

FRESH DRINKING WATER STORAGE RESERVOIRS



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RESIDENTIAL TANKS

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THE GREEN TECHNOLOGY GLOBAL STORAGE RESERVOIR IS AN ELEGANT AND PRACTICAL STEEL CHROMODEK WATER HARVESTING TANK TO FURNISH A CONSTANT FRESH DRINKING WATER SUPPLY.

WHY CHOOSE A STEEL FRESH DRINKING WATER RESIDENTIAL TANK?

The modern steel fresh drinking water harvesting tank has some unique outstanding features with some major benefits over tanks built with alternative materials:

- The strength of steel tanks ensure that they will not deteriorate over time under severe environmental conditions as it may with other materials.
- Additional corrosion protection from a long-life polymer coating on the inside of the tank walls and base prevents the growth of algae and bacteria.
- It can easily hold the large forces generated by tons of water without stretching or bulging.
- A steel tank option is much more aesthetically pleasing than the polyethylene tank options and is the choice of tank material for many architects when designing a water harvesting system.
- The difference between steel and poly/plastic fresh drinking water tanks are that a steel fresh drinking water tank is 100% UV-proof, ensuring that steel fresh drinking water tanks will not degrade in sunlight. Plastic or polyethylene fresh drinking water tanks are affected by ultraviolet light and can break down over time, losing both strength and their color.

FEATURES OF THE GREEN TECHNOLOGY GLOBAL STEEL FRESH DRINKING WATER TANK

- **Corrugated steel coated on the inside with a polymer coating and chromodek on the outside**
- **One 50mm inlet and one 50mm outlet with treads on both sides for different types of valves and ball valve**
- **Chromodek colors of your choice to match your roof, gutters, home or factory**
- **A ten-year pro-rata limited warranty against leakage and normal wear/tear**

MODEL PBLHT1.5

1,500 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 0.9m Round x 2.2m H

Weight Empty: 47 Kg/103.6 Lbs

Design Code: AWWA - American Water Works Association D 103

Tank Wall: High Tensile Zincalume sheets 0,58mm 0.9mm & 1.1mm

Yield Strength: 250 N/mm

Tensile Strength: 320 N/mm

Coating: Zincalume (Zinc/Aluminum Alloy) AZ 150

Fastener Bolts: M10 - M22 Galvanized to SANS 121:2011

Top ring: 0.58mm,

Ring 2: 0.58mm

- Corrugated Zincalume steel tank sheets
- PVC liner with plastic rim protector, as well as a plastic UV protector for your liner
- One 50mm outlet with ball valve



MODEL PBLHT2.5

2,500 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 1.2m Round x 2.2m H

Weight Empty: 66 Kg/ 145.5 Lbs

Design Code: AWWA - American Water Works Association D 103

Tank Wall: High Tensile Zincalume sheets 0,58mm 0.9mm & 1.1mm

Yield Strength: 250 N/mmm

Tensile Strength: 320 N/mm

Coating: Zincalume (Zinc/Aluminum Alloy) AZ 150

Fastener Bolts: M10 - M22 Galvanized to SANS 121:2011

Top ring: 0.58mm,

Ring 2: 0.58mm

- Corrugated Zincalume steel tank sheets
- PVC liner with plastic rim protector, as well as a plastic UV protector for your liner
- One 50mm outlet with ball valve



MODEL PBLHT3

3,000 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 1.4m Round x 2.2m H

Weight Empty: 80 Kg/ 176.37 Lbs

Design Code: AWWA - American Water Works Association D 103

Tank Wall: High Tensile Zincalume sheets 0,58mm 0.9mm & 1.1mm

Yield Strength: 250 N/mm

Tensile Strength: 320 N/mm

Coating: Zincalume (Zinc/Aluminum Alloy) AZ 150

Fastener Bolts: M10 - M22 Galvanized to SANS 121:2011

Top ring: 0.58mm,

Ring 2: 0.58mm

- Corrugated Zincalume steel tank sheets
- PVC liner with plastic rim protector, as well as a plastic UV protector for your liner
- One 50mm outlet with ball valve



