

GTG507000L FRESH DRINKING WATER

STORAGE RESERVOIR



507,000L Capacity

Dimensions: 8.88m x 4.08m H

Tank Design Code: AWWA (American Water Works Association) D 103.

Tank Wall constructed with High Tensile Zincalume sheets ranging from 0.53mm to 9.7mm thickness.

Yield Strength: 320 N/mm², Tensile Strength: 400 N/mm².

Coating: Zincalume (Zinc/Aluminum Alloy) with AZ 150 specification.

PVC LINER SPECS

Product Reference:	MC 305 - 700g			
Product Description:	Potable water bladder liner			
Product Characteristics:	High tenacity polyester yarn coated on both sides with PVC that contains no harmful or toxic chemicals. The material is approved to hold water or to come in contact with water (liquids) for human consumption. Approved by the Australian Water Quality Center, standard - AS/NZS 4020:2005 TESTING OF PRODUCTS FOR USE IN CONTACT WITH DRINKING WATER.			
Roll Size:	Water reservoir liners or dam bladder liners			
Product Dimensions:	Tolerance	Value	Unit	Test Method
Width	+/- 0.01	2.50	m	-
Overall mass	+/- 30	700	g/m ²	BS 3424.5
Roll length		30	m	-
Product Properties:	Tolerance	Value	Unit	Test Method
Tensile WMD	min.	2400	N/50mm	BS 3424. P4 M6
		2000		
Tear WMD	min.	250	N	BS 3424. P5 M7
		200		
Adhesion strength	min.	80	N/50mm	BS 3424. P M9b
Human consumption approved - Potable	Non Toxic			AS/NZS 4020 & SI- 5452
Fusion Acetone	min.	5	min	
		10	min	
Flex cracking	min.	250000	Cycles	
Base Fabric Properties:	Tolerance	Value	Unit	Test Method
Composition	Polyester			100%
Fabric mass (g) per unit area	min.	1.17		SANS 79
Linear density (warp)		1100g/line		BS 3424
Linear density (weft)		1100g/line		BS 3424
Thread per centimeter (warp)	min.	7		SANS 86
Thread per centimeter (weft)	min.	7		SANS 86
Weave				Plain
Detailed laboratory test results on specific parameters are available on request. Custom colours and embosses can be developed for order quantities greater than 2 000 ln.				

DOMED ROOF SPECIFICATIONS

The tank roof is constructed using zincalume colour-coated corrugated sheeting. The roof is trafficable across truss members, complete with a heavy-duty hinged and lockable access hatch. The roof is bird and rodent proof, light and weather proof, and designed to withstand wind speeds of up to 200km/h.

Trusses	50x50x3mm Square tubing (SABS 657-1), Hot-dip galvanised (SABS 1461)
Corrugated zincalume sheets	G550 High tensile grade with AZ 150 coating
Support Brackets	100mm – 250mm hot dip galvanised brackets
Wind Turbine	All roofs are fitted with a wind turbine
Manhole	Manufactured from zincalume sheet to last longer
Ladders	The dome roof is fitted with an internal and external ladder that is hot dip galvanised (SABS 1461).

Roof Trusses are spaced between 1 – 1.5 meters depending on the size of the tank. It is a hazard to make the spacing bigger than 1.5 meters. All roof material are hot dip galvanised except the roof sheets that is zincalume sheets.