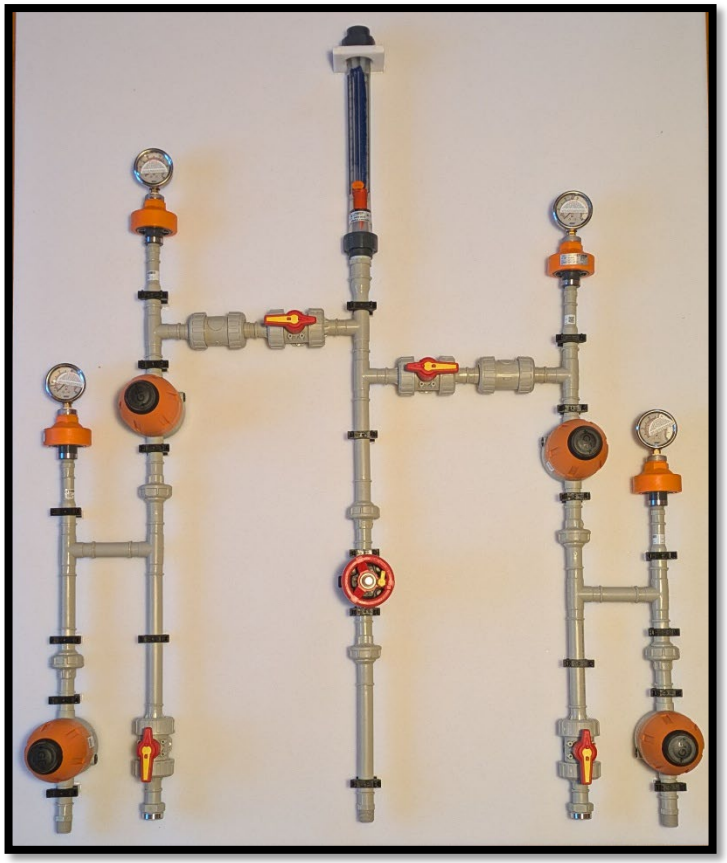
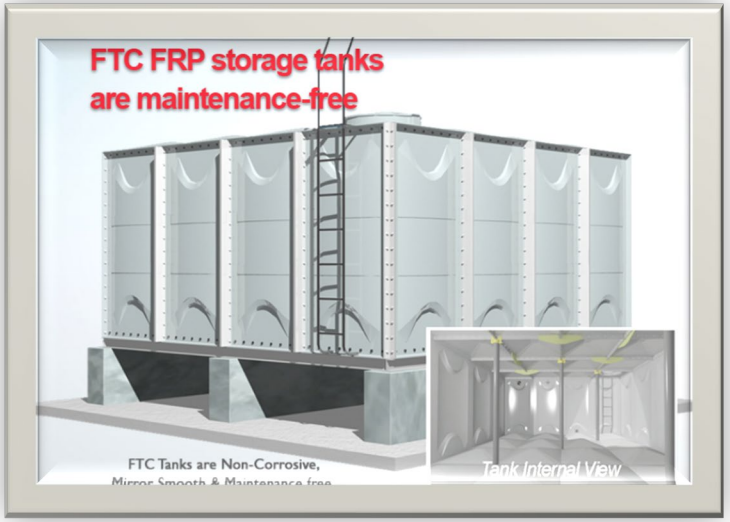
OPTCO Ltd.

High Performance Products



About Us

- Valve Actuation
- Custom Fabrication
- Water & Wastewater Treatment Specialities




FTC Tanks are Non-Corrosive,
Mirror Smooth & Maintenance free.
Tank Internal View

FTC tanks

FTC tanks

Since 1992, Fiber Technology Corporation (FTC) has been a leading innovator in panel type fiberglass water tanks, offering solutions that blend quality with global certification standards.

FTC Tanks focus to provide a solution for hygienically storing water for extended periods of time.

FTC tanks

Solution to traditional water tank problems:

- Keep Clean Water clean
- Eliminate Cost of continual maintenance
- Eliminate all Traditional tank disadvantage
- Reduce Energy cost

FTC tanks

STEEL TANKS

FTC tanks

STEEL TANKS

FTC tanks

Shell Lining

FTC tanks

BENEFITS - FRP WATER TANKS

- Inhibits Bacterial Growth due to hot press molding which gives the panel a smooth mirror finish
- No Algae Growth due to Opaque Gray Panel (0.00% light Infiltration)
- Leak free design – No Planed Major Maintenance for the first 40 Years– compression molded FRP panel
- Minimal cleaning required
- Indoor / Outdoor Use
- Extreme Hot/ Extreme Cold
- Drains Completely
- Easily fits into confined areas or carried to building roofs.

