



TANK STORAGE SOLUTIONS

Proven Performance in

DESIGN

FABRICATION

ERECTION



BOLTED AND FACTORY WELDED TANKS FOR DRY BULK AND LIQUID STORAGE

COLUMBIAN TecTank

Proven Performance in
Tank Storage Solutions

Unrivaled Experience

- 100+ Years of leadership in engineered tank solutions
- More than 150,000 tanks built in 125 countries around the world
- Custom solutions for storage applications across nearly every industry
- Experienced in-house engineers who advise on national industry standards

Highest Quality

- Process excellence from engineering to in-shop fabrication
- Proprietary high solid-epoxy coating with excellent corrosion, abrasion and chemical resistance
- ISO 9001 certified facilities
- ASME-qualified welders
- Dedicated manufacturing facilities—bolted, welded, and component installation
- Tanks that are engineered to meet or exceed industry standards regardless of application

Best Value

- Longer coating life provides best overall value
- Lower erection costs due to economical shipping and elimination of field welding
- Bolted tanks can be relocated and expanded, improving residual value
- Quick erection with pre-engineered hardware and gasket means less downtime
- Full service from project planning and budgeting to post installation follow-up
- Best, most experienced tank erection crews meet stringent requirements for safety.



FACTORY APPLIED COATINGS

Exceptional Coating Extends Tank Life and Lowers Cost

Columbian TecTank tanks and silos are coated through an advanced, environmentally-controlled process at our ISO certified plants. This ensures the highest quality application, best adhesion and longest coating life. This exclusive coating process is achieved with a state-of-the-art continuous tunnel design, beginning with surface preparation followed by the coating application, and final thermal curing at baking temperatures up to 400 degrees. Our coating systems provide the ultimate in performance and protection.

Bolted Tanks

- Trico Bond EP™ our proprietary epoxy powder coating for interior surfaces, provides excellent corrosion resistance and immersion performance, as well as outstanding flow, impact and abrasion resistant properties.
- System meets FDA and USDA for dry bulk applications and conforms to NSF Standard 61 for potable water.
- Exterior coating system includes Trico Bond EP™ Primer for corrosion resistance with a Performance Urethane topcoat for long lasting color retention.

Factory Welded Tanks:

- Columbian TecTank offers different interior coating options, providing a wide range of possibilities.
- The exterior of the tank is coated with Copoxy Primer and Performance Urethane or System 3, which is a premium system of zinc-rich base/epoxy intermediate/performance urethane finish topcoat that provides the maximum in corrosion resistance and color retention.

To ensure you are getting the very best tank coating system, you should ask these important questions:

- Can your system ensure a reliable coating application the first time?
- If field welded, how will weather impact coating quality?
- How often will maintenance and recoating be required?
- How well does your coating protect against corrosion, abrasion, chemicals or impact?
- Will the field coating application account for environmental compliance requirements?

LIQUID BOLTED AND FACTORY-WELDED TANKS

Highest Quality—*Promised and Delivered*— in Tanks for Liquid Applications

Our commitment to performance is delivered through time-proven design and engineering, our precision manufacturing technologies, and our commitment to excellence in installation. All Columbian TecTank operations are ISO 9001 certified.

Columbian TecTank offers tanks for a variety of applications, including:

- Wastewater Systems
- Potable Water
- Fire Protection
- Petroleum and Drilling Fluids
- Power Plant
- Chemicals
- Bolted Standpipes
- Welded Standpipes

Capacity Specifications

- Diameters available from 9' (2.8 m) to 148' (45 m)
- Factory welded diameters from 6' to 15'
- Large capacity tanks available
- Conforms to NFDA, AWWA, API, NSF standards
- Standard tank capacities range from 4,000 to 3,000,000 US gal (15 m³ to 11,000 m³)

Hardware Specifications

- Hot-dipped galvanized
- Encapsulated nuts and bolts available
- EPDM Gaskets standard
- Specialty gaskets available for high temperatures or special contents

Material Options

- Factory-coated carbon steel
- Galvanized steel
- Stainless steel
- Aluminum

Bottom Options

- Steel
 - Flat
 - 1:12 sloped
 - Drop Bottom™
- Concrete—Embedded starter ring used

Roof Options

- 1:12 Sloped steel
- Aluminum geodesic dome
- Open top with wind girder



DRY BOLTED AND FACTORY-WELDED TANKS

Improve Tank Performance and Life Span with Factory Applied Coating, Consistent Manufacturing Processes and Years of Experience

As with all of Columbian TecTank tanks, the factory applied coating system is designed to enhance the performance of each tank, taking into account the application. Exceptional design and engineering experience consider the factors of capacity, seismic conditions, wind loadings, equipment loads, mass or funnel flow material patterns, operating pressure and vacuum, and center or off-center fill and discharge patterns.

