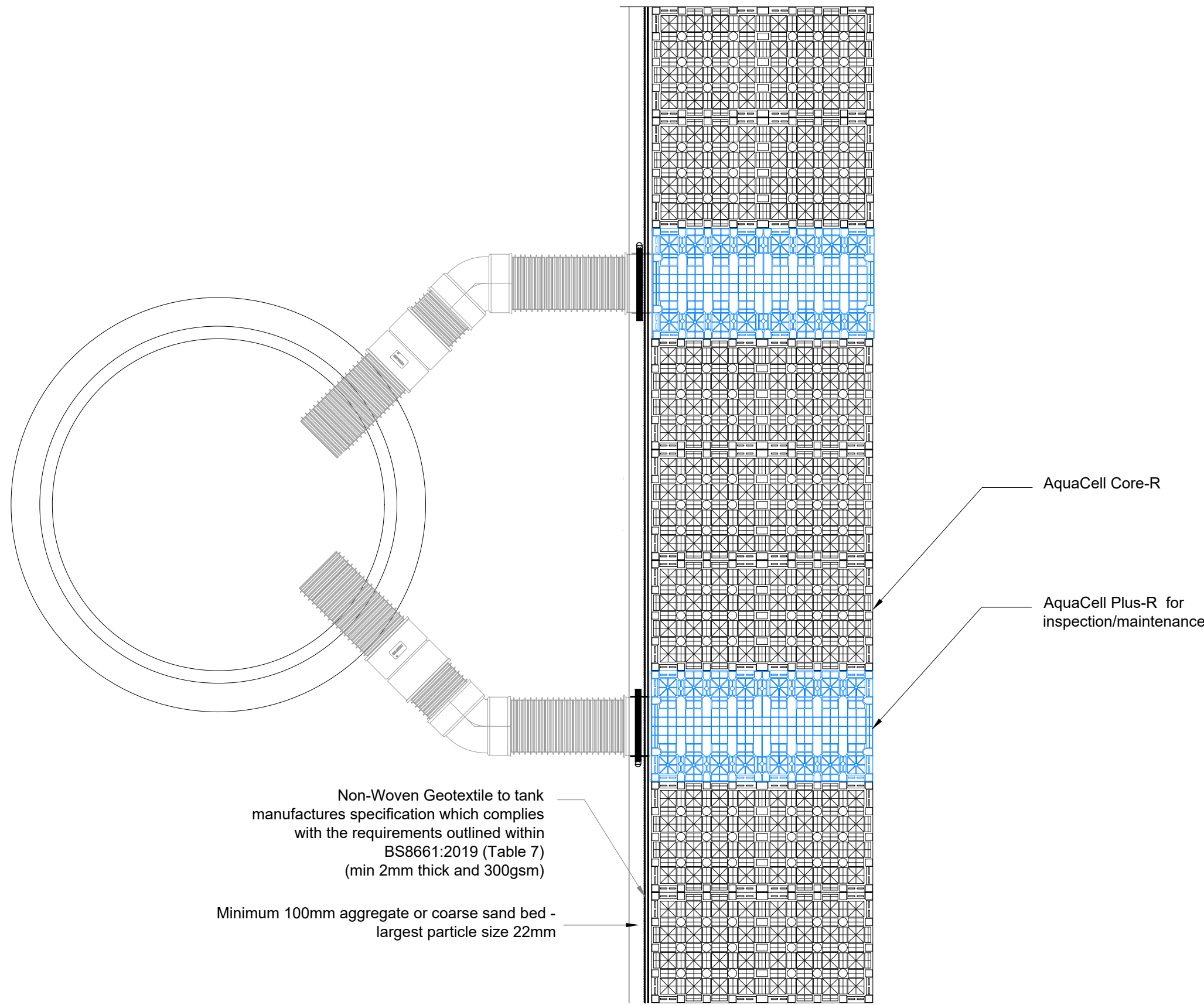