FTC tanks

BENEFITS - FRP WATER TANKS CONT'D

- Low profile design prevents NIMBY Complaints.
- Ecofriendly
- Extremely strong with an 8X factor against actual bursting pressure
- Excellent Wind, load and seismic resistant

FTC tanks

MOLDING INGREDIENTS AND PROCESS

Fiberglass, Resin, UV Stabilizer used to manufacture the Sheet Molding Compound (SMC)

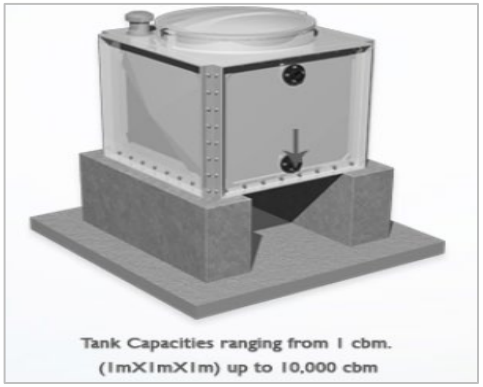
40%+ glass content

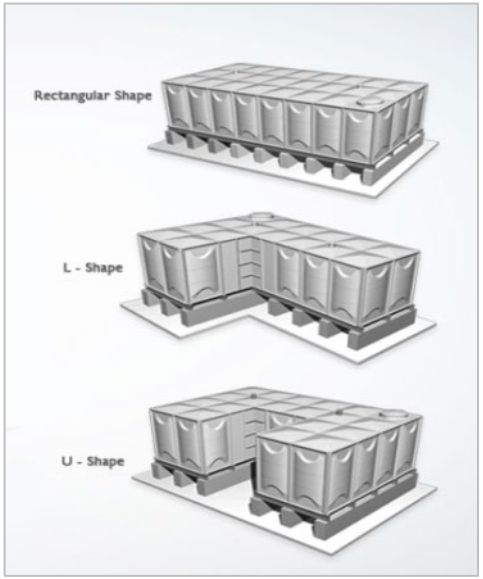
SMC is Molded and pressed at a high temperature

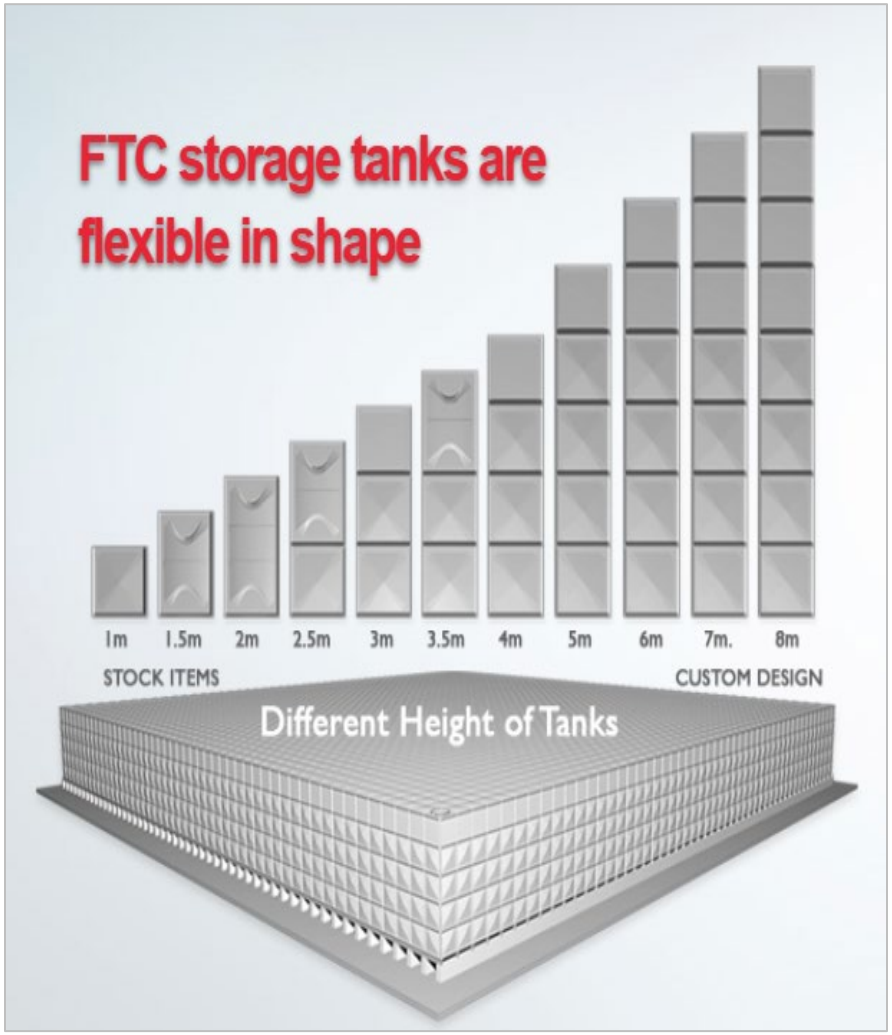
- Hot Pressing eliminates styrene emissions and therefore does not impact the taste or smell of water stored

