





WE ENGINEER EXCELLENCE

Tank Connection is the leading international bolted tank manufacturer for factory coated bolted storage tanks and aluminum geodesic dome and flat covers for liquid and dry bulk storage applications.

WE EXCEED EXPECTATIONS

Tank Connection is committed to helping clients find success with their projects. Utmost devotion to the customer drives an unyielding pursuit of excellence that is the embodiment of Tank Connection.

WE OWN A REPUTATION OF SUCCESS

Tank Connection is an employee owned company, manufacturing American made products in ISO 9001:2015 Certified QMS facilities in the U.S. Tank Connection has built a reputation of success with a passion for safety, innovation and continuous improvement.

WE FACILITATE COMPREHENSIVE SOLUTIONS

Tank Connection focuses on listening to clients and providing them with factual information on different types of storage containment options. This approach to service clients is based on the development of a broad product line of superior storage tank products, designs and field services.

ADVANCED **DESIGN**

INDUSTRY EXPERTS

SUPERIOR QUALITY

UNMATCHED COATINGS

EMPLOYEE OWNED AMERICAN MADE

GAME CHANGING INNOVATION

HIGH QUALITY ALUMINUM COVERS

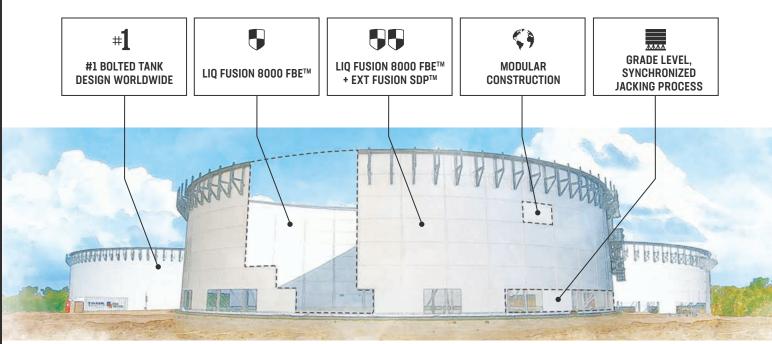
GOLDEN RULE CUSTOMER SERVICE





THE BOLTED RTP ADVANTAGE

Tank Connection's bolted RTP (Rolled, Tapered Panel) tank design is a culmination of experience, innovation, and vision to create the highest quality tank in the storage industry. Distinguished for outstanding quality, longevity and reliability, Tank Connection's bolted RTP tanks feature advanced engineering, precision fabrication and premier coating technology.





UNMATCHED IN ALL CATEGORY RANKINGS



PRECISION ENGINEERING



NO LEAK DESIGN



SAFE FIELD INSTALLATION



LONG LIFE +
LOW MAINTENANCE



DIVERSE + VERSATILE DESIGN



PROPRIETARY COATING TECHNOLOGY



ECONOMICS OF VALUE



HEAVY TANK DESIGN



EXACT MANUFACTURING TOLERANCES



CAPACITIES UP TO 8 MILLION GALLONS



SMOOTH WALL CONSTRUCTION



QUICK INSTALLATION



FACTORY DIRECT INSTALLATION CREWS AVAILABLE



UNMATCHED SYSTEM AND CONTROLLED STATION PROCESSES PROPRIETARY AND EXCLUSIVE COATING + APPLICATION PROCESSES

OUTPERFORMS ALL OTHER TANK COATINGS

LONG LIFE + LOW MAINTENANCE

10X

IMPACT RESISTANCE OF GLASS COATINGS

14
CONTROL STATIONS

21 COATING STAGES

100+
APPLICATION PROCESSES

THE COATING PROCESS

Tank Connection's fusion powder coating systems are formulated from thermosetting resins, binder, pigments and additives. The fusion powder coating formulations are created by blending the various components and processing them through an extruder into a continuous mass with a completely uniform composition. This homogeneous mass is then cooled and broken down into small chips, which are then ground into a fine powder. Each particle of powder contains within it the necessary components for reforming into the finished coating after fusion application and oven baking. LIQ Fusion 8000 FBE™ and EXT Fusion SDP™ powder coating systems are electrostatically applied from an automated fusion powder coating line.

