

# Security Concept & Resilience Statement

The JUMBO BLOCK® system is designed as an integral solution for modern rainwater management. It combines physical robustness with digital sovereignty to meet the stringent requirements of critical infrastructure (KRITIS).

Note: The specific KRITIS/NIS-2 classification depends on operator role, deployment context, and national implementation.

## 1. Physical Resilience (Hardware)

### Sabotage & Environmental Protection

The 25 cm thick concrete walls protect the integrated measurement and control technology from mechanical impact, vandalism, and extreme thermal loads.

### Passive Safety

The massive block module (5 tons) provides a natural barrier against soil movement and buoyancy during heavy flood events, ensuring that sensors remain calibrated at all times.

## 2. Digital Integrity (Dashboard)

### Data Sovereignty (Edge Computing)

As part of a NIS-2-ready architecture, primary data processing is performed locally (edge). This minimizes dependency on external cloud infrastructures and reduces the attack surface for supply chain threats.

### Audit Log & Tamper Protection

Through integration with decentralized protocols (IOTA), critical water level data and alerts are provided with an immutable digital timestamp, ensuring data integrity.

## Technical Compliance Matrix

Requirement	Technical Implementation	Status
Availability	Autonomous sensor power supply & offline buffering	Ready
Integrity	Integrity mechanisms (transport/protocol security & audit anchoring)	Ready
Hazard Mitigation	Alerting & escalation logic for operators (project-dependent)	Pilot (2026)



Driven by innovation:  
The team behind JUMBO BLOCK®.

### Further Resources

Detailed specifications for our system components can be found on our project pages:

**Hardware:** [jumboblock.app](https://jumboblock.app)

**Software:** [jumboblock.app/iot](https://jumboblock.app/iot)