FTC tanks

SIZE VARIANCE FROM 260 GALLONS TO 2.5 MILLION GALLONS.

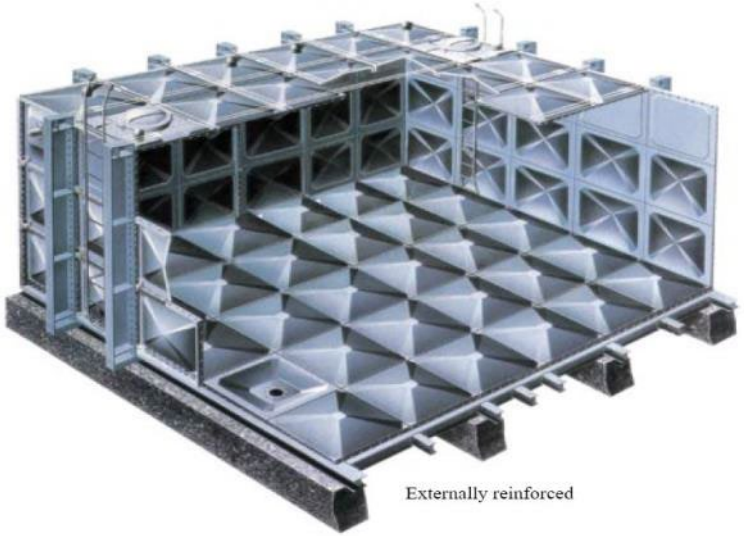


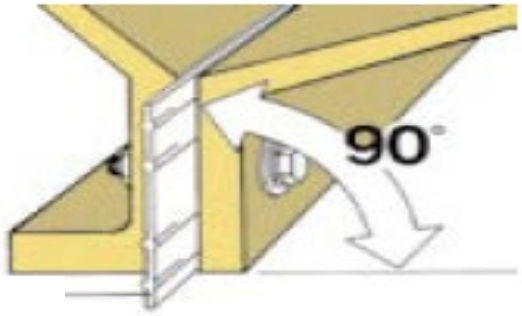




FTC tanks

- Panels are pre-engineered and can be assembled for any required size or shape Water Tank
- Sealant Material - SEBS (Styrene Ethylene Butylene Styrene)
- The high tensile strength and excellent aging properties of this polymer provide high performance and long service life (4 O rings)