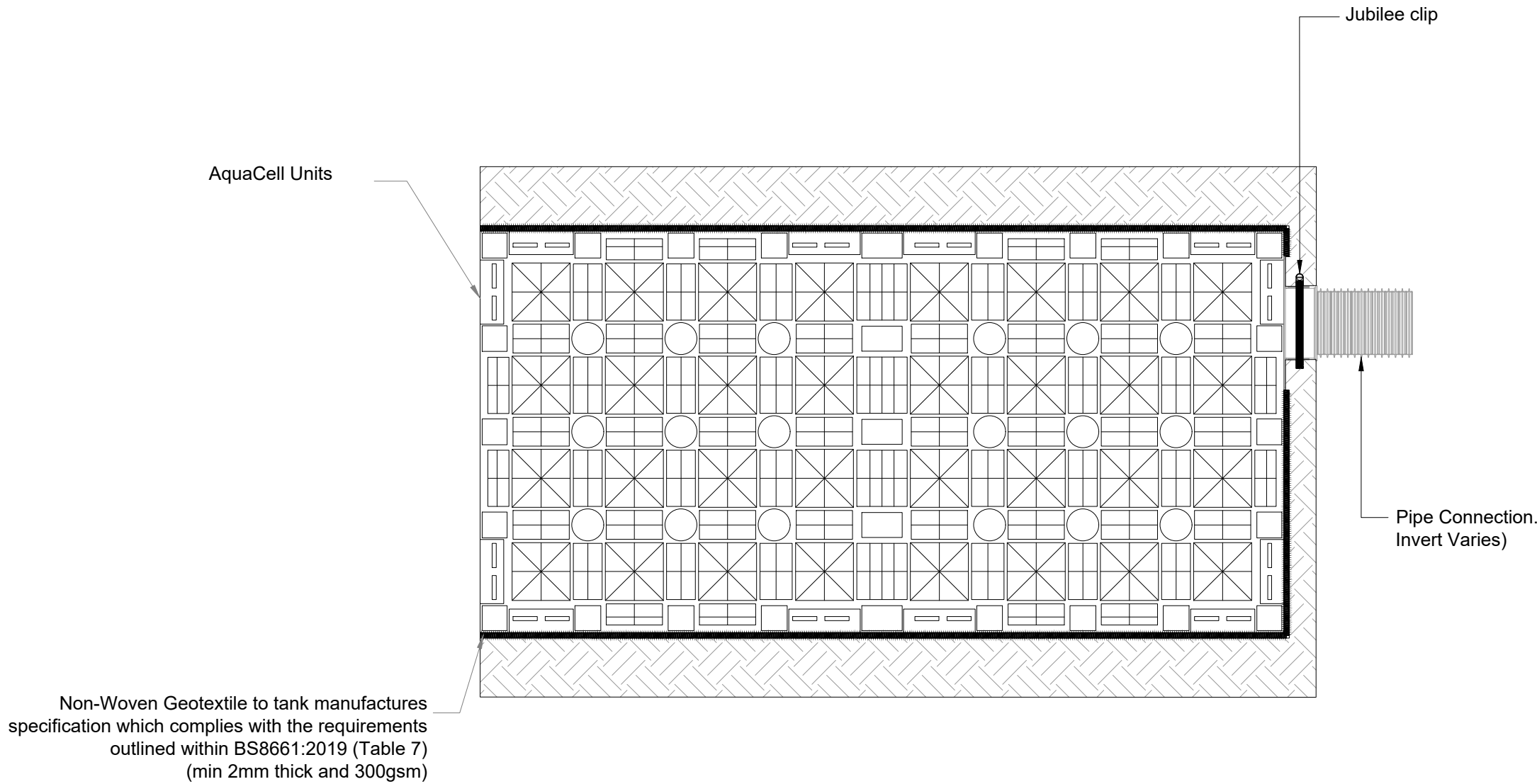




