

# SPECIFIERS INFO PACK

## / DESIGN DRAWING REQUIREMENTS

To ensure any and all building consents including an Aquacomb water storage system are not delayed or returned with an RFI, we have collated an easy to follow guide of things to specify or be aware of when designing your system.

**1. LEAF DIVERTERS** specified on each downpipe. Please ensure your drawings show a leaf diverter is to be fitted on each downpipe that feeds the Aquacomb system with water. Alternatively, specify gutter guards.

**2. SILT TRAP** on entry shown at entrance point to pods. Please ensure your drawings show a silt trap to accept flows into and out of the Aquacomb system. Alternatively, if silt traps are not possible, first flush devices need to be installed on each downpipe instead. Please carefully consider the best location to have the silt trap installed as it will sit proud of the exterior finished ground level. As standard, top of silt trap sits level with finished floor level.

**3. OVERFLOW** path shown on plans. Please ensure your drawings specify an overflow from the silt trap. The point of overflow must be equal to the top of the upper connection pipe. Refer to silt trap drawing below.

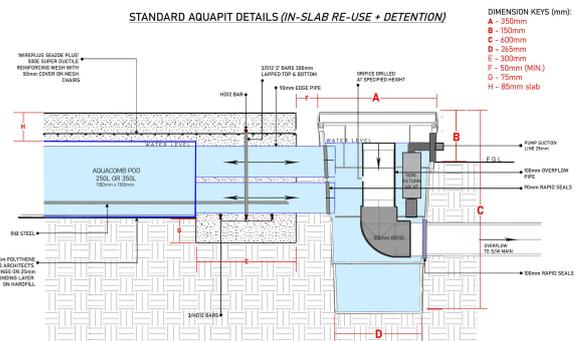
**4. VENTS** are shown where needed. A separate vent is only needed when you cannot connect both connection pipes to the silt trap. Wherever a vent is needed, please ensure your drawings show the location of the vent at least 300mm above the level of overflow.

**5. PUMPS** location is shown. Where a water pump is being used on any retention system, please ensure you include the correct pump dimensions and location on your drawings. Remember the pump needs power and water nearby.

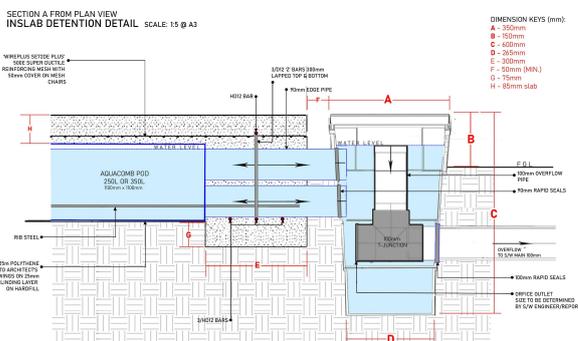
**6. WARNING SIGNS** on taps. Note on plans that above all taps supplied by the water pump (retention systems only) a 'not for drinking' or 'non-potable water' alert sign must be affixed.

### CONNECTIONS USING SILT TRAP:

#### REUSE:



#### DETENTION:



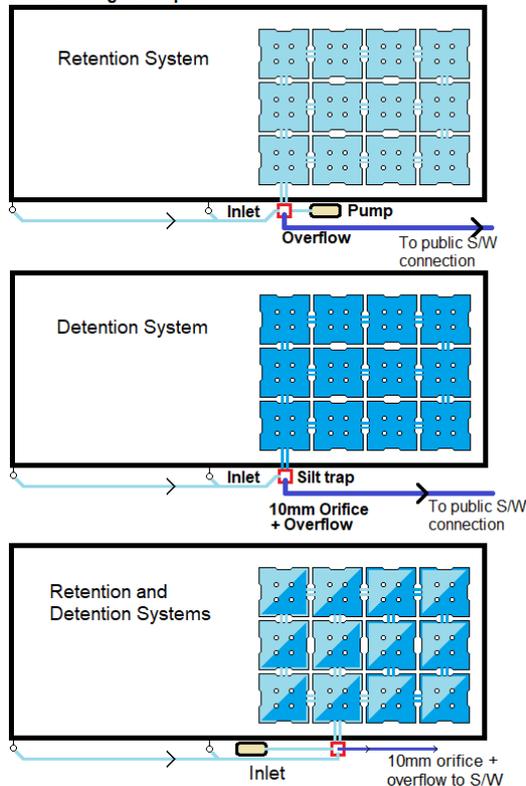
# REQUIREMENTS

## Drainage Plan Requirements

When incorporating Aquacomb into your designs, there are a couple of things to keep in mind when creating the drainage plan.

- 1. OVERFLOWS.** When overflows are positioned from a silt trap or at the base of a downpipe, a line needs to be included that shows the overflow path.
- 2. RAINWATER FLOW PATH SPECIFIED.** On the drainage plan, make sure to include the lines running from the downpipes to the silt trap by the Aquacomb entry point.
- 3. DISCHARGES AND ORIFICE** With any Aquacomb Detention system, please include the stormwater release line from the outlet orifice to the street stormwater connection. This is often combined with the overflow line. Please specify the outlet orifice size on your plan.

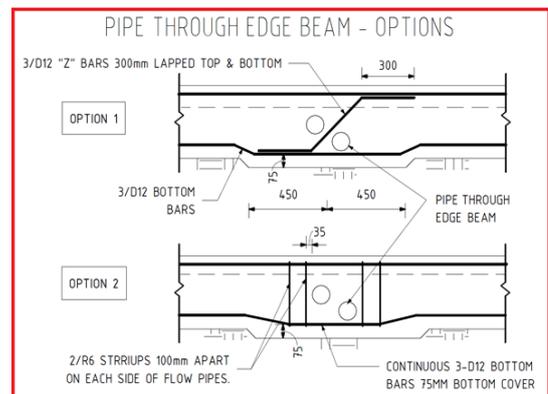
### Basic Drainage Examples



## Foundation Plan Requirements

When designing a floor slab incorporating an Aquacomb retention or detention system, there are a few things to check before finalising the designs.

- 1. THICKENED EDGE BEAM** around pipes. The Aquacomb system relies on water getting into and out of the pods via the inlet/outlet pipes. These are 90mm pvc pipes that extend from the pods to the outside of the concrete foundation. Strengthening of the edge beam has been advised by some engineering firms. To do this, a slight thickening of the edge beam has been advised. There are two ways to achieve this as shown in the diagram below.



- 2. AVOID SLAB THICKENINGS.** Avoid placing pods over slab thickenings, as structural walls and deep fixings will be installed in these areas.
- 3. AVOID SERVICE PENETRATIONS AND WET AREAS.** Avoid placing pods in locations where service penetrations are needed. An Aquacomb pod cannot be cut to allow penetrations through it. Also avoid placing Aquacomb pods in areas where concrete is removed/ground down for showers or other wet areas.