

# SBS Tanks®



**ASIB**



**SABS**  
ISO 45001  
**SABS**  
ISO 9001

USA

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South Africa & SADC

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East Africa

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## COMPANY OVERVIEW

The SBS® Group is a leading provider of innovative water storage tanks and solar energy solutions. The company was established in South Africa over 25 years ago, in September 1998, and now has offices across South Africa, in East Africa and the USA and an extensive dealer and distributor network in other regions across the globe.

Water storage reservoirs from SBS Tanks have been engineered, designed, and developed to harness and secure resources anywhere in the world and are compliant with the highest internationally recognised quality and safety standards. In addition to ISO 9001:2015 and ISO 45001:2018, SBS is also accredited with various industry bodies relevant to the regions and sectors we serve including MS SIRIM, ISF, NFPA 22 and ASIB.

With a staff complement of over 150 people, SBS is focused on delivering effective, custom designed water tank solutions to a wide range of sectors, employing professionals who have an in-depth understanding of the compliance requirements, international logistics and challenges faced.

## WHY CHOOSE SBS®?

- Technologically advanced design:**  
 Manufactured under ISO 9001:2015 standards, SBS® Tanks meet NFPA, AWWA, and other stringent industry regulations for fire protection, construction, water infrastructure, and industrial storage, ensuring durability, safety, and long-term reliability.
- World-class production with international compliance:**  
 Manufactured under ISO 9001:2015 standards, SBS® Tanks meet NFPA, AWWA, and other stringent industry regulations for fire protection, construction, water infrastructure, and industrial storage, ensuring durability, safety, and long-term reliability.
- Expert engineering and project management:**  
 Our in-house engineering team collaborates with leading industry experts to design customised, high-performance storage reservoirs. With over two decades of experience, SBS® Tanks' dedicated project managers and specialised installation teams ensure on-time delivery and flawless execution.
- Professional accreditation and affiliations:**  
 SBS® Tanks meet onerous Health & Safety standards in Oil & Gas, Mining, Fire, Agricultural and other Industrial sectors, demonstrating our capacity and ability to deliver certified, sector-specific solutions for demanding applications.
- Long-term partnerships:**  
 With 4,500+ global installations, SBS® Tanks is a trusted partner, fostering long-term relationships with clients, engineers, and municipalities to deliver quality, innovation, and performance.
- Dedicated to employee development and transformation:**  
 We aim to Work Smart, Commit Wholeheartedly and Build for Better in everything we do.

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## SBS® TANKS OVERVIEW

Water is needed for every process in business. Access to clean water and sanitation for all has become a global priority. However, water scarcity is a global concern. Climate change, population growth, the rising costs of water and rapid urban expansion have resulted in increased demand for alternative water supply solutions. Sustainable and responsible water consumption, rainwater harvesting, and the recycling of water need to become global business and community priorities.

SBS® Tanks offers a comprehensive range of water security solutions proven to be effective and reliable for use in the **Mining, Fire Protection, Municipal, Water Conservation and Commercial sectors**. The SBS Tanks water storage range includes the Standard, Cyclonic, Elevated Tank, Engineered Solution, and Lite ranges suitable for the storage of potable water, effluent, leachate, saltwater, and several other industrial liquids.







With over 25 years' experience, SBS® has become the preferred provider for sustainable water and liquid storage solutions across several sectors. We embrace innovation and as a result, we remain at the forefront of the water storage space, introducing and developing technologically advanced systems such as our Galvalume steel panel water reservoirs and tanks, liquid storage liners, time- and cost-effective on-site build and cyclone, earthquake and extreme weather resistant structures.

## PRODUCT FEATURES

The SBS® Tanks range offers capacities ranging from 12 000 litres to an impressive 4.2 million litres. The modular nature of the tank allows for quick installation, no matter how remote the site, with no heavy equipment and minimal site preparation required. In addition to an expected lifespan of 60+ years, SBS® provides an industry standard 12-month workmanship and materials guarantee. Liquids are stored in a multi-layer woven liner (PVC or NSF/ANSI 61 accredited), preventing contact with the tank structure, and further reducing corrosion risk factors. A conditional 20-year No-Leak guarantee is applicable provided that the tank is installed by an approved SBS® installation team.

SBS® Tanks have been developed in collaboration with skilled engineering professionals, adept at dealing with extreme weather and site access conditions. The Standard range has a wind rating of 43m/sec (154kph or 96mph) while the Cyclonic range is designed to withstand wind speeds of up to 67m/sec (240kph or 150mph), rated for regions with a high incidence of meteorological hazards. Any SBS water tank can be designed to suit earthquake zones and cyclonic regions experiencing tropical storms, hurricanes, typhoons and other high-velocity wind events. Roof sheets, trusses and body panels undergo stress-tests and seismic evaluation, and are adapted to meet the specific climatic conditions on site to ensure a durable and robust reservoir body and storage solution

## PRODUCT APPLICATIONS

 Fire Protection	- Fire sprinkler and hydrant water storage.
 Commercial	- Emergency back-up water supply, wastewater collection, storage and processing and liquid and chemical storage.
 Mining	- Water and liquid/chemical storage.
 Municipal	- Bulk raw, seawater and potable water storage and effluent and wastewater treatment storage plants.
 Water Conservation	- Rainwater harvesting and storage.
 Agricultural	- Irrigation, aquaculture, process water and potable water storage

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# HOW TO CHOOSE THE RIGHT TANK

## SBS Galvalume Steel Bolted Tanks vs. Concrete Reservoirs



### SBS GALVALUME TANK BENEFITS

**Rapid Installation: *Speed is King.*** Our modular design allows for quick on-site assembly, reducing project timelines and enabling immediate commissioning.

