

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.

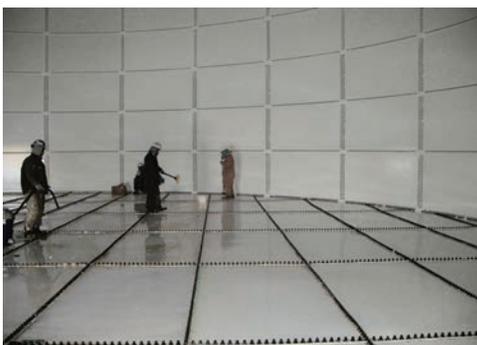
For potable water, wastewater, fire protection and industrial liquids, Tank Connection offers unlimited configurations in bolted tank construction from ground reservoirs to elevated water tanks. Standard liquid tank capacities range from 25,000 to 8,000,000 gallons. In all cases, RTP tank construction 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 m³



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, 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**
AWWA D103	Bolted	40+	60-80+	30+	40+	30+	30-40
AWWA D100	Welded		N/A	40+	60-80+		N/A
FM 4020	Bolted, Welded	40+	60-80+	30+	40+	30+	30-40
FM Principles	(not a valid listing)			10+	10-15+		N/A
NFPA - 22	Bolted, Welded	40+	60-80+	30+	40+	30+	30-40
AISC	Bolted, Welded, Hybrid	40+	60-80+	20+	20-30+	25+	25-30+
EN 1991-4	Bolted - Glass Coated		N/A		N/A	25+	25-30+
API 650	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

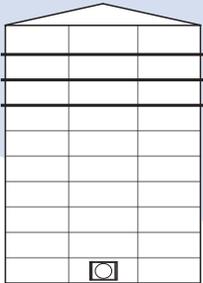
**Note: Hybrid construction combines bolted RTP construction with field-weld and concrete component features.*

Understanding Steel Water Tank Designs

What level of design and quality does your application require?

TYPE: Flat Panel

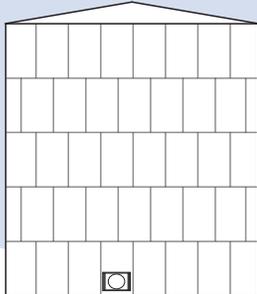
Panel type: Horizontal panel
Panel size: varies
Web stiffeners: 2 or more
Application: Ag, Water



Design "D"

TYPE: API 12B

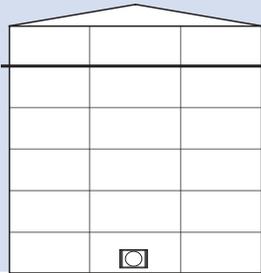
Panel type: Vertical flanged panel
Panel size: 5' wide x 8' ht.
Web stiffeners: none
Application: Ag, Water, Fire Protection



Design "C"

TYPE: Bolted RTP (rolled, tapered panel)

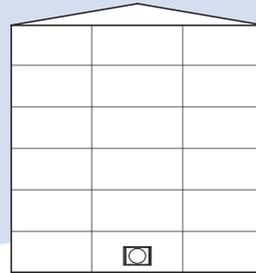
Panel type: Horizontal rolled, tapered panel
Panel size: 10' wide x 5' ht.
Web stiffeners: 1
Application: Power, Potable Water, Wastewater, Fire Protection, Industrial Liquids



Design "B"

TYPE: Bolted RTP (rolled, tapered panel)

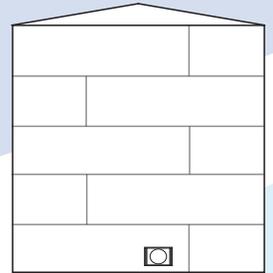
Panel type: Horizontal rolled, tapered panel
Panel size: 10' wide x 5' ht.
Web stiffeners: none
Application: Power, Potable Water, Wastewater, Fire Protection, Standpipes, Industrial Liquids



Design "A"

TYPE: Field-Weld

Panel type: Horizontal rolled panels
Panel size: varies, typical 25' wide x 8' ht.
Web stiffeners: none
Application: Power, Potable Water, Wastewater, Standpipes, Industrial Liquids



Design "A"

In today's market, there is a wide variety of steel tank designs and quality available for water storage applications. Understanding the differences may prevent the purchase of products and designs, that will not fulfill your requirements for high quality water storage systems.



