

# Liquid Containment Solutions

*GET CONNECTED  
with Unmatched  
Performance!!!*

Bolted RTP™ Construction  
Field-Weld Construction  
Shop-Weld Tanks  
Hybrid Tank Designs  
LIQ Fusion FBE™ System

Potable Water Storage  
Elevated Water Tanks  
Standpipes  
Wastewater Treatment  
Fire Protection  
Digesters  
Industrial Liquids

**GET  
CONNECTED**

## SPECIFY the BEST in Liquid Storage!

**Tank Connection Affiliate Group** - For potable water, wastewater, fire protection and industrial liquids, only ONE company provides the complete performance package. Tank Connection is the only tank manufacturer worldwide that offers all four types of steel tank construction. This includes Bolted RTP (rolled, tapered panel), Field-Weld, Shop-Weld and Hybrid Tank construction. At TC, our product quality, powder coat systems, field installation and customer service remain unmatched in the industry.

### We provide the COMPLETE PERFORMANCE PACKAGE

- SPECIFICATION
- DESIGN
- MANUFACTURE
- FIELD CONSTRUCTION
- "GOLDEN RULE" CUSTOMER SERVICE

**At Tank Connection, our precision RTP bolted tank construction is the #1 bolted tank design selected worldwide!**

**RTP BOLTED TANK CONSTRUCTION** - The BEST features of bolted and field-weld tank construction have been combined together in the RTP (rolled, tapered panel) tank design. In liquid storage, it remains unmatched in all category ratings.

- Best design – Precision RTP bolted tank design
- Best powder coat system –LIQ Fusion 7000 FBE™
- Long life...Low maintenance storage
- The NO LEAK bolted storage tank
- Outdates the API 12B flanged panel tanks
- Modular construction – Shipped worldwide
- Field construction process is rated #1 in safety
- Economics of value
- The RTP bolted tank design is the ONLY tank design recognized as a replacement for field-weld tank construction

RTP bolted tanks feature exact manufacturing tolerances and the top rated Fusion 7000 FBE™ powder coat process available for bolted tank construction worldwide. Tank connection also provides complete turnkey field installation service, utilizing direct factory crews and international supervisors. Field installation is accomplished utilizing a synchronized, hydraulic screw jack process, which allows field crews to install tanks/silos at grade level. This process receives the highest industry ratings for quality control and safety in the field.

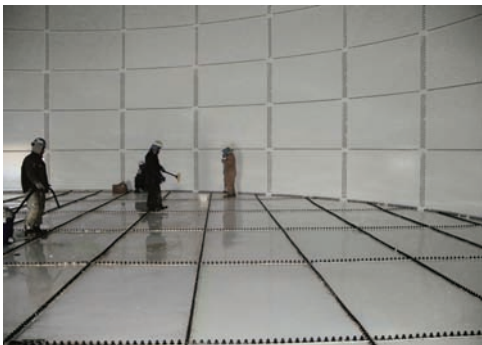
For potable water, wastewater, fire protection and industrial liquids, Tank Connection offers unlimited configurations in bolted tank construction from ground reservoirs to elevated water tanks. Standard liquid tank capacities range from 25,000 to 8,000,000 gallons. In all cases, RTP tank construction outperforms other types of bolted tank construction through its superior design, proprietary coating systems and safe field installation processes.



RTP Construction - Pure Water Storage  
4.5 million gallons/ 17,000 m<sup>3</sup>



XL Municipal Water Storage Interior  
Base Setting Ring with Concrete Bottom



Bolted Steel Floor



Power Utility - Process Water



Standpipe - jacked from grade level



Clarifier

## Engineering by Tank Connection

**The Recognized Experts in Storage** – Tank Connection Affiliate Group is a collection of the recognized experts in RTP (rolled tapered panel), API 12B (flanged panel), FP (flat panel), Field-weld, Shop-weld and Hybrid tank fabrication. **With over 2,100 years of combined experience in storage applications, Tank Connection stands alone as a global leader in storage containment!**

TC provides assistance at every stage of your project. Our dedicated site for liquid storage, [www.liquidtanks.com](http://www.liquidtanks.com), has tools that make it possible to select and specify a liquid tank in less than five minutes. Our capacity calculators are easy to use and have become the industry standard for quick reference. Specifications for AWWA D103, AWWA D100, EN 1991-4, Factory Mutual, NFPA 22, RTP (rolled, tapered panel), AISC and API 650 can easily be downloaded and custom tailored for your applications.