**Flexibility & Customisation: *Tailor-made Solutions.*** With various sizes and the ability to relocate and expand capacities for future growth, our tanks fit your specific needs when you need it.

**Durability & Longevity: *Built to Last.*** Enjoy up to 60+ years of service with minimal degradation, thanks to our durable construction.

**Lightweight & Eco-Friendly: *Portable & Eco,*** our tanks are designed for a better tomorrow.

**Low Maintenance & Superior Sanitation: *Save on upkeep*** while ensuring the purity of your water, thanks to our non-porous, contamination-resistant design.

**Remote site access: *Easy to transport*** to remote sites with no need for access roads.

**Cost-Effective: *Quicker ROI recovery.*** More cost-effective in terms of construction and maintenance.

### CONCRETE RESERVOIRS

**Slow to Install:** Time-consuming construction, with extended periods needed for pouring and curing.

**Limited Flexibility:** What you see is what you get. Fixed sizes and structures offer no room for adjustments.

**Prone to Damage:** Over time, the structure is compromised due to cracking and erosion

**Heavy & High Maintenance:** Difficult to transport and elevate and demanding in upkeep, leading to increased long-term costs.

**Contamination Risks:** The porous nature raises concerns for water quality, requiring vigilant monitoring.

**Limited site access:** Access road needed for mixers and trucks adding difficulty and extra logistics to installation.

**Expensive:** Longer ROI recovering. Higher initial construction costs and increased maintenance expenses.



# THE SHAPE OF EFFICIENCY

## Circular vs. Rectangular/Square Tanks

When it comes to storing liquids, the shape of the tank significantly impacts its efficiency and cost-effectiveness. Lucky, circular tanks stand out for their superior performance compared to square or rectangular tanks when comparing on factors such as strength, maintenance and cost-effectiveness.



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# SBS LIQUID STORAGE TANK DATA SHEET



	Standard Range (ST)	Cyclonic Range (CY)	Lite Range (LT)
<b>WALL STRUCTURE</b> Galvalume steel panels with thickness conforming to SANS 9364 and profiled to SBS Tanks unique design	0,8 - 4,8mm (22-6 gauge)	1,2 - 8,0mm (18-3 gauge)	0,9mm (20 gauge)
<b>STEEL GRADE</b> G300 Galvalume	X	X	X
<b>PROTECTIVE COATING</b> Galvalume (Zinc/Aluminum Alloy), AZ150 heavy duty coating. Additional coatings available to meet varying environmental conditions and applications	X	X	X
<b>COLOUR RANGE</b> Mill finish – silver, standard. All SBS Tanks can be supplied epoxy powder coated or painted with approved primers and paints.	X	X	X
<b>ESTIMATED LIFE</b> 60+ Years under normal climate and operational conditions	X	X	X
<b>LINER</b> Multi-layer woven PVC liner. Tested to NSF/ANSI 61 (Potable water) specifications and AS/NZS 4020-2005 (Drinking water) standards. Ethylene-based chemical resistant liners available on request, for storage of various liquids.	PVC 720g, PVC 1000g, NSF61, XR5	PVC 720g, PVC 1000g, NSF61, XR5	PVC 720g
<b>BOLT SPECIFICATIONS</b> Proprietary SBS® bolt design M10 (7/16”) & M12 (1/2”) with serrated flange head. Hot dipped galvanized to SANS 121:201150 & ISO 1461:2022 standards. All bolts are high tensile 8.8 grade. Bolt test certifications available on request.	X	X	X
<b>DOME ROOF</b> Galvalume steel corrugated sheets. G550 high tensile grade with AZ150 coating. All trusses are hot dipped galvanized after fabrication. Clear span self-supporting roof with no center post.	0,47mm (26 gauge)	0,47mm (26 gauge)	0,47mm (26 gauge)
<b>OUTLETS/INLETS</b> All fittings/nozzles are manufactured from mild steel and hot dipped galvanized to SANS 121:201150 & ISO 1461:2022 standards after fabrication. Stainless steel and HDPE fittings are available on request.	X	X	X
<b>GUARANTEE</b> SBS Tanks® carry an industry standard 12-month workmanship and materials guarantee and a 10-year non-leak warranty is applicable, provided that the tank is installed by an approved SBS® installer.	Conditional 10 year no-leak. 12 month workmanship guarantee.	Conditional 10 year no-leak. 12 month workmanship guarantee.	N/A due to DIY nature
<b>WEATHER, WIND &amp; SEISMIC SPECIFICATION</b> SBS Tanks are designed and suited for regions with varying incidence of meteorological hazards. With standard wind ratings across our ranges, our SBS Tanks® can be individually designed to suit earthquake zones, cyclonic regions, heavy industrial or highly specialised environments.	Wind rating 154km/h (96mph) Seismic Capabilities	Wind rating 240km/h (150mph) Seismic Capabilities	Average regional wind speed
<b>MANUFACTURING TIME</b> Standard range, ex-stock, immediately available. Nonstock items typically 4-8 weeks ex-factory, quantity, and model dependent.	X	X	X
<b>DELIVERY TIME</b> Typically, 6-8 weeks, ex-factory. Sea freight times vary based on port & carrier capacity	X	X	X
<b>INSTALLATION TIME</b> Typically – 1-day ST05/02, 20kl (on site work) 3 days ST18/02, 253kl (on site work) 20-22 days ST35/09, 4212kl (on site work)	X	X	Quicker
<b>SITE PREPARATION</b> Level site capable of supporting 100 kPa with sand bed or concrete ring beam as required. Site preparations to be arranged by client in accordance with engineers' recommendations prior to installation of SBS Tanks.	Concrete Ring Beam	Concrete Ring Beam	Compacted Sand Bed/Concrete Ring Beam