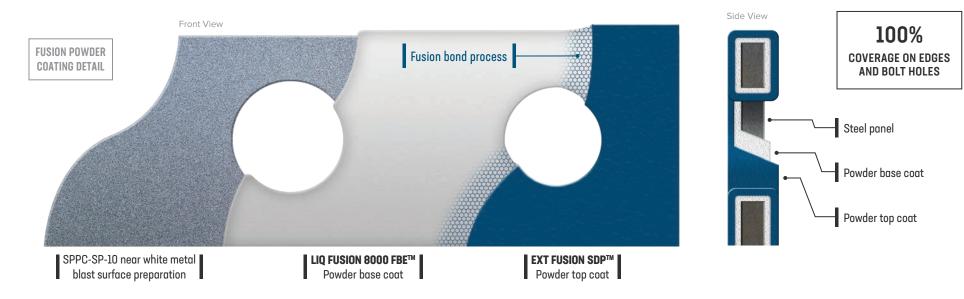
The pre-stages of the LIQ Fusion 8000 FBE™ application are critical to provide the best substrate surface and anchor profile. All bolted steel panels are chemically washed and blasted to an SSPC-SP-10 near white finish. LIQ Fusion powder is fed pneumatically from a reservoir into automated spray guns where a low amperage, high voltage charge is imparted to the particles. The bolted panels to be coated are grounded, so that the charged particles will seek the opposite charged metal surfaces. This coating process produces a uniform, monolithic, fusion-bonded surface with complete edge and bolt hole coverage.

UNBREAKABLE BOND

The thermoset powders, utilized by Tank Connection, incorporate low molecular weight solids that go through a fusion and chemical reaction to form higher molecular weight polymers. Once the powder is applied, the bolted steel panels enter an oven where the resins, pigments and other reactive agents crosslink to produce a high molecular weight binder system, Tank Connection's thermoset processes are irreversible. Once the curing and crosslink takes place, the powder coating can not be returned to its original form by any means.

POWDER ON POWDER DUAL APPLICATION AND CURING PROCESS

Tank Connection's powder on powder coating process creates a top coat layer that can not be removed independently from the base coat. This top coat, fused to the primer substrate, offers superior protection and unparalleled longevity and performance. The electrostatically applied fusion bond process provides 100% coating coverage on all edges and bolt holes.



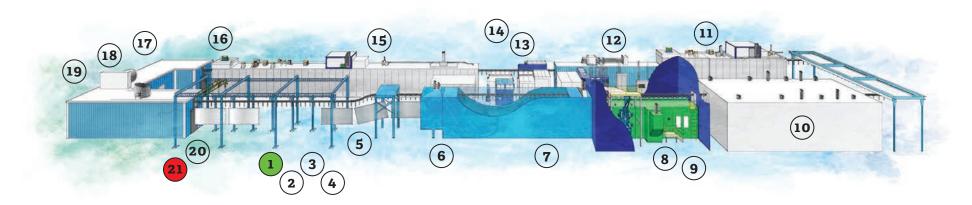
FUSION POWDER COATING LINE

- 1. Component staging
- 2. Manifest operator
- 3. Coating line oven temp. setting changes
- 4. Coating line color requirements
- 5. Hanging tank components
- 6. Component wash

- 7. Component drying
- 8. Shot blast metal surface preparation
- 9. Blast profile inspection
- 10. E-room
- 11. Gel oven
- 12. 1st cool down tunnel

- 13. Topcoat powder booth
- 14. 2nd powder process booth
- 15. Final cure oven
- 16. Final cool down tunnel
- 17. Holiday/pin hole testing
- 18. Cross hatch testing

- 19. DFT coating test
- 20. Visual inspection & unloading
- 21. Skid crating & shipping



LIQ FUSION 8000 FBE™

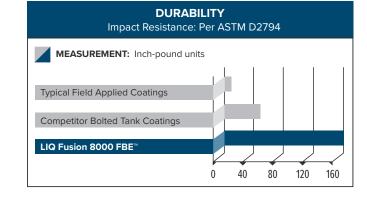
COATING NTERNAL

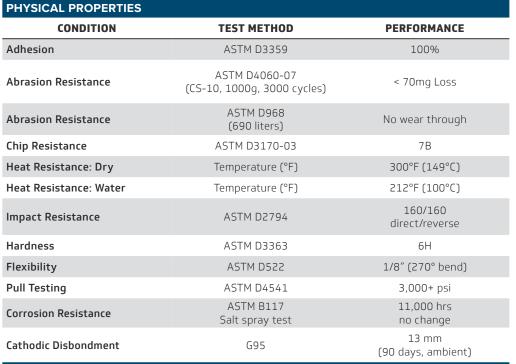
CHARACTERISTICS

- · Fusion bonded to substrate surface
- Abrasion, chip and scrape resistant
- Can be repaired in the field if damaged
- Superior test performance compared to all other coatings
- Does not crack or spall
- Excellent chemical and corrosion resistance

