

DRAINAGE OPTIONS

DELTA® SUMPS & PUMPS



When specifying a sealed cavity membrane system, full consideration must be given to drainage, when installed below ground.

The concept of the drained cavity system is to collect and manage any moisture which breaches the integrity of the structure by channelling, collecting, and discharging such free water via a suitable evacuation point.

Channels, laid to falls, can discharge passively into a sump or be connected to a drainage system but access for maintenance should be provided.

Access ports allow inspection and water jetting of channels, while sumps have a sealed access cover which allows for annual maintenance checks to be carried out, which are recommended.

If drainage has been installed, it should be flood tested before covering it up to make sure the system works.

Delta offer a choice of sump+pump stations to fit the purpose, including Ground, Surface, Foul Waste Water pumps as well as bespoke sumps. Service agreements can be arranged through Delta and are maintained by PPS Ltd.

Delta Sumps are fitted with a dual pump system and have up to three 110mm/160mm side inlets to take ground water, or grey water from shower, laundry and sink waste via a modular drainage system.

DELTA® CHANNEL

DELTA® AQUADUCT



Delta Channel is a water collection conduit which is bedded into a preformed channel at the floor/wall angle. Holes in the channel wall allows water to ingress at this point to drain away to a sump or soak away. Access ports are available to allow maintenance and inspection. The system is joined with a range of connectors.

Delta Aquaduct is a drainage channel which acts as a perimeter conduit bedded in at the floor/wall angle. Where appropriate, it can be laid under the slab to take off ground water to a sump or soak away, and reduce flotation pressures from bearing on the slab.

Delta Aquaduct is fully perforated for maximum performance, and incorporates an outer geotextile filter to prevent particles from entering the channel.

The product comes on a roll 150m x 60mm diameter. It is also available in 100m x 100mm dia rolls.

'FREE LIME' RISK

When new concrete forms the structure, to walls or particularly floors, there is a risk of excess free lime leaching out during the curing process. When a cavity drainage system is used in this type of application, a silicification pre-treatment of the concrete should be used to prevent the risk of free lime build up, and blockage of the drainage cavity. Delta Polysil-TG 500 is applied by spray for this purpose, and is available in 10kg drums.



BASEMENT PROTECTION

MAXXCONNECT™



If you've installed a cavity drained system internally, one of the main design considerations is how are you going to manage the water collection and discharge. This can be done passively into existing drainage points, if available and appropriate.

However, the majority of projects require a collection sump + pump, to automatically manage the evacuation of any water ingress. This type of unit requires mains power to operate, so what can be done if the power fails, and is coincident with high water ingress?

Peace of mind with the **MaxxConnect™** family.

The family consists of 3 products, the main and most essential being the **AlertMaxx** high level alarm to alert when there's a potential fault or a service is required, the **PowerMaxx** battery backup to keep pumps running during power cuts and the **MessageMaxx** telemetry which has the ability to send alert messages to up to 5 mobile phones and important data can be retrieved remotely.

The PowerMaxx Battery backup can run up to 2x V3 groundwater pumps without mains power for up to 4 days depending on the cycles per hour and sits in standby for up to 3 weeks and is virtually inaudible.