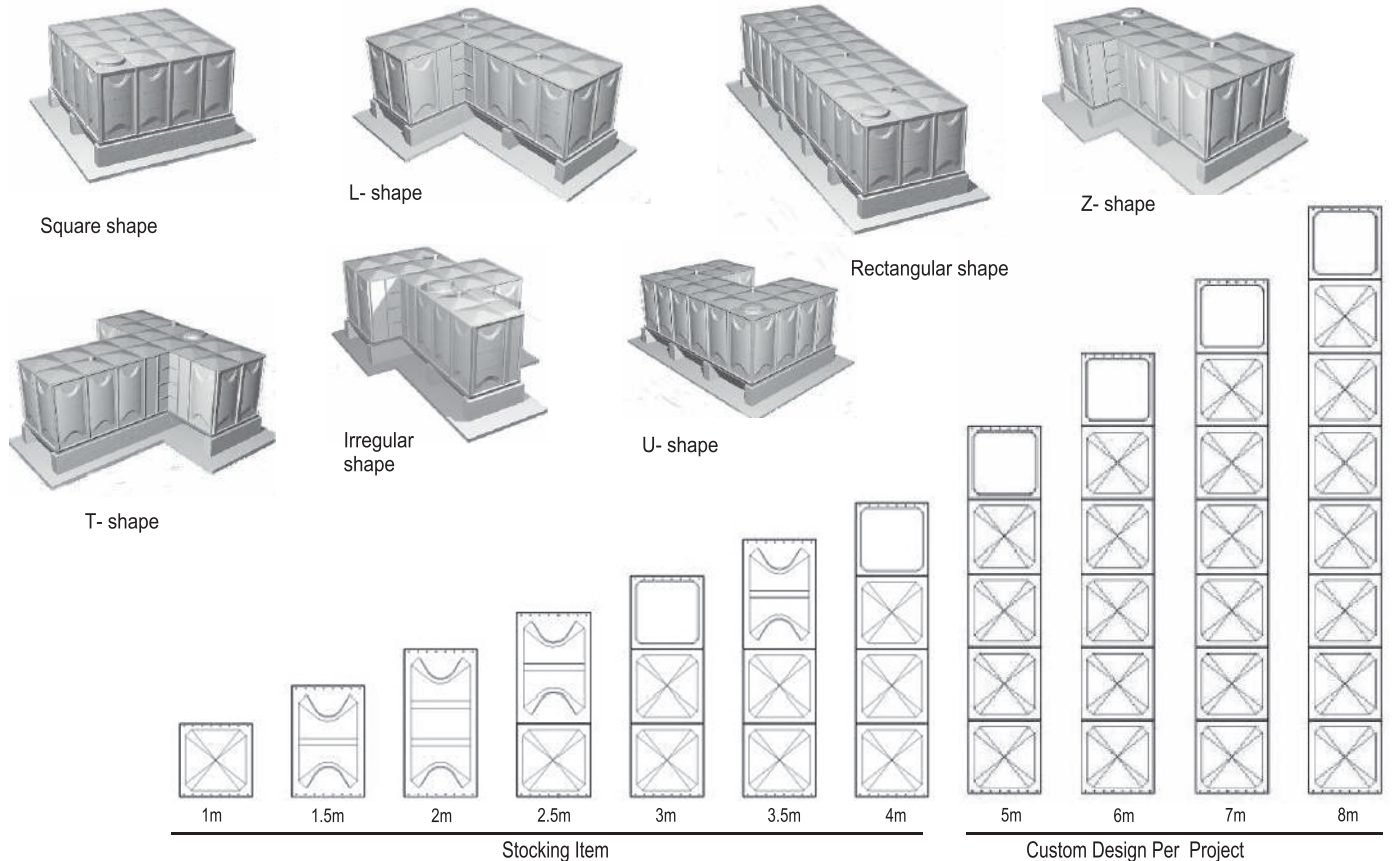
Extreme Cold Weather



Extreme Hot Weather

The FRP panel have superior thermal insulation properties to that of steel. It helps keeping water temperatures at desired levels for longer period of time. These properties are useful especially for extreme weather condition to help save energy for heating or chilling water. It is also ideal for industrial purposes where constant cold or hot water is required continuously.

