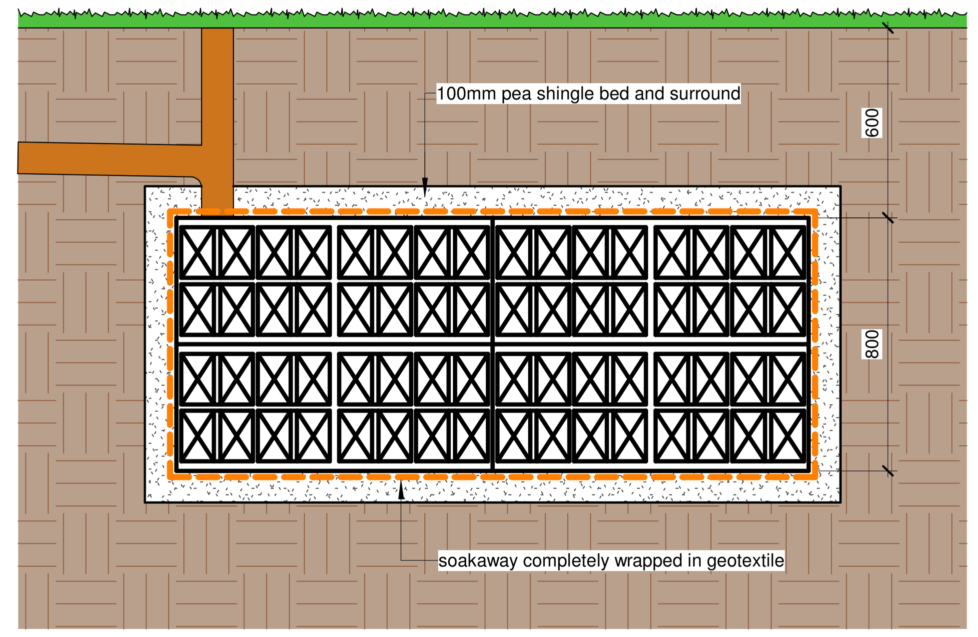
External Drainage Plan

1 : 100



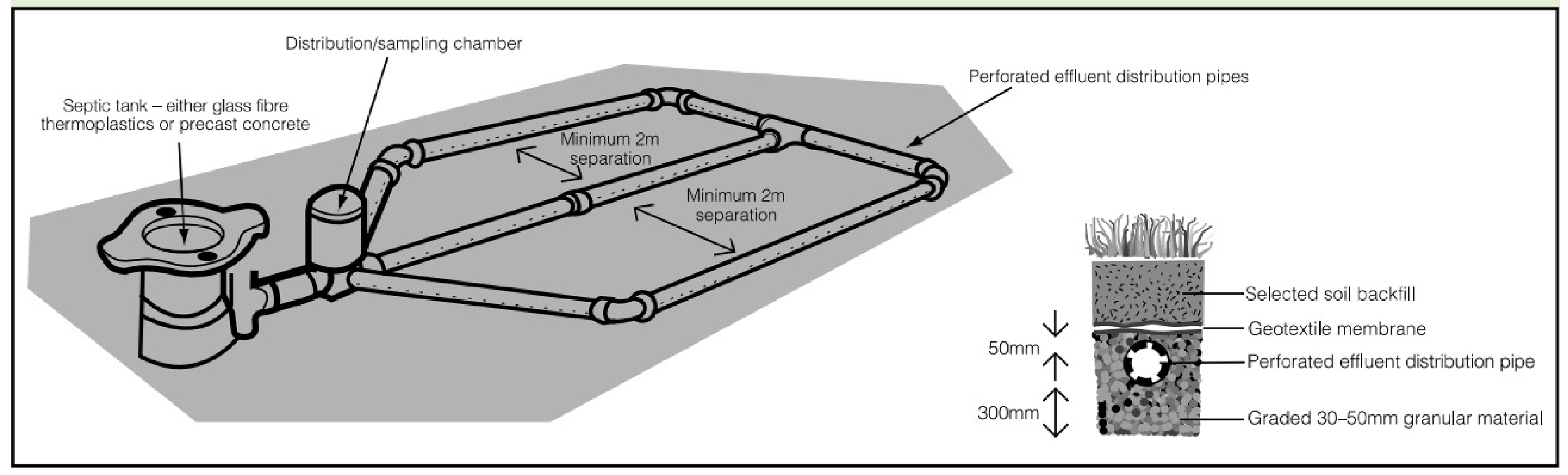
Typical installation procedure
1. Excavate the trench to the required depth ensuring that the plan area is slightly greater than that of the soakaway crates.
2. Lay 100mm bed of coarse sand or non angular granular material, level and compact.
3. Lay the geotextile* over the base and up the sides of the trench.
4. Lay the crates parallel with each other. In multiple layer applications, wherever possible, continuous vertical joints should be avoided. Crates can be laid in a 'brick bonded' formation (i.e. to overlap the joints below). For single layer applications use the manufacturer's clips and for multi layers use the clips and the shear Connectors (vertical rods).
5. Fix the adaptors to the AquaCell units as required and connect pipework.
6. In order to prevent silt from entering the tank, clogging inlet pipework and reducing storage capacity, it is recommended that a Silt Trap is fitted.
7. Wrap and overlap the geotextile covering the entire soakaway structure.
8. Lay 100mm of pea shingle between the trench walls and the crate structure and compact.
9. Lay 100mm of coarse sand or non angular granular material over the geotextile and compact.
10. Backfill with suitable material.
11. Rainwater from roof areas may discharge directly into the soakaway but rainwater from carparks must discharge through a catchpit manhole and/or a petrol interceptor.

