



Pioneering liquid storage solutions across Africa and beyond...

SBS Water Systems' ability to respond with a world class liquid storage solution in the demanding mining sector has once again been showcased in a noteworthy international installation on the West Coast of Africa for a major mining house service provider.

The company is the proudly South African manufacturer of SBS Tanks, a world class liquid storage solution utilised in many industry sectors including the mining, municipal, fixed fire protection, water conservation and food and beverage industries.

Despite the global downturn in the mining industry the company has continued to service this sector successfully by way of new and repeat business to clients that have supported SBS over its 18 years in industry.

SBS pioneered the concept of Zinalume storage tanks in the South African marketplace in 1998. This class of liquid storage solution has become the accepted norm in numerous industries due to its countless maintenance benefits and rapid safe on-site erection. SBS Tanks are manufactured using authentic Bluescope Zinalume steel. This new generation coating technology is applied to the steel via a continuous hot dip process.

The molten alloy of 55% aluminium, 43.5% zinc and 1.5% silicon renders the steel with a superior resistance to corrosion in the harshest of conditions – a key consideration in the mining industry.

Under normal operating conditions SBS Tanks has a life expectancy of 60+ years. Longevity and a maintenance free life cycle extends to the rest of the product components. All fittings are hot dip galvanised post-fabrication to SANS 121:2011 ISO 1461:2009 standard. The internal liner offering ranges from 720 g – 1000 g UV resistant multi-layer woven PVC reinforced material, depending on the nature of the application. Both materials are however AS/NZS 4020:2005 approved for

materials in contact with potable water. The SBS Tanks range of products are available in capacities of 12 kℓ to 3 301 kℓ.

This superior, world-class product is supported by an equally able and highly skilled workforce. SBS prides itself in the fact that its sales team are industry specific experts in their disciplines. Says Brian Wilson, sales and marketing manager: "We accept the fact that we service diverse industries all with their own unique legislation and demands. It is also a fact that every project is customised in terms of the application and design criteria. Our industry sales experts are equipped to deal with each unique project offering only the best solutions for a superior client experience."



SBS Tanks are renowned for its countless maintenance benefits and rapid safe on-site erection



The completed ST30-03 (capacity of 1044 kℓ) during commissioning

The company also boasts a dynamic engineering department that is at hand to offer only the best solutions at any stage of a project. This department recently showcased its abilities in a challenging installation of a 1 000 m³ open topped tank required for mining process water storage in Gangama, Sierra Leone.

The site presented several design challenges, the most extreme of which being the lack of lifting equipment. This required that every component of the vessel and fittings be manageable by utilising only manual labour. The department rose to the challenge by custom designing larger 600 mm outlets with non-standard anti-vortex fittings from HDPE material in an effort to reduce the weight factor.

Due to the lifting constraints, the large fittings had to be installed at a height of below 1 m – much less than the industry



Custom designed 600 mm outlets

standard. In order for the outlets to work effectively at the reduced installation height, plenum chambers were added. These impressively large fittings were safely shipped to their destination in custom-engineered racking.

The modular nature of SBS Tanks makes the product extremely suited for shipping and installation to remote sites, which was again illustrated in this installation. The entire product, along with its installation equipment and propriety lifting equipment

was shipped to the West African country in a 20 ft (6 m) shipping container.

Due to the complex nature of the project, nothing was left to chance and the engineering department simulated the build in-house with the installation team prior to the goods being shipped. The open topped reservoir was fitted with a highly UV resistant 1 000 g liner to ensure a long and maintenance free service life. Despite delays related to weather conditions, the SBS ST 30-03 tank with a storage capacity of 1 044 kℓ tank was installed and commissioned within eight working days.

Service excellence lies at the core of SBS and how it conducts business.

SBS continually strives for excellence in every aspect of a project, from design phase, manufacturing through to completion.

The company's 5 000 m² factory facilities boasts ISO 9001:2008 accreditation ensuring that its products are manufactured, conform and processes managed by a stringent quality control system.

This world class operation standard has stood the company in good stead in its dealings within the mining industry where safety, health and environmental requirements are of paramount importance.

In a continuous effort to add value for its loyal and new customer base, the company undertakes regular educational roadshows which feature demonstration builds and technical presentations. The philosophy behind their client education drive extends beyond mere client retention. SBS believes that an informed client is better equipped to specify the correct product for the correct conditions and application.

With an ever expanding client base and global demand, the company has extended their global footprint to beyond the African continent. It has an established network of approved distributors worldwide and has successfully exported and installed products in North America, South America, The Middle East and Australasia. [MRA](#)

Visit us at Electra Mining Africa

Contact SBS Water Systems and allow us to exceed your expectations with our world class liquid storage solutions and superior service. The company will be also showcasing its product range and service offering at the prestigious Electra Mining Africa 2016 trade show, which takes place at NASREC from 12-16 September 2016 (Stand M1-7).



Non-standard anti-vortex units with plenum chambers