AquaCell Core-R attenuation tank link pipe detail



Typical connection to AquaCell units

INSTALLATION METHOD  
(As supplied by Tank Manufacturer)

- Excavate the trench to the required depths ensuring that the plan area is slightly greater than that of the AquaCell units.
- Lay 100mm bed of coarse sand or non angular granular material, level and compact.
- Lay the geotextile over the base and up the site of the trench.
- Lay the AquaCell units parallel with each other. In multiple layer applications, wherever possible, continuous vertical joints should be avoided. AquaCell units can be laid in a 'brick bond' formation (i.e. to overlap the joints below) - see page 16. For single layer applications use the AquaCell clips and for multi layer applications use the AquaCell clips and the AquaCell Shear Connectors (vertical rods).
- Fix the Adaptor to the AquaCell unit as required and connect piecework.
- In order to prevent silt from entering the tank clogging inlet pipework and reducing storage capacity, it is recommended that the Domestic Silt Trap (6LB300) or one of the Standard Silt Traps (6LB600, 6LB625, 6LB630) is installed prior to the inlet pipework - see page 24 for installation guidelines.
- Wrap and overlap the geotextile covering the entire AquaCell structure.
- Lay 100mm of coarse sand or non angular granular material between the trench walls and the AquaCell structure and compact.
- Lay 100mm of coarse sand or non angular granular material over the geotextile and compact.
- Backfill with suitable material.
- Rainwater from roof areas may discharge directly into the soakaway but rainwater from car parks must discharge through a catchpit manhole and/or a petrol interceptor.

GEOTEXTILE SPECIFICATION

Geotextile:

- 300gsm and 2mm thick non-woven with sewn or glued joints.

It is crucial that the specified material will:

- Withstand the rigours of installation
- Resist puncture
- Resist multi-axial elongation stress and strains associated with settlement
- Resist environmental stress cracking
- Resist damage from in ground contaminants
- Remain intact for the full design life of the AquaCell installation
- Maintain its permeability with respect to passage of water for the full design life of the AquaCell installation

BACKFILL SPECIFICATION

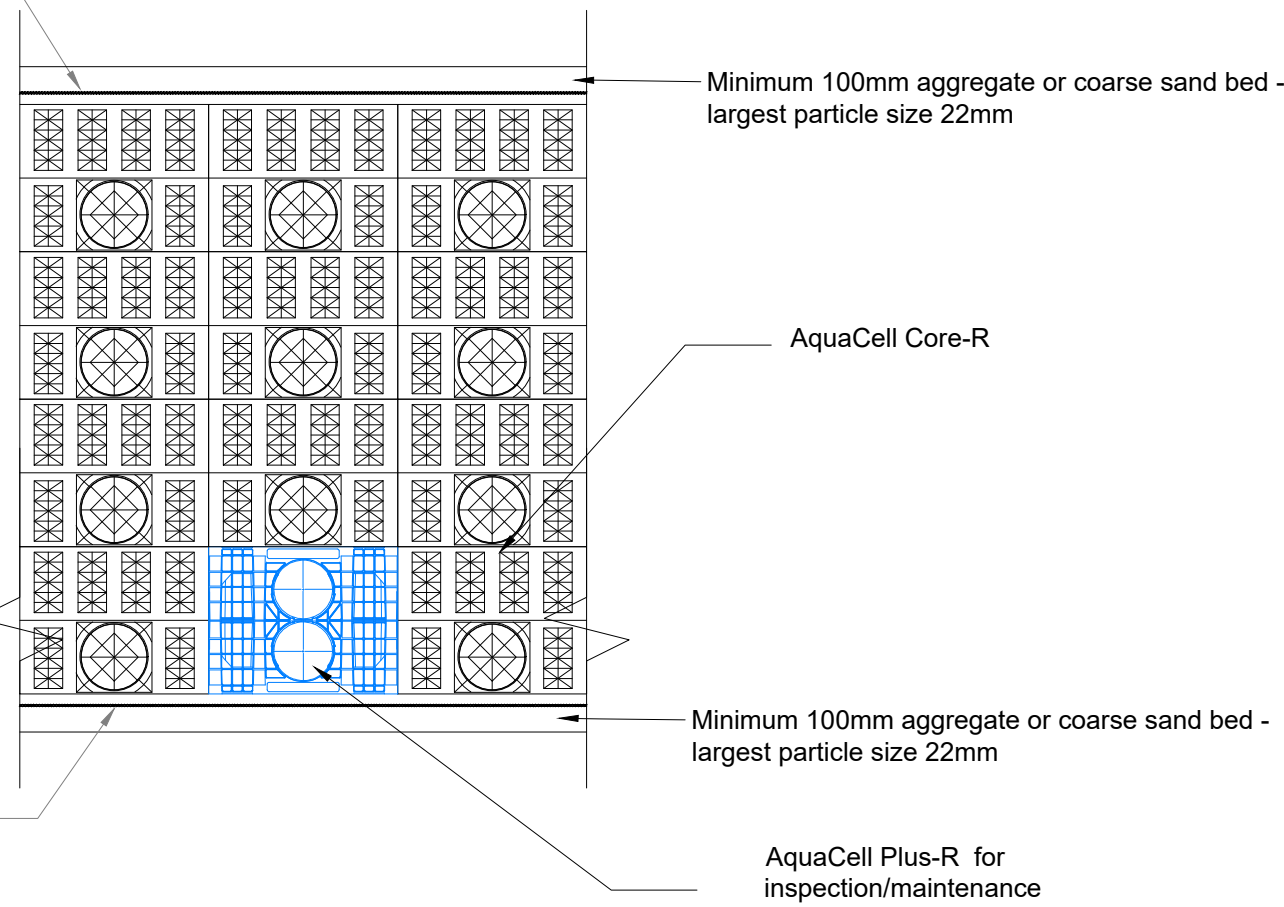
Backfill to be compacted granular material Type 1 (or Type 2). Tracked excavators (not exceeding 21 tonnes weight) should be used to place fill over the AquaCell units