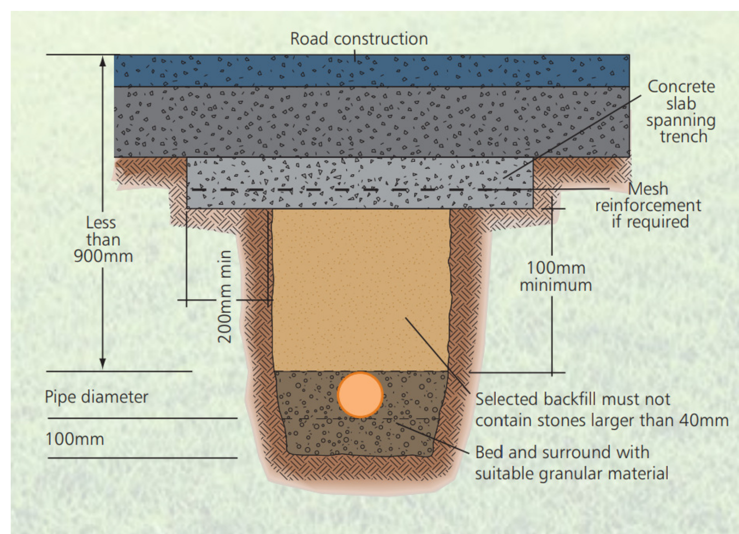
*The geotextile should be selected according to specific site conditions. Specialist advice should be sought if surrounding soil characteristics exhibit a high degree of fines/low infiltration capacity and/or there is a high risk of damage from ground contaminants.