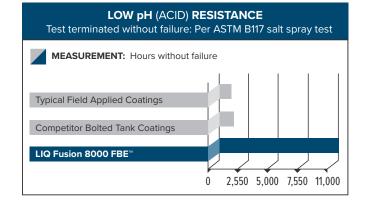
CERTIFICATIONS

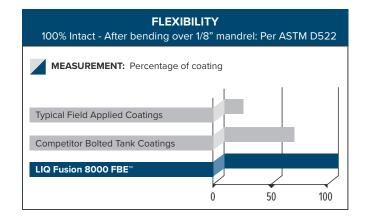
- NSF/ANSI Standard 61: Drinking Water Systems
- FDA 21 CFR 175.300: Resinous and Polymeric Coatings











TERNAL COATING

TOP COAT EXT FUSION SDP

CHARACTERISTICS

- Outstanding toughness with proven weatherability
- Fusion bonded to FBE base coat
- Gloss retention > 30%
- Enhanced resistance to chalking or fading
- Superior exterior durability
- Can not be scratched off independent of the base coating

PHYSICAL PROPERTIES						
CONDITION	TEST METHOD	PERFORMANCE				
Adhesion	ASTM D3359	4+				
Impact Resistance	ASTM D2794	40+				
Elongation	ASTM D522	1/2" or better				
Exterior Durability	AAMA 2604-05	5 year Florida				
Hardness	ASTM D3363	H+				
Corrosion Resistance	ASTM B117	> 10,000 hrs				

SPECIFICATION & PERFORMANCE

Film Thickness 6-10 mils DFT

LIQ FUSION 8000 FBETM + EXT FUSION SDPTM

Tank Connection's external coating utilizes its exclusive base coat and top coat fused together. The combination of the protective properties of both the primer and top coat creates an external coating that outperforms all other coating systems. In recognized exposure testing (Southern Florida Exposure Tests) this system is rated at 5 years without change.



COATING COLORS

TC WHITE RAL9016

All colors shown are printed See RAL samples for actual colors.

TC GRAY **RAL7035**

COATING

TC TAN **RAL1001**

TC LIGHT GREEN **RAL6019**

TC LIGHT BLUE RAL5024

TC FOREST GREEN **RAL6005**

TC COBALT BLUE RAL5011

FUSION

VERSUS



FUSION COATINGS OUTPERFORM GLASS/VITREOUS ENAMEL COATINGS

Glass is subject to enamel slip, leading to insufficient coating coverage in the bolt holes and panel edges.

Due do the inflexibility of glass coating, it often cracks at the bolt heads.

Tank panels must be offset to minimize cracking during installation.

Panel unzipping as a result of corrosion and joint failure.









Mastic sealant being used to attempt to cover up deficiencies.

Glass tanks can never be recoated.

Light glass tank design requires web truss support.





GLASS CHARACTERISTICS

- Requires web truss support
- · No flexibility, subject to cracking
- Zero impact resistance
- Inherent flaking and spalling issues
- High factory reject rates
- Utilizes light tank designs
- Coating defects (holidays)
- Cannot be recoated or repaired
- Insufficient bolt hole coverage
- Insufficient panel edge coverage
- Short product life
- High maintenance



THE STORAGE AUTHORITY

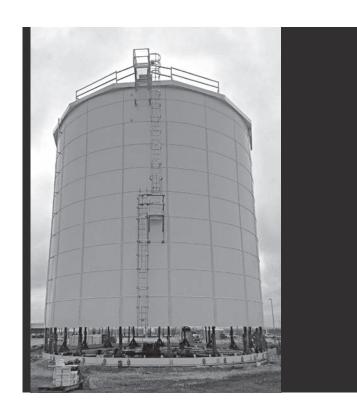
When it comes to precision design and expert knowledge, Tank Connection maintains one of the most extensive engineering departments in the tank industry, with P.E.'s that sit on AWWA D103, AWWA D104, AWWA D106 and AWWA D108 committees. Tank Connection also maintains an expanded listing of P.E. stamps throughout the U.S. Starting with steel procurement at the mill and finishing with construction services in the field, all design, manufacturing, project management, system integration and field installation services are available through Tank Connection's experienced personnel.