NOTE: This applies to AquaCell Plus R and Core R ONLY. AquaCell ECO are NOT suitable for construction traffic loading

At least 300mm of fill should be placed before Construction Traffic delivering the backfill are allowed to traffic over the units.

Compact in 150mm layers after the initial 300mm layer. Compaction Plant should not exceed 2300kg/m width.

Non-Woven Geotextile to tank manufactures specification which complies with the requirements outlined within BS8661:2019 (Table 7) (min 2mm thick and 300gsm)



AquaCell Core-R Attenuation tank section

Notes

- Do not scale from this drawing on print or electronically. Work from figured dimensions only.
- No deviation from the details on this drawing is allowed without CampbellReith's prior permission in writing.
- Read this drawing with all Architect's, Service Engineer's and CampbellReith's relevant details, specifications and drawings.
- All work is to be done in accordance with the relevant specifications issued by CampbellReith, British Standard Codes of Practice, Statutory Requirements and the Contract Documents.

Drawing revision:

|                       |                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------|
| <b>P: Preliminary</b> | Evolving drawings for approvals, tenders, billings etc.                                           |
| <b>C: Contractual</b> | Drawings authorized and approved for stage completion i.e. Stage-Tender or Stage 5-Construction . |

Drawing status:

Work in progress  
**S0** - Initial status  
Shared (Non-contractual)  
**S1** - Suitable for coordination, **S2** - Suitable for information, **S3** - Suitable for review and comment, **S4** - Suitable for stage approval.  
Published (For contractors purposes)  
**A1, An** etc - Authorised and accepted ('n' relates to work stages)  
**B1, Bn** etc - Partial sign-off (with comments)  
**CR** - As constructed record document (Final Construction ONLY. Any deviations to that which is on site is not the liability of CampbellReith)

Work Stages:

**2** - Concept, **3** - Definition, **4** - Design, **5** - Build & commission, **6** - Handover

Only drawings with **revision Cn** and **status A5** to be used for Construction

|     |                        |          |    |
|-----|------------------------|----------|----|
| P1  | Issued for Information | 07/09/23 | IC |
| Rev | Description            | Date     | By |

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Job Title  
**Gwersyllt, Wrexham**

Client  
**J10 Planning**

**Proposed Drainage  
Standard Details  
(Sheet 3 of 3)**

|          |           |            |            |             |            |
|----------|-----------|------------|------------|-------------|------------|
| Drawn by | Date made | Scale @ A1 | Checked by | Suitability | CR Project |
| IC       | 17/08/23  | 1:20       | LM         | S2          | 14009      |

|             |            |        |         |      |      |        |     |
|-------------|------------|--------|---------|------|------|--------|-----|
| Project No. | Originator | Volume | Lvl/Loc | Type | Role | Number | Rev |
| 14009       | CRH        | ZZ     | XX      | DR   | C    | 5303   | P1  |