



UNDERGROUND STORAGE TANKS  
COMPOSITE BONDED TANKS

The strength of steel  
meets the corrosion resistance of  
polyester in one supertough  
storage tank.

Problem-free performance without any external corrosion  
monitoring - that's the beauty of Forgeweld's composite  
bonded underground storage tanks.

forgeweld

LEADERS IN STEEL TANK MANUFACTURE, SINCE 1963.



Combining the structural integrity of 6 mm SABS Grade 355JR carbon steel plate with the corrosion resistance of a 2,5 to 3 mm Fibreglass Reinforced Polyester (FRP) shell (Spec UL1746), these tanks have high tensile strength and impact properties and are recommended for the safe storage of all blends of conventional and oxygenated fuels, including methanol.



### Built to high spec

The steel tanks are built with shell-and head-thickness to SANS 1535/UL 58 specifications.

Before application of the GRP laminate coating, the external surface of a tank shall be blast-cleaned to preparation grade SA 2,5, as described in ISO 8501-1 (as per SANS1535 standard). A 2.5mm coating of isophthalic resin, reinforced with chopped fibreglass, is applied to the entire external surface of the tank. (UL 58)

The finished cladding is quality checked by a 35 000 volt holiday test over 100% of its surface to ensure that there are no discontinuities in the coating.

Forgeweld composite tanks are fully insulated from the surrounding soil and are equipped with isolating bushes. Neither cathodic protection nor corrosion monitoring is required.

### Tank dimensions and capacity

VOLUME m <sup>3</sup>	IN. DIAMETER mm	OUT. DIAMETER mm	OVERALL LENGTH mm	SHELL THICKNESS mm	CALC. CAPACITY litres	APPROX. WEIGHT kg
4,5	1 810	1 817	1 900	6	4 862	860
9	1 815	1 817	3 700	6	9 468	1 342
14	1 815	1 817	5 500	6	14 074	1 826
23	2 318	2 330	5 500	6	23 210	2 231
30	2 318	2 330	7 300	6	30 806	2 850
46 Long	2 318	2 330	10 900	6	45 999	4 123
46 Dumpie	2 870	2 882	7 800	6	48 547	3 824
60	2 870	2 882	9 600	6	60 191	4 592
83	2 870	2 882	13 200	6	83 481	6 124
100	3 100	3 112	13 550	6	100 035	7 179



### Adaptable to your needs

Depending on your requirements, Forgeweld composite tanks are fitted with lifting lugs and flanged or dished ends. Top-fitted 745 mm diameter manholes incorporate filler, dip, breather and suction (pump) apertures. A forecourt manhole can be supplied, should you require this. Drop pipes are also fitted to order.

### Warranty policy

All storage tanks manufactured by Forgeweld Engineering (Pty) Ltd carries a warranty against defective materials and workmanship for a period of 24 months from the date of installation.

### Top quality and safety standards

Forgeweld composite tanks are manufactured to the very highest standards, conforming to and even exceeding the requirements of the world's top standards authorities:

- UL 1746 Part II - Composite Tanks: This standard covers the material testing and application of the 2,5 mm FRP coating applied to the external surface of every Forgeweld composite tank. In terms of this standard, the application of a 2,5 mm FRP coating allows manufacturers to reduce shell tank thickness. We don't exercise this concession, thus ensuring that the structural strength and integrity of our composite tanks exceed that called for by this standard.
- SANS 1535 - Glass Reinforced Polyester Coated Steel Tanks for the Underground Storage of Hydrocarbons and Oxygenated Solvents Intended for Burial Horizontally: Regular inspections and tests by the SABS ensure our compliance with this standard.
- SABS 1531 Grade 355JR: the steel used in the manufacture of our composite tanks conforms to this specification (equivalent to Grade 43A of the applicable British Code).

For more details or to order, please contact your nearest Forgeweld office.

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