MODEL PBLHT4

4,000 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 1.6m Round x 2.2m H

Weight Empty: 209.4 Lbs

Design Code: AWWA - American Water Works Association D 103

Tank Wall: High Tensile Zincalume sheets 0,58mm 0.9mm & 1.1mm

Yield Strength: 250 N/mm

Tensile Strength: 320 N/mm

Coating: Zincalume (Zinc/Aluminum Alloy) AZ 150

Fastener Bolts: M10 - M22 Galvanized to SANS 121:2011

Top ring: 0.58mm,

Ring 2: 0.58mm

- Corrugated Zincalume steel tank sheets
- PVC liner with plastic rim protector, as well as a plastic UV protector for your liner
- One 50mm outlet with ball valve



MODEL PBLHT5

5,000 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 1.7m Round x 2.2m H

Weight Empty: 103 Kg/ 227 Lbs

Design Code: AWWA - American Water Works Association D 103

Tank Wall: High Tensile Zincalume sheets 0,58mm 0.9mm & 1.1mm

Yield Strength: 250 N/mmm

Tensile Strength: 320 N/mm

Coating: Zincalume (Zinc/Aluminum Alloy) AZ 150

Fastener Bolts: M10 - M22 Galvanized to SANS 121:2011

Top ring: 0.58mm,

Ring 2: 0.58mm

- Corrugated Zincalume steel tank sheets
- PVC liner with plastic rim protector, as well as a plastic UV protector for your liner
- One 50mm outlet with ball valve



MODEL PBLHT8

8,000 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 2.25m Round x 2.2m H
Weight Empty: 152 Kg/ 335 Lbs

Design Code: AWWA - American Water Works Association D 103
Tank Wall: High Tensile Zincalume sheets 0,58mm 0.9mm & 1.1mm
Yield Strength: 250 N/mm
Tensile Strength: 320 N/mm
Coating: Zincalume (Zinc/Aluminum Alloy) AZ 150
Fastener Bolts: M10 - M22 Galvanized to SANS 121:2011
Top ring: 0.58mm,
Ring 2: 0.58mm

- Corrugated Zincalume steel tank sheets
- PVC liner with plastic rim protector, as well as a plastic UV protector for your liner
- One 50mm outlet with ball valve



MODEL PBLHT10

10,000 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 2.5m Round x 2.2m H

Weight Empty: 176 Kg/388 Lbs

Design Code: AWWA - American Water Works Association D 103

Tank Wall: High Tensile Zincalume sheets 0,58mm 0.9mm & 1.1mm

Yield Strength: 250 N/mm

Tensile Strength: 320 N/mm

Coating: Zincalume (Zinc/Aluminum Alloy) AZ 150

Fastener Bolts: M10 - M22 Galvanized to SANS 121:2011

Top ring: 0.58mm,

Ring 2: 0.58mm

- Corrugated Zincalume steel tank sheets
- PVC liner with plastic rim protector, as well as a plastic UV protector for your liner
- One 50mm outlet with ball valve



MODEL PBLHT20

20,000 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 3.0m Round x 2.2m H

Weight Empty: 218 Kg/ 480.6 Lbs

Design Code: AWWA - American Water Works Association D 103

Tank Wall: High Tensile Zincalume sheets 0,58mm 0.9mm & 1.1mm

Yield Strength: 250 N/mm

Tensile Strength: 320 N/mm

Coating: Zincalume (Zinc/Aluminum Alloy) AZ 150

Fastener Bolts: M10 - M22 Galvanized to SANS 121:2011

Top ring: 0.58mm,

Ring 2: 0.58mm

- Corrugated Zincalume steel tank sheets
- PVC liner with plastic rim protector, as well as a plastic UV protector for your liner
- One 50mm outlet with ball valve



INDUSTRIAL TANKS

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MODEL PBLHT3 0

30,000 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 3.65m Round x 2.93m H