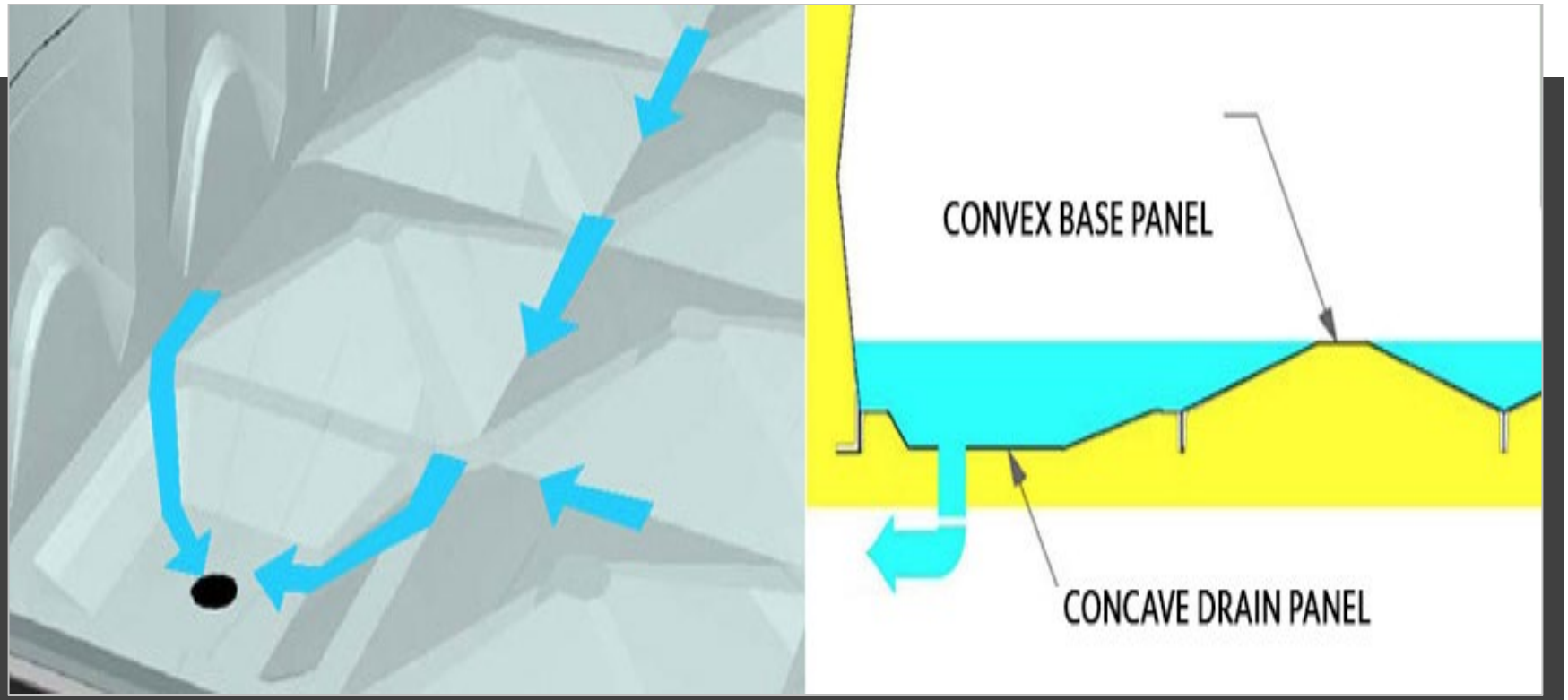




Sealant

FTC tanks

DRAINS COMPLETELY



FTC tanks

Fiberglass Reinforced Panels - superior thermal insulation compared to steel. Helps keep water temperature stable

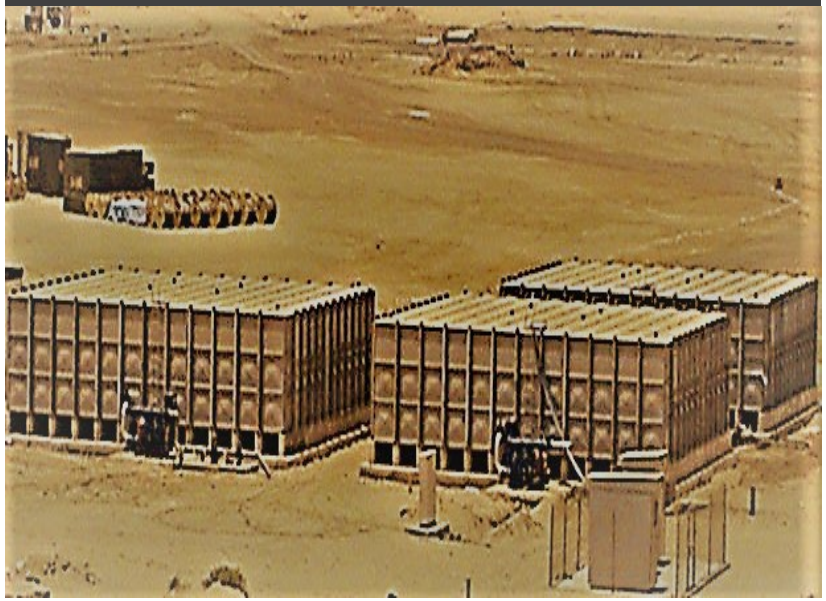
Indoor

Outdoor

FTC tanks

Insulated Panels available for extreme temps 140+F or -32F
Useful for extreme weather - help save energy required for heating or cooling water

