



## LIQ Fusion 7000 FBE™ ... A Stronger System



**LIQ Fusion 7000 FBE™** technology is here! In bolted storage tanks, Tank Connection offers the next generation of unmatched coating performance.

**LIQ Fusion 7000 FBE™** system developed by AKZO NOBEL AND TANK CONNECTION



## **RTP™ Design ( rolled , tapered panel )**



## LIQ Fusion 7000 FBE™ Review & History – CORRECTS ALL GLASS DEFICIENCIES

The performance data as shown above shows that the fusion system is a stronger system than glass in bolted tank construction. The LIQ Fusion 7000 FBE™ system developed by Akzo Nobel and Tank Connection, corrects all of the glass deficiencies identified under A1 – I9 above. Please note:

**A1. LIQ Fusion 7000 FBE™ has no spalling issues.**

**B2. LIQ Fusion 7000 FBE™ has no edge or bolt hole coverage issues.** FUSION powder coat technology provides complete wrap-around in bolt holes and on panel edges.

**C3. At Tank Connection, our LIQ Fusion 7000 FBE™ is an extended service life coating system, which can be recoated down the road.** This option is not available for glass coated tanks. Once they reach the end of their service life, glass tanks must be replaced. Based on routine maintenance and recoating, the service life of a well designed bolted steel fusion tank can easily be extended to ~60-80+ years. A Tank Connection fusion bond storage tank will have a field service life of 1.5-2 times that of glass tanks offered today.

**D4. Mastic sealant is utilized as it was intended . . . permanently sealing “lap joint” bolted panel assemblies.** The mastic sealant that seals the bolted panels coated with fusion technology never require the edges to be recovered at a later date.

**E5. The impact resistance of LIQ Fusion technology is 40 times greater than that of glass.** LIQ Fusion 7000 FBE™ technology is today's technology.

**F6. In Fusion Bond technology, all tank components including sidewall panels and structural shapes are coated with the LIQ Fusion 7000 FBE™ system.** Flexibility now exists to utilize a steel or concrete bottom. Relative to deck design, flexibility now exists to utilize a fusion coated deck or utilize an aluminum dome.

**G7. Preferred aesthetics with vertically aligned panels.** No coating damage is incurred due to symmetrical panel alignment.

**H8. As noted under lab testing, LIQ Fusion 7000 FBE™ has significant flexibility compared to glass.** LIQ Fusion incurs no cracking of coating at the bolt hole seams during expansion or contraction.

**I9. We design storage tanks, utilizing the correct plate thickness for long life, low maintenance storage.** Tank Connection is the only tank manufacturer worldwide that designs, manufactures and installs all four types of steel storage tanks including Bolted RTP, Field-Weld, Shop-Weld & Hybrid Tank designs.

Today's bolted RTP design, provided by Tank Connection, coated with LIQ Fusion 7000 FBE™ is the #1 bolted tank design and coating available worldwide. Our storage tank designs and coatings correct the deficiencies of glass coated storage tanks offered in the marketplace today.



B2



G7



## 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



Standpipe - jacked from grade level



Clarifier



Power Utility - Process Water



Bolted Steel Floor



**Once you compare the facts on each system, you will find that Tank Connection's LIQ Fusion 7000 FBE™ coating system is a stronger system than glass:**

	<b>LIQ Fusion 7000 FBE™ – Lab Testing*</b>	<b>Glass/Vitreous Enamel – Lab Testing*</b>
<i>Bolted sidewall panel protection</i>	Excellent	Excellent (with exception of panel edges and bolt holes)
<i>Edge protection</i>	Excellent, coated LIQ Fusion FBE™	Poor, as shipped from the factory (covered with mastic sealant in the field)
<i>Bolt holes</i>	Excellent, coated LIQ Fusion FBE™	Poor, as shipped from the factory (covered with mastic sealant in the field)
<i>Coating Thickness</i>	7-11 mils	8-13 mils (must be verified due to high shop defect rate)
<i>pH</i>	3-14 (depending on product and temperature)	3-11 (depending on product and temperature)
<i>Corrosion Resistance (ASTM B-117)</i>	Excellent	Excellent
<i>Temperature Tolerance</i>	200° F water, Dry 300° F	140° F water, Dry N/A
<i>Coating to substrate</i>	LIQ Fusion FBE™ (advanced fusion bond technology)	Glass /vitreous enamel technology
<i>Flexibility</i>	Passes 1/8" mandrel test	None (cannot be field repaired)
<i>Impact</i>	160 in/lbs	4 in/lbs
<i>History</i>	New technology with 5-7 years testing	Old technology with history of spalling
<i>Salt Spray</i>	Passes 7500 hours	Passes 7500 hours
<i>Liquids</i>	Submerged structural components are coated with LIQ Fusion FBE™	Submerged structural components are galvanized
<i>Holiday Free Coating</i>	Yes	No
<i>Cathodic protection</i>	Not required	Required (due to uncoated edges and bolt holes)
<i>Sealant</i>	Mastic	Mastic
<i>Panel Size</i>	~ 5' tall x 10' long	~ 4.5' tall x 9' long
<i>Construction Type</i>	Horizontal RTP (rolled, tapered panel)	Horizontal RTP (rolled, tapered panel)

\*Note: Production panels (not lab panels) were utilized for testing.

## **SAUBER WASSER SDN BHD**

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