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**Bullet points for the front of the brochure**

* Squarer stronger tank
* Larger storage volume
* Less Inspection openings
* More pump options
* Less slab penetrations

**Slabtanks V2** are a proven simple method of incorporating water storage into your project. They have no visual impact, do not take up valuable land and add value to your project. Although primarily designed to fit in with waffle pod slabs they work just as well in conventional slabs. They are best placed into garage, carport or driveway slabs to gain access to the control tanks for cleaning and maintenance. The shape and layout of the tank matrix is infinitely flexible and can be adapted to many sites. The tanks hold 315 litres each and when installed in a conventional double garage you will get about 5000 to 6000 litres of storage. They can be used to store rain water, recycled water and for stormwater detention systems.

**Specifying**

|  |  |
| --- | --- |
| **Tank Specification** | |
| Tank Size | 1090 x 1090 x 300mm |
| Spacing Between Tanks | 110mm |
| Concrete Cover Minimum | 100mm |
| Storage Capacity | 315 Litres |
| **Tank System Location** | |
| Like any tanks you must have access to them for cleaning and maintenance. Preferably an area with no floor coverings such as the garage, carport, driveway etc. | |
|  | |
| **Considerations:** | |
| First Choice is always the garage | |
| Location of downpipes to be connected to the tanks | |
| Location of the overflow to the legal point of discharge | |
| Location of the pump | |
| The tank system may affect the slab engineering | |
| **Downpipe Connection** | |
| Downpipes can be connected from anywhere around the house but it is far simpler to connect 2-3 from around the tank location. These enter through | |
| the side of the slab as required. Each down pipe must have a leaf screener fitted. | |
| **Considerations:** | |
| It is preferable to have one or two only entry points for SW connection | |
| It is preferable down pipes are connected to the one inlet control tank | |
| The inlet control tanks acts as a sediment trap and requires an inspection opening | |
| **Overflow to LPD** | |
| The overflow to the legal point of discharge can be from either the pump or inlet control tanks. This is usually taken to the edge of the slab closest | |
| to the LPD whether it be the street, a side entry pit or a barrel drain | |
| **Considerations:** | |
| It is preferable to have the connection to the LPD from the inlet tank | |
| **Pump Location** | |
| The standard pump configuration is a Davey KRB1 inside a pump box 600 long x 400 deep x 450 high. The box has a lid and looks like a small esky. | |
| There is also an option of pits external to the tank area or wall mounted rescessed units. | |
| **Considerations:** | |
| The pump is connected to the tank system via the pump control tank. | |
| The pump control tank will have a float switch and suction line connected to the pump with an inspection opening | |
| Mains water back up connection point at the pump location | |
| Take off connection point to appliances and taps at the pump location | |
| Power point at the pump location | |
| **Slab Design** | |
| The beams in the slab can be adversly affected by the inlet and overflow piping as well as the interconnection piping. The structural engineer should | |
| be notified of the intention to include a Slabtank system in the design | |
| **Considerations:** | |
| Provide the structural engineer with a approximate location of the tank system considering all the above | |
| Tanks can only replace full pods so the engineer needs to consider pod layout to incorperate as many full pods/tanks as possible | |

**Installation**

Step 1

SlabTanks are connected together amongst the foam waffle pods or sand forms of a house slab or driveway.

Inlet, overflow, pump and power connections are taken to the external formwork.

Tanks are air tested.

Step 2

Reinforcement bar/mesh is laid as normal allowing for access ports on the tops of the control tanks.

Concrete is poured and finished as normal.

Step 3

Inlet, overflow, pump and power connections are completed around the finished slab or during construction.

Step 4

As the house nears completion the pump, downpipe filtration, power and water connections are installed and the system is commissioned and tested.

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**slabtank hidden water storage**

At Azuratec we can supply and install a range of water conservation and management products. We offer advice and assistance with design as well as a range of standard pricing, brochures and technical information.

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