

NEPTUNE 500 ATTENUATION CRATE

Technical Specification Sheet

(Stormwater Attenuation & SuDS Applications)



Product Overview

The Neptune XL Attenuation Crate is a modular, high-strength stormwater attenuation system designed for use in SuDS-compliant drainage schemes. Its XL format enables rapid installation while maintaining excellent structural performance, suitable for both trafficked and non-trafficked areas.

The system is supplied in a flat-pack configuration, reducing transport costs and on-site handling while allowing quick assembly into robust, fully inspectable attenuation tanks.

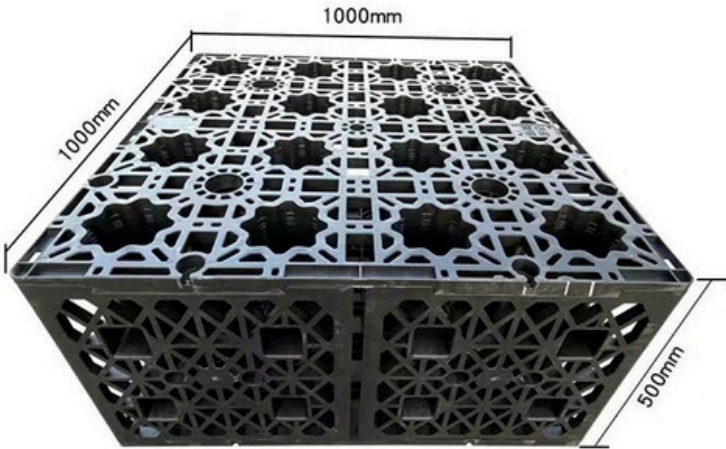
Typical Applications

- Stormwater attenuation tanks
- Sustainable Drainage Systems (SuDS)
- Car parks and service yards
- Residential, commercial, and infrastructure developments
- Trafficked areas (subject to design compliance)

Crate Dimensions

(Refer to dimensioned drawing)

- Plan size: 1000 mm × 1000 mm
- Assembled height: 500 mm



Key Technical Benefits

- XL format crate (1.0 m × 1.0 m × 0.5 m) reduces unit count and installation time
- Flat-pack design minimises haulage volumes and on-site movements
- High structural strength capable of supporting HGV loading*
- Lightweight components enable safer manual handling
- Fast and simple assembly, reducing labour costs
- Fully inspectable internal structure suitable for CCTV inspection and maintenance

*Subject to ground conditions, cover depths, and installation in accordance with manufacturer guidance.

Technical Data

Parameter

Dimensions

Volume

Unit Weight

Void Ratio

Compressive Strength

Maximum Installation Depth

Specification

1.0 m × 1.0 m × 0.5 m (2 units per m³)

500 litres (475 litres actual storage @ 95% void ratio)

25.4 kg per unit

95%

450 kN/m² (Vertical) / 95 kN/m² (Lateral)

4.5 m (AOF 38°)

Cover Level Guidelines

Application	Loading	Minimum Cover
Landscaping	Pedestrian	0.3 m - 0.5 m
Car Park	> 3 tonnes	0.5 m
Car Park	> 9 tonnes	0.75 m
HGV	> 44 tonnes	1.2 m



020 3128 7516



info@zuble.co.uk



www.zuble.co.uk

NEPTUNE 500 ATTENUATION CRATE

Technical Specification Sheet

(Stormwater Attenuation & SuDS Applications)



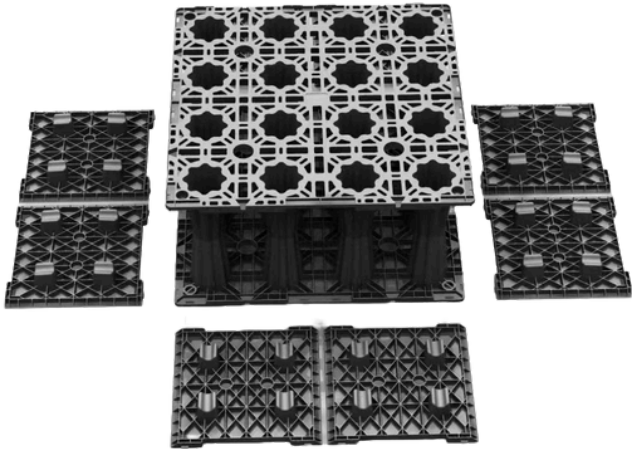
Product Codes

Product Code

NEPM
NEPS
BSC
CSC
NEPC

Description

1 m × 1 m × 0.5 m Main Body
0.5 m × 0.5 m Side Panel
Bow Shear Connector
Circular Shear Connector
Closing Cap



System Performance

- Modular structure provides efficient load distribution
- Suitable for use with geomembrane (attenuation) or geotextile (infiltration) systems
- Stackable configuration allows flexible tank depths

Compliance & Standards

Designed to support compliance with the following UK and European requirements:

- SuDS Manual (CIRIA C753)
- Sewers for Adoption (7th Edition / Design & Construction Guidance)
- BS EN 752 – Drain and sewer systems outside buildings
- BS EN 16941 (where applicable)
- Compatible with DMRB drainage requirements (project-specific)

Final system performance is dependent on full design, installation, and validation in accordance with relevant standards.

Installation & Maintenance

- Delivered flat-pack for efficient logistics
- Rapid on-site assembly
- Fully inspectable voids allow long-term maintenance and asset management
- Compatible with standard access and inspection provisions

Typical Drawing

(Insert plan and elevation drawing image here)

Full supply and installation packages available

50-year product warranty



020 3128 7516



info@zuble.co.uk



www.zuble.co.uk