Weight Empty: 321 Kg/707.6 Lbs

Design Code: AWWA - American Water Works Association D 103

Tank Wall: High Tensile Zincalume sheets 0,58mm 0.9mm & 1.1mm

Yield Strength: 250 N/mm

Tensile Strength: 320 N/mm

Coating: Zincalume (Zinc/Aluminum Alloy) AZ 150

Fastener Bolts: M10 - M22 Galvanized to SANS 121:2011

Top ring: 0.58mm,

Ring 2: 0.58mm

- **Corrugated Zincalume steel tank sheets**
- **PVC liner with plastic rim protector, as well as a plastic UV protector for your liner**
- **One 50mm outlet with ball valve**



MODEL PBLHT40

40,000 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 4.2m Round x 2.93m H

Weight Empty: 393 Kg/866.4 Lbs

Design Code: AWWA - American Water Works Association D 103

Tank Wall: High Tensile Zincalume sheets 0,58mm 0.9mm & 1.1mm

Yield Strength: 250 N/mm

Tensile Strength: 320 N/mm

Coating: Zincalume (Zinc/Aluminum Alloy) AZ 150

Fastener Bolts: M10 - M22 Galvanized to SANS 121:2011

Top ring: 0.58mm,

Ring 2: 0.58mm

- Corrugated Zincalume steel tank sheets
- PVC liner with plastic rim protector, as well as a plastic UV protector for your liner
- One 50mm outlet with ball valve



MODEL PBLEST82

45,000 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 5.98m Round x 1.61m H

Weight Empty: 450Kg/992 Lbs

Design Code: AWWA - American Water Works Association D 103

Tank Wall: High Tensile Zincalume sheets 0,58mm 0.9mm & 1.1mm

Yield Strength: 250 N/mm

Tensile Strength: 320 N/mm

Coating: Zincalume (Zinc/Aluminum Alloy) AZ 150

Fastener Bolts: M10 - M22 Galvanized to SANS 121:2011

Top ring: 0.58mm,

Ring 2: 0.58mm

- Corrugated Zincalume steel tank sheets
- PVC liner with plastic rim protector, as well as a plastic UV protector for your liner
- One 50mm outlet with ball valve



MODEL PBLHT50

50,000 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 4.7m Round x 2.93m H

Weight Empty: 464 Kg/1023 Lbs

Design Code: AWWA - American Water Works Association D 103

Tank Wall: High Tensile Zincalume sheets 0,58mm 0.9mm & 1.1mm

Yield Strength: 250 N/mm

Tensile Strength: 320 N/mm

Coating: Zincalume (Zinc/Aluminum Alloy) AZ 150

Fastener Bolts: M10 - M22 Galvanized to SANS 121:2011

Top ring: 0.58mm,

Ring 2: 0.58mm

- Corrugated Zincalume steel tank sheets
- PVC liner with plastic rim protector, as well as a plastic UV protector for your liner
- One 50mm outlet with ball valve



MODEL PBLEST83

70,000 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 5.98m Round x 2.40m H

Weight Empty: 550 Kg/ 1212.5 Lbs

Design Code: AWWA - American Water Works Association D 103

Tank Wall: High Tensile Zincalume sheets 0,58mm 0.9mm & 1.1mm

Yield Strength: 250 N/mm

Tensile Strength: 320 N/mm

Coating: Zincalume (Zinc/Aluminum Alloy) AZ 150

Fastener Bolts: M10 - M22 Galvanized to SANS 121:2011

Top ring: 0.58mm,

Ring 2: 0.58mm

- Corrugated Zincalume steel tank sheets
- PVC liner with plastic rim protector, as well as a plastic UV protector for your liner
- One 50mm outlet with ball valve



MODEL PBLEST84

90,000 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 5.98m Round x 3.15m H

Weight Empty: 750 Kg/ 1653.5 Lbs

Design Code: AWWA - American Water Works Association D 103

Tank Wall: High Tensile Zincalume sheets 0,58mm 0.9mm & 1.1mm

Yield Strength: 250 N/mmm

Tensile Strength: 320 N/mm

Coating: Zincalume (Zinc/Aluminum Alloy) AZ 150

Fastener Bolts: M10 - M22 Galvanized to SANS 121:2011

Top ring: 0.58mm,

Ring 2: 0.58mm

- Corrugated Zincalume steel tank sheets
- PVC liner with plastic rim protector, as well as a plastic UV protector for your liner
- One 50mm outlet with ball valve



