Water Towers

AOFS Water Towers provide **validated reference designs** for gravity-fed water storage and distribution systems within AOFS-compliant farms.

This page organizes the available water tower reference blueprints and provides guidance on their use.

Purpose

- Centralized reference location for AOFS Water Tower designs
- Facilitates reproducible construction in off-grid or low-resource environments
- Demonstrates safe and operationally robust water storage solutions
- Serves as a training and deployment reference for smallholder, commercial, or NGO farms

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Water Tower Reference Blueprints

The following reference designs are documented under AOFS:

- 5 m Brick Water Tower 5,000 L – Locally-built masonry tower with 5,000 L capacity
- 8 m Steel Water Tower 5,000 L – Locally-built steel tower with 5,000 L capacity
- 10 m Concrete Water Tower 5,000 L – Locally-built concrete tower with 50,000 L capacity

Each blueprint page includes:

- Functional purpose and intended deployment context
- Structural design and construction notes
- Hydraulic layout and pipe integration
- Safety considerations and failure modes
- Manual operation and bypass pathways
- Integration points with AOFS Field Controllers

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Usage Guidance

- Reference designs are **non-normative**. Compliance with AOFS is determined by adherence to control, safety, and data standards, **not replication of physical structures**.
- Local engineering approval and adherence to building codes remain the responsibility of the implementing entity.
- Designers and farmers may adapt materials, dimensions, or construction methods to suit local resources and regulations, provided the functional and safety principles are maintained.

From:
http://wiki.irrigation.afriticgroup.com/ - **Afritic Open Farming Standard**

Permanent link:
http://wiki.irrigation.afriticgroup.com/doku.php?id=reference_implementations:water_towers:start

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