Product information — use project-specific construction instructions.

Version 1.1 · Prepared 2026-11-02 · en

## How it works

# BlockTech: modular stormwater reservoirs

BlockTech uses connected polymer elements to create underground storage. The surrounding enclosure and outlet arrangement determine whether water is released gradually, retained or infiltrated into the soil.



### A modular structure with a project-specific enclosure

The catalogue identifies four elements: main module, fixator, side panel and sectional lid. Modules form the reservoir structure; perimeter elements support the enclosure. The selected layout must accommodate inlets, outlets and inspection access.

| | | |
|---|---|---|
| Inflow | Storage | Controlled release, retention or infiltration |

Conceptual flow; not a construction drawing.

Product information — use project-specific construction instructions.

Version 1.1 · Prepared 2026-11-02 · en

# Technical information

## Three functions, different arrangements

Attenuation temporarily stores runoff and releases it through a controlled outlet. Retention keeps water for a defined purpose. Infiltration releases suitable water into the ground. The catalogue illustrates permeable geotextile for infiltration and a geotextile–geomembrane–geotextile enclosure for storage; the enclosure, seams and outlet are specified for the project.

## Components and supply scope

Main modules, fixators, side panels and sectional lids form the described structure. Enclosure materials, inspection access, inlet/outlet connections, pretreatment and flow controls must be identified in the proposal; do not assume all are included in a module price.

| |
|---|
| Attenuation — temporary storage with controlled release |
| Retention — storage for a defined purpose |
| Infiltration — water passing into the soil |

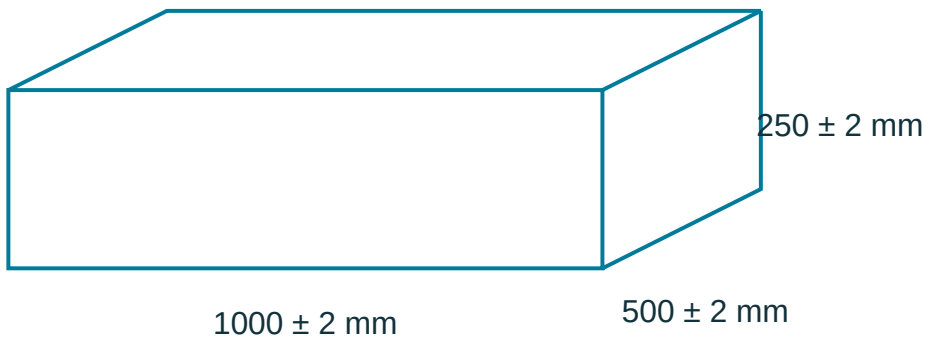
Product information — use project-specific construction instructions.

Version 1.1 · Prepared 2026-11-02 · en

# Main module: geometry and mass

Values apply to the main module, not a complete reservoir or its accessories. The module is a polymer element.

| | |
|---|---|
| **Length (mm)** | 1000 ± 2 |
| **Width (mm)** | 500 ± 2 |
| **Height (mm)** | 250 ± 2 |
| **Module mass (kg)** | 5.4 ± 0.2 |
| **Nominal external volume (m³, calculated)** | 0.125 |




Schematic of the nominal external module envelope, not a construction drawing. Internal geometry and connection details are not shown.

## Nominal external-envelope calculation

(1000 / 1000) × (500 / 1000) × (250 / 1000) = 0.125 m³

## Water capacity of the assembled reservoir

The source states a 95% working-volume fraction for the assembled reservoir. It does not give a net water capacity for an individual module or every layout. The selected reservoir capacity depends on the arrangement and operating levels; 0.125 m³ is the external geometric envelope, not useful water volume.

> Product information — use project-specific construction instructions.

Version 1.1 · Prepared 2026-11-02 · en

# Installation and maintenance

### Installation and maintenance

The catalogue sequence covers base preparation, enclosure, modules and fixators, perimeter elements, inspection points, enclosure checks and backfill. It is an overview, not a site instruction. Loading, cover, ground and groundwater require design checks. Plan sediment management, inspection and cleaning access before installation.

### Questions and answers

### Are attenuation, retention and infiltration the same?

No. Attenuation delays discharge, retention holds water for a purpose, and infiltration returns water to the soil. The enclosure and outlets must match the selected function.

### Is infiltration suitable for every site?

No. Soil, groundwater, water quality and the applicable drainage requirements must support it.

### Is a traffic load rating stated here?

No. A location under parking does not establish allowable loading or cover. Use evidence and design checks for the selected configuration.

### What does the supply include?

The proposal must identify modules, locks, perimeter elements, enclosure, access, connections and any pretreatment or outlet controls, with exclusions.

Product information — use project-specific construction instructions.

Version 1.1 · Prepared 2026-11-02 · en

# Project questionnaire

These product information packs describe construction, functions, interfaces and source reference data. They are not certificates or approved installation instructions.

### Optional project details

Location and project stage

---

Water source and intended use

---

Known volume (m³), flow (m³/h) and levels

---

Ground, groundwater, loading and access where known

---

Required supply scope; unknown values may be left blank

---

### Technical information

BT-CAT · AQUATEX-BlockTech-catalogue-EN.pdf
SHA-256: 75483da603a91482913c5d5245ab199c80db79f5e18342ae6b76d3ce6fbe14b7

BT-WEB · Technical source retained by AQUATEX
SHA-256: 6ed7e41e1b652ca2b67c0bbb425a845a3560517cc420eb280a0fea02d6259fc1

BT-SPEC · Technical source retained by AQUATEX
SHA-256: d1b9fb37481cf87eed5df48efc01e51d25411356a27f5bdae357e490ae4148b0

Request a quote

---

AQUATEX TRADING – FZCO · sales@aquabx.com · +971 58 589 7115 · aquabx.com