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# LINER SPEC DATA SHEET

## SBS POTABLE LINER Data Sheet AS/NZS4020 approved

<b>DESCRIPTION</b>	Potable water liner/bladder consisting of high-density polyester yarn coated on both sides with PVC.
<b>MANUFACTURING</b>	The potable liner fabric is manufactured for SBS Tanks in an ISO 9001:2015 certified facility.
<b>APPROVALS</b>	Approved by the Australian water quality centre standard AS/NZS 4020-2005: Testing of products for use in contact with Drinking Water
<b>END USE</b>	As an internal liner/bladder for sole use with SBS Tanks

TEST	METHOD	UNIT	WARP	WEFT
Tensile strength	SANS 1421: 1998	N/50mm	2500	2200
Tear strength	ISO 4674-1 : 2016 Method B	N	300	250
Weld Adhesion	ISO 2411: 2017	N/25mm	40	
Flame Retardancy	SANS 1287-1: 2007	s	NA	
Electrical Resistance	SANS 5880: 2008	MΩ	NA	
Fusion	5min in Acetone		No flaking	

## SBS POTABLE LINER Data Sheet - NSF/ANSI 61

<b>DESCRIPTION</b>	Potable water liner/bladder consisting of high-density polyester yarn coated on both sides with PVC.
<b>MANUFACTURING</b>	The potable liner fabric is manufactured for SBS Tanks in an ISO 9001:2015 certified facility.
<b>APPROVALS</b>	Approved by NSF/ANSI 61 (Potable water)
<b>END USE</b>	As an internal liner/bladder for sole use with SBS Tanks

PROPERTIES		
TEST & METHOD	ENGLISH	METRIC
Base Fabric	Polyester 1,000 Den 5.9 [Oz/yd <sup>2</sup> ]	Polyester 1,100 Dtx 200 [gr/m]
Total Weight ASTM D 751	21.8 [Oz/yd <sup>2</sup> ]	740 [gr/m <sup>2</sup> ]
Breaking Strength - Strip ASTM D 751 method B	315 / 315 [lbs/inch]	2800 / 2800 [N/5 cm]
Breaking Strength - Grab ASTM D 751 method A	440 / 400 [lbs]	2000 / 2000 [N]
Tear Strength - Single Rip ASTM D 751 method B, DIN 53356	70 / 45 [lbs]	300 / 300 [N]
Tear Strength - Double Rip ISO 4674	130 / 120 [lbs]	600 / 550 [N]
Tear Strength - Trapez DIN 53363	55 / 55 [lbs]	250 / 250 [N]
Adhesion (HF Welding) ASTM D 751	13.5 / 13.5 [lbs/inch]	120 / 120 [N/5 cm]
Blocking Resistance Fed. St. 191-5872, 6 hrs @ 70°C	#1	
Seam Strength, ASTM D 751 Procedure B, 2" overlap seam (1" width seam)	Break outside seam	
Heat Resistance	Up to 158°F	Up to 70°C
Cold Bend ASTM D2136		
Abrasion (Tabler) ASTM D 3389 Weight loss (H-22, 1,000 gr)	<250 [mg/1000 cycles]	
Weathering - 7,500 hours ASTM G 154 UVA 8 hrs, 60°C, 4 hrs. cond. 50°C	Very slight color change	

# SBS POWDER COATING DATA SHEET

The Ferro Vedoc, is a series of polyester based powder coatings designed for the exterior environment, offering excellent light and weather resistance. This superior UV resistant coating is ideally suited where colour retention on surfaces exposed to continuous heat is required.

