

# ZipaTank™

## CONTAINING YOUR SOLUTIONS

Cost effective, rapidly installed modular tanks



**ZipaTank™**



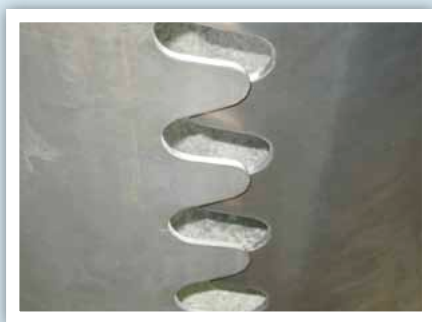
# ZipaTank™

## CONTAINING YOUR SOLUTIONS

Xstrata Technology has developed an innovative new approach to above ground slurry storage and leaching tanks that incorporates a modular design with a novel joint locking mechanism to provide all the benefits of a traditional welded tank, with lower costs, reduced installation times and far greater flexibility.

The ZipaTank™ consists of individual vertical tank panels that are sized for transport in conventional shipping containers. These panels are connected to the tank base and to each other using an interlocking joint mechanism that can be rapidly installed to form the tank shell. All ZipaTank™ components are designed to a minimum standard exceeding either API 650 or BS 2654 (1989) standards for above ground steel storage tanks.

Xstrata Technology can provide a customized ZipaTank™ package, including the modular tank and baffles, modular panel lid, agitator and support structure, pumps and associated piping, instrumentation and slurry transfer systems.



ZipaTank™ is based on the Joinlox™ proprietary locking system

### ZipaTank™ applications

#### Single tank slurry storage applications:

- » Concentrate storage and conditioning tanks
- » Thickener underflow storage tanks
- » Limestone and lime slurry storage
- » Filter cake re pulp
- » Tailings processing
- » Flotation tanks and equipment
- » Thickening and clarification tanks and equipment

#### Multiple tank leaching applications:

- » Acid leaching of copper oxide ores and tailings
- » Acid leaching of uranium ores
- » Acid leaching of zinc calcines
- » Sulphide oxidation plants (Albion, BIOX)
- » CIP/CIL processing of gold ores

#### Tank Lids

Modular lids can be supplied for the ZipaTank™. Lids would be provided in sections for easy assembly and can be manufactured out of a range of materials, from lightweight alloy steel through to FRP.

#### Compression Joint

The patented external panel joining system incorporates a special locking key that compresses a water tight seal and locks the tank panels in place.

#### Baffles

The ZipaTank™ can contain three or four baffles as required, depending on agitation requirements.

#### Inter Tank Slurry Transfer

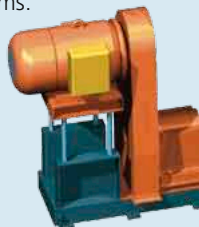
Where the ZipaTank™ is to form part of an interconnected series of tanks, such as in a leaching application, then modular launders and internal slurry risers allow transfer between each tank.

#### Agitators and Support Structures

The ZipaTank™ tank can be provided as a complete package inclusive of the agitator, impellers and agitator support beams.

#### Tank Foundation

The ZipaTank™ would be located on a conventional circular concrete ring beam or raft foundation



1. Deliver ZipaTank™ to site in a standard shipping container.



2. Layout and Join (zip) base plates together on concrete pad.



# ZipaTank™

## ZipaTank™ advantages

- » Low capital cost, with fully installed costs reduced by approximately 35% relative to a conventional field welded tank.
- » Reduced installation times, with full assembly within two weeks, compared to several months for a welded tank.
- » Easy maintenance
- » Re-locatable
- » Easy installation for tight and remote sites
- » Reduced requirement for skilled labour on site
- » The ability to use lower cost lined components to replace alloy steel without the quality compromise often associated with field applied lined systems at remote sites.



ZipaTank™ is manufactured to API 650 or BS 2654 standards

3. Lift and locate panels onto the base plate and join (zip) panels together. Bolt panels to the base plate.



4. Install ancillaries such as baffles, agitator assembly, access ladder, HyperSparge™ or pump.





**ZipaTank™**

Xstrata operates mines throughout the world.  
Tough testing grounds that make our process technologies the best on earth.

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