MODEL PBLEST1 22

102,000 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 8.98m Round x 1.61m H

Weight Empty: 750 Kg/ 1653.5 Lbs

Design Code: AWWA - American Water Works Association D 103

Tank Wall: High Tensile Zincalume sheets 0,58mm 0.9mm & 1.1mm

Yield Strength: 250 N/mmm

Tensile Strength: 320 N/mm

Coating: Zincalume (Zinc/Aluminum Alloy) AZ 150

Fastener Bolts: M10 - M22 Galvanized to SANS 121:2011

Top ring: 0.58mm,

Ring 2: 0.58mm

- Corrugated Zincalume steel tank sheets
- PVC liner with plastic rim protector, as well as a plastic UV protector for your liner
- One 50mm outlet with ball valve



MODEL PBLEST1 2 3

155,000 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 8.98m Round x 2.4m H

Weight Empty: 950 Kg/2094 Lbs

Design Code: AWWA - American Water Works Association D 103

Tank Wall: High Tensile Zincalume sheets 0,58mm 0.9mm & 1.1mm

Yield Strength: 250 N/mmm

Tensile Strength: 320 N/mm

Coating: Zincalume (Zinc/Aluminum Alloy) AZ 150

Fastener Bolts: M10 - M22 Galvanized to SANS 121:2011

Top ring: 0.58mm,

Ring 2: 0.58mm

- Corrugated Zincalume steel tank sheets
- PVC liner with plastic rim protector, as well as a plastic UV protector for your liner
- One 50mm outlet with ball valve



MODEL PBLEST1 24

200,000 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 8.98m Round x 3.15m H

Weight Empty: 1400 Kg/3086.4 Lbs

Design Code: AWWA - American Water Works Association D 103

Tank Wall: High Tensile Zincalume sheets 0,58mm 0.9mm & 1.1mm

Yield Strength: 250 N/mmm

Tensile Strength: 320 N/mm

Coating: Zincalume (Zinc/Aluminum Alloy) AZ 150

Fastener Bolts: M10 - M22 Galvanized to SANS 121:2011

Top ring: 0.58mm,

Ring 2: 0.58mm

- Corrugated Zincalume steel tank sheets
- PVC liner with plastic rim protector, as well as a plastic UV protector for your liner
- One 50mm outlet with ball valve



MODEL PBLEST1 72

205,000 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 12.72m Round x 1.61m H

Weight Empty: 1050Kg / 2314.85 Lbs

Design Code: AWWA - American Water Works Association D 103

Tank Wall: High Tensile Zincalume sheets 0,58mm 0.9mm & 1.1mm

Yield Strength: 250 N/mm

Tensile Strength: 320 N/mm

Coating: Zincalume (Zinc/Aluminum Alloy) AZ 150

Fastener Bolts: M10 - M22 Galvanized to SANS 121:2011

Top ring: 0.58mm,

Ring 2: 0.58mm

- Corrugated Zincalume steel tank sheets
- PVC liner with plastic rim protector, as well as a plastic UV protector for your liner
- One 50mm outlet with ball valve



MODEL PBLEST1 73

306,000 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 12.72m Round x 2.4m H

Weight Empty: 1460 Kg/3218.7 Lbs

Design Code: AWWA - American Water Works Association D 103

Tank Wall: High Tensile Zincalume sheets 0,58mm 0.9mm & 1.1mm

Yield Strength: 250 N/mmm

Tensile Strength: 320 N/mm

Coating: Zincalume (Zinc/Aluminum Alloy) AZ 150

Fastener Bolts: M10 - M22 Galvanized to SANS 121:2011

Top ring: 0.58mm,

Ring 2: 0.58mm

- Corrugated Zincalume steel tank sheets
- PVC liner with plastic rim protector, as well as a plastic UV protector for your liner
- One 50mm outlet with ball valve