Bolted RTP, Field-weld & Hybrid Tank Construction

## Potable Water Storage

### Tank Connection Outperforms Competitor Storage Tank Products with Extended Service Life

Design Code	Construction Type	LIQ Fusion 7000 FBE™ Tanks		Other Coated Tanks		Glass / Vitreous Enamel Tanks	
		PDT*	Service Life**	PDT*	Service Life**	PDT*	Service Life**
<b>AWWA D103</b>	Bolted	40+	60-80+	30+	40+	30+	30-40
<b>AWWA D100</b>	Welded		N/A	40+	60-80+		N/A
<b>FM 4020</b>	Bolted, Welded	40+	60-80+	30+	40+	30+	30-40
<b>FM Principles</b>	(not a valid listing)			10+	10-15+		N/A
<b>NFPA - 22</b>	Bolted, Welded	40+	60-80+	30+	40+	30+	30-40
<b>AISC</b>	Bolted, Welded, Hybrid	40+	60-80+	20+	20-30+	25+	25-30+
<b>EN 1991-4</b>	Bolted - Glass Coated		N/A		N/A	25+	25-30+
<b>API 650</b>	Welded		N/A	40+	60-80+		N/A

\* PDT - Plate design thickness in years. A function of steel tank design.

\*\* Service Life in years. A function of periodic maintenance and coatings.

## Typical Liquid Tank Capacities *(Reference TC's Capacity Charts for "diameter x height" sizing)*

### **BOLTED RTP TANK DESIGNS - Reservoirs**

- 25,000 up to 8,000,000 gallons
- 95 up to 30,284 cubic meters

### **BOLTED RTP TANK DESIGNS - Elevated**

- 200,000 up to 1,200,000 gallons
- 760 up to 4,540 cubic meters

### **BOLTED RTP TANK DESIGNS - Standpipe**

- 50,000 up to 1,000,000 gallons
- 190 up to 3,780 cubic meters

### **HYBRID TANK DESIGNS\***

- 25,000 up to 12,000,000 gallons
- 95 up to 45,420 cubic meters

### **FIELD-WELD TANK DESIGNS**

- 100,000 up to 25,000,000 gallons
- 380 up to 94,620 cubic meters

*\*Note: Hybrid construction combines bolted RTP construction with field-weld and concrete component features.*

## Elevated Potable Water Storage – We’ve simplified the process for customer selection:

- SELECT A STYLE
- SELECT PEDESTAL CONSTRUCTION & HEIGHT
- SELECT TANK CONSTRUCTION & CAPACITY



### Tank Connection Introduces their new line of Elevated Water Storage Tanks!

#### Visit us at:

[www.TankConnection.com](http://www.TankConnection.com)

[www.LiquidTanks.com](http://www.LiquidTanks.com)

[www.MunicipalWaterTanks.com](http://www.MunicipalWaterTanks.com)

[www.ElevatedSteelTank.com](http://www.ElevatedSteelTank.com)

[www.PotableWaterTank.com](http://www.PotableWaterTank.com)

#### We offer:

- Superior aesthetics with architectural designs for the future
- Infinite combination of add-on custom design features
- Precision RTP construction utilizes synchronized jacking from grade level on select sizes
- Best coating systems offered in the industry
- Best designs tailored for cost efficiency, long life & low maintenance
- Brought to you by the domestic leaders in integrated storage systems

### Optional Tank Accessories:

#### Access stairways & ladders

- Access stairways
- Outside caged ladder with lockable hoop & rest platform
- Outside un-caged straight-run ladder with SAF-T-Climb
- Inside straight run ladders

#### Maintenance access platforms

- Radial access platforms
- Walkway platforms

#### Level indicators

- Ultrasonic
- High & low level
- Liquid level indicator with gauge board & high visibility target