Columbian TecTank offers tanks for a variety of dry bulk applications, including:

- Food Production
- Grain Storage
- Plastics Plants
- Cement Storage
- Wood Products
- Chemical Storage and many more

Capacity Specifications

Standard sizes:

- Dry Bulk Bolted from 9' (2.7 m) diameter to 47' (14 m) diameter with hopper bottoms; up to 200' (60 m) without hoppers
- Factory Welded 6' (1.8 m) diameter to 15' (4.6 m) diameter

Standard heights:

- Dry Bulk Bolted: up to 200' tall for bolted.
- Factory Welded: up to 85' (26 m) in one piece, with taller tanks available
- Configurations are flexible with specially engineered combinations of heights and diameters available

Hardware Specifications

- Hot-dipped galvanized steel per ASTM #A-153
- Hot-dipped galvanized with encapsulated bolt heads

Material Options

- Factory-coated carbon steel
- Stainless steel
- Aluminum

COLUMBIAN
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Bottom Options

- Flat
- Skirted Hopper
- Hopper with lugs
- Hopper with legs—welded construction
- Support styles include full skirt, short skirt, leg and lug for welded and full skirt, rail and truck drive-thru, and short skirt for placement on structural steel supports for bolted

Other Standards

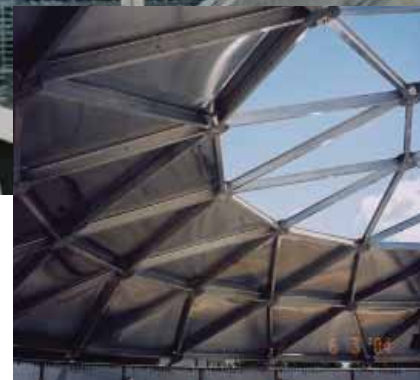
- Factory applied coating for reliable product protection includes proprietary systems for abrasion and corrosion protection and enhanced flow
- Welding procedures qualified to ASME Section IX





Experience – Quality – Value

OTHER OPTIONS



Directed Flow Channel™ (DFC) Blending Silos

We manufacture bolted and welded DFC gravity blenders in aluminum, stainless or factory coated carbon steel for the plastics market incorporating both continuous flow and top hole flow principles. Our flow channels and last-in, first-out (LIFO) tubes deliver fast, high performance blending with a high single-pass blend index.

Component Installed Tanks™ (CIT)

To save time and money in the field, we install components in our welded tanks as specified by our customers. Components can include:

- Slurry tanks
- Bin activators
- Pumps
- Metering equipment
- Related electrical and plumbing
- Heaters
- Others

Flow Testing

Flow test results allow us to determine the correct hopper slope and outlet size for functional, reliable mass flow.

Domes

Columbian TecTank Geodesic Domes provide dependable, long-lasting protection for water storage. Drawings and specifications are completed quickly and many standard size dome parts are in stock. Domes are crafted with the same high quality standards as our tanks.

- Durable lightweight aluminum
- Aluminum flashing protects contents
- Available for new tanks or retrofitted for existing steel and concrete tanks

FULL-SERVICE CAPABILITIES

Receive Better Value Across a Wide Range of Services

Project Management

No other tank storage company has designed more or a broader array of tanks to meet diverse storage needs. Excellence is built in from the beginning with careful attention to detail. An experienced project manager who is assigned to be your personal contact through project completion ensures effective communication and a higher performance product.

Services include:

- Planning assistance/scheduling
- Value analysis
- Preliminary tank layout and configuration
- In house engineering and design team
- Product flow testing, if required
- Product specification and design criteria assistance
- Firm or budget pricing
- Drawing review

Construction and Field Service

Columbian TecTank's internal construction staff is dedicated to your satisfaction during and post erection.

- Contract review, pre-job site review and acceptance procedures
- Certified erection contractors
- Non-union, prevailing wage or union crews
- Erection supervisors to guide local labor on international jobs
- Testing and commissioning
- Post-job service to ensure continued satisfaction
- Insulated tanks and other process component installation

Design and Drafting

Both flat panel joint design and API 12B approved chime lap design are offered. We will work with you on what is best to meet your needs.

- AutoCAD® technology enhanced with proprietary visual basic technology to improve speed and accuracy of drawings
- Designs that comply with internationally recognized engineering standards
- Designs executed to account for wind, seismic and snow loads
- Engineering by experienced professional engineers
- Full structural calculations, foundation loads and in-house P.E. seals for the United States and Canada
- Foundation designs available
- Fabricated structural steel available

Manufacturing

Our successful history coupled with leading technology and processes provides added value over an extended product life.

- State-of-the-art fabrication equipment and LEAN manufacturing processes
- ISO 9001 Quality System Certified facilities with more than 250,000 square feet of manufacturing space
- Long-term, experienced work force
- Industry leading NSF- and FDA-approved coatings
- AWS D1.1, D1.2, D1.6 and ASME Section IX certified procedures and welders
- Safe, prompt and economical tank shipping over the road or by ocean transport
- Superior coating and technologies





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