MODEL PBLEST1 74

401,000 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 12.72m Round x 3.15m H

Weight Empty: 2350 Kg/ 5180.86 Lbs

Design Code: AWWA - American Water Works Association D 103

Tank Wall: High Tensile Zincalume sheets 0,58mm 0.9mm & 1.1mm

Yield Strength: 250 N/mmm

Tensile Strength: 320 N/mm

Coating: Zincalume (Zinc/Aluminum Alloy) AZ 150

Fastener Bolts: M10 - M22 Galvanized to SANS 121:2011

Top ring: 0.58mm,

Ring 2: 0.58mm

- Corrugated Zincalume steel tank sheets
- PVC liner with plastic rim protector, as well as a plastic UV protector for your liner
- One 50mm outlet with ball valve



VERY LARGE CAPACITY WATER STORAGE TANKS

COMMERCIAL STORAGE TANK UNITS 1 Million to 3.2 MILLION LITERS

The Customized Tank is designed to stand up to aggressive wind loads in specific regions where hurricanes, high winds and thunderstorms occur regularly. The tank shell can be adapted to your specific needs, we can adapt the wall sheet thickness, roof sheeting and truss design for an even more durable structure when nature comes thundering down.



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- The steel panels of the tank are coated with a zinc layer on both sides. The corrugated steel sheet is continuously hot dipped in a formulation of Aluminum (55%), Zinc (43.5%) and Silicon (1.5%). The aluminum components of the coating provide a tough physical barrier between the extreme atmospheric conditions and the inner core steel.
Zinc has inherent sacrificial properties and corrodes first before the mild steel corrodes.
- A lightweight zinalume roof designed to withstand wind speeds of up to 55m/second can cover tanks. Roofs are fitted with a hatch, internal and external ladder for easy access inside the tank. Tanks can also be sealed with felt to avoid insect and dust contamination. All commercial and industrial water storage tanks require the construction of a concrete ring beam footing. It is imperative for the client to ensure that the foundation and civil works for the site are adequate. Ring beam design is dependent on the tank size and location.
- This high-quality panel-type reservoir is a modular steel tank storage solution that bolts together for easy installation. A certified potable liner with woven base fabric polyester yarn ensures safe water storage for drinking. With capacities ranging from 16m³ to 3 100m³, these steel coated panel tanks are available in a multitude of design specifications depending on the client's requirements, ranging from 3,0m x 2,34m high to 22,28m x 8,18m high.
- Our Zinalume coated tanks are very competitively priced and due to the modular nature can be installed extremely quickly by a certified installer, even in difficult or remote sites anywhere around the world.

MODEL PBLSTE234

1,018,000 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 17.20m Round x 4.26m H

Weight Empty: 10,000Kg/ 22,046 Lbs

Packed 1 per 40' container



DESIGN SPECIFICATIONS	
Design Code	Standard
AWWA D103-97:	(American Water Works Association) Standard for Factory Coated Bolted Steel Tanks for Water Storage.
SANS 10160-3:	Basis of Structural Design and Actions for Buildings and Industrial Structures – Part 3 : Wind Actions.
SANS 282:2004:	Edition 5.1 – Bending dimensions and scheduling of steel reinforcement for concrete.
AS/NZS 4020:2005:	Potable PVC Liner: Testing of products for use in contact with drinking water.

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MODEL PBLSTE267

2,172,000 LITER CAPACITY

TECHNICAL SPECIFICATIONS

Dimensions: 19.45m Round x 7.46m H
Weight Empty: 17,000Kg/ 37,439 Lbs
Packed 1 per 40' container



DESIGN SPECIFICATIONS	
Design Code	Standard
AWWA D103-97:	(American Water Works Association) Standard for Factory Coated Bolted Steel Tanks for Water Storage.
SANS 10160-3:	Basis of Structural Design and Actions for Buildings and Industrial Structures – Part 3 : Wind Actions.
SANS 282:2004:	Edition 5.1 – Bending dimensions and scheduling of steel reinforcement for concrete.
AS/NZS 4020:2005:	Potable PVC Liner: Testing of products for use in contact with drinking water.

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