PROPERTIES	TEST & METHOD	GLOSS	SATIN	MATT
Qualicoat		P-1251	-	P-1398
Gloss 60	SANS 2813	80 - 95	40 - 75	15 - 30
Thickness	SANS 2808	60 - 80 µm	60 - 80 µm	60 - 80 µm
Adhesion	SANS 2409	Coefficient rating of 0		
Indentation resistance	ISO 2815	Minimum 80		
Erishsen cupping	ISO 1520	No cracking or detachment at 5mm indentation		
Flexibility	SANS 177	No cracking or detachment at 5mm indentation		
Reverse Impact	ASTM D 2794	2.5Nm	2.5Nm	2.5Nm
Permeability of coating		No blistering or detachment of the coating		
Resistance to atmospheres containing Sulphur dioxide	ISO 3231	No blistering and corrosion creep < 1mm		
Resistance to acetic acid salt fog	SANS 9227	No blistering and delamination and corrosion creep < 4mm		
Resistance to accelerated corrosion		Maximum creep < 0.5mm on either side		
Resistance to artificial weathering	ISO 11341	Residual gloss > 50% of the original		
Resistance to drilling and cutting		No cracking or chipping of the coating		

## STANDARD POWDER COATING COLOUR OPTIONS

Our SBS tanks can come in a variety of colours to match existing infrastructure and the surrounding environment.

**Please Note:**  
Colour represented may vary slightly to those depicted in the swatches below  
Nonstandard colours: Lead times may vary due to colour development and availability of raw materials.

Sea Spray	Chalk
Thunderstorm	Rain Forest
Savannah	Desert Sand
Island Sky	Deep Ocean
Rain Cloud	Slate
Sunset	Rustic Bark

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# GROSS CAPACITY CHART (KL)



MODEL	DIAMETER (m)	NUMBER OF RINGS AND WALL HEIGHTS (m)									
		2	3	4	5	6	7	8	9	10	11
		2.14	3.17	4.20	5.24	6.28	7.31	8.34	9.39	10.41	11.45
ST04	2.73	12									
ST05	3.41	20	29	38	48	57					
ST06	4.09	28	42	55	68	82	96				
ST07	4.78	38	57	75	94	112	131				
ST08	5.46	50	74	98	123	147	171	196			
ST09	6.14	63	94	125	155	186	217	247			
ST10	6.82	78	116	154	192	230	267	305	343	380	418
ST11	7.51	94	140	186	232	278	324	369	416	461	507
ST12	8.19	112	167	221	276	331	385	440	495	549	603
ST13	8.87	132	196	260	324	388	452	516	580	644	708
ST14	9.55	153	227	301	376	450	524	598	673	746	820
ST15	10.24	176	261	346	431	516	602	687	773	858	943
ST16	10.92	200	297	394	491	588	685	781	879	974	1,070
ST17	11.60	226	335	445	554	663	773	882	993		
ST18	12.28	253	376	498	621	744	866	989	1,113		
ST19	12.97	282	419	555	692	829	965	1,102	1,240		
ST20	13.65	312	464	615	767	918	1,070	1,221	1,374		
ST21	14.33	344	511	678	845	1,012	1,179	1,346	1,515		
ST22	15.01	378	561	744	928	1,111	1,294	1,477	1,662		
ST23	15.70	413	613	814	1,014	1,214	1,415	1,615	1,817		
ST24	16.38	450	668	886	1,104	1,322	1,540	1,758	1,978		
ST25	17.06	488	725	961	1,198	1,435	1,671	1,908	2,147		
ST26	17.74	528	784	1,040	1,296	1,552	1,808	2,064	2,322		
ST27	18.43	569	845	1,121	1,397	1,673	1,949	2,225	2,504		
ST28	19.11	612	909	1,206	1,503	1,800	2,096	2,393	2,693		
ST29	19.79	657	975	1,294	1,612	1,930	2,249	2,567	2,889		
ST30	20.47	703	1,044	1,384	1,725	2,066	2,407	2,747	3,091		
ST31	21.16	751	1,114	1,478	1,842	2,206	2,570	2,934	3,301		
ST32	21.84	802	1,189	1,575	1,965	2,355	2,741	3,131	3,521		
ST33	22.53	853	1,264	1,675	2,089	2,504	2,915	3,329	3,744		
ST34	23.21	906	1,342	1,778	2,218	2,658	3,094	3,534	3,974		
ST35	23.89	960	1,422	1,884	2,350	2,817	3,279	3,745	4,212		

ST & CY Range
ST Range Only
ES Range Only\*
ET Range\*\*

**\*Engineered Solution (ES)**  
 These tanks will require additional site information, and geotechnical studies and will be subject to final pricing and design confirmation.

**\*\*Elevated Tanks (ET)**  
 These tanks can be placed on an Elevated stand at either 6m,10m or 15m.





# SBS TANKS LITE RANGE (LT RANGE)

The SBS Lite Range offers a high quality, value for money water storage tank with larger capacities and longer life span than plastic tanks along with a simple DIY installation.

