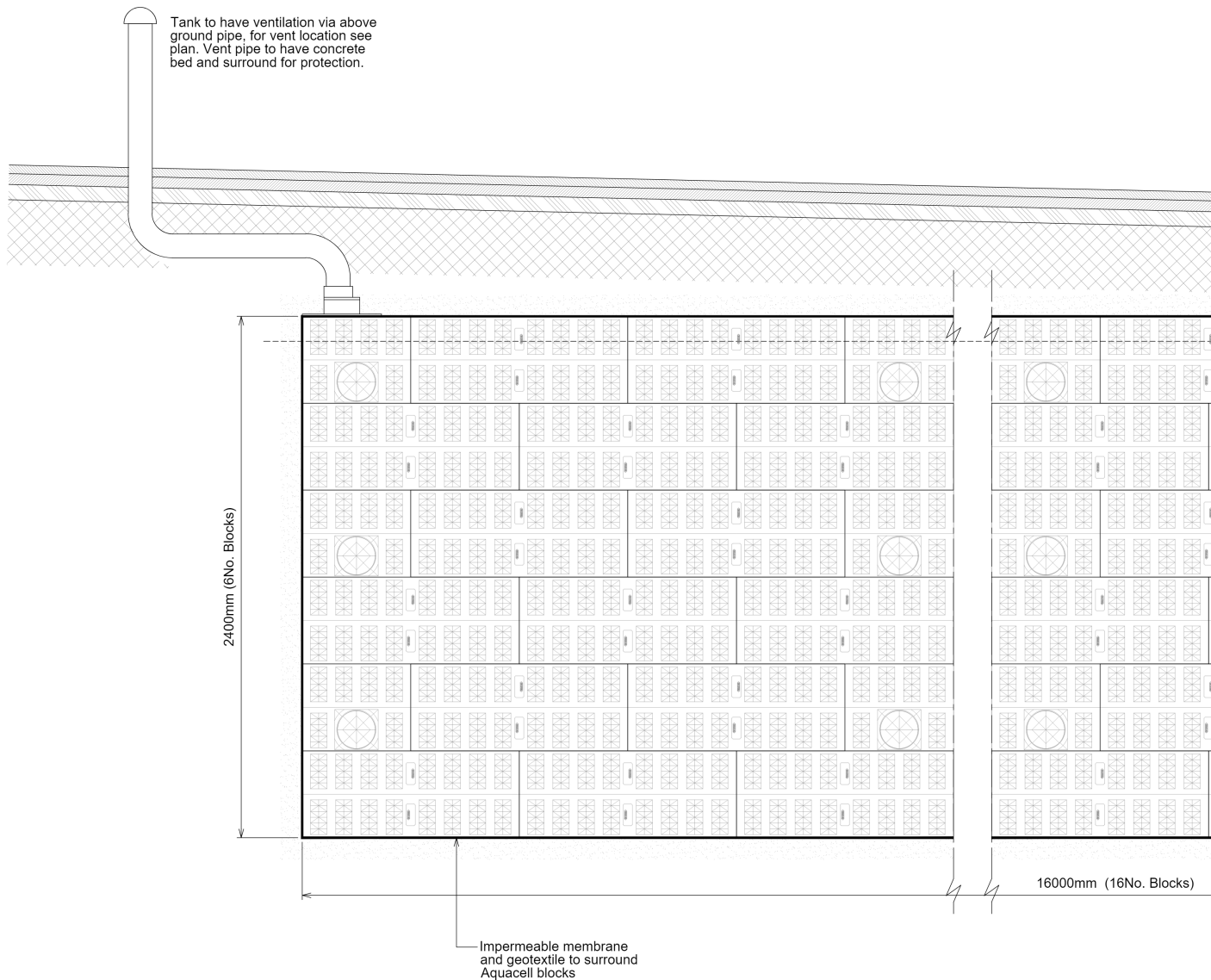


Section: Cellular Attenuation Tank (Aquacell)

scale 1:20



Aquacell Installation Notes: (Contractor to consult manufacturers literature for full details)

1. Excavate the trench to the required depth ensuring that the plan area is slightly greater than that of the AquaCell units.
2. Lay 100mm bed of coarse sand, level and compact.
3. Lay the geotextile over the base and up the sides of the trench.
4. Lay the impermeable membrane on top of the geotextile over the base and up the sides of the trench.
5. 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 bonded' formation (i.e. to overlap the joints below). For single layer applications use AquaCell Clips and for multi layers use AquaCell Clips and AquaCell Shear Connectors (vertical rods).
6. Wrap the Impermeable membrane around the AquaCell structure and seal in accordance with the manufacturers recommendations.
7. If side connections into the AquaCell units are required, (other than the preformed socket), use the appropriate Flange Adaptor. Fix the flange adaptor to the unit using self-tapping screws. Drill a hole through the Flange Adaptor and connect the pipework.
6. In order to prevent silt from entering the tank, clogging the inlet pipework and reducing the tank capacity, it is recommended that a silt trap / catchpit is installed upstream of the tank inlet.
7. Wrap and overlap the geotextile to cover the entire AquaCell structure protecting the impermeable membrane.
8. Lay 100mm of coarse sand between the trench walls and the AquaCell structure and compact being careful not to damage the blocks or either of the membranes.
9. Lay 100mm bed of coarse sand over the geotextile and compact.
10. Backfill tank with suitable clean material, free of organic matter and debris.