#### Perimeter guardrails

- Full perimeter guardrail
- Partial deck PGR extended ~5'(1.5m) on both side of exterior ladder

#### Agitator supports

Flange nozzles

Baffles

Aluminum dome covers

Encapsulated hardware

AWWA sidewall manways

- 24" (61cm) diameter
- 30" (76cm) diameter
- 36" (91cm) diameter

Overflow nozzle with weir box & downcomer

Deck manways/vents

- 20" (50.8cm) diameter mushroom ventilator
- 24" (61cm) square roof manway

Pumping stations

Cathodic protection

Immersion heaters

Insulation – vertical clad standing seam system

Agitators and agitator supports

Foundation design



Elevated Designs



Bolted RTP - Process Storage



Potable Water Storage



Anaerobic Digester Tanks

## The Unmatched Performance of Tank Connection's Fusion FBE™ System

At Tank Connection, we have raised the benchmark of coatings performance in liquid storage applications. At TC, we rightfully claim the premier powder coat system for bolted storage tanks worldwide. Our proprietary system and controlled station processes are unmatched by any other tank manufacturer.

How good is LIQ Fusion 7000 FBE™ & EXT Fusion 5000 FBE™ + EXT Fusion SDP™?

- The proprietary formulations are unmatched
- The factory application processes are unmatched
- The field performance is unmatched

Interior Lining System:

### LIQ FUSION 7000 FBE™ @ 6-9 mils average DFT (NSF certified)

- The ultimate interior tank lining system ever developed for water, wastewater, fire protection and industrial liquid applications. Outperforms ALL bolted tank interior coating systems offered today worldwide. In potable water storage, our standard warranty starts at 5 years!
- Unmatched in all performance standards including low maintenance and cost efficiency.
- The BEST CHOICE to specify for Liquid Storage Tanks

Exterior System – Primer + Topcoat:

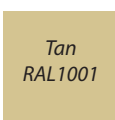
### EXT FUSION 5000 FBE™ + EXT FUSION SDP™ @ 6-10 mils average DFT

- The ultimate exterior tank lining system ever developed for water, wastewater, fire protection and industrial liquid applications. Outperforms ALL tank exterior coating systems offered today worldwide. This coating system utilizes the protective properties of our exclusive FBE epoxy powder fused to substrate with a fused topcoat of SD polyester.
- In recognized exposure testing (Southern Florida Exposure Tests) our exclusive system was rated at "5 years" without change!

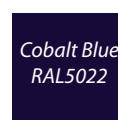


- Chemical Wash, Rinse & Dry
- SSPC - SP10 Blast (Steel Shot Media)
- Interior LIQ Fusion 7000 FBE™ Application
- Initial Coating Cure @ 350° F
- Infrared Convection
- Exterior EXT Fusion 5000 SDP™
- Oven Crosslink Cure @ 400° F
- Testing & Final Inspection

**Standard Colors:**



**Premium Colors:**



The colors shown are printed approximations. The exact color can be viewed using RAL standard color samples.

## Field-Weld & Hybrid Tank Construction

ATEC Steel is an industry leader in high quality field-weld tank fabrication. With over 100,000 square feet of fabrication space, ATEC can handle projects of any size. In the shop, we utilize the latest state-of-the-art fabrication equipment for computerized painting and rolling of materials. We also offer environmental controlled blast and coating services to meet customer specification requirements.



*A World Class Manufacturing Facility!*

At ATEC it all starts with the right support team. All employees have extensive backgrounds in tank and steel fabrication. Our in-house engineering consists of professional engineering services, experienced project managers and CAD layout operators. Our experience level allows us to respond quickly and precisely to customer requests.

In the shop, ATEC production processes establish the benchmark for performance in field-weld tank fabrication. Documented safety and quality control procedures, economy of scale processes and precision fabrication practices set ATEC far apart from other field-weld tank manufacturers.