These attractive and functional products are best suited for installation in agricultural & rainwater harvesting installations at small holdings, rural homes, nurseries, farms, and small businesses. SBS LT range is available ex-works (factory) DIY for tradesmen or assisted installation.

TANK CAPACITY (kl)				
MODEL	DIAMETER (m)	RINGS AND WALL HEIGHTS (m)		Nozzle sizes
		2 2.03	3 2.95	
LT03	2.05	7	10	50NB or 80NB
LT04	2.73	12	17	
LT05	3.41	19	27	
LT06	4.1	27	39	
LT07	4.78	36	53	
LT08	5.46	47	69	
LT09	6.14	60	87	50NB, 80NB or 100NB
LT10	6.83	74	108	
LT11	7.51	90	130	
LT12	8.19	107	155	
LT13	8.88	125	182	50NB, 80NB, 100NB or 150NB
LT14	9.56	145	211	
LT15	10.24	167	243	
LT16	10.92	190	276	
LT17	11.61	214	312	
LT18	12.29	240	349	

TANK MASS (kgs)		
MODEL	RINGS AND WALL	
	2	3
LT03	189	254
LT04	259	346
LT05	334	442
LT06	423	552
LT07	507	658
LT08	622	795
LT09	720	914
LT10	837	1,053
LT11	999	1,237
LT12	1,168	1,428
LT13	1,271	1,553
LT14	1,390	1,693
LT15	1,519	1,904
LT16	1,685	2,095
LT17	1,821	2,257
LT18	1,970	2,431

## Accessory Kit

1 x Inlet, 1 x Outlet, 1 x Over flow, Tank access hatch with hook-on ladder and a Water Level Indicator.

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05.05.2025

SBS Corporate Services (Pty) Ltd

P O Box 20795

DURBAN NORTH 4016

Att. : Mr Brendon Wortman, Engineering Manager, SBS Tanks

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**RE: STRUCTURAL CERTIFICATION LETTER:**

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We confirm that SBS Corporate Services (Pty) Ltd have supplied to us all the relevant documentation for the following tank range and variants thereof: -

1. STANDARD TANK RANGE 'ST' ST04 TO ST35
2. CYCLONIC RANGE CY04-CY31
3. ELEVATED TANK RANGE, 3 RINGS HIGH - ET05/07/10/12/14 in 3 height variants 6, 10 & 15m
4. ENGINEERED SOLUTION TANK RANGE "ES"

- VPE Engineering Services have reviewed the manufacturing documentation, previous operational records, and have completed an independent structural design assessments as required to Sound Engineering Practice and, as applicable, South African National Standards: -
  - SANS 10160 – Basis of Structural Design & Actions for Buildings and Industrial Structures
  - SANS 10162 – Structural Steelwork
  - SANS 121 – Hot Dip Galvanized Coatings

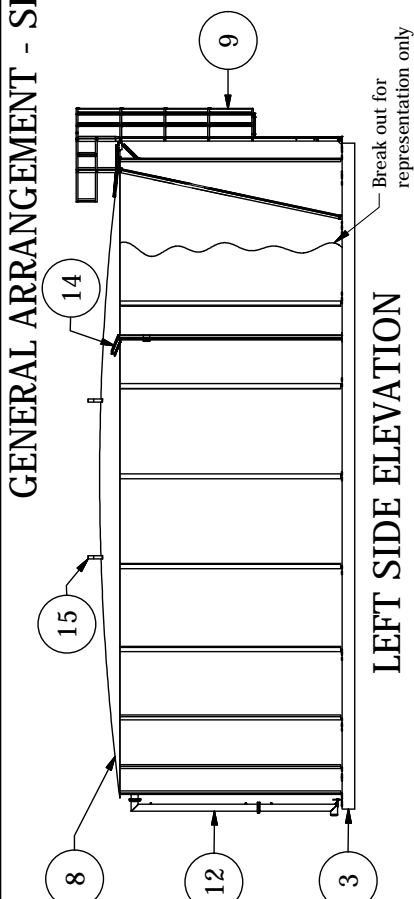
The certification is limited to tanks complying with the following: -

- Installation in accordance with the methods prescribed by SBS Corporate Services undertaken by competent personnel.
- Installation is limited to sites or locations which are within the environmental design limitations for wind and seismic.
- Engineered Solution tanks "ES" range and installation of single or multiple tanks on any site which may have any influence on the surrounding structures may require a review of the installation in line with national regulations.
- Foundations are to be prepared in accordance with the instructions of the approved Civil Engineering drawings.