Tank Connection's storage products are designed for low maintenance and long term performance. Bolted RTP tank construction outperforms all other types of bolted tank construction through superior design, proprietary coating systems and safe and expedient field installation processes. Let Tank Connection's expert industrial designers and shop technicians, with decades of experience in tank production, turn your specifications into a specialized tank built to last.

WHEN IT COMES TO SAFETY, WE'VE GOT BOTH FEET ON THE GROUND

At Tank Connection, quality and safety are second nature. Tank Connection's field installation utilizes a synchronized jack process, which allows field crews to install tanks at grade level. This process promotes cost and time efficiency and receives the highest industry ratings for quality control and safety in the field.

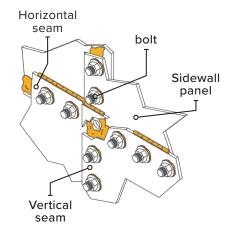
Tank Connection jacking systems are stored at various global locations for expeditious results at the lowest factored cost.



BOLTED RTP LAP JOINT PANEL CONSTRUCTION

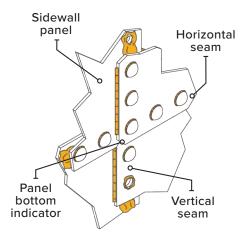
Tank Connection's bolted RTP tanks are heavy, modular tank designs. This Category 1 design does not require external web truss support. Tank Connection's RTP panel construction utilizes lap joint panel connections, which require exact manufacturing tolerances. The precision fabricated panels form vertical bolt seam patterns for improved strength, enhanced aesthetics and accurate panel connections. When combined with the appropriate gasket and sealant, a leak-free barrier is maintained between panels.







PANEL LAP



CATEGORY 1

FIELD WELDTANK DESIGN

HEAVY TANK DESIGN



APPLICATION CODE	AWWA D103				
PANEL TYPE	Horizontal rolled panels				
PANEL SIZE	varies				
WEB STIFFENERS	None				
QUALITY	Best Quality				

CATEGORY 1

BOLTED RTP TANK DESIGN



APPLICATION CODE	AWWA D103
PANEL TYPE	Horizontal RTP
PANEL SIZE	10' x 5'
WEB STIFFENERS	None
QUALITY	Best Quality

CATEGORY 2

BOLTED RTP
TANK DESIGN



APPLICATION CODE	AWWA D103	
PANEL TYPE	Horizontal RTP	
PANEL SIZE	10' x 5'	
WEB STIFFENERS	1-2	
QUALITY	Best Quality	

CATEGORY 3

BOLTED RTP TANK DESIGN



APPLICATION CODE	AWWA D103
PANEL TYPE	Horizontal RTP
PANEL SIZE	10' x 5'
WEB STIFFENERS	3-4
QUALITY	Good Quality

CATEGORY 4

BOLTED API 12B
FLANGED PANEL
TANK DESIGN



APPLICATION CODE	AWWA D103
PANEL TYPE	Vertical flanged
PANEL SIZE	5' x 8'
WEB STIFFENERS	Horizontal flange connections
QUALITY	Marginal Quality

CATEGORY 5

BOLTED FLAT PANEL& CORRUGATED PANEL
TANK DESIGN



APPLICATION CODE	Varies
PANEL TYPE	Horizontal & corrugated panel
PANEL SIZE	Varies
WEB STIFFENERS	Varies + vertical stiffeners
QUALITY	Lowest Quality

RECOMMENDED **APPLICATION MATRIX**

CATEGORY 1

FIELD WELD TANK DESIGN

CATEGORY 1

BOLTED RTP

TANK DESIGN

BOLTED RTP

CATEGORY 2

CATEGORY 3

BOLTED RTP

CATEGORY 4

BOLTED API 12B

	GAILGURY 5
	BOLTED FLAT PANEL & CORRUGATED PANEL
	TANK DESIGN
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APPLICATION

APPLICATION	POOR GOOD BEST
Potable Water - Ground Reservoir	/ / ③ / / / / / N/A
Potable Water - Standpipe	N/A
Fire Protection	N/A
Raw Water	N/A
Filtration	N/A
Demineralized Water	N/A
Industrial Process Water	N/A
Desalinated Water	N/A
Brine	N/A
Other Water	N/A
Municipal Treatment	N/A
Landfill Leachate	N/A
Primary & Secondary Sedimentation	N/A
Frac Water	N/A
Trickling Filters	N/A
Anaerobic Digestion	N/A
Sludge	N/A
Storm Water Run-off	N/A
Other Wastewater	N/A
Process Liquids	
Lime Slurry	N/A
Carbonate Slurry	N/A
Secondary Containment	N/A
Edible Oils	N/A
Fertilizer	N/A
Resins	N/A
Crude Oil	
Diesel Fuel	
Drilling Fluids	N/A
Drilling Mud	N/A
Liquid Manure	N/A
Irrigation	N/A

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Tank Connection's growing line of premier aluminum tank covers take product protection to the next level. Tank Connection Covers feature enhanced design and manufacturing methods that provide increased flexibility and strength.