### ALL ROADS LEAD TO ATEC! CHECK US OUT AT:

[www.API650Tank.com](http://www.API650Tank.com)  
[www.API620Tank.com](http://www.API620Tank.com)  
[www.FieldWeldTanks.com](http://www.FieldWeldTanks.com)  
[www.AtecSteel.com](http://www.AtecSteel.com)  
[www.AtecTank.com](http://www.AtecTank.com)

### Typical Range of Tank Capacities:

- ▶ 100,000 up to 25,000,000 gallons
- ▶ 380 up to 94,620 cubic meters

### Liquid Service Markets:

- ▶ Industrial Liquids
- ▶ Municipal Water & Wastewater



*XL Liquid Tank*



*Potable Water*



*Liquid Terminal*

## About Tank Connection

The Tank Connection Affiliate Group is an integrated family of companies that specialize in liquid and dry bulk storage applications worldwide. Unlike tank suppliers that offer a single choice in tank construction, TC is the only global tank manufacturer that designs, fabricates and installs all four types of steel storage tanks including **Bolted RTP, Field-weld, Shopweld and Hybrid Tank construction**. TC products also command the top performance ratings in the industry.

TC Affiliate Companies include:

- **ATEC Steel®** – Industry leader in field-weld tank fabrication
- **Tank Connection®** – Global leader in bolted RTP (rolled, tapered panel) tank fabrication and integrated storage systems
- **LiquidTanks.com** – Tank Connection liquid division
- **BOSS Tank®** – Industry leader in shop-weld and hybrid tank fabrication
- **Alliance Constructors®** – Top ranked bolted tank field installation company providing tank erection services worldwide

There's a reason why Tank Connection is recognized as the new leader in liquid storage and it all starts with consistent, reliable performance on every project. If our project involves a single silo or an integrated storage system, no one offers more services and creative solutions than TC. From the quote stage through order process, drawing approval, material fabrication and field installation, Tank Connection will provide streamlined processing and "Golden Rule" customer service.

### Liquid Tank Storage & Process Applications – Visit [www.liquidtanks.com](http://www.liquidtanks.com)

#### Potable Water • Power Generation • Fire Protection • Industrial Liquids • Petroleum

- |                     |                            |                      |
|---------------------|----------------------------|----------------------|
| Aeration tanks      | Filter tanks               | Primary treatment    |
| Anaerobic digester  | Fire protection water      | Raw water            |
| Aerobic digester    | Industrial process water   | Slurry tanks         |
| Brine water         | Industrial liquids         | Settling tanks       |
| Brackish water      | Industrial effluent        | Secondary treatment  |
| Chemicals           | Municipal sludge treatment | Sludge dewatering    |
| Clarifiers          | Municipal potable water    | Storm water run-off  |
| Crude Oil           | Leachate storage           | Trickling filters    |
| Deionized water     | Petroleum                  | Ultrapure water      |
| Demineralized water | Potable water              | Wastewater Treatment |
| Desalinated water   | Process water              |                      |



Field-Weld Standpipe      Bolted RTP Standpipe



Process Water



Bolted RTP Standpipe



Aluminumdomes.com



Water & Wastewater Facility

## Another Tank Manufacturing Facility!

In December 2008, Tank Connection brought online an 85,000 square ft. manufacturing facility for bolted RTP (rolled, tapered panel) tank construction. This facility is state-of-the-art and commands the top position in bolted tank manufacturing worldwide.



*Another Tank Connection manufacturing facility was unveiled in December 2008. Facility manufactures the top rated "RTP" bolted tank design selected worldwide.*

With five facilities and over 300,000 sq. ft. of manufacturing space dedicated to storage tank fabrication, TC Affiliates has created the ultimate SINGLE SOURCE approach to liquid storage systems. . . and they back it with the largest support team of recognized industry experts in storage containment applications.

## Tank Connection Global Services

- Telephone & email consultation
- Specification development
- Budget assistance
- Professional engineering services
- Customized tank design
- Foundation design
- Integrated storage system design
- Firm bid proposals –materials & field installation
- CAD & 3D general arrangement drawings
- Professional project management services
- Direct factory supervisors & field installation crews
- Tank inspections, testing & commissioning
- Storage tank retrofit & repair service
- "Golden rule" customer service

**TC products are available exclusively through Tank Connection, TCI (Tank Connection International), BOSS Tank, LiquidTanks.com, OEM suppliers, Tank Connection Dealers & Factory Representatives worldwide!**



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