Extreme Hot weather



Extreme Cold weather

FTC tanks

Flanged Immersion/Submersible Heaters

- 6” Cold Length
- 140 F Temperature Limiter
- 3’ up from Sidewall & Bottom
- In-House Calculations

FTC tanks

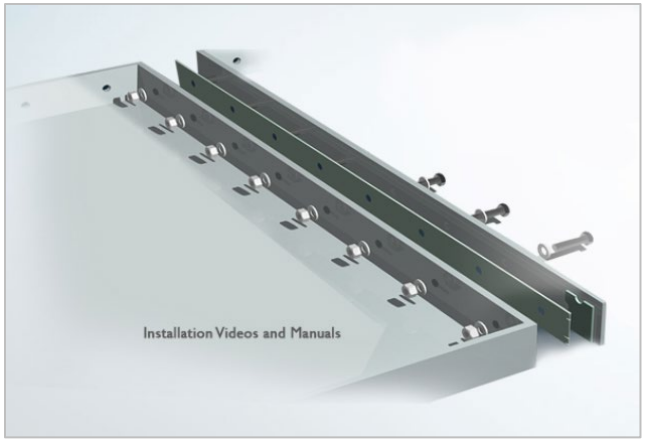
GREEN-LEED

- Lower carbon footprint compared to Aluminum and Steel
- Less chemical usage compared to concrete and Steel
- Lower material footprint compared to concrete
- FRP tanks are fully reusable

FTC tanks

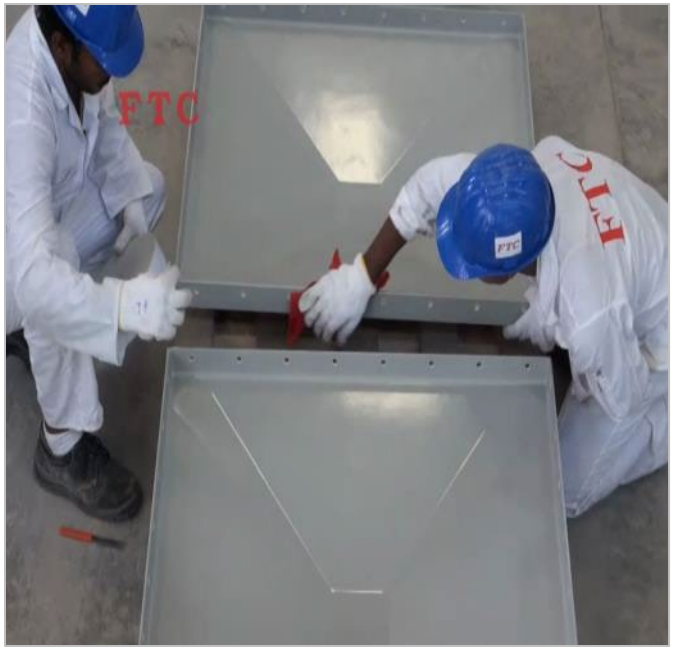
Easy Installation

- Easy to transport Simple to install Possible to relocate
- FTC panels are flat packed in pallets which save about 90% of shipping space
- Installation videos and manuals
- Basic tools required for installation



DESIGN TO INSTALLATION

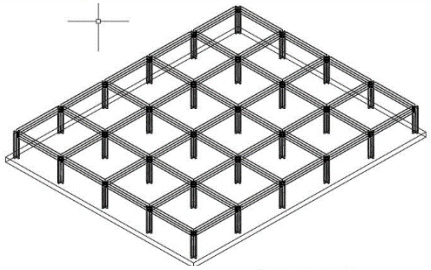
1. FTC engineers work with customer side to ensure requirements are met and design is approved (unlimited free drawings & quotation revisions)
2. SMC process done at plant
3. Panel Manufacturing done at plant
4. Shipped to Customer Site
5. Each project receives Tank Drawings (.pdf and .dwg), assembly manual, assembly video.
6. Then accessory installation follows.
7. 12 weeks average time from order to delivery
8. Factory trained assembly supervisor available if needed

