



DID YOU KNOW?

Aquadam supplies the widest range of steel coated tanks available on the market. We are focused on options, giving you a completely customised water storage tank that you need and want. Industry specifications are converted into the perfect storage solution for our clients.

Customised & transportable

Multiple options even bigger & better.

The Smart Tank is a complete custom-built water storage tank according to your specifications. Adapt the tank shell, roof sheets, colour and resistance to wind speeds against extreme weather conditions and ship it to anywhere in the world.

WHY CHOOSE A SMART TANK

Product description

Design codes and standards:

The Smart Tank design is in accordance to a recognized code of practice, this enables Aquadam to design various tanks for numerous projects according to specific design codes and standards.

Factory and manufacturing:

Most of the materials are locally sourced and converted into a product that is aesthetically pleasing to the eye, yet offers unsurpassed quality and performance for the end user.

Exceptional quality

The Smart 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.

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 zincalume 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 dependant on the tank size and location.

Exceptional quality

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 Zincalume 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 in Africa and around the world. □

FEATURES

- Designed to the highest South African standards
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- Certified and approved by professional engineers
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- Cost-effective, high quality panel-type reservoir
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- Stronger than galvanized tanks that will last longer
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- Modular system that bolts together
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- Optional zincalume light weight roof
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- Design life of over 50 years
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- Flat packed and easy transportable
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- Minimum maintenance required
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- Firmness of shape and mechanical strength

ADVANTAGES

- Thanks to its corrugated shell and the zincalume coating, the Smart Tank is very durable for inland and coastal conditions.
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- Using the latest geomembrane technology, we make sure that the liquid stored inside is not contaminated: the tank is lined with a certified potable liner suitable for human and animal consumption.
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- Having a modular design, the Smart Tank can be shipped anywhere in the world and erected on-site very easily.
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- The Smart Tank can be produced in optional polymer coated colors that can blend into the environment.
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- The Smart Tank is designed to withstand wind speeds, thunderstorms and earthquakes.

CHOOSE THE CAPACITY OR SIZE FOR THE SPECIFIC APPLICATION AND AREA

CAPACITIES



2.34m



8.18m



3m



22.28m



16m³
(16,000lt)



3,100m³
(3,100,000lt)

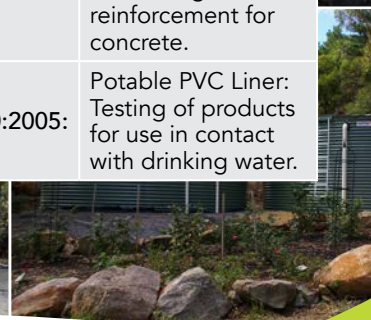
MULTIPLE APPLICATIONS

The Smart Tank is suitable for a wide range of applications:

- Agriculture (irrigation, grain, stock, poultry)
- Industrial fluid storage tanks
- Mining water tanks
- Domestic and rural water storage in remote areas
- Grain storage
- Waste water treatment plants
- Township developments
- Potable water storage in security estates
- Certain chemical storage depending on the liner type and the chemical being stored
- Exceptional fireproofing qualities ideal for firewater storage tanks

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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Speak to one of our water storage specialists or visit aquadam.co.za

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