Tank Connection is the only tank supplier worldwide that designs, manufactures and installs all four types of steel storage tanks including bolted RTP (rolled tapered panel), field-weld, shop-weld and hybrid tank designs. Our precision RTP construction is the #1 bolted tank design selected for liquid storage applications. The BEST features of bolted and field-weld tank construction have been combined together in the RTP design. It remains unmatched in the industry in all category ratings.

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:

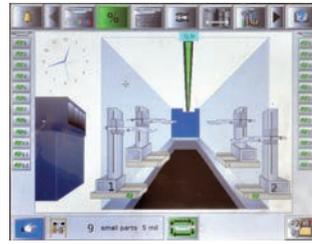
LIQ FUSION 7000 FBE™ @ 6-9 mils average DFT (NSF certified)

- 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.

Aluminum Geodesic Domes

Tank Connection aluminum domes set a new benchmark of performance in geodesic dome construction. Constructed entirely of aluminum utilizing our proprietary component fabrication, TC domes are corrosion resistant, maintenance free and designed for extended service life. Whether installing on a new tank application, or retrofitting on an existing structure, aluminum geodesic domes are today's technology for cover and containment applications.



Secondary Containment



Powder Coated Aluminum Dome

Field-Weld Tank Construction

In field-weld construction, TC provides premier tank designs including API 650, API 620, ASME and AWWA D100 construction. We minimize the large piece count shipped to the field to minimize field construction timeframes. We are a turnkey supplier providing specification design, manufacturing and field construction services, supported by the best engineering team in liquid storage systems.

Hybrid Tank Construction

Tank Connection is credited as the innovator of hybrid tank construction. This storage design combines the best features of bolted RTP, shop-weld, field-weld and concrete tank construction. Manufactured in state-of-the-art facilities, our hybrid designs offer unsurpassed quality and coatings that remain unmatched in the industry today. Complemented by the #1 construction process in the field, hybrid construction raises the bar for premier field performance in select storage applications.

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 Aluminum Dome



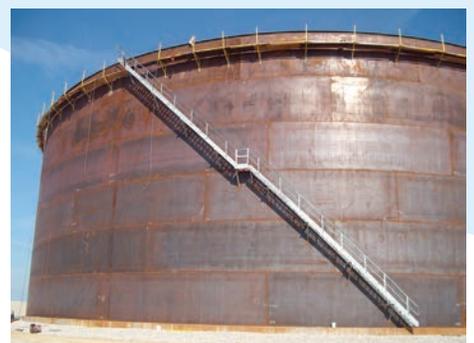
Stainless Steel Bolted



XL Liquid Tank



Potable Water



XL Field Welded Liquid Tank

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:

- **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®** – Leading 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

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

Aeration tanks	Filter tanks	Raw water
Anaerobic digester	Fire protection water	Slurry tanks
Aerobic digester	Industrial process water	Settling tanks
Brine water	Industrial liquids	Secondary treatment
Brackish water	Industrial effluent	Sludge dewatering
Chemicals	Municipal sludge treatment	Standpipe
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	
Elevated Water Tanks	Primary treatment	



Field-Weld Standpipe Bolted RTP Standpipe



Process Water



Bolted RTP Standpipe



Aluminumdomes.com



Water & Wastewater Facility

The Leading Tank Manufacturing Facility for Bolted RTP Fabrication

With multiple 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's 85,000 sq. ft., state-of-the-art manufacturing facility was brought on line in early 2009. The facility commands the top position in bolted tank manufacturing worldwide!

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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