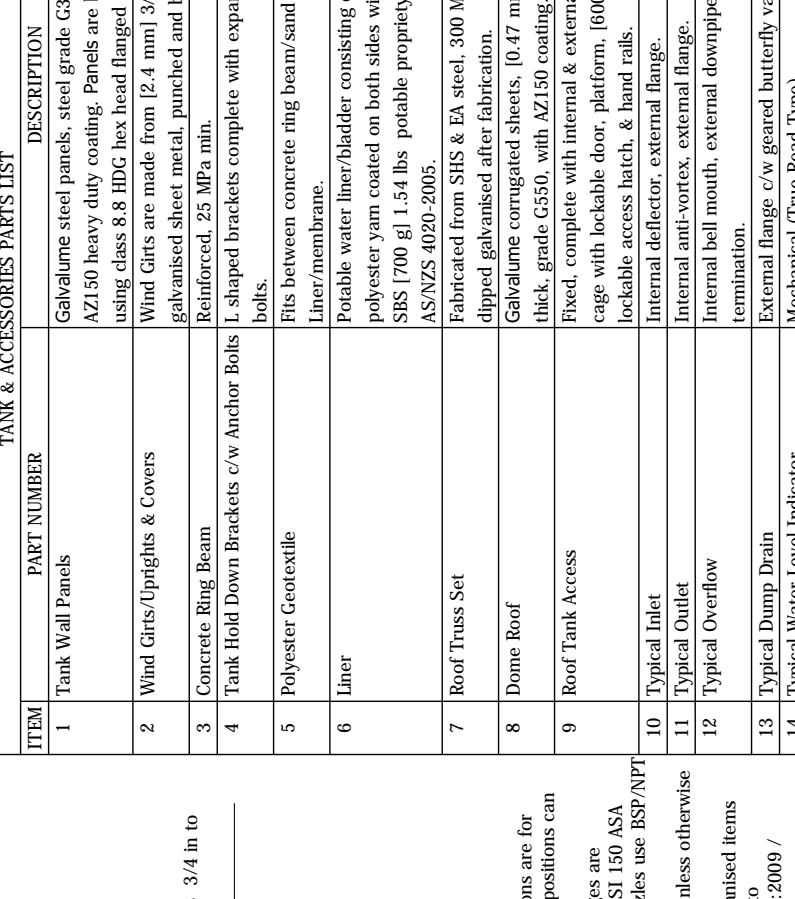
Certification for installation of a tank other than in normal South African conditions is subject to additional and specific check design calculations for the individual location and conditions.

