

# Process Tanks and Field Erection



**WESTECH®**

 **SWIRE WATER**

# Process Tanks and Field Erection Services



In today's challenging business environment it is imperative to work with a company that understands your needs. Whether it be supply, new installations, retrofits, or complete field erection and painting, WesTech will partner with you to ensure your complete satisfaction.

## Why Choose WesTech?

For more than 30 years, WesTech has supplied hundreds of process tanks to clients worldwide in mining, municipal, power, refinery, coal, aggregate, and food industries. Our services include engineering, design, fabrication, retrofit, accessory components, and field erection solutions. WesTech is registered on ISN, PICS, and Kahuna, and is able to register all WesTech contractor qualification documents on client-specific platforms for your project. WesTech also maintains ISO 9001 certification to ensure you have consistent results.

## Designed to Meet Your Needs

WesTech designs to accepted standards such as API, AWWA, UBC, IBC, ASCE-7, AISC, and many other international standards. All calculations are checked by a currently registered Professional Engineer (PE). Engineered drawings will carry a PE stamp if required.

## Partnerships that Go Beyond Equipment

WesTech's comprehensive team approach brings a quality reputation and years of knowledge and experience to the project. A partnership with WesTech guarantees you an accurate installation of equipment and a construction team solely dedicated to the management and success of every last detail.

Using customer specifications, process requirements, and state-of-the-art design methods for sizing and calculations, WesTech provides complete fabrication accuracy, engineering support, and service.

WesTech's installation team provides the extensive knowledge and experience necessary to maintain critical time deadlines and keep your project on schedule.

WesTech has successful installations around the globe, having supplied engineering, fabrication, and construction of complete process systems in refineries, mines, power plants, and industrial facilities. Consider WesTech's team for your field erection needs.





*Field erection of process tanks, with the installation of clarifier/thickener internals by WesTech, ensures that the unit will fit together and function as intended. WesTech has the experience, engineering, and fabrication resources to make sure your project comes in within budget and on time.*



## Anchor-Channel Tanks

Anchor channel tanks are economical, steel-shell, concrete-bottom vessels. The tank bottom is also the foundation.

**Benefit:** Economical.

**When Used:** Low-risk water processes.



## Closed-Bottom Tanks on Grade

Closed-bottom steel tanks feature steel shells and floors. The tank foundation is either a full-diameter concrete pad or a ring wall with compacted fill.

**Benefit:** Steel floor protects the environment from possible groundwater contamination.

**When Used:** When slurry could penetrate concrete.



## Elevated Tanks

Elevated tanks provide open access under the entire tank for ease of maintenance. A steel shell, steel bottom, and support legs are included. The foundation is either a full-diameter concrete pad or pilings.

**Benefit:** Pumps can be located under tank. The underside of the tank can be fully inspected and maintained.

**When Used:** Processes with high environmental risks, when open access under the tank is required, or when the application requires additional hydraulic flow by gravity.



## Bolted Tanks

Bolted tanks are available for all tank types listed above. However, slurry and process conditions may limit using a bolted design.

**Benefit:** Field erection is much faster because all welding and painting is performed in the shop.

**When Used:** When the project has a long enough lead time for extra shop work, the customer wants to save on field labor, or if the tank could potentially be relocated in the future.



## FRP Covers

Fibreglass-reinforced plastic (FRP) covers are an alternative to using exotic metals or painted steel. FRP tanks are also available for select process requirements and sizes.

**Benefit:** FRP can be a lower-cost alternative to exotic metals.

**When Used:** FRP roofs are used in non-pressurized applications to shield from dust or to contain odors. FRP tanks are used in small-diameter applications as an alternate to high-alloy metals.



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