Soakaway

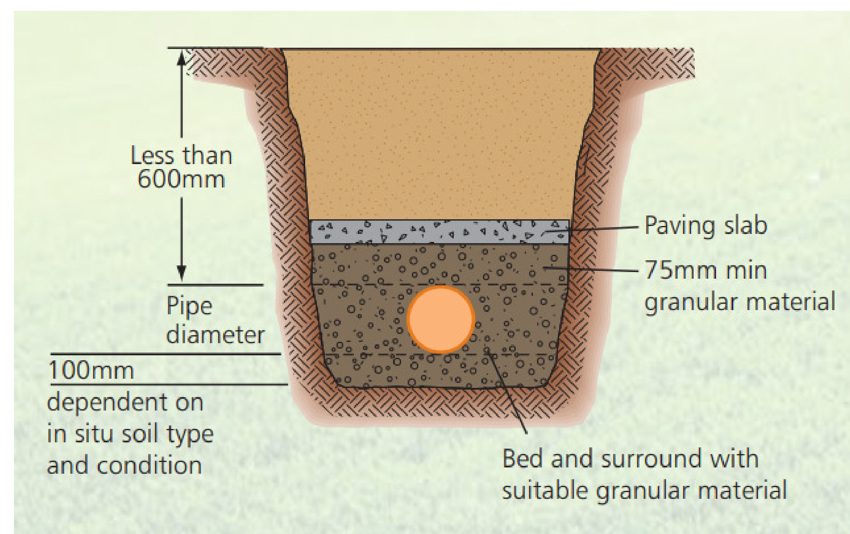
1 : 20

Diagram 1 **Drainage field**

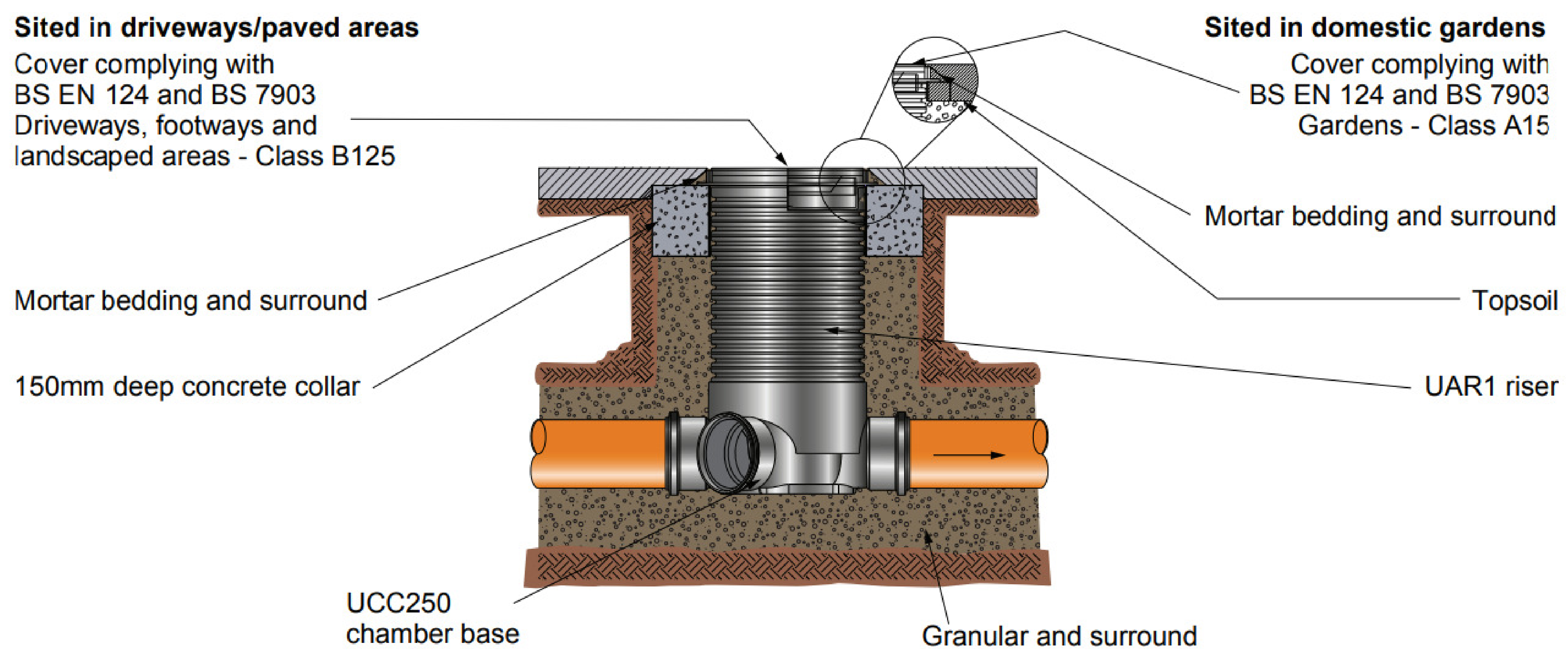




Drains under driveways



Drains under gardens



250mm chamber installation

ARC Survey & Design Consultants Ltd
Architectural Services
Chartered Building Surveyors
10 Thurlaston Close,
Peterborough, PE3 6LD
T: 01733 753727 / 07787 536417
e: info@arcsurvey.co.uk
e: arcpb.co.uk

No.	Description	Date
A	Building regs update ASHP added	05.07.22
B	Nesting boxes added	09.11.23

89 Quadring Road, Donington

Replacement dwelling

External drainage plan

Project number	21 039
Date	05.07.22
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P105

Scale	As indicated

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