**Michael Georgiadis**

**Pr. Eng. ECSA # 20090060**



LEFT SIDE ELEVATION



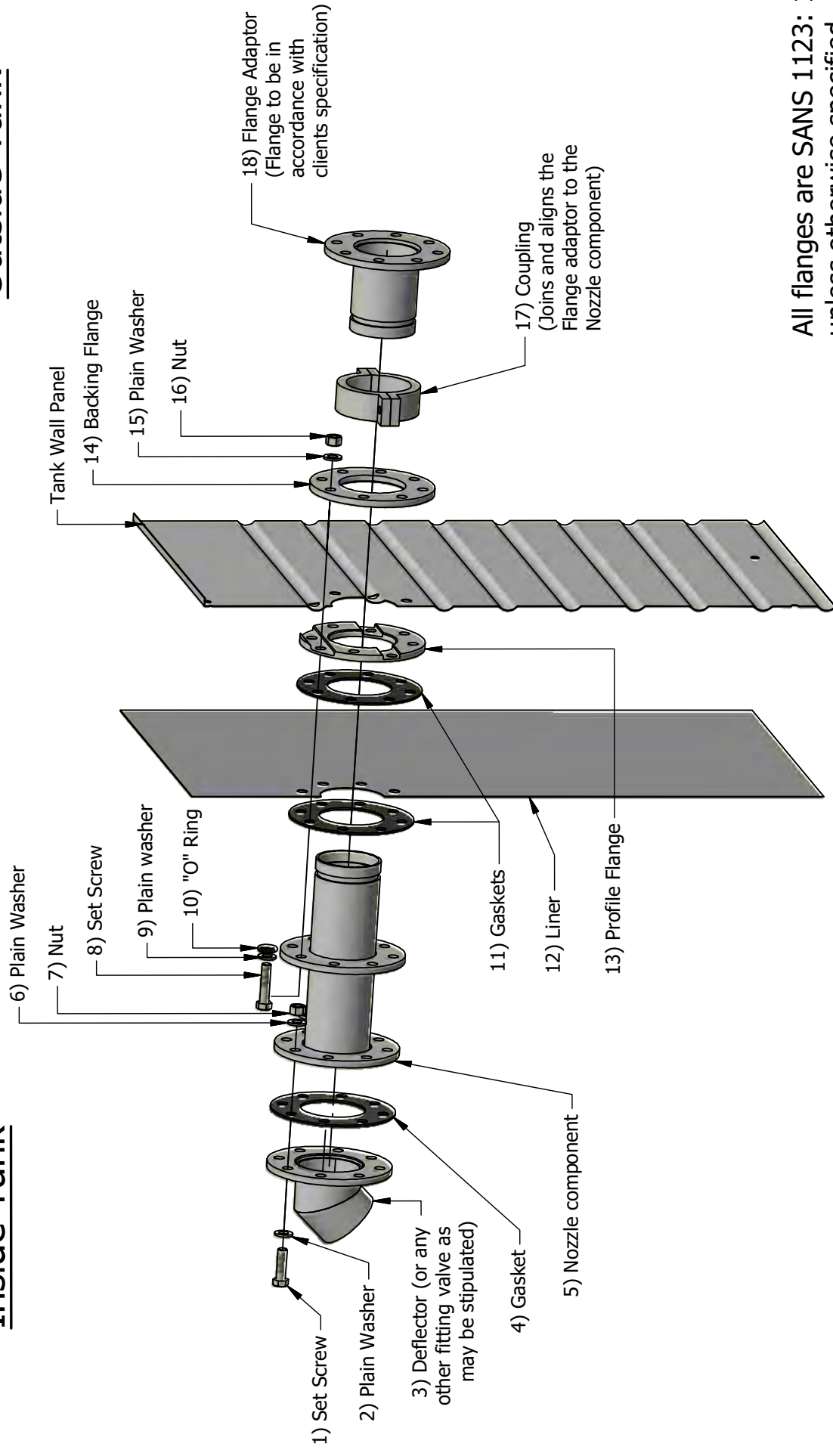
# PLAN VIEW

TANK & ACCESSORIES PARTS LIST		
ITEM	PART NUMBER	DESCRIPTION
1	Tank Wall Panels	Galvalume steel panels, steel grade G3 AZ150 heavy duty coating. Panels are using class 8.8 HDG hex head flanged
2	Wind Girts/Uprights & Covers	Wind Girts are made from [2.4 mm] 3/ galvalnised sheet metal, punched and l
3	Concrete Ring Beam	Reinforced, 25 MPa min.
4	Tank Hold Down Brackets c/w Anchor Bolts	L shaped brackets complete with expa bolts.
5	Polyester Geotextile	Fits between concrete ring beam/sand Liner/membrane.
6	Liner	Potable water liner/bladder consisting polyester yarn coated on both sides w SBS [700 g] 1.54 lbs potable propriety AS/NZS 4020-2005.
7	Roof Truss Set	Fabricated from SHS & EA steel, 300 M dipped galvanised after fabrication.
8	Dome Roof	Galvalume corrugated sheets, [0.47 m thick, grade G550, with AZ150 coating
9	Roof Tank Access	Fixed, complete with internal & external cage with lockable door, platform, [600 lockable access hatch, & hand rails.
10	Typical Inlet	Internal deflector, external flange.
11	Typical Outlet	Internal anti-vortex, external flange.
12	Typical Overflow	Internal bell mouth, external downpipe termination.
13	Typical Dump Drain	External flange c/w geared butterfly va
14	Typical Water Level Indicator	Mechanical (True Read Type)
15	Typical Ventilator	Static, made from [76 mm] 3 in x [76

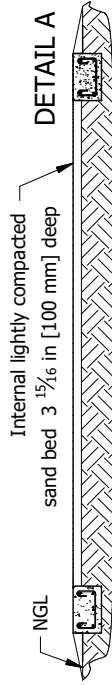


## Inside Tank

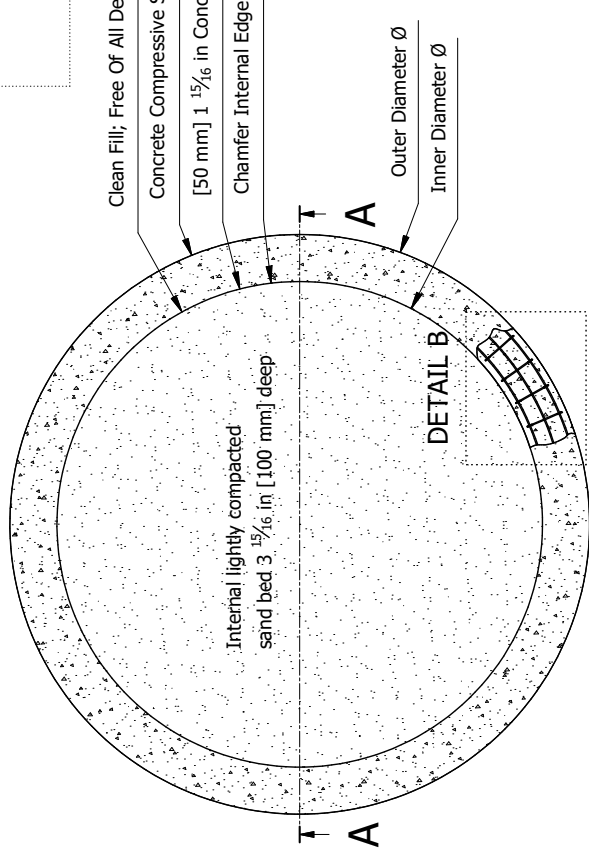
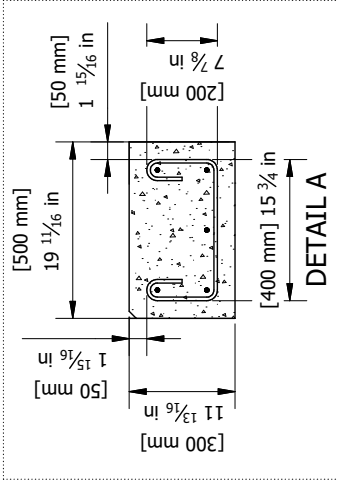
## Outside Tank



