

Aquality treatment channel

(Item No. G70100)

The Aquality treatment channels provide treatment for surface water run-off and meet the highest Mitigation Indices in C753 the SuDS Manual.



Typical Application:

- Driveways
- Car Parks
- HGV service yards
- Can be used as a part of an integrated water management system allowing surface water to be harvested and reused for non-potable applications
- Can be used on steep slopes and inclines

Features and Benefits:



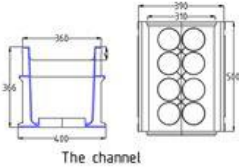

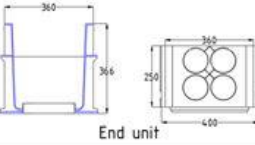

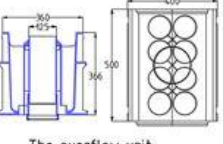

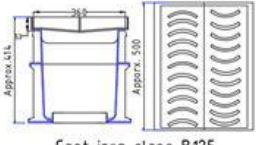

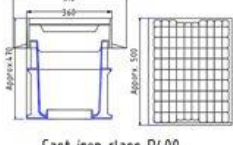
- Meets the 0.8+ Mitigation Indices for the three pollutant groups – TSS, Hydrocarbons and Heavy metals. Independently tested and approved by DiBt, supported with field test data
- Excellent hydraulic capacity
- Long media service life of 10-20 years
- Excellent solids retention and prevents soil migration when laid to a fall
- Unique filter media – optimised grain size lowers clogging risk
- Adsorbent agents provide a high retention of dissolved pollutants
- Active soil microbiology, gives a vitalised soil
- Helps decomposition of organic pollutants
- Resistant to de-icing salt
- Simple replacement of filter media in the event of accidental spillage (e.g. oil spillage)
- Internal baffle walls allows the system to be laid level or to a fall
- Simple and easy to lay
- Suitable for use in a range of trafficked areas with B and D class gratings
- Non trafficked areas require no concrete reinforcement, reducing installation cost and time
- Emergency overflow allows exceedance events to be accommodated
- The Aquality filter channel can be installed in soils with very low permeability when used in combination with Aquality Storage Block (geocellular) units

Maintenance:

The Aquality treatment channel requires relatively little maintenance, with only periodic inspection required. The filter media needs only to be replaced at the end of its expected life, which can be accurately determined at the design stage. If the media needs to be replaced carefully remove the filter media using a standard suction and rinsing vehicle. A weak water jet can be used in order to accelerate the process if desired. Continue removing the media until the openings on the lower edge of the filtration channel are visible. This will ensure that the substructure gravel remains in situ. Pour the new filter media into the channel. This requires four standard bags per metre of channel. A 1.5m³ bag is sufficient for approx. 27 linear metres of channel. When laying the media, ensure that it is evenly

spread along the channel to a depth of 200mm. Once completed, replace the cast iron gratings in their frames and lock in place.

Components & accessories:

Components	Dimensions	Drawings
 <p>Filter-media</p>	14 litre & 1.5 m3 Bulk bags	
 <p>Channel</p>	500x400x366 mm, 8 infiltration apertures	 <p>The channel</p>
 <p>End piece</p>	250x400x366 mm	 <p>End unit</p>
	500x400x366mm, with 110 mm socket connection for left or right hand	 <p>The overflow unit</p>
 <p>Cast-iron cover</p>	Class B 125	 <p>Cast iron class B125</p>
 <p>Cast-iron cover</p>	Class D 400	 <p>Cast iron class D400</p>

Specification clause:

The Stormwater treatment channel system shall be by Aquality Trading & Consulting Ltd. The system shall be Class B / D (delete appropriate) to comply with EN1433 and have been tested and approved for Stormwater treatment in accordance with DIBt requirements, and verified by field testing data. The system shall be designed to DWA138 to remove TSS to sub 63µg, hydrocarbons and nominated dissolved heavy metals (Zinc and Copper) to the 0.8+ Mitigation Indices in C753 The SuDS Manual.

NBS Specification:

The Aquality treatment channel should be specified in NBS section R17:315. Assistance in completing this clause can be found in the Aquality Trading and Consulting Ltd entry in NBS Plus or a model specification can be downloaded from www.aqua-lity.co.uk. For further assistance, please contact the Aquality Engineering Team.