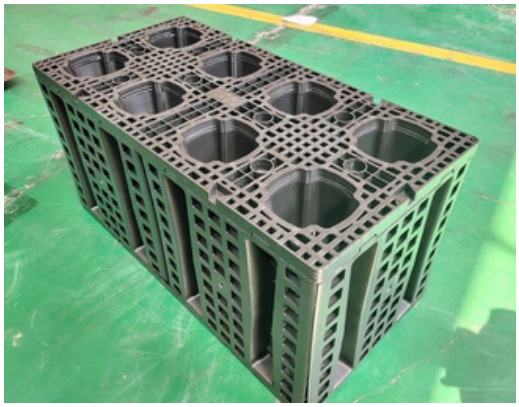
NEPTUNE 250 ATTENUATION CRATE

Operation & Maintenance (O&M) Manual

1. Document Purpose

This manual provides a standardised framework for the operation and maintenance of Neptune 250 sustainable drainage crates. It must be adapted to align with specific site conditions, system configurations and local responsibilities.



2. Project Overview

- Site Name & Location: [Insert Name/Address]
- Client: [Insert Client Name]
- Issue Date: [Insert Date]
- Zuble Product(s): [Insert specific model/product]

3. System Introduction

The Neptune 250 is a compact modular stormwater crate for attenuation or infiltration systems. Each assembled module measures 1000 x 500 x 500 mm with a nominal gross volume of 250 litres and a 95% void ratio. Internal load-bearing columns provide load transfer while open routes between the columns support inspection and CCTV access.

- **Adaptability:** Initial inspections should be carried out more frequently to establish a site-specific performance baseline. Planned frequencies may then be adjusted to reflect observed sediment loading and system performance.

4. Site Specifications & Design

- **Location Records:** Maintain as-built records of tank location, footprint, depth, cover levels, pipework, access points and inspection routes.
- **Design Criteria:** Retain the approved structural verification, hydraulic calculations, membrane/geotextile specification, loading class, cover depth and groundwater information for the installation.
- [Insert site-specific design criteria here]

5. Maintenance Schedule & Procedures

All maintenance must be performed in accordance with current Health and Safety best practices.

Action Category	Required Task	Frequency
Routine Monitoring	Inspect inlets, outlets, overflows, access points and ventilation provisions for blockages, debris, settlement or restricted flow.	Bi-annually and after major storm events
Pre-treatment Care	Remove sediment and debris from upstream treatment, catch pits and silt-control devices before material enters the tank.	Bi-annually and after major storm events
Structural / CCTV Survey	Use approved access routes for CCTV inspection to review sediment accumulation, condition and unobstructed inspection routes.	Every 5 years (or as required)
Remedial Works	Record and repair defects affecting inlets, outlets, access, flow controls, membrane protection or associated drainage components.	As identified during inspection