## FTC Tanks are flexible in terms of design and shape



Being flexible and modular, the FTC tanks can be assembled and fitted as per site requirement with different shapes. Tanks length and width can vary from 1m (3ft) up to 50m (164ft) long and the height from 1m (3ft) up to 5m (16.4ft) with the possibility to reach 8m (26ft) high on special request.

## FTC Tanks are Environmentally friendly

FRP has actually been recycled for decades. Upon disposal it can be ground down and used as filler in concrete since the glass fibers improve the binding capability of the mix making it a recyclable product. Using FRP in lieu of steel and aluminum leads to lower energy consumption, lower area requirements and less generated waste during production with the smallest impact footprint. These environmental benefits are also combined with the FTC tank's design life in excess of 40 years, re-usability and the recycling of most of its parts.



## Technical Data

### PANEL MATERIAL PROPERTIES

DESCRIPTION	FRP
Specific gravity	1.76
Glass content	40%
Tensile strength	110 MPa (16,000 psi)
Young's modulus	13,500 MPa (1,960,000 psi)
Flexural Strength	238 MPa (33,360 psi)
Impact strength	80 Kgf.cm/cm <sup>2</sup> (37 ft. lb / in <sup>2</sup> )
Compressive strength	165 Mpa (23,200 psi)
Shear strength	104 Mpa (14,500 psi)
Barcol Hardness	66

### PANEL MATERIAL CHARACTERISTIC

	Components	Material
Panel	FRP Panel	FRP
Joints	Sealant	Synthetic Rubber (SEBS)
	Bolt & nuts	Structural Steel Galvanized and./or Stainless Steel
Reinforce - ments	Roof support	uPVC and/ or Hard Polyurethane
	External Reinforcing	Structural Galvanized Steel
	Internal Reinforcing	Stainless Steel Grade A4/ 316

### THERMAL PROPERTIES

DESCRIPTION	FRP	
Thermal expansion	Less than $1.66 \times 10^{-5}$	
Thermal Conductivity	(Single panel)	0.0961 W/m <sup>2</sup> K (0.666 Btu.in/h.ft <sup>2</sup> F)
	(Insulated panel) 25mm	0.03654 W/m <sup>2</sup> K (0.253 Btu.in/h.ft <sup>2</sup> F)
	(Insulated panel) 50mm	0.02947 W/m <sup>2</sup> K (0.204 Btu.in/h.ft <sup>2</sup> F)
Coeff. Of Overall Heat Transmission (Thermal Conductance)	(Single panel)	13.48 W/m <sup>2</sup> K (2.37 Btu.in/h.ft <sup>2</sup> F)
	(Insulated panel) 25mm	0.97 W/m <sup>2</sup> K (0.17 Btu.in/h.ft <sup>2</sup> F)
	(Insulated panel) 50mm	0.46 W/m <sup>2</sup> K (0.08 Btu.in/h.ft <sup>2</sup> F)
Water absorption	Less than 0.1%	
Light transmission	Gray	0.0%

### STRENGTH AND DURABILITY

DESIGN CONDITION	
Wind Velocity	60m/sec. ( 134 mph )
Snow load	60kgf/m <sup>2</sup> ( 12.3 lb/ ft <sup>2</sup> )
Man load	120kgf ( 265 lb )
Seismic load	Horizontal Seismic Coefficient Kh=0.3 / Zone 2
Water temperature	60°C ( max ) or 140°F ( max )

## Components and Accessories







**Rural potable water storage Tank in Trinidad & Tobago**



**Industrial application  
in Massachusetts, USA**



**Fire reserve tank in Louisiana  
Airport, USA**

FTC is a world leading manufacturer of FRP Panel type water tanks and operates in more than 40 countries around the globe. Virginia head office services North & South America. Dubai office services Europe, Asia, Africa & Australia.



**For The American Continent**

DISTRIBUTION CENTER  
FTC Tanks LLC  
Office: Alexandria, Virginia, USA  
Warehouse: Lorton, Virginia, USA  
Tel : +1 (703) 637-0514 | +1 (703) 339-9605  
Email : info@ftc-tanks.com | sales@ftc-tanks.com

**For Europe, Africa, Asia & Australia**

DISTRIBUTION CENTER  
Jebel Ali, Dubai, UAE  
Tel : +971 880 2860  
Email : info@fiberteccorp.com