



# 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 ISO 9364 and profiled to SBS Tanks unique design	22-6 total gauge	18-3 total gauge	20 total 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>COLOR RANGE</b> Mill finish – silver, standard. All SBS Tanks can be supplied epoxy powder coated or painted with approved primers and paints.	X	X	N/A
<b>ESTIMATED LIFE</b> 60+ Years under normal climate and operational conditions	X	X	N/A
<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 21.24 Oz/yd <sup>2</sup> , PVC 29.5 Oz/yd <sup>2</sup> , NSF61, XR5	PVC 21.24 Oz/yd <sup>2</sup> , PVC 29.5 Oz/yd <sup>2</sup> , NSF61, XR5	PVC 21.24 Oz/yd <sup>2</sup>
<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.	26 total gauge	26 total gauge	26 total 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 &amp; WARRANTY</b> SBS Tanks® carry an industry standard 12-month workmanship and materials guarantee and a 20-year non-leak warranty is applicable, provided that the tank is installed by an approved SBS® installer.	Conditional 20 year no-leak warranty 12 month workmanship guarantee	Conditional 20 year no-leak warranty 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 specialized environments.	Wind rating 96mph Seismic Capabilities	Wind rating 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, 5020 gal (on site work) 3 days ST18/02, 68 840 gal (on site work) 15-17 days ST31/09, 872 300 gal (on site work)	X	X	Quicker
<b>SITE PREPARATION</b> Level site capable of supporting 2,089 psf with sand bed or concrete ring beam as required. Site preparations to be arrange 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



# 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 9001:2008 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 9001:2008 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

TEST & METHOD	PROPERTIES	
	IMPERIAL	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	-40°F	-40°C
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 color 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 COLOR OPTIONS

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

**Please Note:**

Color represented may vary slightly to those depicted in the swatches below

Nonstandard colors: Lead times may vary due to color development and raw materials available.