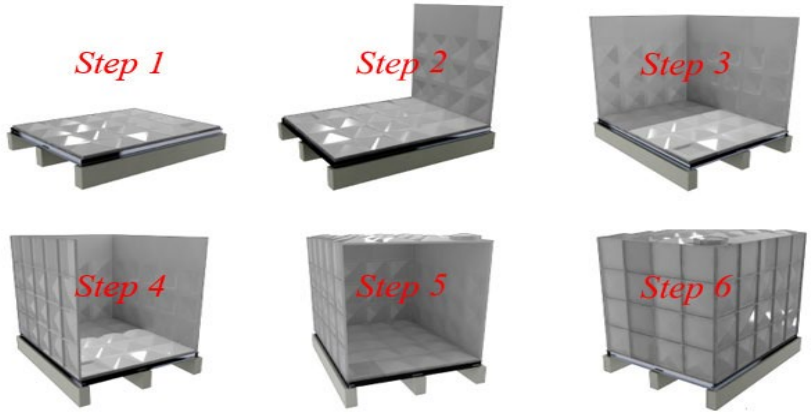


FTC tanks

FOUNDATION FOR WATER STORAGE TANKS

- Each tank requires a steel reinforced concrete slab
- On the slab concrete up stands are poured, or steel dunnage are placed at 2m (6.56ft)
- Low profile tanks (up to 2.5 Mtr height)indoors only can be installed on pedestal steel footing - provided by FTC – (non-seismic regions)



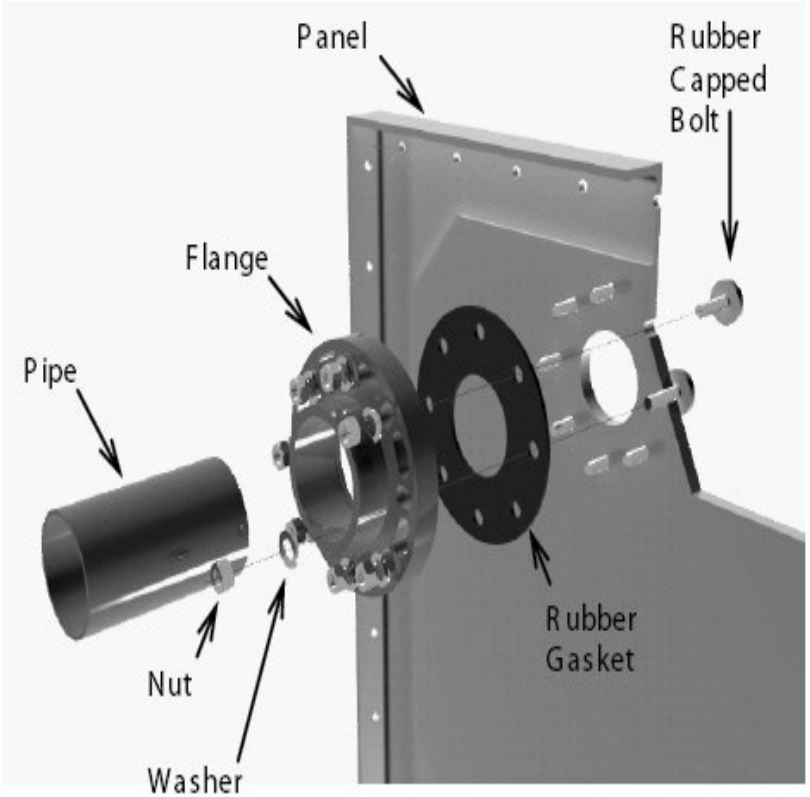


STAGES OF INSTALLATION

FTC tanks

Accessories:

- Install flanges and openings as per plumbing requirements, flanges up to 24” can be accommodated
- Install internal and external ladders
- Install air vents
- Install water Level Indicator (if required)
- Use tank controls as with any other tank



FTC tanks

OPTIONS :

- Choose flange sizes provided overflow flange has at least double of the inlet flange capacity.
- Baffles or Compartments
- Vortex inhibitor
- Water Level Indicator
- Insulated Panels –1”, 2” ,or Non-Insulated Panels
- Supplementary heating are accepted such as flanged submerged heaters or others
- Seismic Design
- Snow load Design