Tank Connection Covers' proprietary design components are the result of decades of experience that remove problematic installation issues commonly faced with other aluminum covers in the industry. Lighter overall aluminum covers are now possible without sacrificing strength. Advanced features offer superior vapor and product loss protection for geodesic domes; and easier access and higher field performance in aluminum flat covers.

All the components of an APEX Dome are engineered to achieve the highest performance. The result is a premier dome design that maximizes strength and flexibility with enhanced protection against leaks, vapor loss, or product loss.





EXACT MANUFACTURING TOLERANCES



ALL-ALUMINUM CONSTRUCTION



PRECISION ENGINEERING



STRONG SPACE FRAME DESIGN



ENHANCED VAPOR LOSS PROTECTION



CORROSION RESISTANT



WATERTIGHT DESIGN



PROPRIETARY DESIGN COMPONENTS



PRECISION FABRICATION



LONG LIFE + LOW MAINTENANCE



DIAMETERS OVER 500 FT (152.4 M)



OPTIMUM COST EFFICIENCY



INCREASED LOAD STRENGTH



FACTORY DIRECT INSTALLATION CREWS



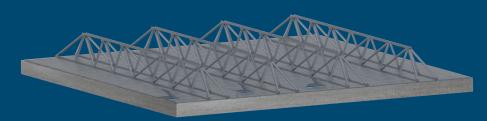
PRECISION FIT + QUICK INSTALLATION



CLEAR SPAN CONSTRUCTION



The Tank Connection Covers design team have developed a solution that remedies common issues with existing flat cover designs in the industry. Tank Connection's flat cover design team have accumulated decades of experience in design innovation for multiple, high profile, large scale, complex projects around the world.











EASE OF ACCESSIBILITY FOR MAINTENANCE



OPTIMAL PANEL ATTACHMENT METHOD TO BASIN WALL



FREEDOM OF HINGED ACCESS LID PLACEMENT ON COVER



LIGHT WEIGHT + STRONG STRUCTURAL PANELS



UP TO 70" X 70" SINGLE HINGED ACCESS LIDS



UP TO 70" X 140" DOUBLE HINGED ACCESS LIDS



ALL ALUMINUM, CORROSION RESISTANT CONSTRUCTION



REDUCED COST OF AIR SCRUBBING EQUIPMENT



EPDM GASKETS



ODOR REDUCTION



REDUCED AIR VOLUME THAT **NEEDS TO BE SCRUBBED**



LIGHTWEIGHT ACCESS LIDS



REDUCED SHIPPING SPACE = LOWER SHIPPING COSTS



QUALITY DRIVEN STRUCTURAL ANALYSIS PROGRAMS



100% CNC PRESIDENTS

FLAT COVER COMPONENTS 100% CNC PRECISION FABRICATED

GOLDEN RULE CUSTOMER SERVICE

Tank Connection provides a full service approach to storage tank construction and field services. Whether its consulting, project management or tank and auxiliary design, Tank Connection's Golden Rule customer service will meet and exceed client expectations.





















CERTIFICATIONS

- ISO 9001:2015 (International Standards Organization)
- FM 4020 (Factory Mutual)
- NSF/ANSI/CAN 61

(National Sanitation Foundation) Drinking Water System Components

- ANQAS Indonesian Potable Water Storage
- AS/NZS 4020 Australia/New Zealand Potable Water Storage

REQUEST A QUOTE AND GET CONNECTED WITH REAL PERFORMANCE FROM THE INDUSTRY LEADER, TANK CONNECTION!

TANK CONNECTION: 3609 North 16th Street, Parsons, KS 67357

PHONE: +1 620.423.3010 | EMAIL: sales@tankconnection.com

WEB: TANKCONNECTION.COM | TANKCONNECTIONCOVERS.COM

STAY CURRENT STAY CONNECTED









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