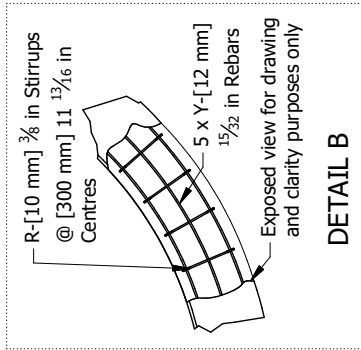
All flanges are SANS 1123: 1000\3 unless otherwise specified



SECTIONAL FRONT VIEW ON A-A



PLAN VIEW



DETAIL B

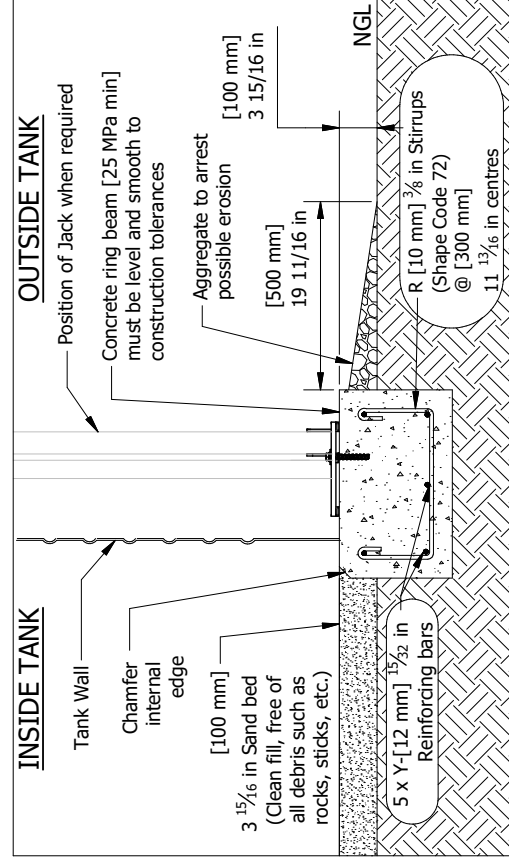


### Construction Tolerances

Outside Ø:	- 25/32 in [20 mm]
Inside Ø:	+0
Level of top surface:	± 5/64 in [2 mm] over any 78 47/64 in [2 m] of circumference at tank wall position. ± 5/32 in [4 mm] over entire ring beam.

## GUIDELINES AND NOTES

1. This document contains the minimum required dimensions and guidelines and is not to be used for construction unless officially issued by an approved engineer or company representative.
2. SPS is not responsible for any loss or damage caused by an incorrectly designed or built ring beam.
3. Ring beam sizes shown are suitable for geographic areas which do not experience wind speeds exceeding 43 m/s [155 km/h] 96 mph. Should wind speeds in excess of this be expected, then special designs must be prepared.
4. It is very important for the client to ensure that foundation conditions are adequate. The requirements are
  - Safe bearing capacity should equal or exceed 14.5 PSI [100 kPa]
  - The founding material must be stable
  - Hand float top surface
5. Most sands and gravels that have been compacted to a reasonable level will be adequate, provided that there is stable soil underneath.
6. Should there be any doubt about the stability or strength of the foundation, site specific professional engineering advice should be sought.
7. In areas with corrosive soil conditions, special protective measures should be used.
8. Ring beam dimensions are typical and provided for costing purposes only. Final ring beam dimensions may vary depending on soil conditions, climatic conditions, etc.
9. Ring beam width and depth are tank model dependant and allow for specialised jacking when required. Ring beam dimensions must not be altered for any unapproved reason and without any consultation from the supplier.
10. Drawing is not to scale



FINISHED RING BEAM DETAIL

**APPLICATION: MINING**

**TANK MODEL:** 2x ST 31/09,

**TOTAL CAPACITY:** 6 604 kl

**LOCATION:** Northern Cape, South Africa



**APPLICATION: WATER CONSERVATION**

**TANK MODEL:** ST06/02

**LOCATION:** On building rooftop, Cape Town, South Africa.



**APPLICATION: COMMERCIAL**

**TANK MODEL:** ST26/05

**TOTAL CAPACITY:** 1 295 kl

**LOCATION:** Texas, United States of America



**APPLICATION: FIXED FIRE PROTECTION**

**TANK MODEL:** 2 X ST 15/06

**TOTAL CAPACITY:** 1034 kl

**LOCATION:** Kenya, East Africa



**APPLICATION: MUNICIPAL**

**TANK MODEL:** 3 x ST31/09

**TOTAL CAPACITY:** 9 903kl

**LOCATION:** Emalahleni, Mpumalanga



**APPLICATION: ELEVATED, PUBLIC SECTOR**

**TANK MODEL:** ET05/03 at 6m

**TOTAL CAPACITY:** 29 kl

**LOCATION:** KwaCutshwayo, KZN



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