ACO StormSed Filter

DATA SHEET

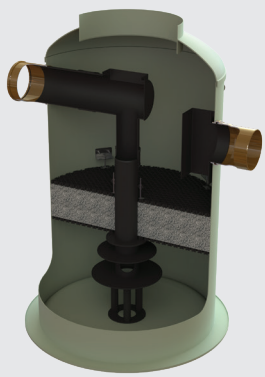
The ACO StormSed Filter is a multi-process system that combines four crucial processes – filtration, sedimentation, adsorption, and precipitation – which enables the filtration of highly contaminated stormwater.

The filter media contained in the ACO StormSed Filter retains small size particles without clogging, oil and floatables, and dissolved pollutants. It is available in a range of sizes to accommodate small to large sites.

The high level of treatment of the ACO StormSed Filter ensures that over 90% of Total Suspended Solids, as well as key pollutants such as Zinc (Zn), Lead (Pb), Copper (Cu) are removed from surface water, and retained within the system.

Benefits

- Forms part of the SuDS management train
- Very high removal efficiency of suspended solids (>90%), hydrocarbons, and heavy metals
- DIBt certified
- Delivered fitted in a GRP (Glass Reinforced Plastic) chamber for ease of installation and reduced carbon emissions due to delivery
- Small footprint
- Reduced maintenance when installed after an ACO StormSed Vortex
- Only 250mm pressure drop (difference between inlet and outlet inverts)



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SuDS Mitigation Indices

Total Suspended Solids	Metals	Hydrocarbons
0.9	0.85	0.9

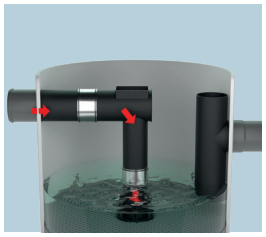
System Overview

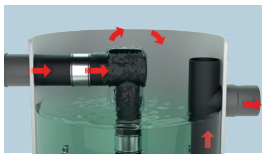
Product name	Product code	Chamber diameter (ID)	Pipe connections (ID)	Actual ID	Connectable area as per DIBt (high level of pollution)
		mm	mm	mm	m2
ACO StormSed Filter					
StormSed Filter 1000	411491	1000	DN 250	235	500
StormSed Filter 1200	411492	1200	DN 250	235	885
StormSed Filter 1500	411493	1500	DN 315	297	1385
StormSed Filter 1800	411494	1800	DN 400	377	1900
StormSed Filter 2200	411495	2200	DN 500	471	3000

* high level of pollution and primary treatment

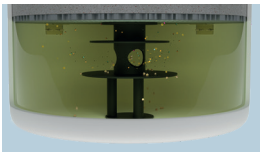
Treatment process

Heavily polluted stormwater flows into the ACO StormSed Filter.

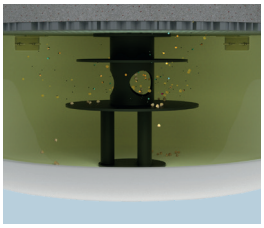




A large part of the oil separates in the central pipe.

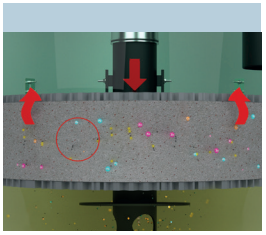


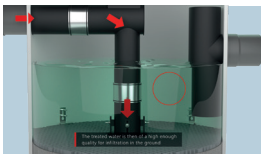
Then, larger particles like sand and gravel settle at the bottom, which prolongs the lifetime of the media.



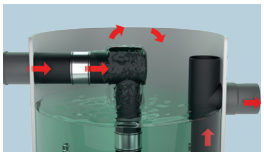
The patented design prevents the captured sediment from being flushed out and ensures the even distribution of water in the sedimentation section.

The suspended solids are captured and retained in the filter media. Dissolved pollutants are adsorbed. At the same time pH is neutralised.

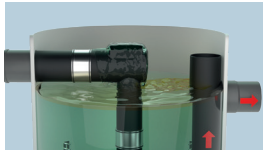




The treated water is then of a high enough quality for infiltration in the ground.



High flows during heavy storms activate the integrated overflow.



The design of the outlet allows the retention of the captured floatables.

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