FTC tanks

OUR MARKETS

- Local Municipal – City Water Supply, Hospitals and Schools
- Rain-harvesting Tanks
- Ecofriendly buildings & retrofits
- Industrial applications (Chilled/Thermal storage)
- Residential housing in rural and urban areas
- Combination Potable / Fire Reserve Tanks
- Fire Reserve Tanks
- Storm Water Retention Tanks
- Water Reuse Tanks
- Potable Water tanks
- Data centers

FTC tanks

APPLICATIONS

- Potable Water
- Fire Protection
- Domestic Water
- Combination Tank
- Storm Water Retention
- Surge Tank
- Industrial
- Rain harvesting
- Waste-water
- MBBR
- Grey water
- Sea Water
- Thermal Storage
- Damper Solution

FTC tanks

FTC FRP Water Tanks and its components are extensively tested, certified , and comply to the world's premier certifications standard requirements, to enable installations anywhere in the world.

- **NSF 61 & NSF 372 (Lead Free) listed**
- **AWWA D121-12**
- **CSA B126 (Canada also use AWWA D121)**
- **AS/NZS 4020 (Australia & New Zealand)**
- **WRAS (UK & Europe)**
- **ISO 9001 (manufacturing facility)**
- **NFPA 22 (globally)**
- **Latest IBC 2009 recognizes Composites as a specifiable building material.**

NSF

Certified to NSF/ANSI 61-G

AS/NZS 4020

APPROVED WRAS MATERIAL

American Water Works Association

CSA STANDARDS

ISO 9001
BUREAU VERITAS
Certification

FTC tanks

Double Compartment - Before

FTC tanks

Double Compartment - After

FTC tanks

Double Compartment - After

FTC tanks

FTC tanks

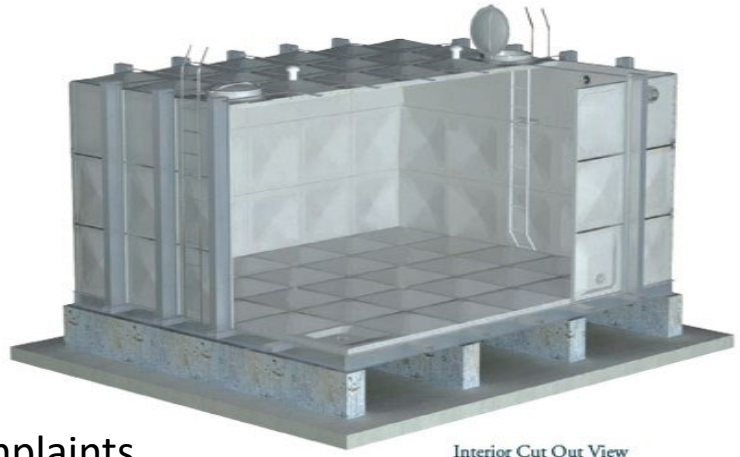
FTC tanks

FTC tanks

FTC tanks

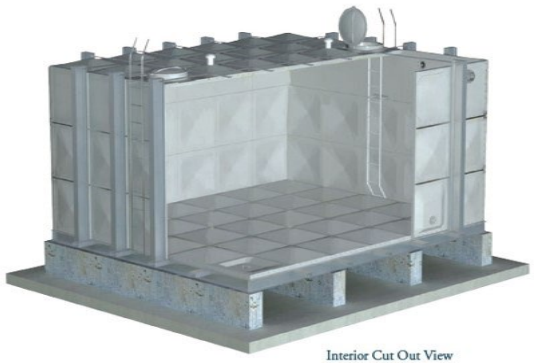
WHY FRP PANELS ?

- Certified and compliant with the world's premier certifications standard requirements, to enable installations anywhere in the world.
- No planned major maintenance for the first 40 years
- No Bacterial Growth
- No Algae Growth
- Leak free design Minimal cleaning required
- Drains Completely
- Indoor / Outdoor Use
- Extreme Hot / Extreme Cold
- Excellent Wind, load and seismic resistant
- Conforms to Confined Spaces
- Low Profile prevents NIMBY (Not in my back yard) complaints
- Ecofriendly
- 30% savings on energy costs
- 5 years warranty against manufacturing defect



Interior Cut Out View

FTC tanks



Interior Cut Out View

WE KEEP CLEAN WATER CLEAN