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ACO StormSed Vortex

Hydrodynamic Separator

DATA SHEET

The ACO StormSed Vortex is an advanced hydrodynamic separator that removes sediment bound contaminants. Its design enables removal of pollutants by means of settlement and the capture of floatables.

The ACO StormSed Vortex is available in a range of sizes to accommodate small to large sites and can be custom made for demanding installations.

The ACO StormSed Vortex retains solid pollution and oil. It also forms part of the SuDS management train as it removes over 50% of fine Total Suspended Solids as well as sediment bound metals and hydrocarbons.

Benefits

- Forms part of the SuDS management train
- Accommodates high peak flow rates with protection against remobilisation of captured suspended solids
- Delivered fitted in a plastic chamber for ease of installation
- Easy remote maintenance
- Small footprint



SuDS Mitigation Indices

Total Suspended Solids	Metals	Hydrocarbons
0.5	0.4	0.5



System Overview

Product name	Product code	Chamber diameter (ID)	Pipe connections (ID)	Typical treatment flow rate - 50% TSS removal efficiency	Minimum Silt/ sediment storage capacity	Oil and floatables storage capacity
		mm	mm	l/s	m3	m3
ACO StormSed Vortex -	- Hydrodynamic S	eparator				
StormSed Vortex 750	411351	1225	DN315 (297)	12	0.225	0.300
StormSed Vortex 1000	411352	1225	375	21	0.225	0.620
StormSed Vortex 1200	40511	1200	450	30	0.598	0.569
StormSed Vortex 1500	40512	1500	500	47	0.815	0.979
StormSed Vortex 1800	40513	1800	600	68	1.723	1.945
StormSed Vortex 2000	40514	2100	750	94	1.548	3.179
StormSed Vortex 2500	40515	2400	900	123	2.013	4.300
StormSed Vortex 3000	40516	3000	900	190	3.146	7.848

How it works



Treatment process





Stormwater carrying litter, suspended solids, and oils and floatables flows into the treatment chamber where the settlement of those pollutants is achieved.



During high flows when the overflow is active, the outlet baffle plate ensures all floatables are still captured.



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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)



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



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